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科研費研究分野と

Web of Science サブジェクトエリアの
マッピング

Mapping between research fields of
Grants-in-Aid for Scientific Research
and Web of Science subject areas

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1. はじめに

大学や研究機関の研究成果について評価することの重要性は、研究開発への投資額の増加や競争的資金による研究開発投資への傾向が加速したことによって、以前にも増して高まっている。代表的な研究成果の評価方法は研究論文を対象としたビブリオメトリクスによって成果を計ることであり、引用指標をベースにした評価指標は数十年の歳月を経てもなお進化し続けている。研究開発の戦略や政策を決定する上では客観的な研究評価を行うことは必須であり、研究成果を研究実施セクターごとや時系列で区切り、また研究分野ごとに区切って比較検討するのが一般的である。

中でも研究分野は、専門家による十分な議論を経て定義されている。また、時代とともに十分な議論を経て改訂されることが多い。例えば、経済協力開発機構(OECD)では加盟国の研究開発比較評価のために研究開発の統計手法について標準化した Frascati Manual[1]を作成し、2007年には改訂した分野分類(Field of Science and Technology, FOS)¹を定義して公開している。

英国では、高等教育助成会議である HEFCE(Higher Education Funding Council for England)、SFC(Scottish Funding Council)、HEFCW(Higher Education Funding Council for Wales)、および DEL(Department for Employment and Learning, Northern Ireland)が大学および研究機関に対する研究評価事業(Research Assessment Exercise, RAE)を定期的に行っており、研究評価の枠組みとして研究分野を区切った評価単位(Unit of Assessment, UoA)を構成して研究評価を行っている。2008年に実施された RAE2008では、UoAを67の分野²で構成し、RAEの経験をふまえた新たな研究評価事業 REF(Research Excellence Framework)2014では、UoAを36の分野³で構成している。

我が国においては、広範な分野を網羅し様々な研究段階を考慮した研究助成制度である科学研究費助成事業(科研費)の研究課題に対し客観的な評価を行うことの必要性が高まっている。研究課題に付与された研究分野⁴は、研究課題応募時の申請区分であるものの、研究評価の区分として二次利用されることが多い。科研費の研究分野は研究種目によって設定され、もっとも多くの研究課題に付与される研究分野分類は「系・分野・分科・細目」

¹ <http://www.oecd.org/science/inno/38235147.pdf>

² <http://www.rae.ac.uk/aboutus/uoasp>

³ <http://www.ref.ac.uk/panels/unitsofassessment/>

⁴ http://www.jsps.go.jp/j-grantsinaid/02_koubo/saimoku.html

表（または、単に「細目」表）に示される。この細目表は、おおよそ 10 年ごとに大改訂が行われ、ほぼ毎年小改訂が施されている。

研究論文を対象としたビブリオメトリクスを算出するために用いられる代表的な基礎データの 하나가、トムソン・ロイター社の Web of Science(WoS)である。WoS の引用指標は世界的に研究評価機関で採用される標準の一つとなっている。同社の研究評価プラットフォームである InCites⁵は、WoS の引用指標を中心に、様々な角度から国や大学、研究機関といった主体を対象として研究分野の強みや弱みといった特徴を比較評価することを可能としている。比較のための研究分野分類は、雑誌単位に原則付与される WoS のサブジェクトエリアと ESI(Essential Science Indicator)のサブジェクトエリアであり、それぞれ 251 分野⁶と 22 分野⁷で構成されている。ただし、分野横断的な雑誌のうち例外的に記事単位でサブジェクトエリアが付与される場合がある。

こういった研究分野分類を研究評価のフレームワークの上に設定して、研究成果を議論することが一般的である。研究評価指標として代表的な WoS の引用指標を評価に用いる際に、WoS に設定されたサブジェクトエリアを用いることも可能であるが、研究評価のフレームワークに合致した研究分野分類を用いて引用指標を議論することの方がなじみやすい。

英国では、前述の研究評価事業 RAE において設定された研究分野を区切った評価単位 UoA を用いて WoS の引用指標を比較したいというニーズを受けて、UoA と WoS の分野分類とのマッピングを構築し、そこから UoA を研究分野分類として引用指標を英国大学間、英国と先進諸国との間で比較した結果が報告されている[3][4]。

InCites では、WoS の分野分類といくつかの研究評価フレームワークにおける分野分類とのマッピングを構築し、2014 年 6 月現在では前述の OECD、英国の RAE および REF に加えて、オーストラリアの ERA(Excellence in Research for Australia)、ブラジルの FAPESP(São Paulo Research Foundation)、中国の SCADC(State Council Academic Degree Committee)、およびイタリアの ANVUR(National Agency for the Evaluation of Universities and Research Institutes)の分野分類で引用指標を比較分析することができるよう対応している。

そこで、本研究では、同様のニーズが日本においても存在することを考慮し、日本の研究評価や戦略的事業計画において取り扱われることの多い科研費の分野分類をとりあげ、WoS の分野分類とのマッピングをとることを目的とする。本報告では、マッピングのアプローチと結果について述べる。以下、2 章でレコードリンケージによる分野分類マッピングのアプローチについて述べる。3 章では、国立情報学研究所で運営している科学研究費助成

⁵ <http://thomsonreuters.com/incites/>

⁶ http://incites.isiknowledge.com/common/help/h_field_category_wos.html

⁷ http://incites.isiknowledge.com/common/help/h_field_category_esi.html

事業データベースである KAKEN⁸に掲載された 2009 年度の実績報告書と該当する WoS の論文書誌を用いて行ったマッピングの結果について述べる。本報告書の末尾にある付録の図表は、この結果の詳細を記している。最後に、4 章で本報告をまとめる。

2. レコードリンケージによる研究分野マッピング

2 つの分野分類のマッピングをとる方法は 2 通り考えられる。一つは、分野分類の概念を念頭に置いて概念同士の包含関係や同値関係を勘案し、概念空間を直接比較する方法である。もう一つは、2 つの分野分類に紐づけられる共通の要素を媒介に関係づける方法である。前者は人手によって直接関係付けることとなりトップダウンによる人間の判断が必要であり、後者は共通の要素を介して間接的に関係付けることとなりボトムアップによる関係の定義が必要である。本研究のアプローチでは、客観的に 2 つの研究分野を関係づけるために共通の要素を設定してボトムアップに関係を定義する方法を選択する。

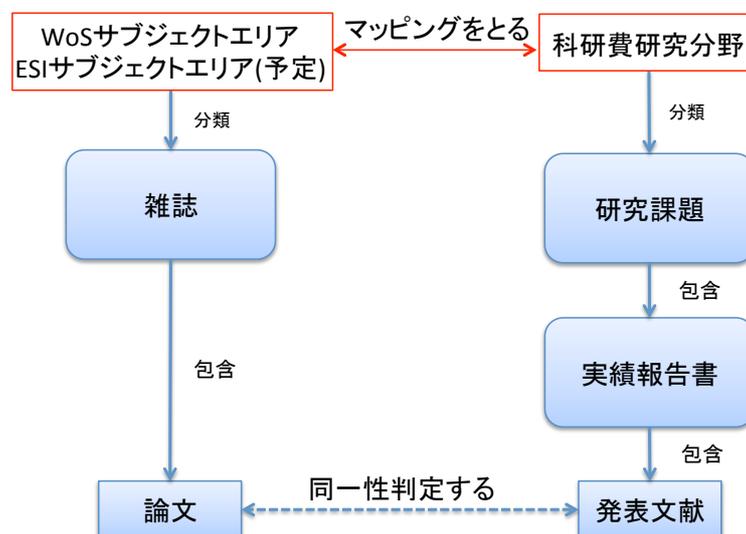


図 1 論文を対象としたレコードリンケージに基づく WoS サブジェクトエリアと科研費研究分野とのマッピング

マッピングの概要を図 1 に示す。科研費の分野分類と WoS の分野分類とのマッピングをとるために、ここでは共通の要素として論文を選択する。科研費の研究分野分類の最下層にある細目は研究課題に多くて一つ付与され⁹、研究課題は実績報告書を包含し、実績報告書には発表文献が記述されている。WoS の分野分類である WoS サブジェクトエリアは、原則、雑誌に 1 つ以上付与され、当然のことながら雑誌は論文を包含する関係にある。ここに示した科研費の報告書に記述された発表文献と雑誌の論文は共通の要素である。

⁸ 科学研究費助成事業データベース(<http://kaken.nii.ac.jp>)は、文部科学省及び日本学術振興会が交付する科学研究費助成事業により行われた研究の当初採択時のデータ(採択課題)、研究成果の概要(研究実績報告、研究成果概要)、研究成果報告書及び自己評価報告書を収録したデータベースです。

⁹ 2013 年度より一部の研究種目で、複数細目で課題申請可能となった。

共通の要素である論文について、科研費の実績報告書に記述された発表文献の表記と WoS に登録された論文の書誌とを比較する。このとき、文献の表記と論文の書誌事項の記載が若干異なるために同一性を判定するには単純な文字列比較ではできず、大量の文献と書誌を比較するためには特別なアルゴリズムを構築して同一性判定することになる。このような技術はレコードリンケージと呼ばれている。ここでは、相澤らによって開発された高速に同定候補を挙げる i-Linkage[4]と機械学習アルゴリズムの一つで 2 値分類器である SVM(Support Vector Machine)[6]を用いて同一性判定を行う。

3. 2009 年度の研究費研究分野と WoS 研究分野を対象としたマッピング

3.1. データセット

マッピングでは、国立情報学研究所が運営している科学研究費助成事業データベース KAKEN に掲載された 2009 年度の実績報告書データと該当する WoS の論文書誌データを用いた。2009 年度の研究課題数は 58,952 件であり、そのうち「系・分野・分科・細目」表(時限付細目を除く)の細目番号のついた研究課題は 52,956 件であり、その実績報告書 50,304 件を対象とした。2009 年度の実績報告書に付与された細目番号は 284 通りである。また、報告書に記述された発表文献 293,753 件のうち英文と判定できる文献 139,343 件を WoS の論文との同一性判定に該当する可能性のある文献と想定し用いることにした。全発表文献数の 47.4%(139343/293753)にあたる。(付録「A. 科研費のデータと研究分野」)

発表文献には、出版年度の情報に記載されており 2000 年から 2011 年までの範囲で分布したが、99.8%にあたる 137,331 件の英文文献が 2009 年と 2010 年に分布したため(付録 p.33)、WoS の出版年が 2009 年と 2010 年にあたる論文書誌データ 3,925,776 件を同一性判定のターゲットに選択した。(付録「B. WoS のデータとサブジェクトエリア」)

実績報告書データにおける研究分野と文献書誌の例を図 2 に示す。科研費報告書の発表文献書誌は著者、タイトル、ジャーナル名・巻号、ページ、年、査読の有無に区分されているが、論文の引用スタイルと同程度の省略形で自由に記述されていることがわかる。一方、WoS の論文書誌の例を図 3 に示す。WoS の論文書誌は書誌事項が比較的詳細に区分されていることがわかる。

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    <title><![CDATA[Measurement of Ultra-high Energy Cosmic Rays by Telescope Array(TA)]></title>
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    <pages>108-113</pages>
    <year>2009</year>
    <review>1</review>
  </journal_article>
....
</publications>
....
</grant_award>

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図 2 KAKEN における実績報告書データの研究分野と文献書誌の例

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pubyear="2009" sortdate="2009-01-01" vol="57">
      <page begin="123" end="124" page_count="2">123-124</page>
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....
</REC>

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図 3 WoS における論文書誌データの WoS サブジェクトエリアと書誌項目の例

3.2. 書誌の同一性判定

科研費実績報告書の発表文献書誌と WoS の論文書誌に対して、相澤らによって開発された高速に同定候補を挙げる i-Linkage[4]と機械学習アルゴリズムの一つで 2 値分類器である SVM(Support Vector Machine)[6]を用いて、同一性判定を行った。(付録「C. レコード

リンケージの性能検証」)

同一性判定では、2009年度実績報告書の発表文献のうち、英文文献と判定されるもの(同一性の性能検証を目的とするため、分野分類されるかどうかはここでは問わず、件数を多くとった) 173,940 件に対し、WoS 論文書誌 3,925,776 件を比較する。逐次で一対比較をするには計算量が膨大になり実時間で処理できない量である。このため、i-Linkage はソースとなる書誌に対し、ターゲットとなる書誌の候補をいくつかにしぼって高速にリストを返す、ブロッキングと呼ばれる機能を提供する。ここでは一つのソース書誌に対し、5つのターゲット書誌候補をリスト化するように設定して利用した。その結果、科研費の発表文献書誌をソース、WoS 論文書誌をターゲットとする 822,841 件の書誌ペア候補を得た。

さらに、書誌ペア候補に対し、SVM を用いて同一性の判定を行う。SVM の実装は TinySVM¹⁰を用いた。特徴ベクトルの設計、および TinySVM のパラメータを設定し、人手で正解不正解判定をした約 800 件の訓練データを用いて判定した。その結果、10 分割交差検定で Accuracy 95.01、Precision 94.92、Recall 95.10、F-Measure 94.98 の性能を示し、75,042 件の正判定書誌ペアを得た。もとの英文発表文献数に比較して、43.1%(75042 / 173940)の文献が WoS の論文に紐づけられたことになる。

3.3. 分野分類の分割表の作成と頻度分布によるマッピング表の導出

科研費実績報告書の発表文献書誌と WoS 論文書誌との同一性判定の結果得た書誌ペアを用いて、研究課題に付与された科研費研究分野と雑誌に付与された WoS サブジェクトエリアの 2 軸に対し、発表文献(論文)を単位としてカウントし分割表を作成する(図 4)。データに用いた 2009 年度の実績報告書に付与された研究分野「系・分野・分科・細目」表は、4 系・10 分野・67 分科・284 細目からなり、系から細目に詳細化されるような階層構造になっている。発表文献は研究課題の実績報告書に記述され、研究課題はこのうち細目の一つに割り振られ、系・分野・分科に包含されることは含意される。一方、WoS 論文書誌に記載された雑誌は 251 分類の WoS サブジェクトエリアが一つ、または複数割り振られている。

発表文献を単位としたカウント方法は、研究課題に対し多くて一つ対応づけられる科研費分野分類にはただ一通りに決定されるが、論文を包含する雑誌に複数付与される WoS サブジェクトエリアには整数カウントと付与分類数で等分した分数カウントの二通りをとりうる。論文の総数を一定に保って分割表の要素を構成するのであれば分数カウントを用いる方が適切である。論文を分野との関係を明示したイベントだと考えれば整数カウントを用いるのが適切である。整数カウントと分数カウントの性質の違いが議論の対象となっており[4]、統計的な判断を交えた議論は不可欠である。ここでは、双方のカウント方法に対

¹⁰ <http://chasen.org/~taku/software/TinySVM/>

し分割表を作成した。(付録「D. 科研費研究分野と WoS サブジェクトエリアのマッピング」)

		科研費研究分野		
		$B_1, B_2, B_3, \dots, B_j, \dots$		
WoSサブジェクトエリア	S_1	x_{11}	x_{12}	x_{13}
	S_2	x_{21}	x_{22}	x_{23}
	S_3	x_{31}	x_{32}	x_{33}
	$\dots, S_i, \dots, S_j, \dots$			x_{ij}

図 4 科研費研究分野と WoS サブジェクトエリアを二軸とする分割表

さらに、マッピング表を得るためには、作成した分割表を 2 つの分類の対応関係の標本としてとらえ、有意な対応関係を導き出す必要がある。ここでは一つの方法として、行方向の分類から列方向の分類に対し降順に並べた頻度分布を作成し、1/分類数より大きい頻度を有意な対応関係として採用することとした。付録（「D.5. 科研費研究分野ごとの WoS サブジェクトエリアの密度分布」）では、科研費研究分野ごとの WoS サブジェクトエリアの密度分布を示した。一つの科研費研究分野から WoS サブジェクトエリアへのマッピングの状況を見て取ることができる。

3.4. マッピング結果に対する考察

3.4.1. 整数カウントと分数カウント

WoS サブジェクトエリアは雑誌に複数付与されるため、分割表の要素に加算する発表文献のカウント方法として整数カウントと分数カウントが考えられ、その両方を適用して分割表を得た。これによって作成された分割表に対し、行方向と列方向のそれぞれの分類に対し周辺度数をとって降順にソートすれば分割表の分類の順序が一意に決定される。整数カウントと分数カウントで得られたソート後の分割表には、分類の順序に若干の差異が見られた。このことはマッピング表を作成する観点からすると、一つの方法として今回適用した方法ではマッピングの若干の差異としてそのまま現れるため無視することはできないことになる。

3.4.2. 有意な対応関係の導出

2 つの分類の分割表を対応関係の標本ととらえて、有意な対応関係を導きだしてマッピング表を作成する。このために今回とった方法は、一方の分類のある項目から他方の分類の

すべての項目へ一様にマッピングされると仮定したときの頻度、すなわち 1/分類数より大きければ有意だと見なすというものであった。結果として得た表(付録「D.5. 科研費研究分野ごとの WoS サブジェクトエリアの密度分布」)を眺めると、マッピング表としては多数の項目を含んでいる。これが事実そのものであるといわれればそれまでであるが、より有意なマッピングのためには統計的な方法論を適用することが必要であると考えている。

3.4.3. 書誌の同一性判定の精度

分割表の要素を構成する主体は論文であり、2つの分類に割り当てるために科研費の発論文と WoS の論文を同一性判定している。したがって、分割表の要素の精度は同一性判定の精度に依存している。今回の実験では同一性判定の精度は F-Measure 94.98 であり、同定精度そのものとしては改善の余地がある。ところが、分割表の要素には一定の同一性判定の誤差を含んだ論文数がカウントされるので、標本の数が大きければ大数の法則により誤差は気にしなくてよい方向に向かう。

3.4.4. 分類の粒度とマッピングの方向

科研費研究分野は系・分野・分科・細目の4階層であり、WoS サブジェクトエリアとの分割表はカウント方法の2通りを掛け合わせると8通りできる。マッピングは、ここから方向を含めると16通りできるが、付録「D.5. 科研費研究分野ごとの WoS サブジェクトエリアの密度分布」は科研費の系・分野・分科の3層から WoS サブジェクトエリアへの方向で、整数カウントおよび分数カウントの2カウント方法を掛け合わせて、6通りを示した。科研費の細目は284細目であり、WoS の251サブジェクトエリアとの分割表はセル数に対し文献カウント数が少なく、有意な対応を見いだせないため除いた。

4. 結論と展望

本研究は、科研費の分野分類と WoS の分野分類とのマッピングをとることを目的とし、マッピングのアプローチと結果について述べた。アプローチは、客観的に2つの研究分野を関係づけるために共通の要素を設定してボトムアップに関係を定義する方法であり、ここでは共通の要素として論文を選択し、科研費の実績報告書に記述された発論文と WoS の雑誌に包含される論文の同一性判定を行って、双方の研究分野のマッピングをとった。同一性判定には、高速に同定候補のリストを返す i-Linkage と2値分類器である SVM を用いた。

アプローチに従って、2009年度の科研費実績報告書と記述された発論文に該当する可能性のある WoS の論文書誌データを用い、2009年度の科研費分野分類と WoS 分野分類を対象としたマッピングを行った。発論文と論文の同一性判定の精度は10分割交差検定で Accuracy 95.01、Precision 94.92、Recall 95.10、F-Measure 94.98 の性能を示し、75,042

件の正判定書誌ペアを得た。ここから、科研費分野分類と WoS サブジェクトエリアを 2 軸とする分割表を作成した。分割表の要素は論文のカウントであり、論文が複数の分野に紐づけられる軸では、整数カウントと分数カウントの双方を設定した。続けて、分割表に対し、一つの科研費研究分野ごとに WoS サブジェクトエリアの密度分布を降順に並べ、1/分類数より大きい頻度を有意な対応関係として採用することによってマッピングの様子を示した。

マッピング表の妥当性について考察を行い、整数カウントと分数カウントによるマッピング表には差異が残る点、マッピング表を構成する分類項目の抽出に有意な関係を導きだす別の方法を考慮する余地がある点を指摘した。

今後の展望として、文献書誌の同定精度の向上、密度分布から有意なマッピング表の導出、妥当性検証のためにマッピング表を用いた引用指標の算出、複数の年を考慮した分野分類に対応するなどマッピング表の拡張、WoS の研究分野分類の一つである ESI サブジェクトエリアの適用を考えている。

5. 謝辞

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付録

A. 科研費のデータと研究分野

A.1. 科研費研究課題および報告書数、発表文献数、英文和文種別の経年変化

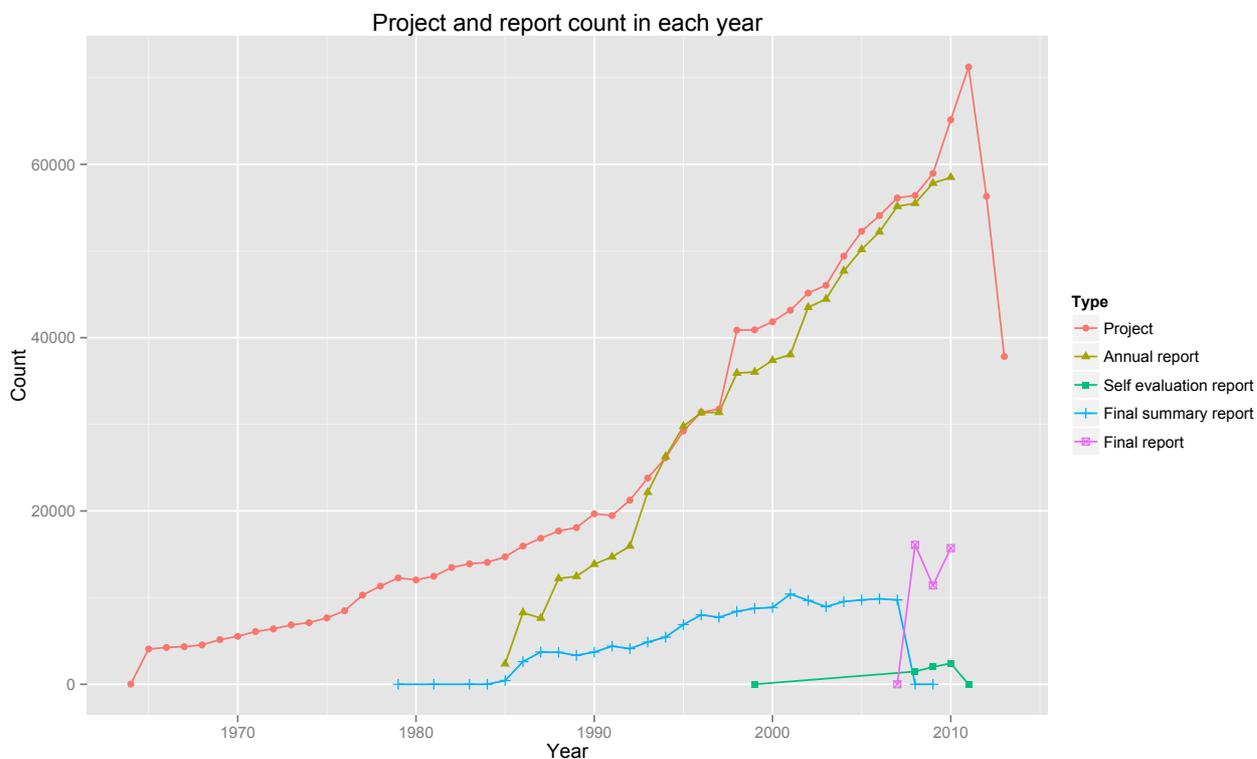


図 5 科研費研究課題および各種報告書数の経年変化

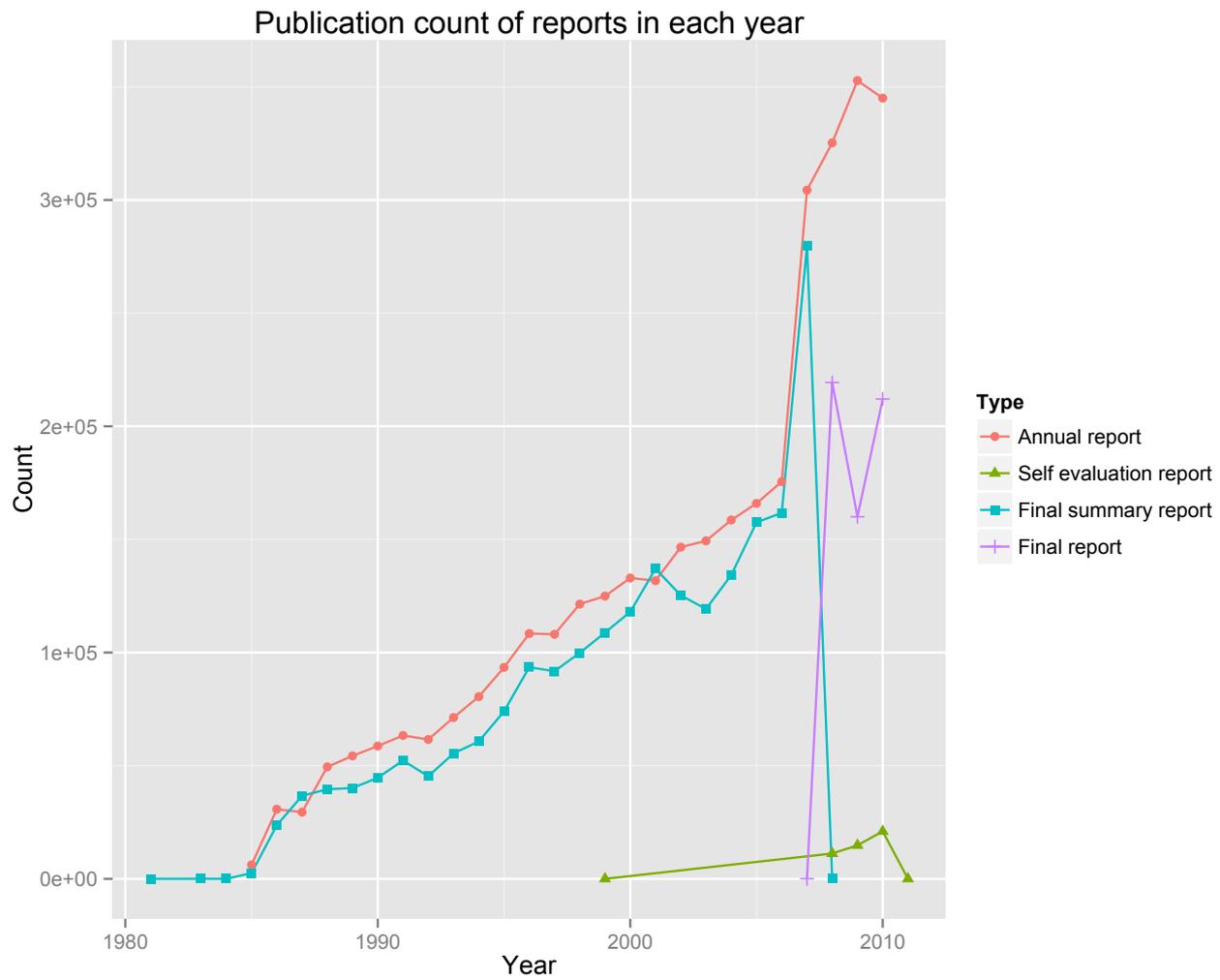


図 6 報告書種別発表文献数の経年変化

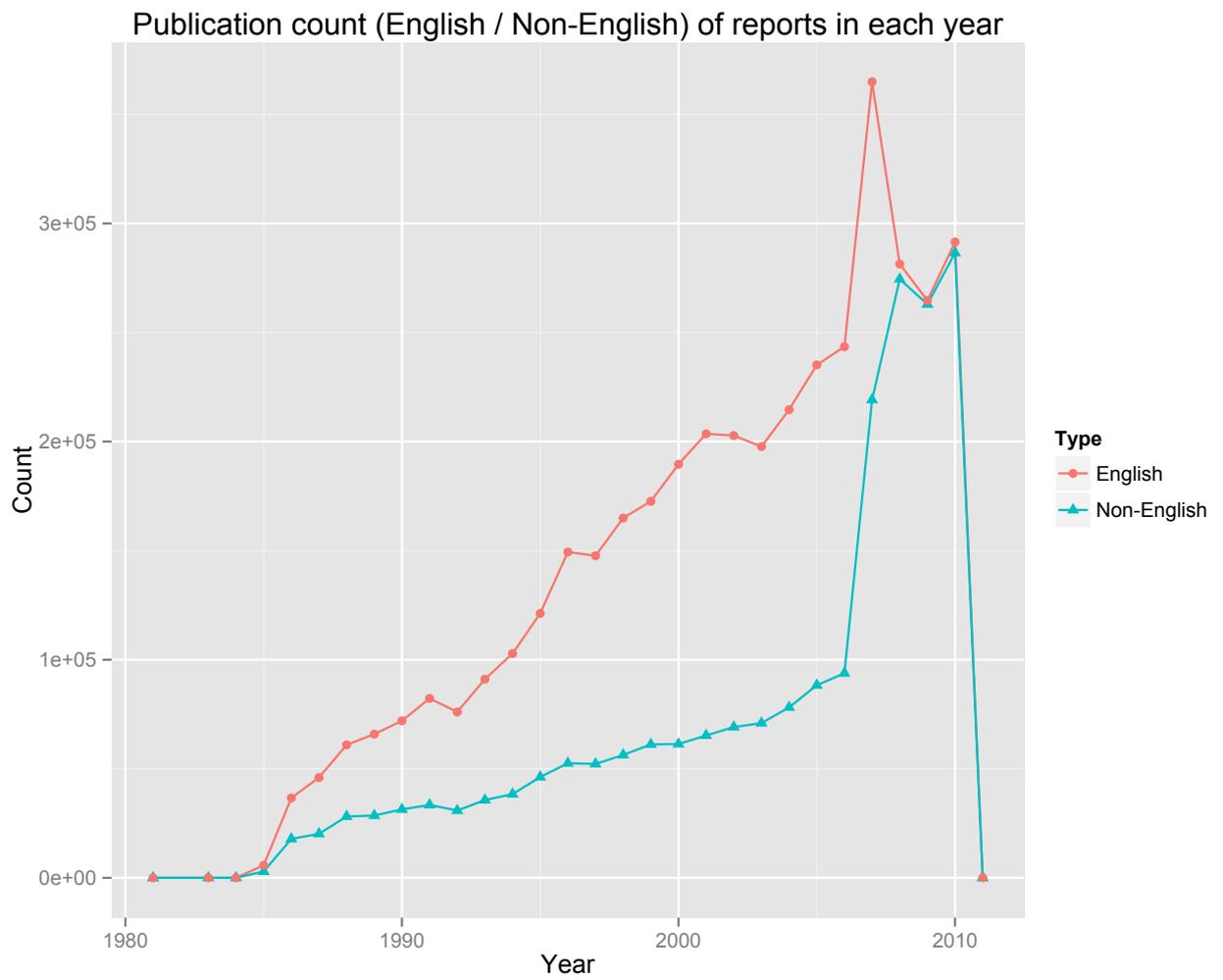


図 7 全報告書の英文・和文種別発表文献数の経年変化

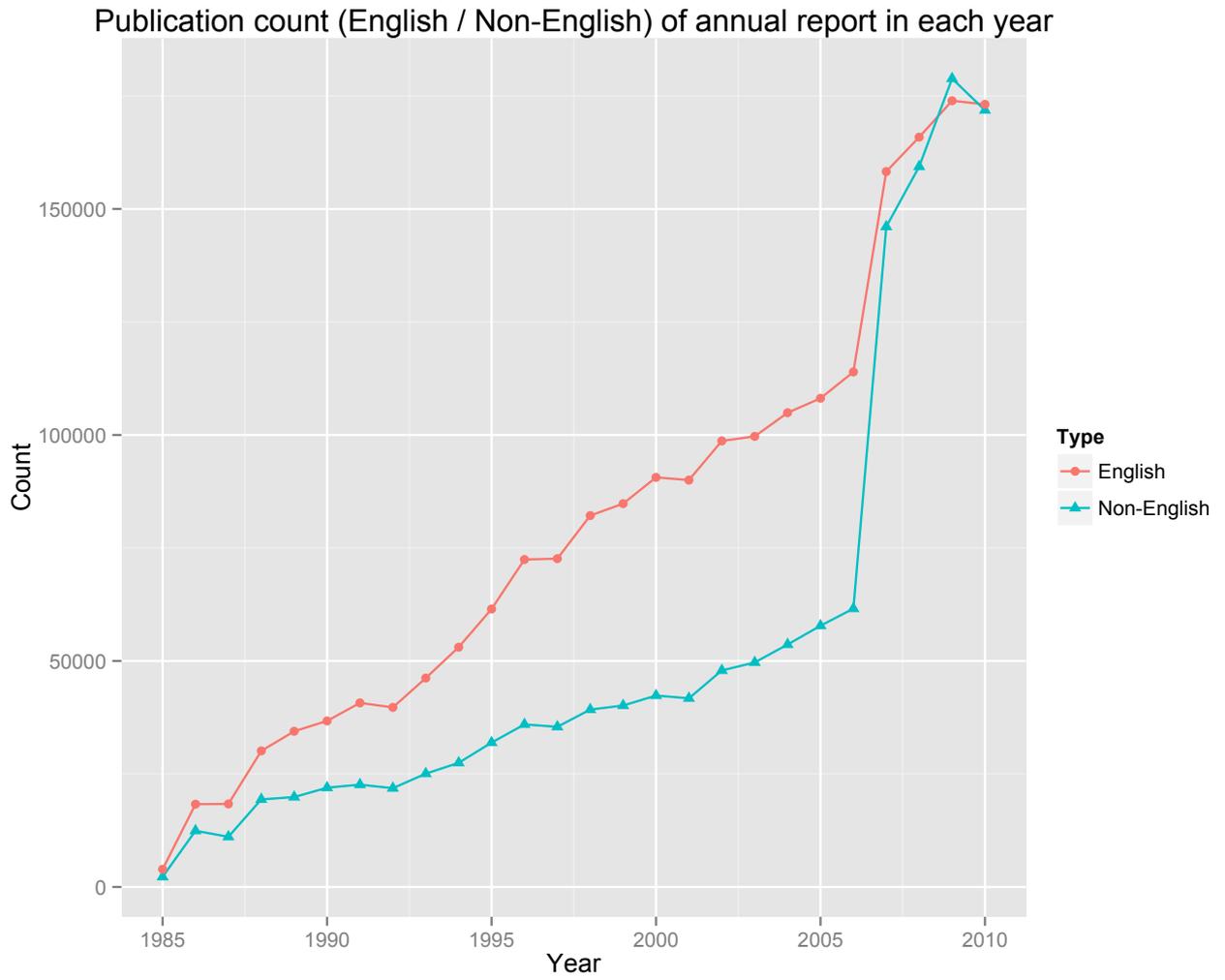


図 8 実績報告書の英文・和文種別発表文献数の経年変化

A.2. 発表文献の英文・和文種別からみた記述の表層

発表文献の文字列は入力仕様に沿っているものの、ASCII 文字以外の文字記号が混在しており、ASCII 文字かどうかでは単純に英文・和文の区別がつかない。

英文文献判定ルール

- 判定対象
 - 複数書誌属性で分割記述されている場合、タイトルを判定対象とする
 - 一行で記述されている場合、一行全体を判定対象とする
- 判定方法
 1. 判定対象から、記号類、日本語の収録記号、状態表示をのぞく
 2. ASCII 文字で構成されるか判定する

表 1 発表文献文字列に記載される ASCII 文字以外の記号類と日本語による収録・状態表示

記号類

- Latin-1 Supplement, ...
- Greek and Coptic, α-ω, ...
- Letterlike Symbols, %, ©, °, ...
- Arrows, ←, ⇒, ...
- Mathematical Operations, ∇, ∈, ...
- CJK Symbols and Punctuation, 《, 》, 「, 『, ...
- Hiragana dakuten, ゃ, ゅ, ...
- Katakana kigou, ・ ゃ, ー ゅ, ...
- Half-width and Full-width Forms, !, &, ・, ...
- Half-width and Full-width Forms, ˆ, ˚, ...
- Half-width and Full-width Forms, ¢, £, ...

日本語による収録記号、状態表示

- 巻 | 号
 - 他 | 名
 - 編集者
 - 発表予定 | 印刷中 | 印刷予定 | 準備中 | 投稿中 | 未定 | 提出中 | 所収 | 所収論文 | 発行予定 | 課題 | 近刊 | 未発行 | 口頭発表 | 仮称 | 受理済み
 - 招待論文 | 採録 | 掲載予定 | 掲載決定 | 予定 | 投稿予定
-

表 2 英文文献と判定できる発表文献文字列に ASCII 文字以外の文字が含まれる例

番号	発表文献記述
1	黒田 順一郎, Arterial infusion of nucleic acids through rat carotid artery as an experimental local gene delivery system: Looking ahead to future clinical trials, 2007 年 アメリカがん学会年次総会, 20070417, Los Angeles Convention Center
2	中島 貴子, 松村 保広, 安永 正浩, 小泉 史明, 加藤 健, 濱口 哲弥, 山田 康秀, 白尾 国昭, 安田 安博, Synergistic antitumor activity of novel polymeric micelles incorporating SN-38(NK012) in combination with 5-fluorouracil (5-FU) in mouse model of colon cancer, 2007 年アメリカがん学会年次総会, 20070417, Los Angeles Convention Center
3	齋藤 洋平, 安永 正浩, 松村 保広, NK012, SN-38-incorporating micelles can eradicate pancreatic solid tumor with abundant stroma, 第 66 回 日本癌学会学術総会, 20071003, パシフィコ横浜
4	松村 保広, Micelle carrier system in cancer chemotherapy, 第 9 回日米 DDS シンポジウム, 20071218, ハワイ州、マウイ
5	Cheng He: "Regularity for solutions to the Navier-Stokes equations with one velocity Component regular" Electronic Journal of Differential Equations. 2002・29. 1-13 (2002)
6	Cheng He: "New sufficient conditions for regularity of solutions to the Navier-Stokes equations" Advances in Mathematical Sciences and Applications. 12・2(掲載予定). (2002)
7	Cong-Feng Qiao: "J/ψ Pair Production at the Tevatron" Physical Review D. (印刷中). (2002)
8	A.De Fanis(1<st>), K.Ueda(2nd), 他 6 名: "Resonant Auger decay of Xe3d<sup>-1>6p to Xe4d<sup>-2>np" Surface Review and Letters. 9. 51 (2002)
9	R.Feifel(1<st>), K.Ueda(2<nd>), A.De Fanis(3<rd>), 他 10 名: "Probing Doubly-excited ionic states of N<sup>+>_2 via triple excitation above N Is threshold in the N_2 molecule" Physical Review A. 67. 032504 (2003)
10	A.De Fanis(1<st>), K.Ueda(last), 他 10 名: "Control of nuclear motion in the B 1b_2 ionic state of water via an Auger resonant Raman process" Journal of Physics B : Atomic, Molecular and Optical Physics. 35. L23 (2002)
11	A.Baev(1<st>), K.Ueda(5<th>), A.De Fanis(6<th>), 他 5 名: "Dopple interference in dissociative resonant photoemission" Physical Review A. 66. 022509 (2002)
12	H.Yoshida(1st), A.De Fanis(6th), K.Ueda(last), 他 4 名: "Symmetry-resolved vibrational spectroscopy for the Cls<sup>-1>2π_u Renner-Teller pair states in CO_2" Physical Review Letters. 88. 083001 (2002)
13	N.Saito(1st), A.De Fanis(2nd), K.Ueda(last), 他 13 名: "Carbon K-shell photoelectron angular distribution from fixed-in-space CO_2 molecules" Journal of Physics B : Atomic, Molecular and Optical Physics. 36. L24 (2003)
14	K.Ueda(1st), A.De Fanis(2nd), 他 20 名: "Nuclear motion and symmetry breaking of the B 1s-excited BF_3 molecule" Chemical Physics. 289. 135 (2003)
15	A.De Fanis(1<st>), K.Ueda(last), 他 6 名: "Interference Effects in the Resonant Photoemission Channels to the Ne<sup>+>2p<sup>4>(1D_2)3p<sup>2>p, ^2D, and ^2F States in the Ne Is Excitation Region" Physical Review Letters. 89. 243001 (2002)
16	A.De Fanis(1<st>), K.Ueda(last), 他 13 名: "Symmetry-dependent multielectron excitations near Cls ionization threshold and distortion of the shape resonance in CO_2" Physical Review Letters. 89. 023006 (2002)
17	Islam, M.R., Yamaguchi, Y., et al.: "Suspended sediment in the Ganges and Brahmaputra River in Bangladesh : Observations from TM and AVHRR data" Hydrological Processes. 15・2. 493-509 (2001)
18	Islam, M.R., et al.: "Distribution of suspended sediment in the coastal sea off the Ganges-Brahmaputra River mouth" Journal of Marine Systems. 32・4. 307-321 (2002)
19	N.M.Naumova et al.: "Polarization effects and anisotropy in three-dimensional relativistic self-focusing" Physical Review E. 65・4. 045402-045408 (2002)
20	T.Esirkepov et al.: "Proposed Double-Layer Target for the Generation of High-Quality Laser Accelerated Ion Beams" Physical Review Letters. 89・17. 175003-1-175003-4 (2002)
21	S.V.Bulanov et al.: "Generation of High-Quality Charged Particle Beams during the Acceleration of Ions by High-Power Laser Radiation" Plasma Physics Report. 28・12. 975-991 (2002)
22	S.V.Bulanov et al.: "Oncological hardrontherapy with laser ion accelerators" Physics Letters. 299・2. 240-247 (2002)
23	M.Borghesi et al.: "Macroscopic Evidence of Soliton Formation in Muliterawatt Laser-Plasma Interaction" Physical Review Letters. 88・13. 135002-1-135002-4 (2002)
24	T.Esirkepov et al.: "Three-dimensional Relativistic Electromagnetic Subcycle Solitons" Physical Review Letters. 89・27. 275002-1-275002-4 (2002)
25	Joong-Do, Kim: "Changes in Stress of Anodic Oxide Film on Ni by Potential Steps" 材料と環境 2002 講演集. 241-244 (2002)

A.3. 科研費の研究分野分類(2009 年度分科細目表)

表 3 2009 年度科研費 系・分野・分科・細目表 (1/3)

系	分野	分科	細目	番号	系	分野	分科	細目	番号	
総合・新領域系	総合領域	情報学	情報学基礎	1001	人文社会科学系	人文	哲学	哲学・倫理学	2801	
			ソフトウェア	1002				中国哲学	2802	
			計算機システム・ネットワーク	1003				48	印度哲学・仏教学	2803
			メディア情報学・データベース	1004				49	宗教学	2804
			知能情報学	1005				50	思想史	2805
				知覚情報処理・知能ロボティクス		1006	51		美学・美術史	2806
				感性情報学・ソフトコンピューティング		1007	52	芸術学	芸術学・芸術史・芸術一般	2851
				図書館情報学・人文社会情報学		1008	53	文学	日本文学	2901
				認知科学		1009	54		英米・英語圏文学	2902
				統計科学		1010	55		ヨーロッパ文学(英文学を除く)	2903
				生体生命情報学		1011	56		各国文学・文学論	2904
		神経科学		神経科学一般		1101	57	言語学	言語学	3001
			神経解剖学・神経病理学	1102		58	日本語学		3002	
			神経化学・神経薬理学	1103		59	英語学		3003	
			神経・筋肉生理学	1104		60	日本語教育		3004	
		実験動物学		実験動物学		1201	61		外国語教育	3005
	人間医工学			医用生体工学・生体材料学		1301	62	史学	史学一般	3101
			医用システム	1302		63	日本史		3102	
			リハビリテーション科学・福祉工学	1303		64	東洋史		3103	
		健康・スポーツ科学		身体教育学		1401	65		西洋史	3104
			スポーツ科学	1402		66		考古学	3105	
				応用健康科学		1403	67	人文地理学	人文地理学	3201
		生活科学		生活科学一般		1501	68	文化人類学	文化人類学・民俗学	3301
				食生活学		1502	69	社会科学	法学	基礎法学
		科学教育・教育工学		科学教育		1601	70			公法学
			教育工学	1602	71		国際法学	3403		
	科学社会学・科学技術史		科学社会学・科学技術史	1701	72		社会法学	3404		
		文化財科学	文化財科学	1801	73		刑事法学	3405		
		地理学	地理学	1901	74		民事法学	3406		
	複合新領域	環境学	環境動態解析	2001	75		新領域法学	3407		
			環境影響評価・環境政策	2002	76	政治学	政治学	3501		
			放射線・化学物質影響科学	2003	77		国際関係論	3502		
			環境技術・環境材料	2004	78	経済学	理論経済学	3601		
		ナノ・マイクロ科学		ナノ構造科学	2101	79		経済学説・経済思想	3602	
				ナノ材料・ナノバイオサイエンス	2102	80		経済統計学	3603	
				マイクロ・ナノデバイス	2103	81		応用経済学	3604	
		社会・安全システム科学		社会システム工学・安全システム	2201	82		経済政策	3605	
				自然災害科学	2202	83		財政学・金融論	3606	
		ゲノム科学		基礎ゲノム科学	2301	84		経済史	3607	
			応用ゲノム科学	2302	85	経営学	経営学	3701		
			ゲノム情報科学	2303	86		商学	3702		
	生物分子科学		生物分子科学	2401	87		会計学	3703		
			資源保全学	2501	88	社会学	社会学	3801		
		地域研究	地域研究	2601	89		社会福祉学	3802		
	ジェンダー	ジェンダー	ジェンダー	2701	90	心理学	社会心理学	3901		
教育心理学							3902			
臨床心理学							3903			
実験心理学							3904			
教育学							4001			
教育社会学							4002			
教科教育学							4003			
特別支援教育							4004			

表 4 2009 年度科研費 系・分野・分科・細目表 (2/3)

系	分野	分科	細目	番号	系	分野	分科	細目	番号
98	理工系	数学	代数学	4101	150	土木工学	土木材料・施工・建設マネジメント	5201	
99		数学科	幾何学	4102	151		構造工学・地震工学・維持管理工学	5202	
100			数学一般(含確率論・統計数学)	4103	152		地盤工学	5203	
101			基礎解析学	4104	153		水工学	5204	
102			大域解析学	4105	154		土木計画学・交通工学	5205	
103		天文学	天文学	4201	155		土木環境システム	5206	
104		物理学	素粒子・原子核・宇宙線・宇宙物理	4301	156	建築学	建築構造・材料	5301	
105			物性Ⅰ	4302	157		建築環境・設備	5302	
106			物性Ⅱ	4303	158		都市計画・建築計画	5303	
107			数理解析学・物性基礎	4304	159		建築史・意匠	5304	
108			原子・分子・量子エレクトロニクス	4305	160	材料工学	金属物性	5401	
109			生物物理・化学物理	4306	161		無機材料・物性	5402	
110		地球惑星科学	固体地球惑星物理学	4401	162		複合材料・物性	5403	
111			気象・海洋物理・陸水学	4402	163		構造・機能材料	5404	
112			超高層物理学	4403	164		材料加工・処理	5405	
113			地質学	4404	165		金属生産工学	5406	
114			層位・古生物学	4405	166	プロセス工学	化工物性・移動操作・単位操作	5501	
115			岩石・鉱物・鉱床学	4406	167		反応工学・プロセスシステム	5502	
116			地球宇宙化学	4407	168		触媒・資源化学プロセス	5503	
117		プラズマ科学	プラズマ科学	4501	169		生物機能・バイオプロセス	5504	
118	化学	基礎化学	物理化学	4601	170	総合工学	航空宇宙工学	5601	
119			有機化学	4602	171		船舶海洋工学	5602	
120			無機化学	4603	172		地球・資源システム工学	5603	
121		複合化学	分析化学	4701	173		リサイクル工学	5604	
122			合成化学	4702	174		核融合学	5605	
123			高分子化学	4703	175		原子力学	5606	
124			機能物質化学	4704	176		エネルギー学	5607	
125			環境関連化学	4705	177	生物系	基礎生物学	5701	
126			生体関連化学	4706	178	生物学	遺伝・ゲノム動態	5702	
127		材料化学	機能材料・デバイス	4801	179		生態・環境	5703	
128			有機工業材料	4802	180		植物分子生物・生理学	5704	
129			無機工業材料	4803	181		形態・構造	5705	
130			高分子・繊維材料	4804	182		動物生理・行動	5706	
131	工学	応用物理学・工学基礎	応用物性・結晶工学	4901	183	生物科学	生物多様性・分類	5801	
132			薄膜・表面界面物性	4902	184		構造生物化学	5802	
133			応用光学・量子光工学	4903	185		機能生物化学	5803	
134			応用物理学一般	4904	186		生物物理学	5804	
135			工学基礎	4905	187		分子生物学	5805	
136		機械工学	機械材料・材料力学	5001	188		細胞生物学	5806	
137			生産工学・加工学	5002	189		発生生物学	5807	
138			設計工学・機械機能要素・トライボロジー	5003	190	人類学	進化生物学	5901	
139			流体工学	5004	191		自然人類学	5902	
140			熱工学	5005			応用人類学	5902	
141			機械力学・制御	5006					
142			知能機械学・機械システム	5007					
143		電気電子工学	電力工学・電力変換・電気機器	5101					
144			電子・電気材料工学	5102					
145			電子デバイス・電子機器	5103					
146			通信・ネットワーク工学	5104					
147			システム工学	5105					
148			計測工学	5106					
149			制御工学	5107					

表 5 2009 年度科研費 系・分野・分科・細目表 (3/3)

系	分野	分科	細目	番号	系	分野	分科	細目	番号		
192	生物系	農学	育種学	6001	242	内科系臨床医学	臨床	内科学一般(含心身医学)	7201		
193			作物学・雑草学	6002				243	消化器内科学	7202	
194			園芸学・造園学	6003				244	循環器内科学	7203	
195			植物病理学	6004				245	呼吸器内科学	7204	
196			応用昆虫学	6005				246	腎臓内科学	7205	
197			農芸化学	植物栄養学・土壌学				6101	247	神経内科学	7206
198				応用微生物学				6102	248	代謝学	7207
199				応用生物化学				6103	249	内分泌学	7208
200				生物生産化学・生物有機化学				6104	250	血液内科学	7209
201				食品科学				6105	251	膠原病・アレルギー内科学	7210
202	林学	森林科学	6201	252	感染症内科学	7211					
203		木質科学	6202	253	小児科学	7212					
204	水産学	水産学一般	6301	254	胎児・新生児医学	7213					
205		水産化学	6302	255	皮膚科学	7214					
206	農業経済学	農業経済学	6401	256	精神神経科学	7215					
207	農業工学	農業土木学・農村計画学	6501	257	放射線科学	7216					
208		農業環境工学	6502	258	外科系臨床医学	外科学一般	7301				
209		農業情報工学	6503	259		消化器外科学	7302				
210	畜産学・獣医学	畜産学・草地学	6601	260	胸部外科学	7303					
211		応用動物科学	6602	261	脳神経外科学	7304					
212		基礎獣医学・基礎畜産学	6603	262	整形外科学	7305					
213		応用獣医学	6604	263	麻酔・蘇生学	7306					
214		臨床獣医学	6605	264	泌尿器科学	7307					
215	境界農学	環境農学	6701	265	産婦人科学	7308					
216		応用分子細胞生物学	6702	266	耳鼻咽喉科学	7309					
217	医菌薬学	薬学	6801	267	眼科学	7310					
218		物理系薬学	6802	268	小児外科学	7311					
219	基礎生物学	生物系薬学	6803	269	形成外科学	7312					
220		創薬化学	6804	270	救急医学	7313					
221		環境系薬学	6805	271	菌学	形態系基礎菌科学	7401				
222	医療系薬学	6806	272	機能系基礎菌科学		7402					
223	基礎医学	解剖学一般(含組織学・発生学)	6901	273	病態科学系菌学・菌科放射線学	7403					
224		生理学一般	6902	274	保存治療系菌学	7404					
225	生物科学	環境生理学(含体力医学・栄養生理学)	6903	275	補綴系菌学	7405					
226		薬理学一般	6904	276	菌科医用工学・再生菌学	7406					
227		医化学一般	6905	277	外科系菌学	7407					
228		病態医化学	6906	278	矯正・小児系菌学	7408					
229		人類遺伝学	6907	279	歯周治療系菌学	7409					
230		人体病理学	6908	280	社会系菌学	7410					
231		実験病理学	6909	281	看護学	基礎看護学	7501				
232		寄生虫学(含衛生動物学)	6910	282		臨床看護学	7502				
233		細菌学(含真菌学)	6911	283		生涯発達看護学	7503				
234		ウイルス学	6912	284		地域・老年看護学	7504				
235		免疫学	6913								
236	境界医学	医療社会学	7001								
237		応用薬理学	7002								
238		病態検査学	7003								
239	社会医学	衛生学	7101								
240		公衆衛生学・健康科学	7102								
241		法医学	7103								

A.4. 科研費研究課題および英文和文種別発表文献数、課題あたり英文和文種別発表文件数の研究分野分布(2009 年度実績報告書)

2009 年度課題数

- 58,952

分科細目表(時限付細目を除く)で研究分野分類される 2009 年度の課題数

- 52,956

上記研究分野分類される課題の実績報告書数

- 50,304

上記実績報告書に記載された発表文献の総数

- 293,753

- 英文・和文分類

- ◇ English : 139,343

- ◇ Non-English : 154,410

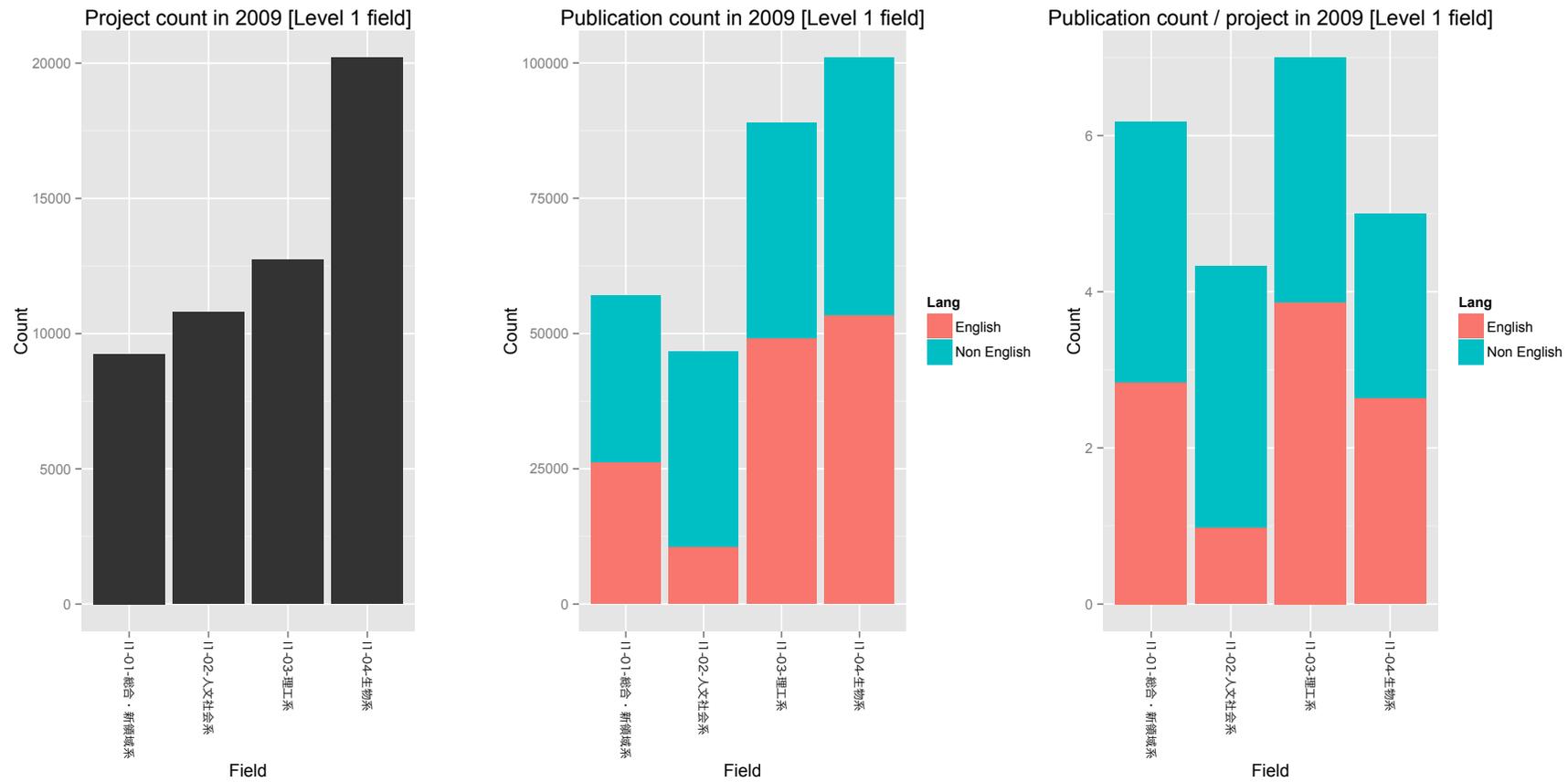


図 9 科研費研究課題および英文和文種別発表文献数、課題あたり英文和文種別発表文献数の研究分野(科研費細目表-系)分布(2009 年度実績報告書)

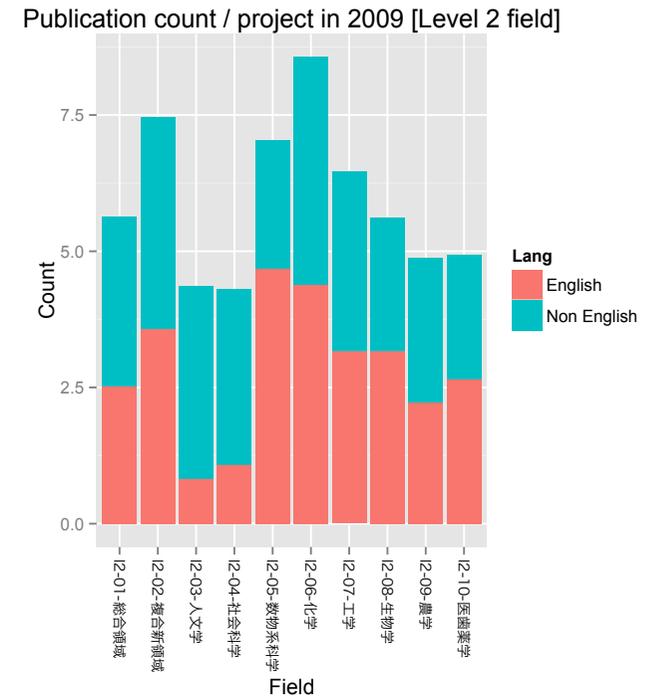
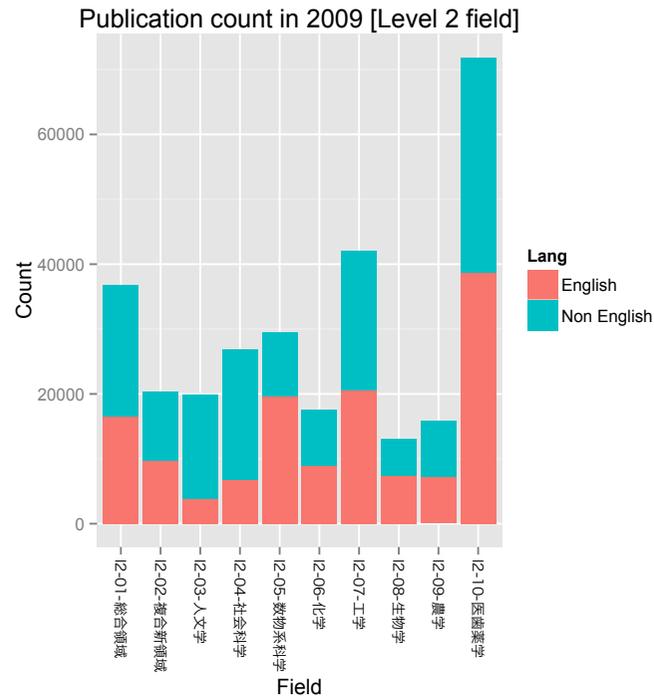
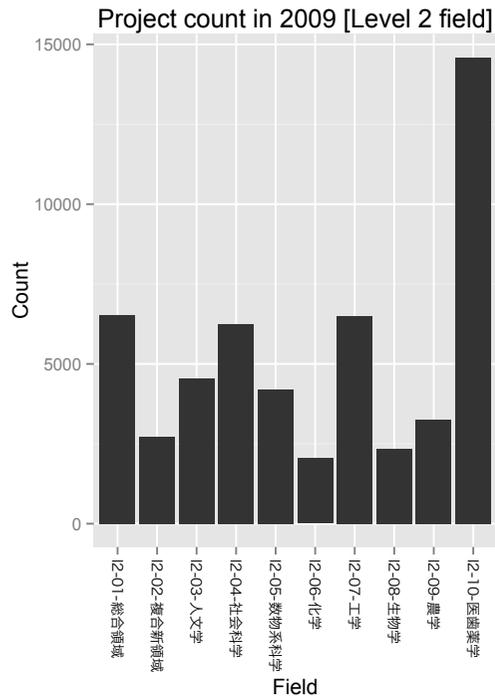


図 10 科研費研究課題および英文和文種別発表文献数、課題あたり英文和文種別発表文件数の研究分野(科研費細目表-分野)分布(2009 年度実績報告書)

Project count in 2009 [Level 3 field]

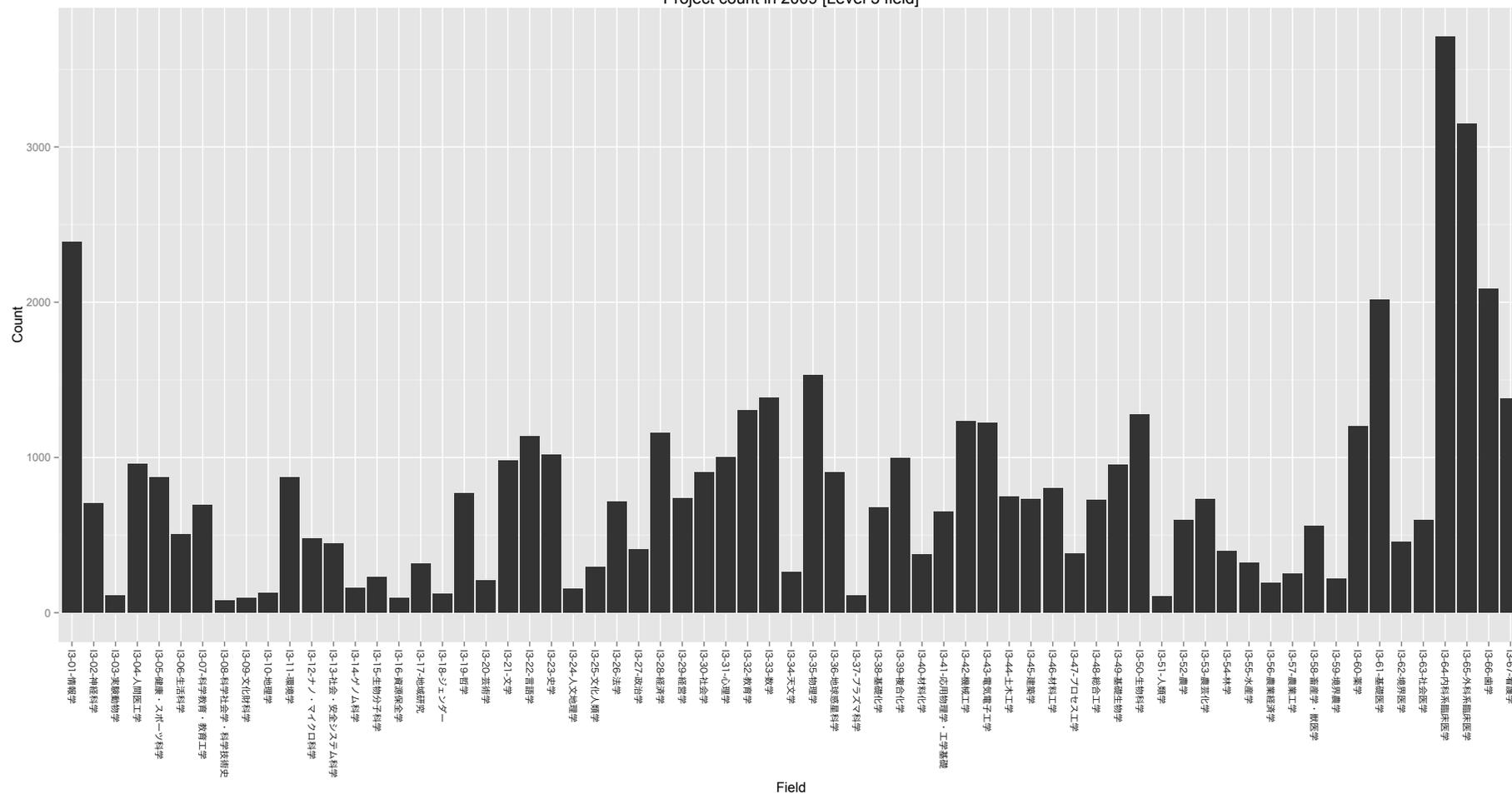


図 11 科研費研究課題数の研究分野(科研費細目表-分科)分布(2009 年度実績報告書)

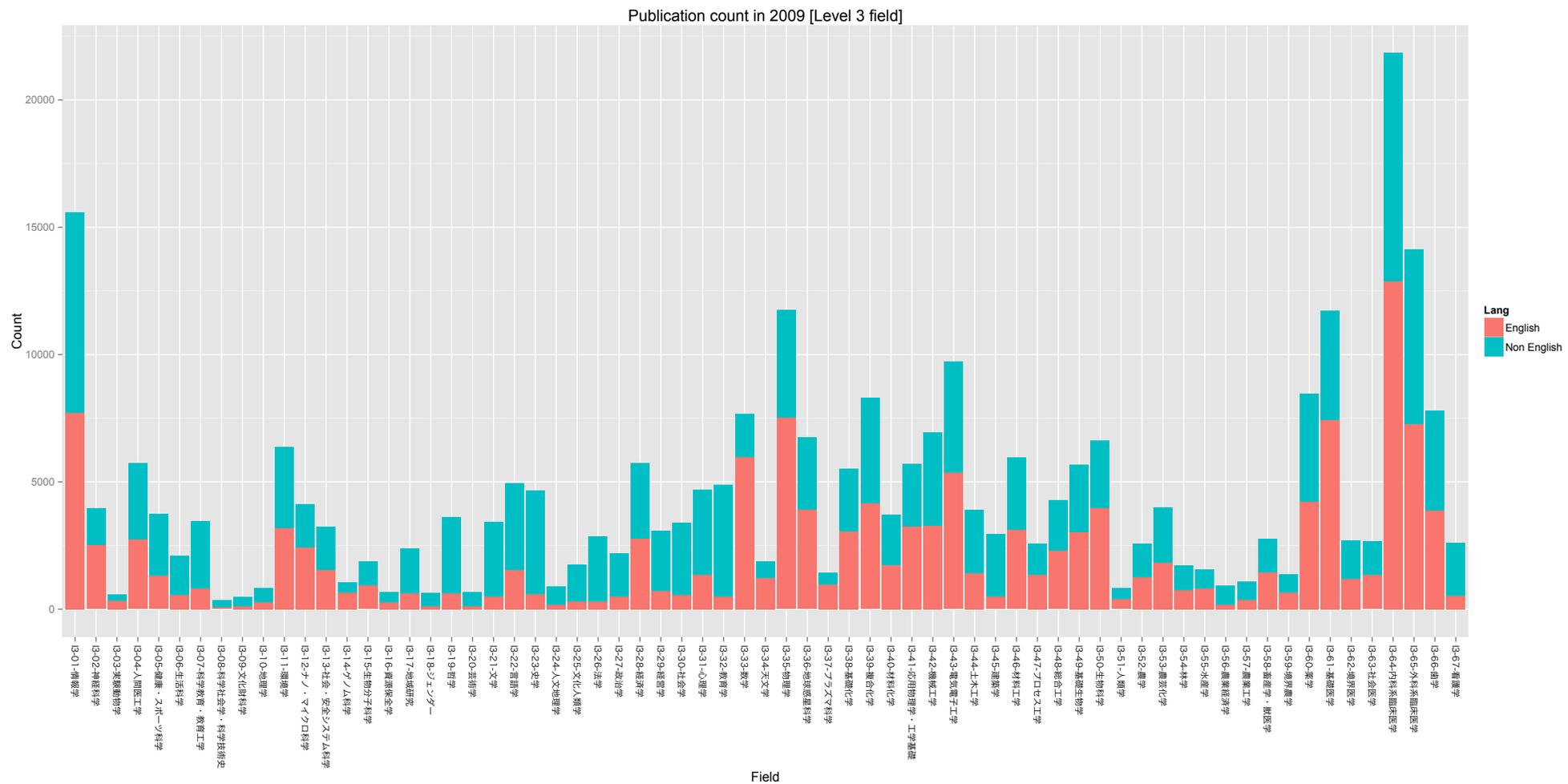


図 12 科研費英文和文種別発表文献数の研究分野(科研費細目表-分科)分布(2009 年度実績報告書)

Publication count / project in 2009 [Level 3 field]

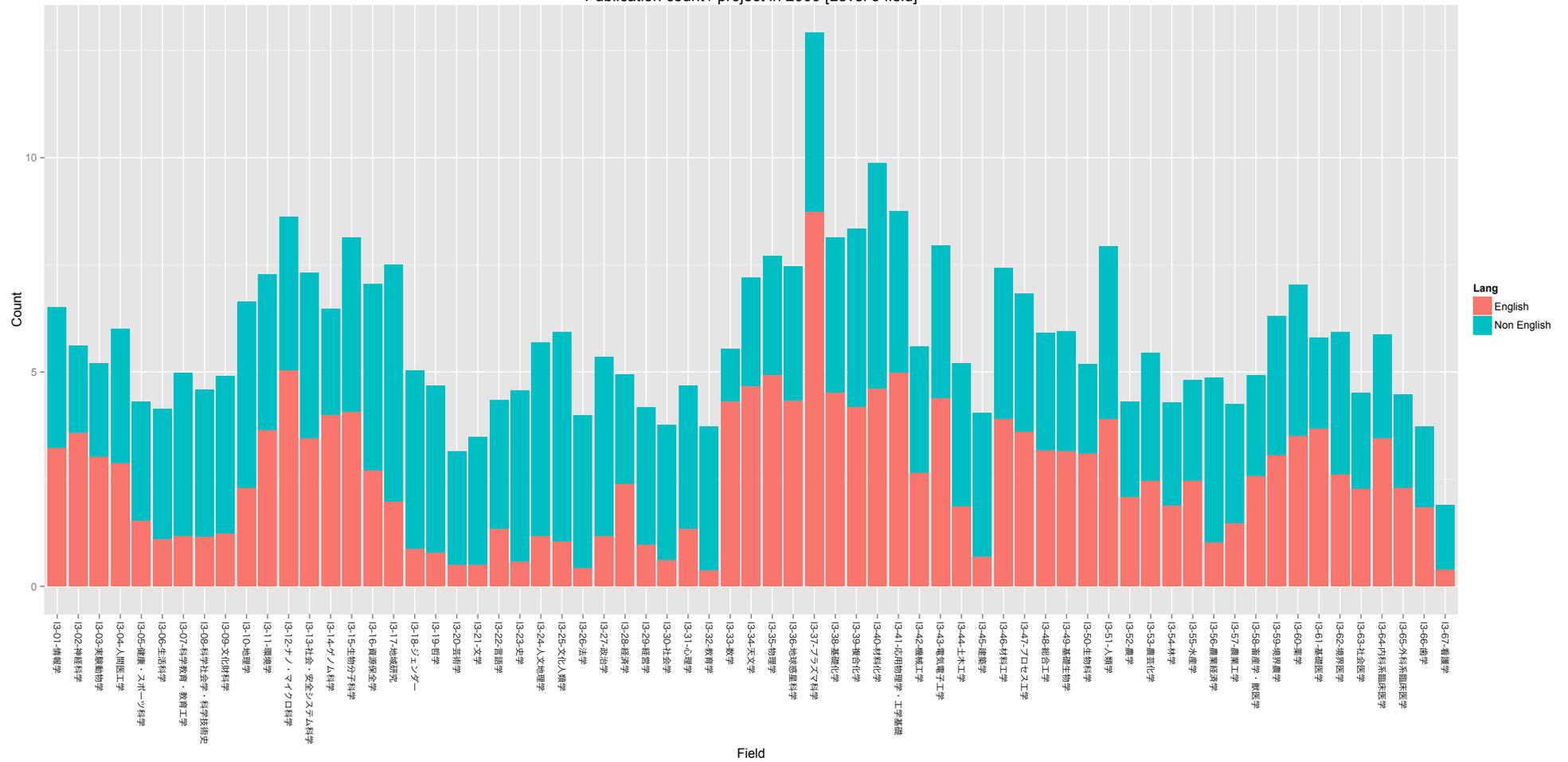
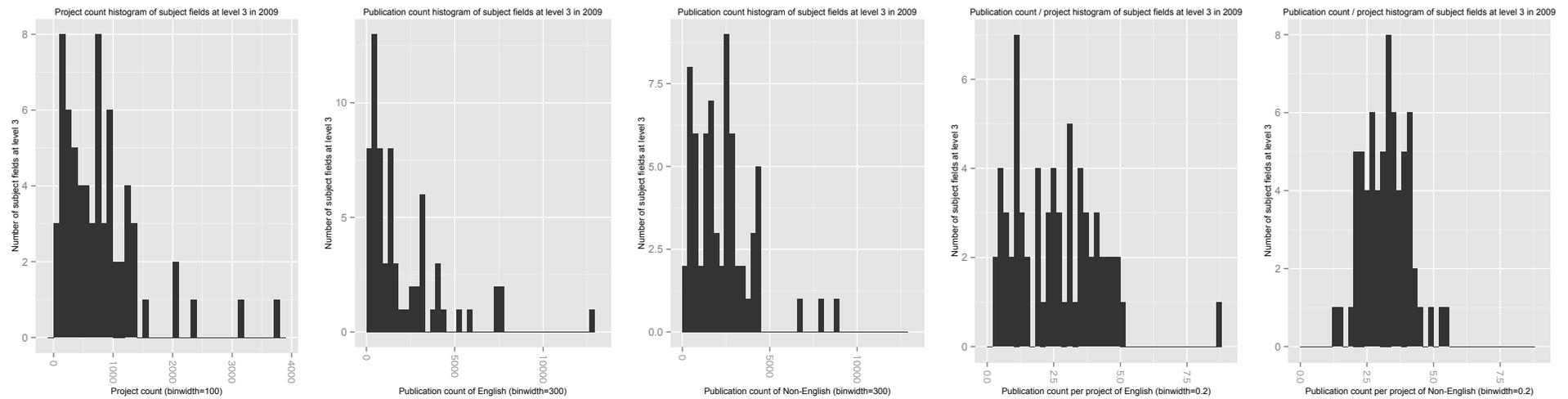


図 13 科研費課題あたり英文和文種別発表文件数の研究分野(科研費細目表-分科)分布(2009 年度実績報告書)



Min. 1st Qu. Median Mean 3rd Qu. Max.
78.0 304.0 707.0 790.4 999.5 3711.0

Min. 1st Qu. Median Mean 3rd Qu. Max.
236.0 945.5 2081.0 2305.0 2974.0 8962.0

Min. 1st Qu. Median Mean 3rd Qu. Max.
1.227 2.598 3.239 3.225 3.788 5.516

Min. 1st Qu. Median Mean 3rd Qu. Max.
91.0 516.5 1257.0 2080.0 3034.0 12870.0

Min. 1st Qu. Median Mean 3rd Qu. Max.
0.3739 1.1820 2.4780 2.5870 3.6250 8.7360

図 14 科研費研究課題および英文和文種別発表文献数、課題あたり英文和文種別発表文件数の研究分野(科研費細目表-分科)カウントのヒストグラム(2009年度実績報告書)

Project count in 2009 [1/2]

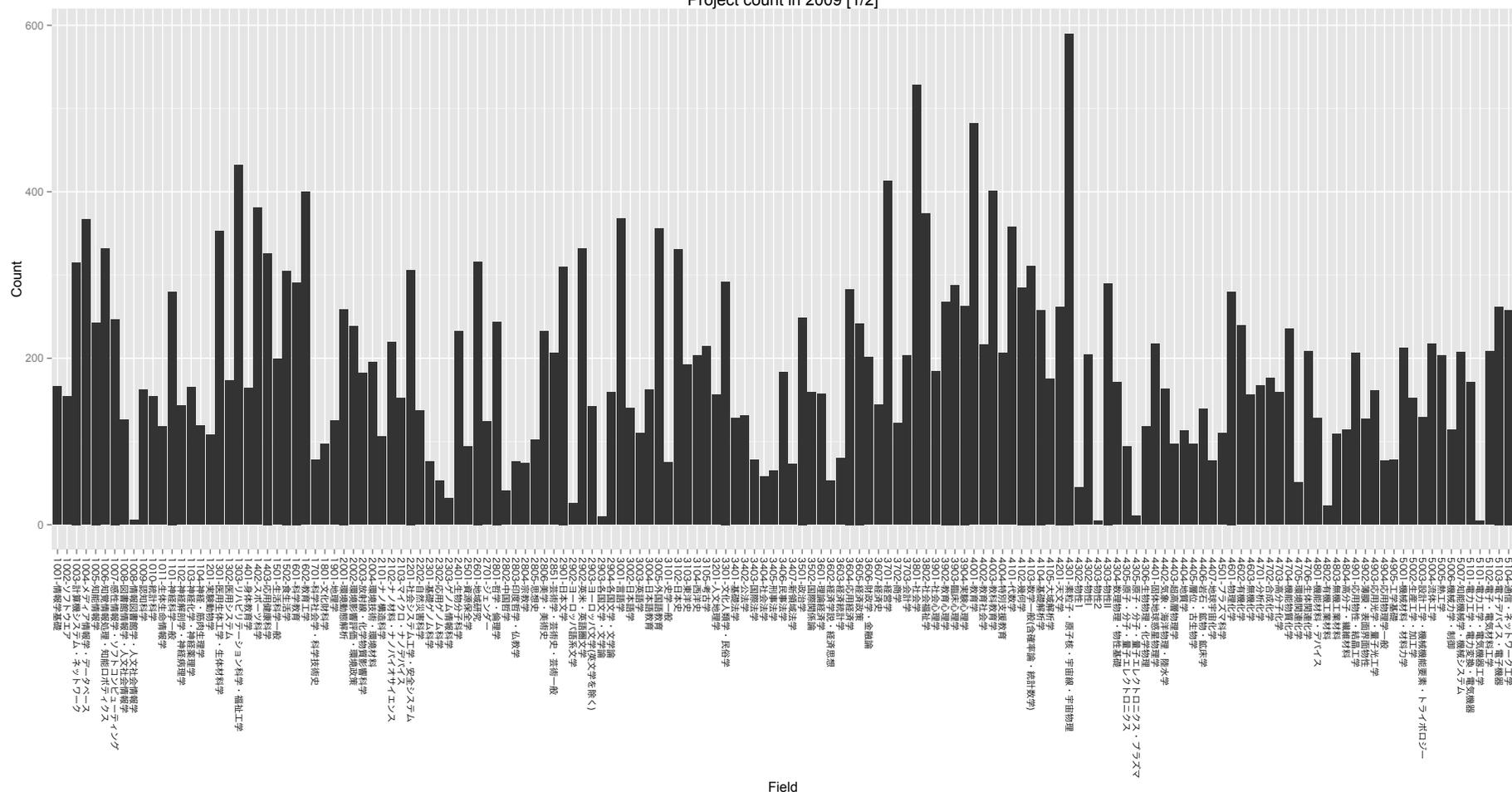


図 15 科研費研究課題数の研究分野(科研費細目表・細目(1/2))分布(2009 年度実績報告書)

Project count in 2009 [2/2]

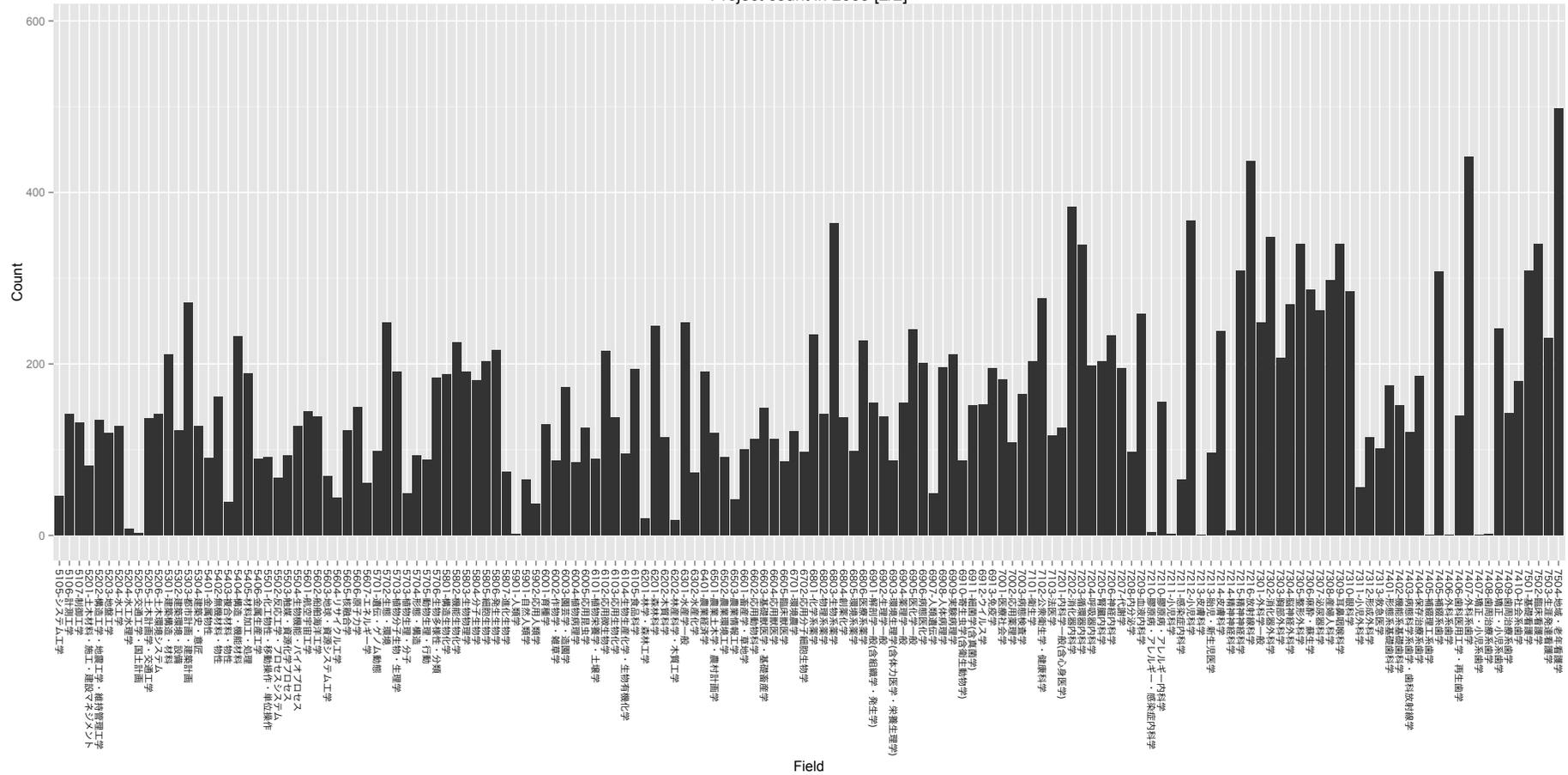


図 16 科研費研究課題数の研究分野(科研費細目表・細目(2/2))分布(2009年度実績報告書)

Publication count in 2009 [1/2]

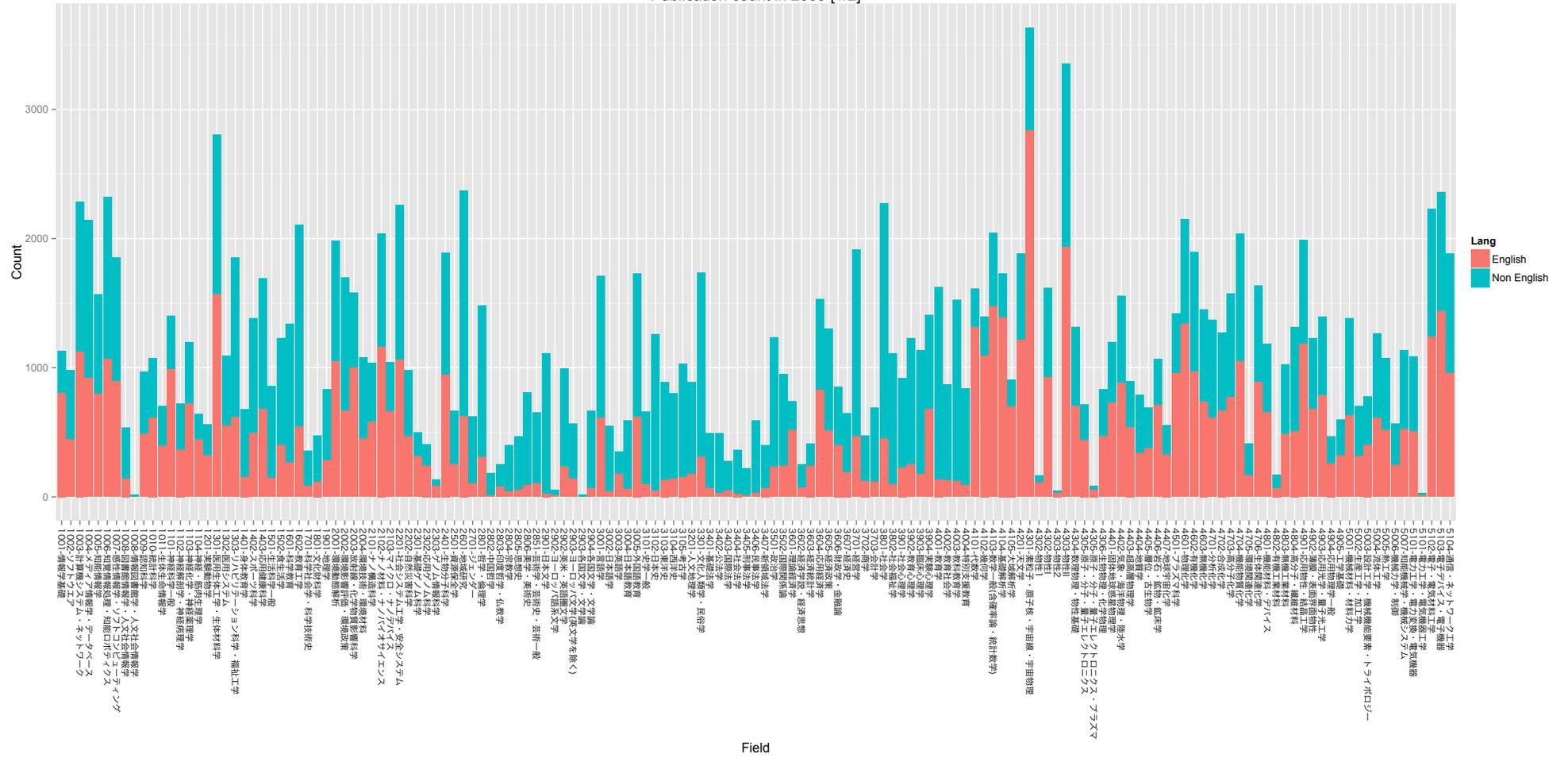


図 17 科研費英文和文種別発表文献数の研究分野(科研費細目表-細目(1/2))分布(2009 年度実績報告書)

Publication count in 2009 [2/2]

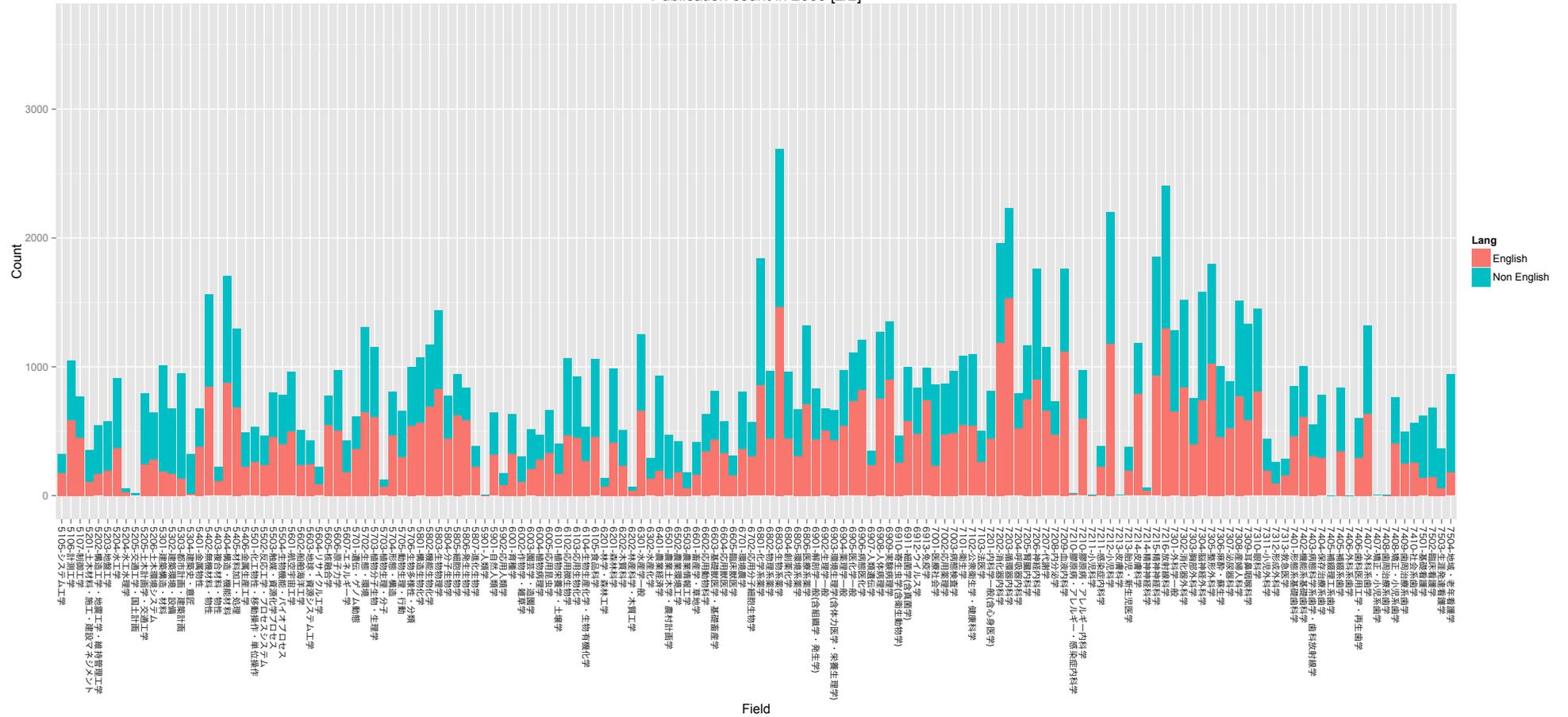


図 18 科研費英文和文種別発表文献数の研究分野(科研費細目表-細目(2/2))分布(2009 年度実績報告書)

Publication count per project in 2009 [1/2]

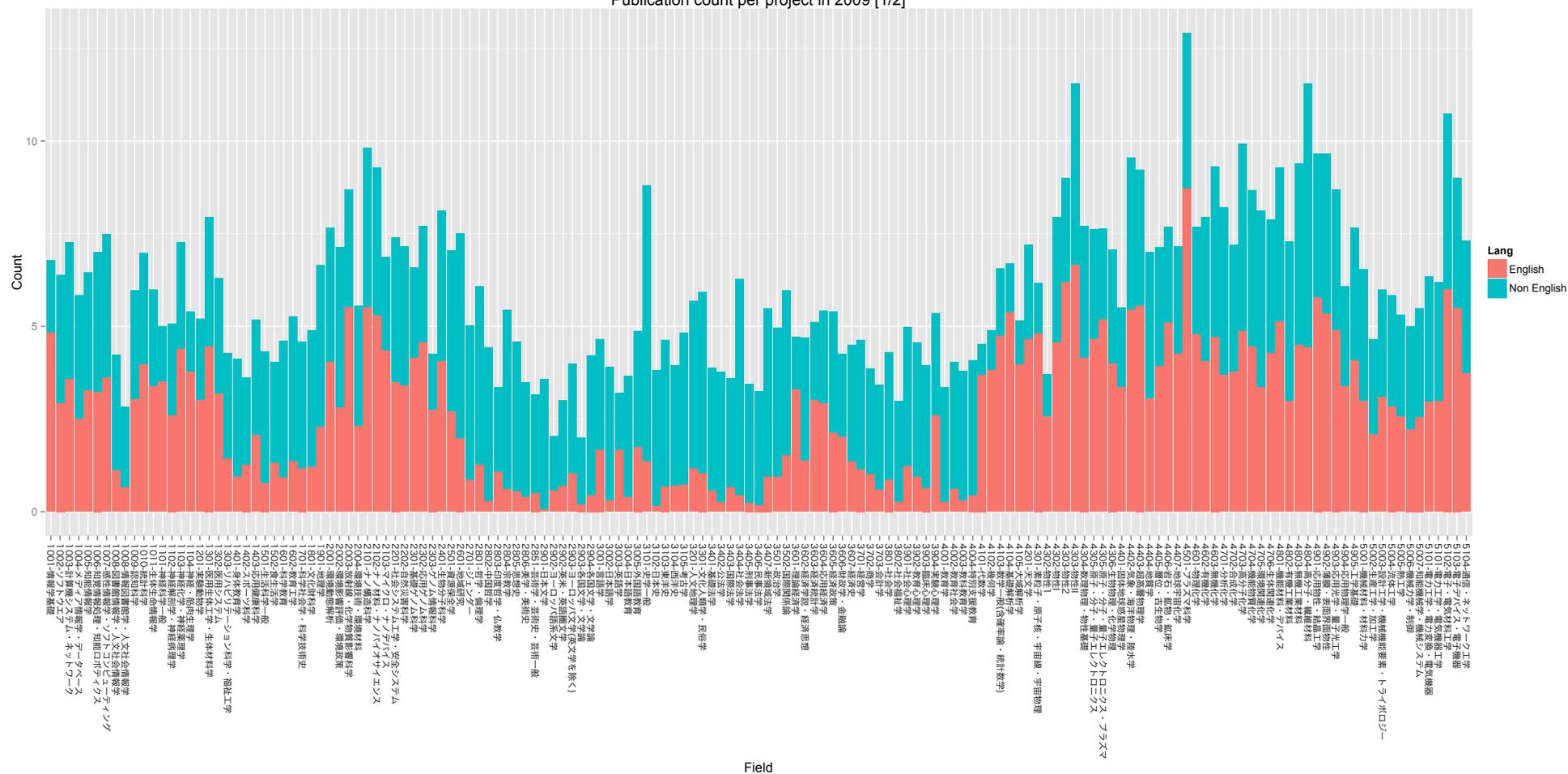


図 19 科研費課題あたり英文和文種別発表文件数の研究分野(科研費細目表-細目(1/2))分布(2009 年度実績報告書)

Publication count per project in 2009 [2/2]

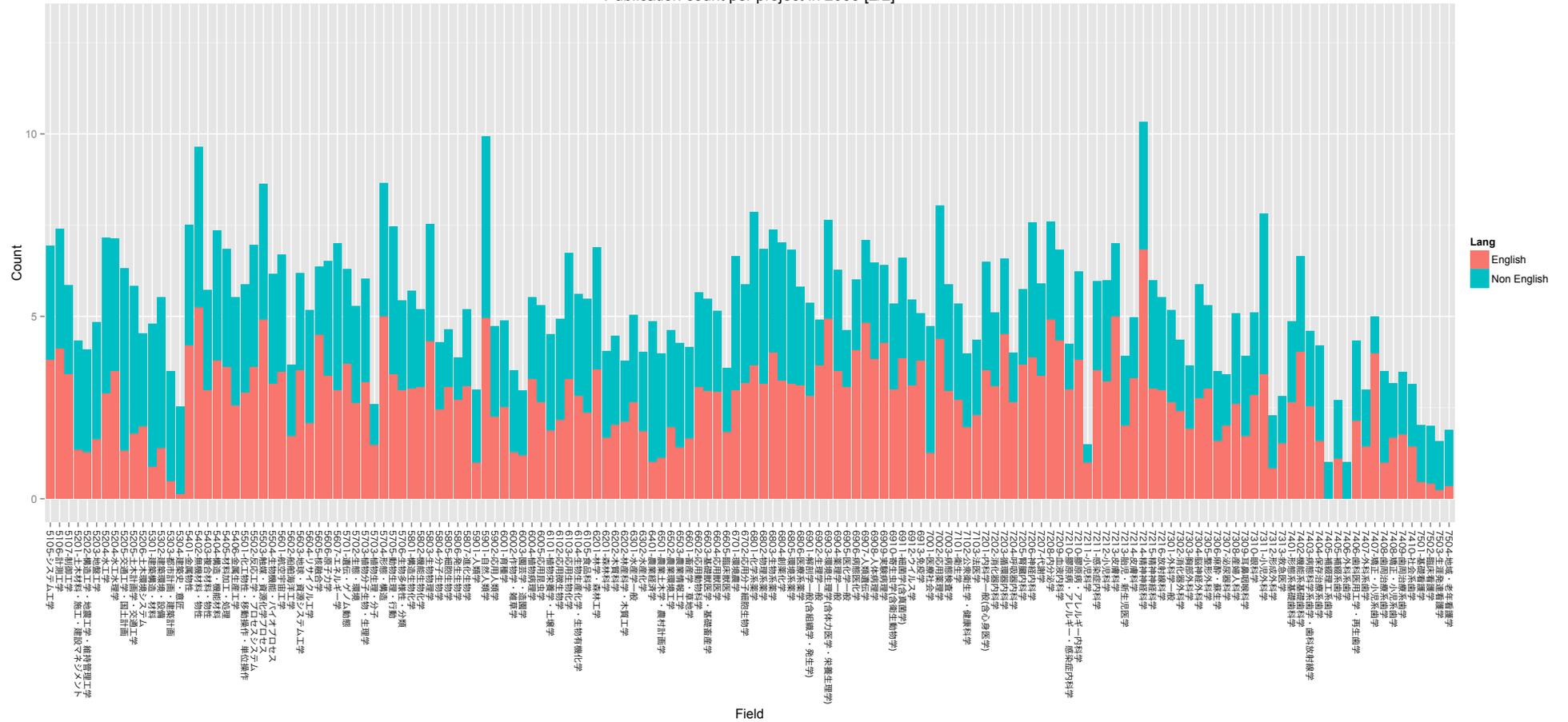
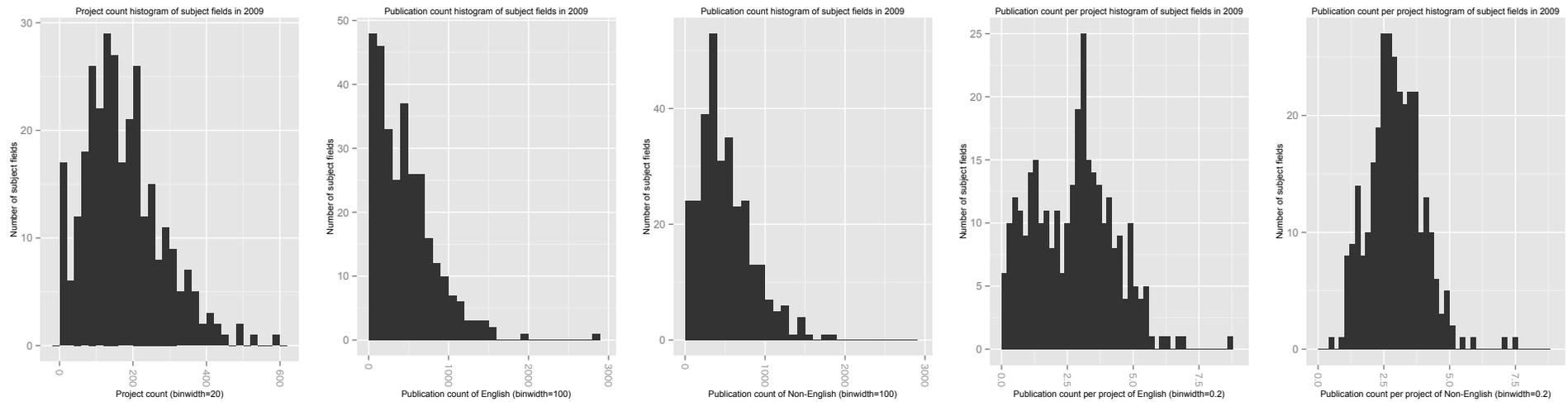


図 20 科研費課題あたり英文和文種別発表文件数の研究分野(科研費細目表-細目(2/2))分布(2009 年度実績報告書)



Min. 1st Qu. Median Mean 3rd Qu. Max.
 1.0 97.0 156.0 173.6 234.0 590.0

Min. 1st Qu. Median Mean 3rd Qu. Max.
 1.0 264.0 452.0 506.3 695.0 1819.0

Min. 1st Qu. Median Mean 3rd Qu. Max.
 0.500 2.265 2.923 2.943 3.587 7.440

Min. 1st Qu. Median Mean 3rd Qu. Max.
 0.0 165.0 400.0 456.9 657.0 2841.0

Min. 1st Qu. Median Mean 3rd Qu. Max.
 0.000 1.396 2.912 2.717 3.733 8.736

図 21 研費研究課題および英文和文種別発表文献数、課題あたり英文和文種別発表文件数の研究分野(科研費細目表-細目)カウントのヒストグラム (2009 年度実績報告書)

A.5. 2009 年度実績報告書に記載された発表文献の出版年分布

総数(出版年が記載された場合にカウント)

- 291,705

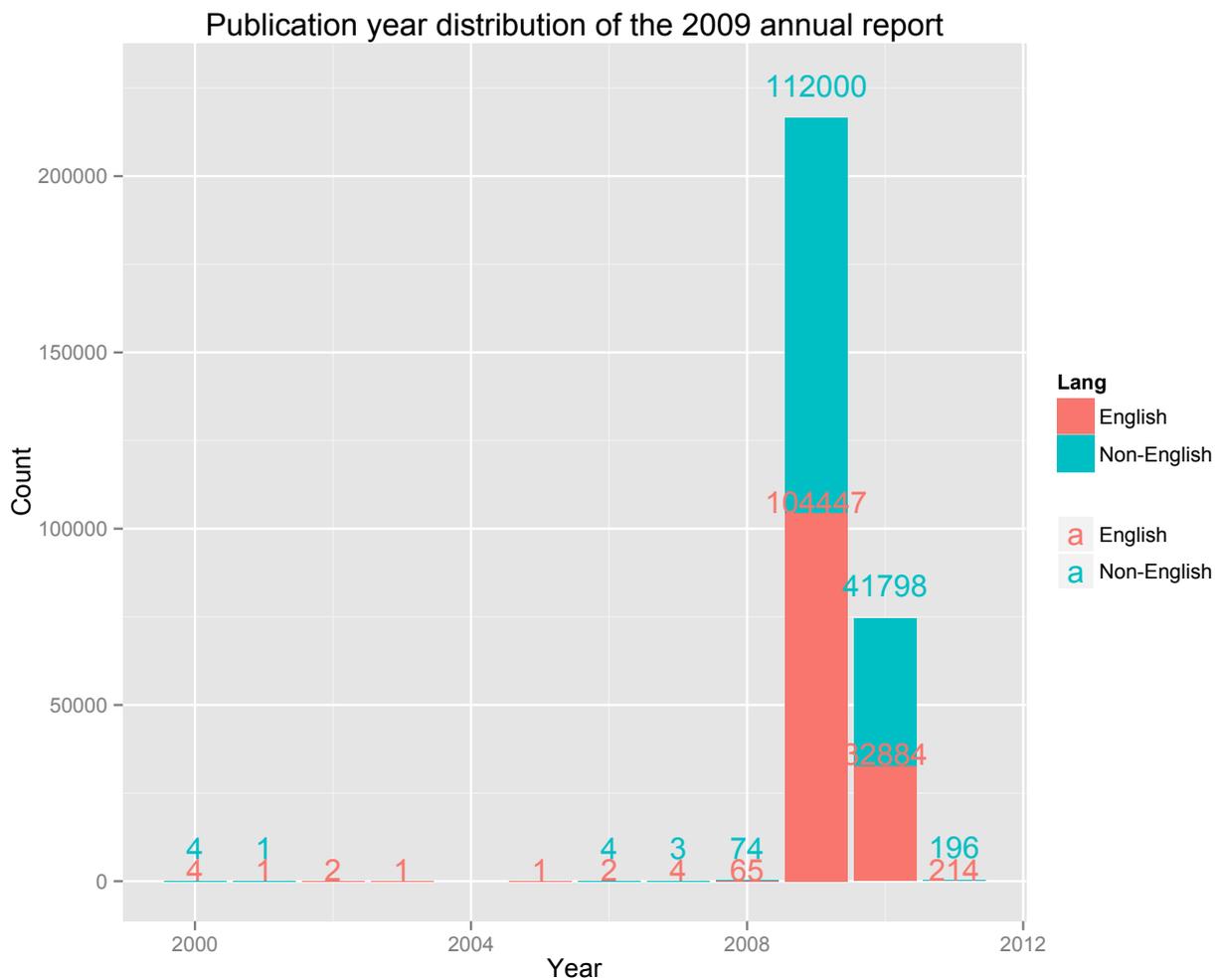


図 22 2009 年度実績報告書に記載された英文・和文種別発表文献の出版年分布(出版年が記載された場合にカウント)

B. WoS のデータとサブジェクトエリア

B.1. WoS のサブジェクトエリア分類

表 6 Web of Science のサブジェクトエリア (1/3)

Subject area		Subject area	
1	Acoustics	51	Critical Care Medicine
2	Agricultural Economics & Policy	52	Crystallography
3	Agricultural Engineering	53	Cultural Studies
4	Agriculture, Dairy & Animal Science	54	Dance
5	Agriculture, Multidisciplinary	55	Demography
6	Agronomy	56	Dentistry, Oral Surgery & Medicine
7	Allergy	57	Dermatology
8	Anatomy & Morphology	58	Developmental Biology
9	Andrology	59	Ecology
10	Anesthesiology	60	Economics
11	Anthropology	61	Education & Educational Research
12	Archaeology	62	Education, Scientific Disciplines
13	Architecture	63	Education, Special
14	Area Studies	64	Electrochemistry
15	Art	65	Emergency Medicine
16	Asian Studies	66	Endocrinology & Metabolism
17	Astronomy & Astrophysics	67	Energy & Fuels
18	Audiology & Speech-Language Pathology	68	Engineering, Aerospace
19	Automation & Control Systems	69	Engineering, Biomedical
20	Behavioral Sciences	70	Engineering, Chemical
21	Biochemical Research Methods	71	Engineering, Civil
22	Biochemistry & Molecular Biology	72	Engineering, Electrical & Electronic
23	Biodiversity Conservation	73	Engineering, Environmental
24	Biology	74	Engineering, Geological
25	Biophysics	75	Engineering, Industrial
26	Biotechnology & Applied Microbiology	76	Engineering, Manufacturing
27	Business	77	Engineering, Marine
28	Business, Finance	78	Engineering, Mechanical
29	Cardiac & Cardiovascular Systems	79	Engineering, Multidisciplinary
30	Cell & Tissue Engineering	80	Engineering, Ocean
31	Cell Biology	81	Engineering, Petroleum
32	Chemistry, Analytical	82	Entomology
33	Chemistry, Applied	83	Environmental Sciences
34	Chemistry, Inorganic & Nuclear	84	Environmental Studies
35	Chemistry, Medicinal	85	Ergonomics
36	Chemistry, Multidisciplinary	86	Ethics
37	Chemistry, Organic	87	Ethnic Studies
38	Chemistry, Physical	88	Evolutionary Biology
39	Classics	89	Family Studies
40	Clinical Neurology	90	Film, Radio, Television
41	Communication	91	Fisheries
42	Computer Science, Artificial Intelligence	92	Folklore
43	Computer Science, Cybernetics	93	Food Science & Technology
44	Computer Science, Hardware & Architecture	94	Forestry
45	Computer Science, Information Systems	95	Gastroenterology & Hepatology
46	Computer Science, Interdisciplinary Applications	96	Genetics & Heredity
47	Computer Science, Software Engineering	97	Geochemistry & Geophysics
48	Computer Science, Theory & Methods	98	Geography
49	Construction & Building Technology	99	Geography, Physical
50	Criminology & Penology	100	Geology

表 7 Web of Science のサブジェクトエリア (2/3)

Subject area		Subject area	
101	Geosciences, Multidisciplinary	151	Medical Informatics
102	Geriatrics & Gerontology	152	Medical Laboratory Technology
103	Gerontology	153	Medicine, General & Internal
104	Health Care Sciences & Services	154	Medicine, Legal
105	Health Policy & Services	155	Medicine, Research & Experimental
106	Hematology	156	Medieval & Renaissance Studies
107	History	157	Metallurgy & Metallurgical Engineering
108	History & Philosophy Of Science	158	Meteorology & Atmospheric Sciences
109	History Of Social Sciences	159	Microbiology
110	Horticulture	160	Microscopy
111	Hospitality, Leisure, Sport & Tourism	161	Mineralogy
112	Humanities, Multidisciplinary	162	Mining & Mineral Processing
113	Imaging Science & Photographic Technology	163	Multidisciplinary Sciences
114	Immunology	164	Music
115	Industrial Relations & Labor	165	Mycology
116	Infectious Diseases	166	Nanoscience & Nanotechnology
117	Information Science & Library Science	167	Neuroimaging
118	Instruments & Instrumentation	168	Neurosciences
119	Integrative & Complementary Medicine	169	Nuclear Science & Technology
120	International Relations	170	Nursing
121	Language & Linguistics	171	Nutrition & Dietetics
122	Law	172	Obstetrics & Gynecology
123	Limnology	173	Oceanography
124	Linguistics	174	Oncology
125	Literary Reviews	175	Operations Research & Management Science
126	Literary Theory & Criticism	176	Ophthalmology
127	Literature	177	Optics
128	Literature, African, Australian, Canadian	178	Ornithology
129	Literature, American	179	Orthopedics
130	Literature, British Isles	180	Otorhinolaryngology
131	Literature, German, Dutch, Scandinavian	181	Paleontology
132	Literature, Romance	182	Parasitology
133	Literature, Slavic	183	Pathology
134	Logic	184	Pediatrics
135	Management	185	Peripheral Vascular Disease
136	Marine & Freshwater Biology	186	Pharmacology & Pharmacy
137	Materials Science, Biomaterials	187	Philosophy
138	Materials Science, Ceramics	188	Physics, Applied
139	Materials Science, Characterization & Testing	189	Physics, Atomic, Molecular & Chemical
140	Materials Science, Coatings & Films	190	Physics, Condensed Matter
141	Materials Science, Composites	191	Physics, Fluids & Plasmas
142	Materials Science, Multidisciplinary	192	Physics, Mathematical
143	Materials Science, Paper & Wood	193	Physics, Multidisciplinary
144	Materials Science, Textiles	194	Physics, Nuclear
145	Mathematical & Computational Biology	195	Physics, Particles & Fields
146	Mathematics	196	Physiology
147	Mathematics, Applied	197	Planning & Development
148	Mathematics, Interdisciplinary Applications	198	Plant Sciences
149	Mechanics	199	Poetry
150	Medical Ethics	200	Political Science

表 8 Web of Science のサブジェクトエリア (3/3)

Subject area		Subject area	
201	Polymer Science	251	Zoology
202	Primary Health Care		
203	Psychiatry		
204	Psychology		
205	Psychology, Applied		
206	Psychology, Biological		
207	Psychology, Clinical		
208	Psychology, Developmental		
209	Psychology, Educational		
210	Psychology, Experimental		
211	Psychology, Mathematical		
212	Psychology, Multidisciplinary		
213	Psychology, Psychoanalysis		
214	Psychology, Social		
215	Public Administration		
216	Public, Environmental & Occupational Health		
217	Radiology, Nuclear Medicine & Medical Imaging		
218	Rehabilitation		
219	Religion		
220	Remote Sensing		
221	Reproductive Biology		
222	Respiratory System		
223	Rheumatology		
224	Robotics		
225	Social Issues		
226	Social Sciences, Biomedical		
227	Social Sciences, Interdisciplinary		
228	Social Sciences, Mathematical Methods		
229	Social Work		
230	Sociology		
231	Soil Science		
232	Spectroscopy		
233	Sport Sciences		
234	Statistics & Probability		
235	Substance Abuse		
236	Surgery		
237	Telecommunications		
238	Theater		
239	Thermodynamics		
240	Toxicology		
241	Transplantation		
242	Transportation		
243	Transportation Science & Technology		
244	Tropical Medicine		
245	Urban Studies		
246	Urology & Nephrology		
247	Veterinary Sciences		
248	Virology		
249	Water Resources		
250	Women's Studies		

B.2. WoS 収録文献数のサブジェクトエリア分布

収録された文献の総数(出版年 2009, 2010)

- 3,925,776
 - 2009: 1,992,528
 - 2010: 1,933,248

サブジェクトがついている文献の総数(出版年 2009, 2010)

- 3,924,878

サブジェクトのカウント方法の違いによるカウント総数(出版年 2009, 2010)

- 整数カウント
 - 6,493,847
- 分数カウント
 - 3,924,878.00

B.2.1. 整数カウント

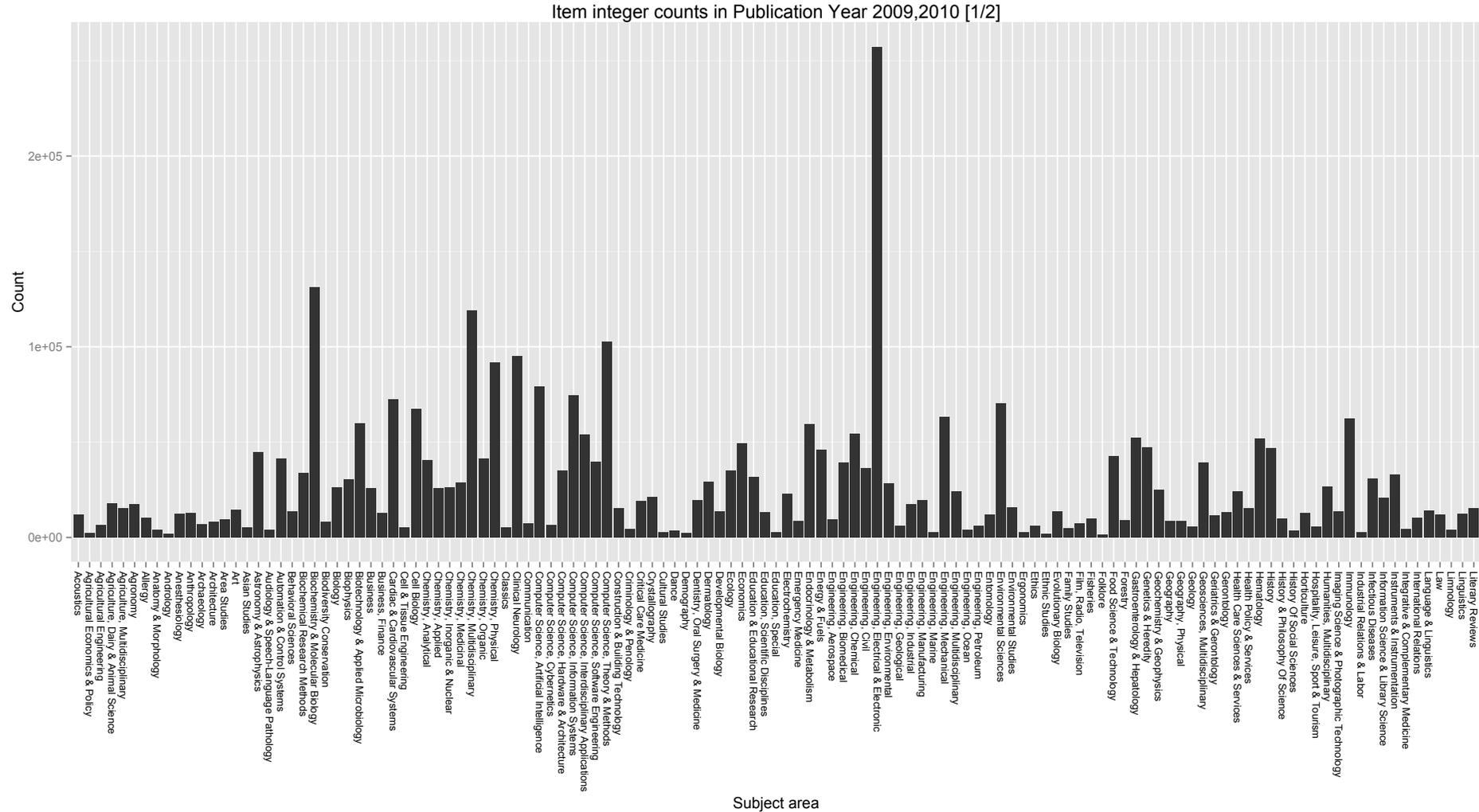


図 23 WoS 収録文献数(出版年 2009, 2010)のサブジェクトエリア(1/2)分布 (整数カウント)

Item integer counts in Publication Year 2009,2010 [2/2]

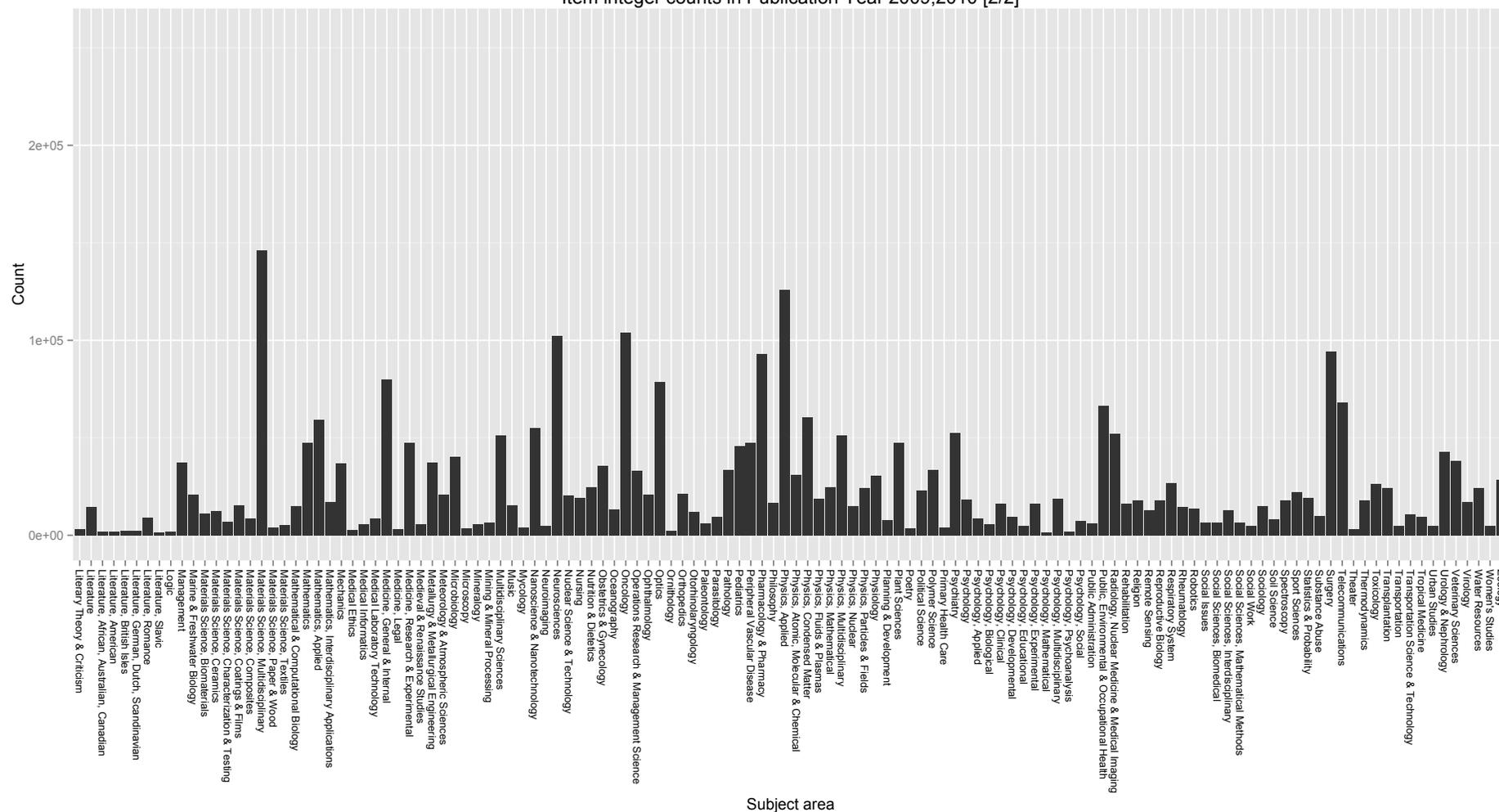


図 24 WoS 収録文献数(出版年 2009, 2010)のサブジェクトエリア(2/2)分布(整数カウント)

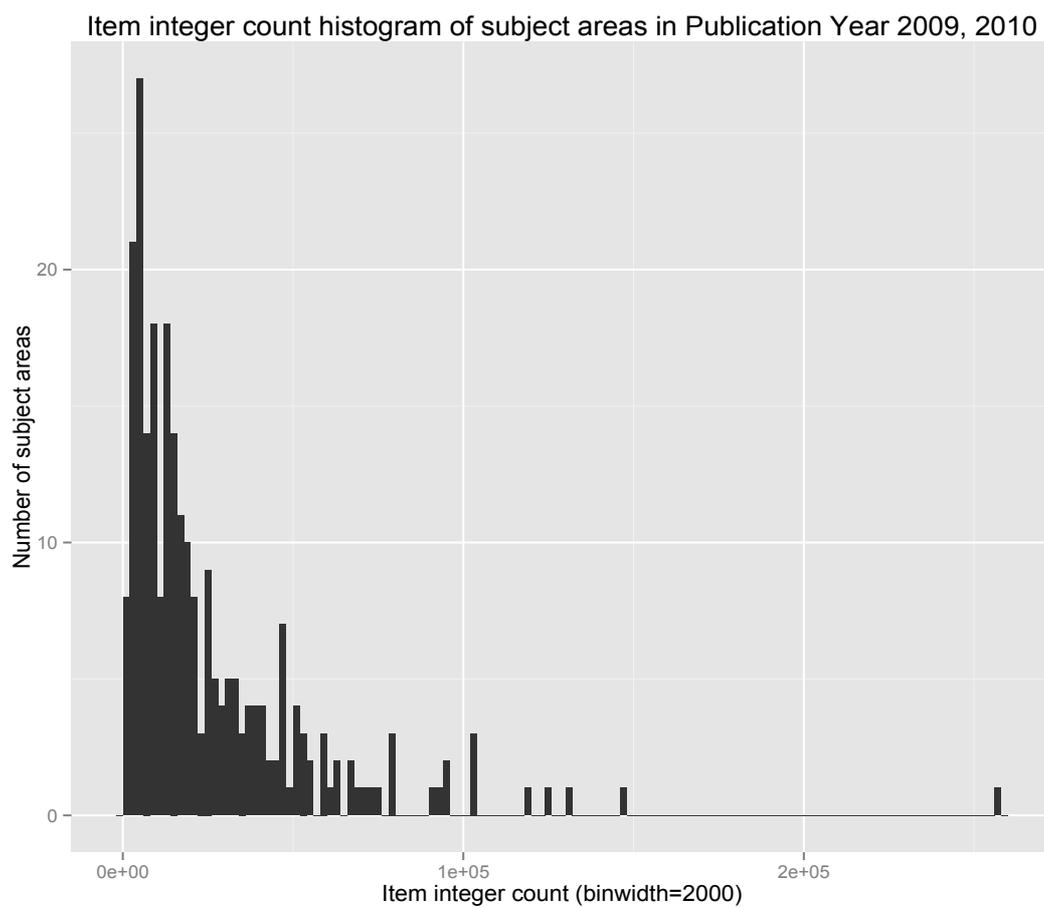


図 25 WoS 収録文献数(出版年 2009, 2010)のサブジェクトエリアカウント(整数カウント)のヒストグラム

(余白ページ)

B.2.2. 分数カウント

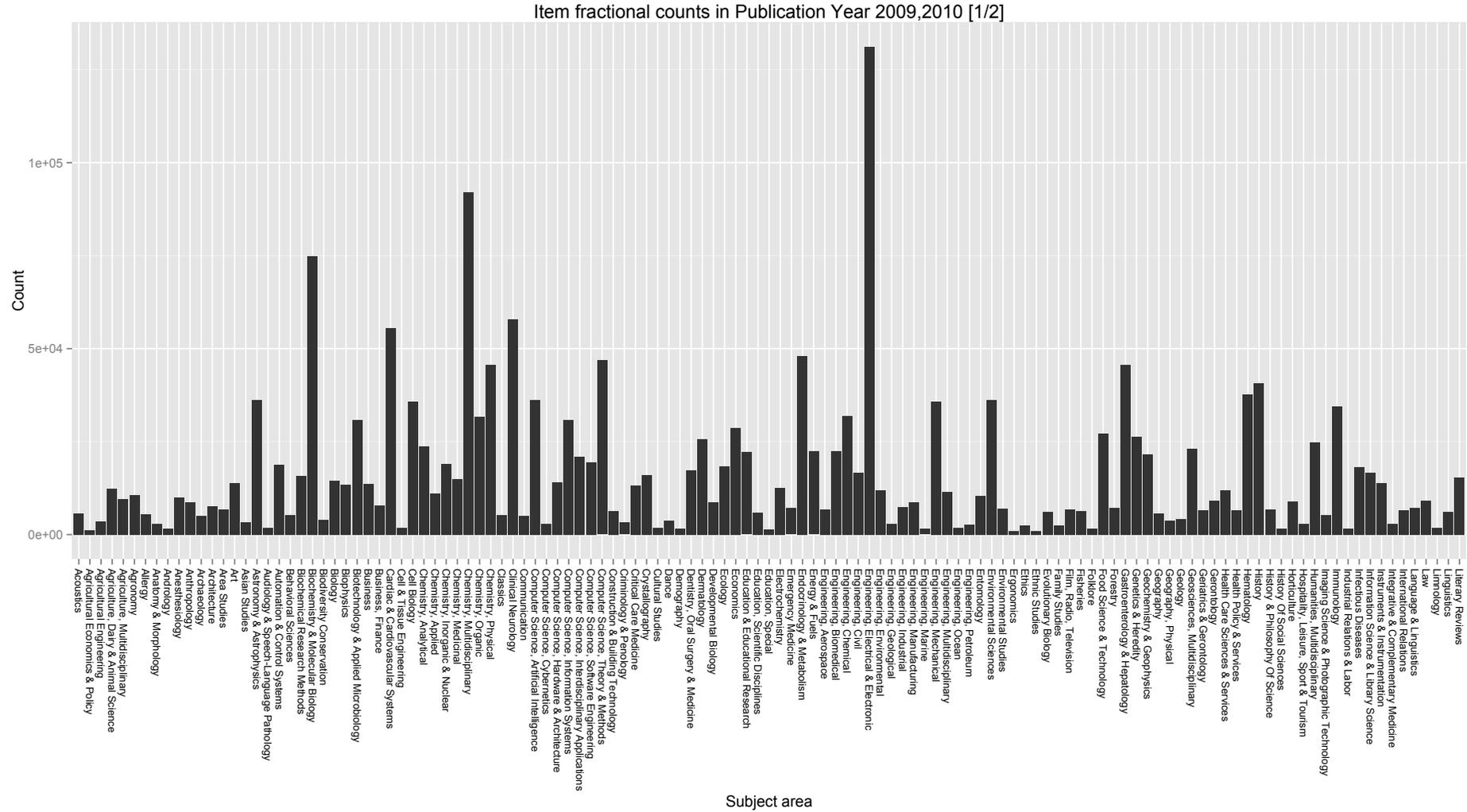


図 26 WoS 収録文献数(出版年 2009, 2010)のサブジェクトエリア(1/2)分布 (分数カウント)

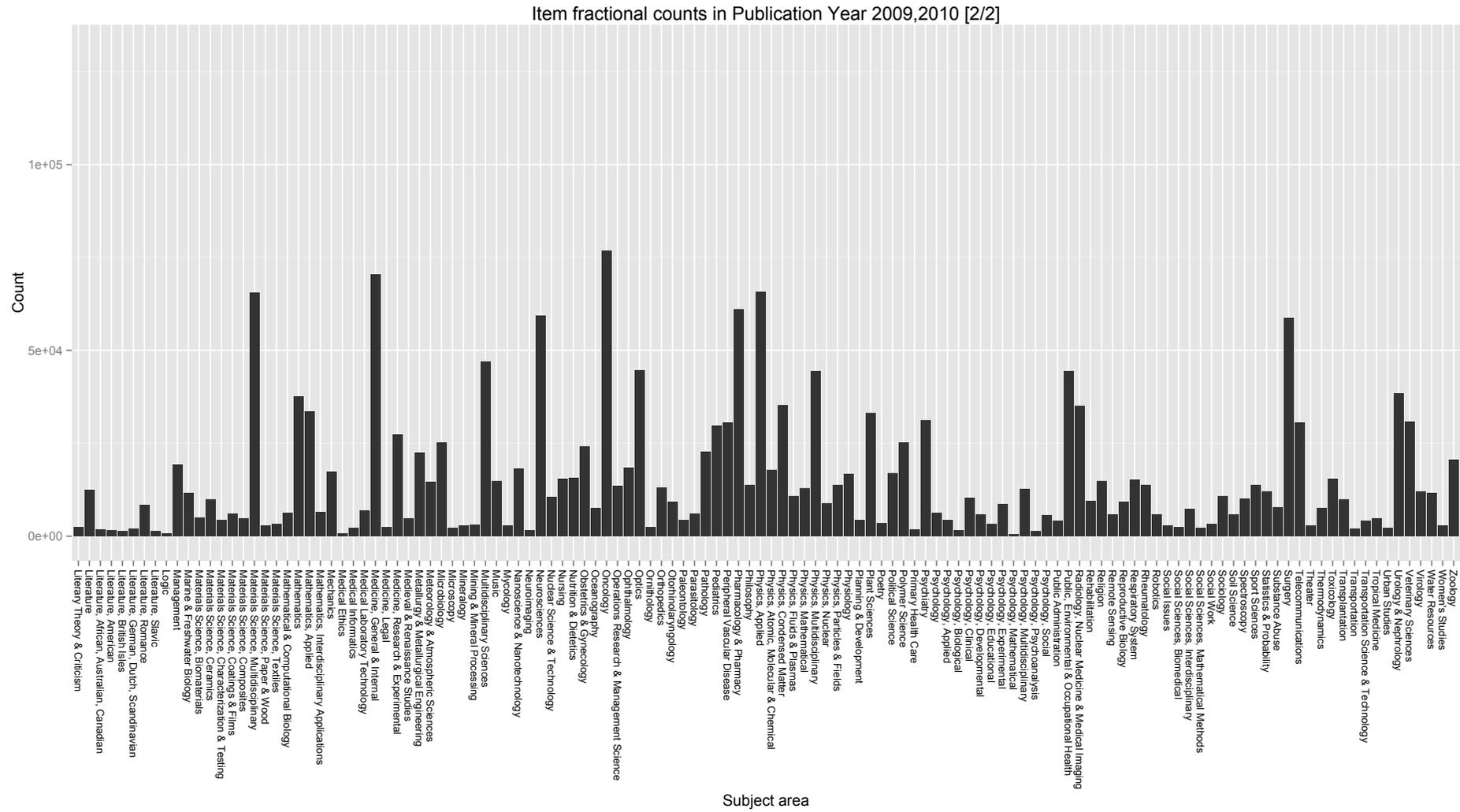


図 27 WoS 収録文献数(出版年 2009, 2010)のサブジェクトエリア(2/2)分布 (分数カウント)

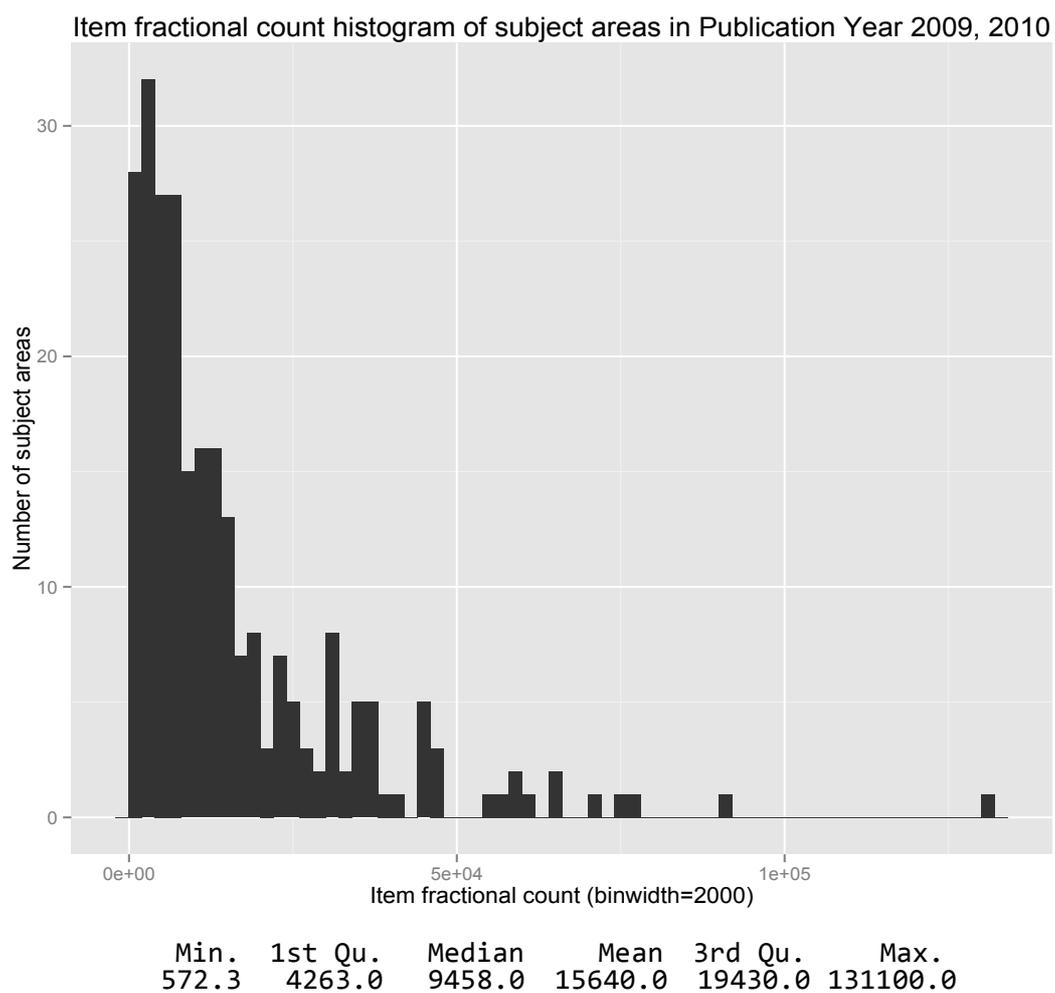


図 28 WoS 収録文献数(出版年 2009, 2010)のサブジェクトエリアカウント(分数カウント)のヒストグラム

C. レコードリンケージの性能検証

C.1. リンケージの方法

ここでは、以下の技術を用いた 2 段階プロセスで KAKEN 文献書誌と WoS 文献書誌の同一性判定を行う。

- 相澤らによって開発された高速に同定候補を挙げる i-Linkage
- 機械学習アルゴリズムの一つで 2 値分類器である SVM(Support Vector Machine)

C.2. データセット

リンケージのソース

- KAKEN 2009 年度実績報告書の発表文献のうち、英文文献と判定されるもの（性能検証を目的とするため分野分類されるかどうかはここでは問わず、件数を多くとる）
- 総数(同一課題で重複コピー排除) : 173,940 件

リンケージのターゲット

- WoS(出版年 2009, 2010)
- 総数 : 3,925,776 件

C.3. ブロッキングの性能

KAKEN-WoS 文献書誌ペアの候補抽出(ブロッキング)

- WoS 文献書誌候補最大 5 件 / KAKEN 1 文献書誌あたり
- ペア候補数 : 822,841 件

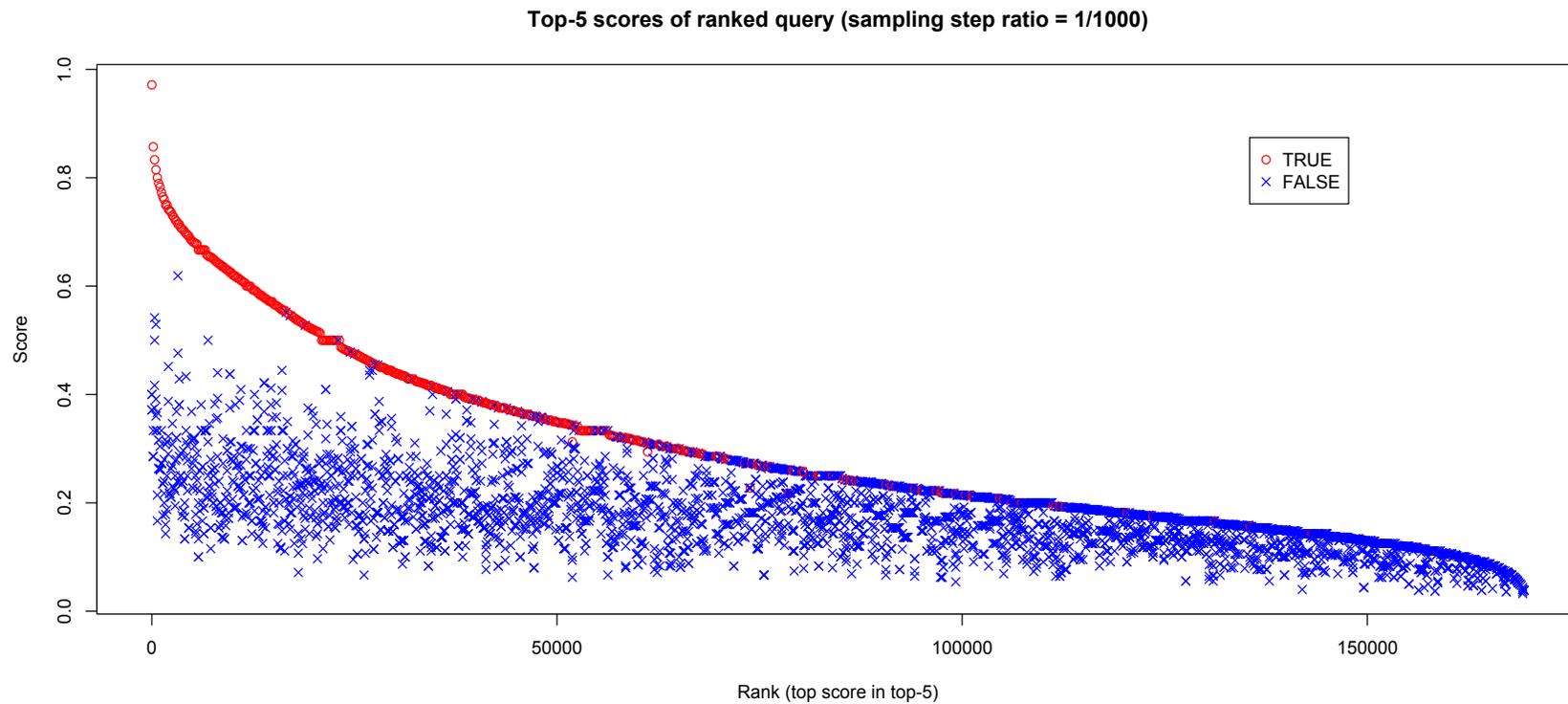


図 29 KAKEN 文献書誌と対応する WoS 文献書誌をペアとする候補グループをその Top-1 スコアどうしで順位付け、等間隔に 1000 グループをサンプリングして手作業で正解判定した結果の順位-スコアグラフ

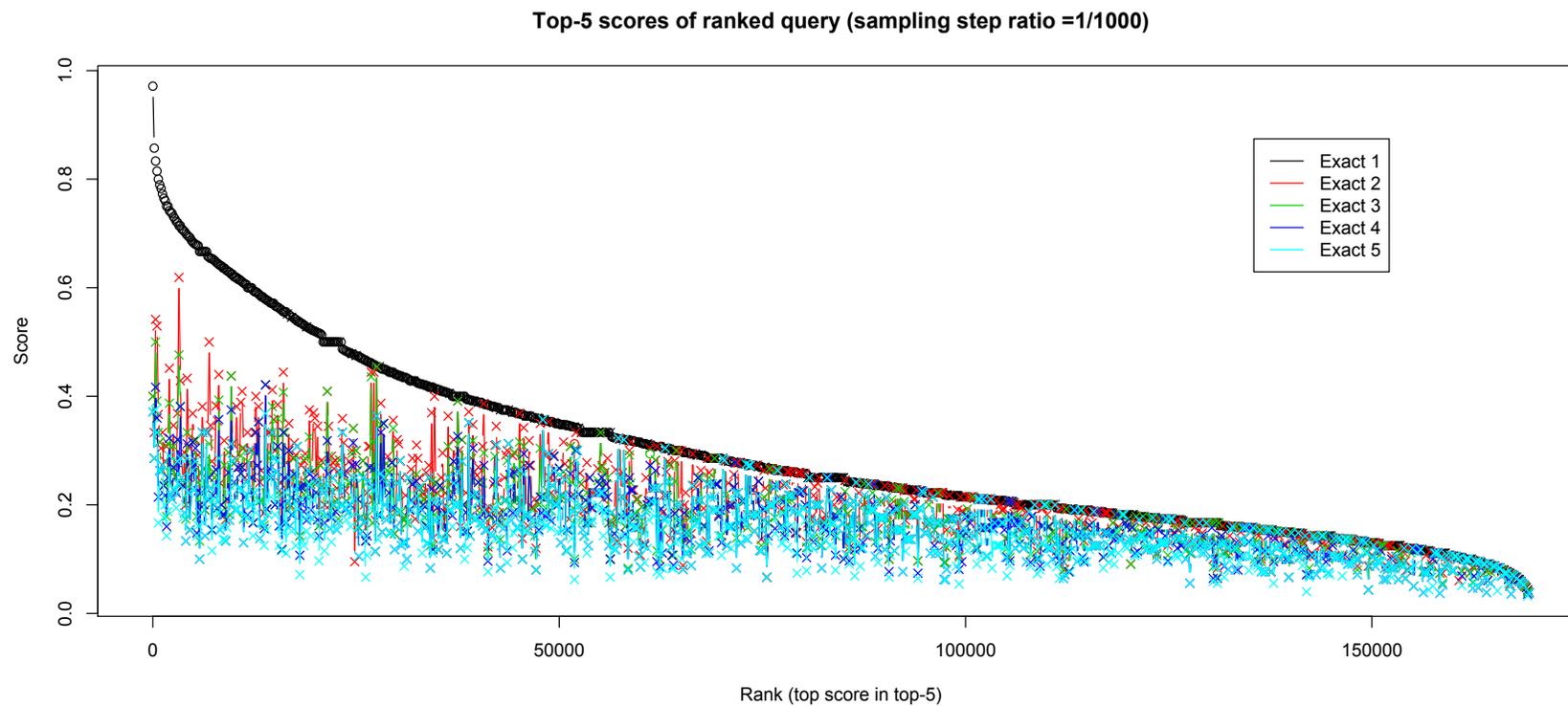


図 30 KAKEN 文献書誌と対応する WoS 文献書誌をペアとする候補グループをその Top-1 スコアどうしで順位付け、等間隔に 1000 グループをサンプリングして手作業で正解判定した結果に対し、上位 1 から 5 までを区別して結線した順位-スコアグラフ

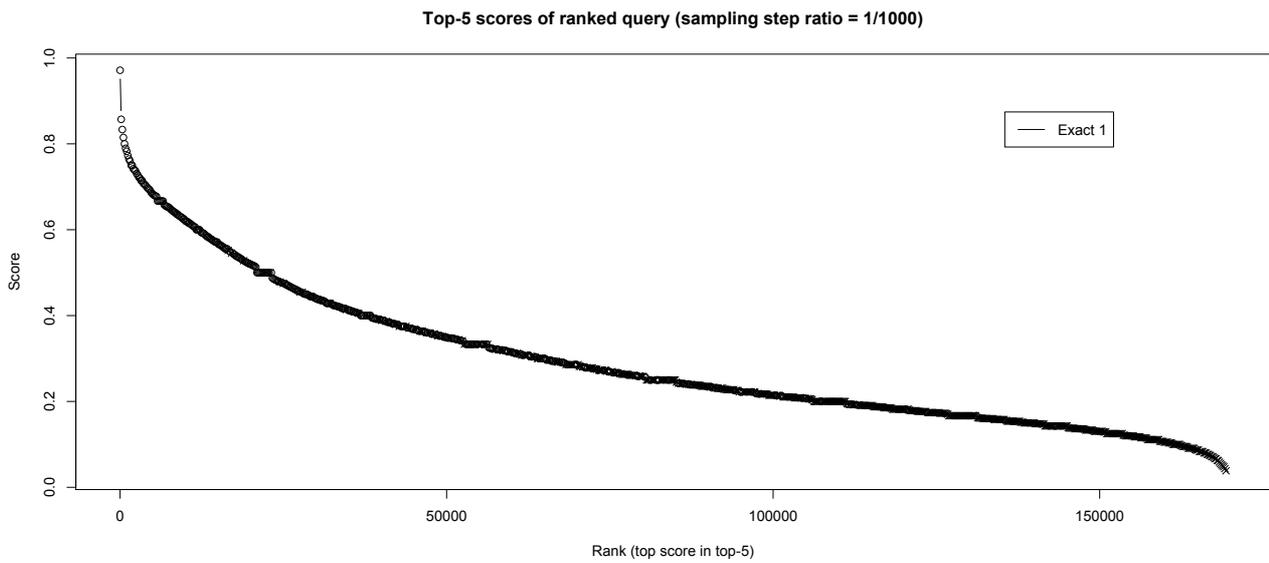


図 31 KAKEN 文献書誌と対応する WoS 文献書誌をペアとする候補グループをその Top-1 スコアどうしで順位付け、等間隔に 1000 グループをサンプリングして手作業で正解判定した結果に対し、上位 1 を抜き出して結線した順位-スコアグラフ

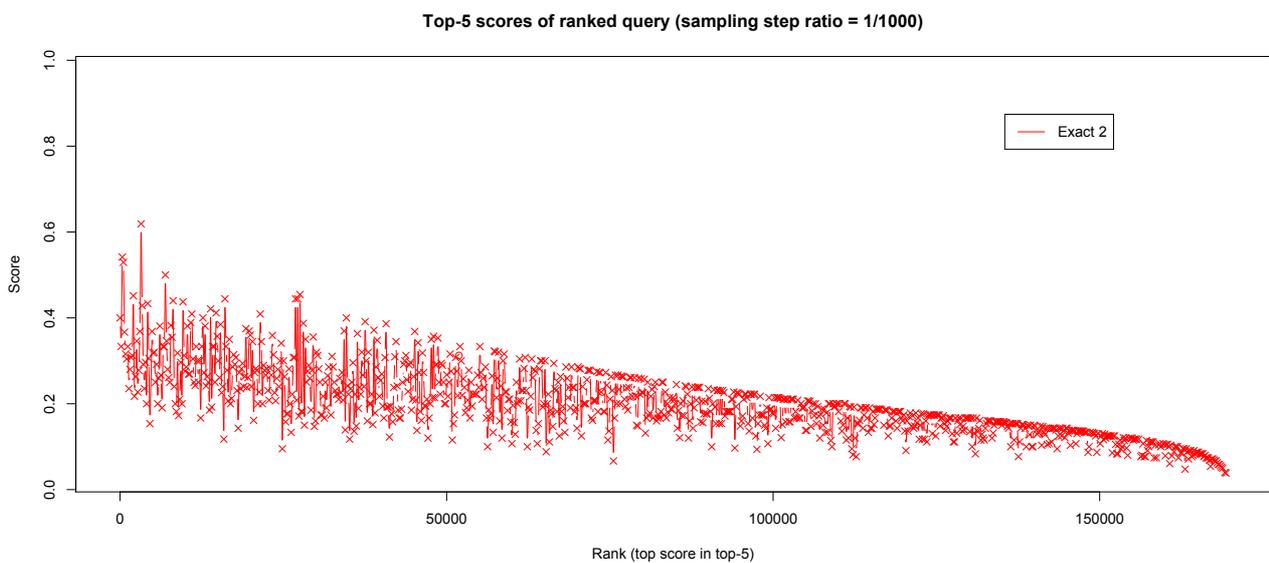


図 32 KAKEN 文献書誌と対応する WoS 文献書誌をペアとする候補グループをその Top-1 スコアどうしで順位付け、等間隔に 1000 グループをサンプリングして手作業で正解判定した結果に対し、上位 2 を抜き出して結線した順位-スコアグラフ

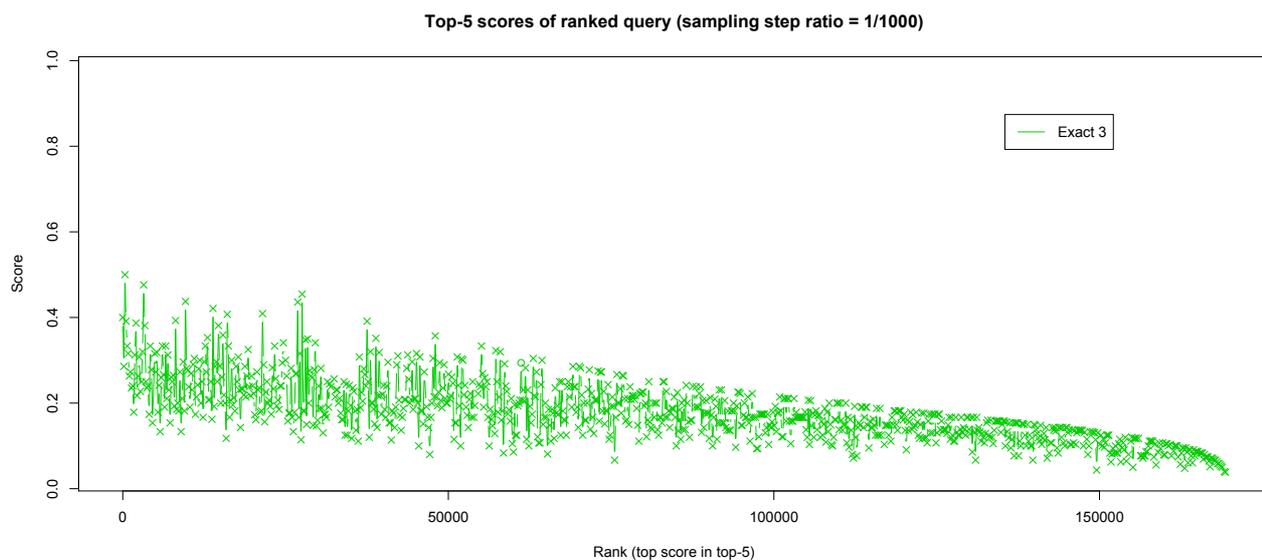


図 33 KAKEN 文献書誌と対応する WoS 文献書誌をペアとする候補グループをその Top-1 スコアどうしで順位付け、等間隔に 1000 グループをサンプリングして手作業で正解判定した結果に対し、上位 3 を抜き出して結線した順位-スコアグラフ

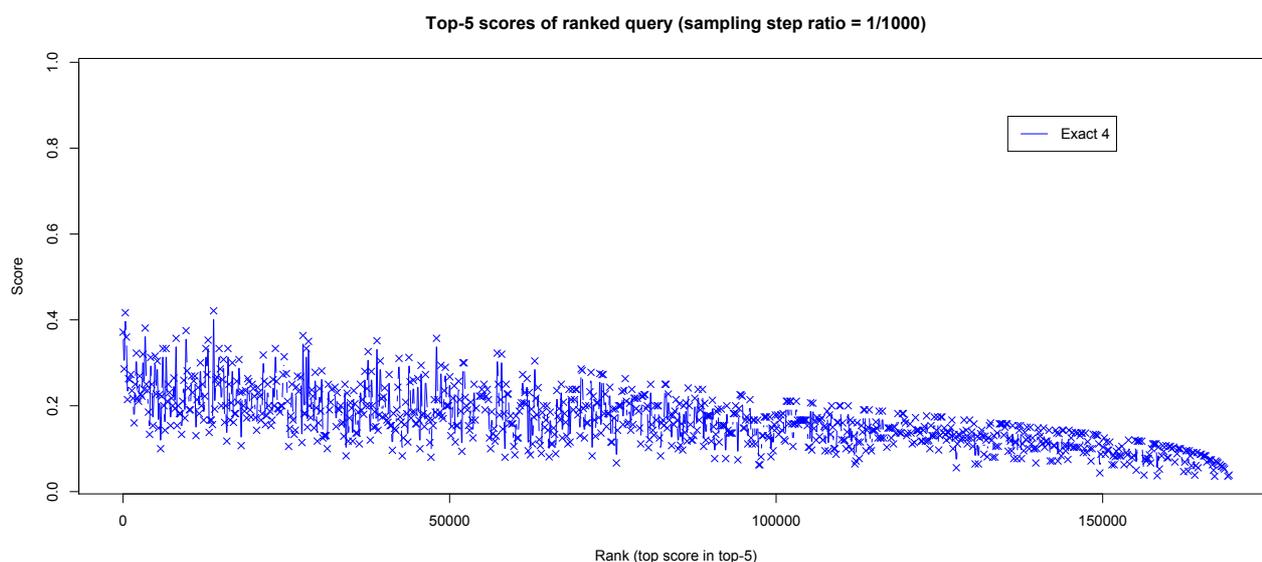


図 34 KAKEN 文献書誌と対応する WoS 文献書誌をペアとする候補グループをその Top-1 スコアどうしで順位付け、等間隔に 1000 グループをサンプリングして手作業で正解判定した結果に対し、上位 4 を抜き出して結線した順位-スコアグラフ

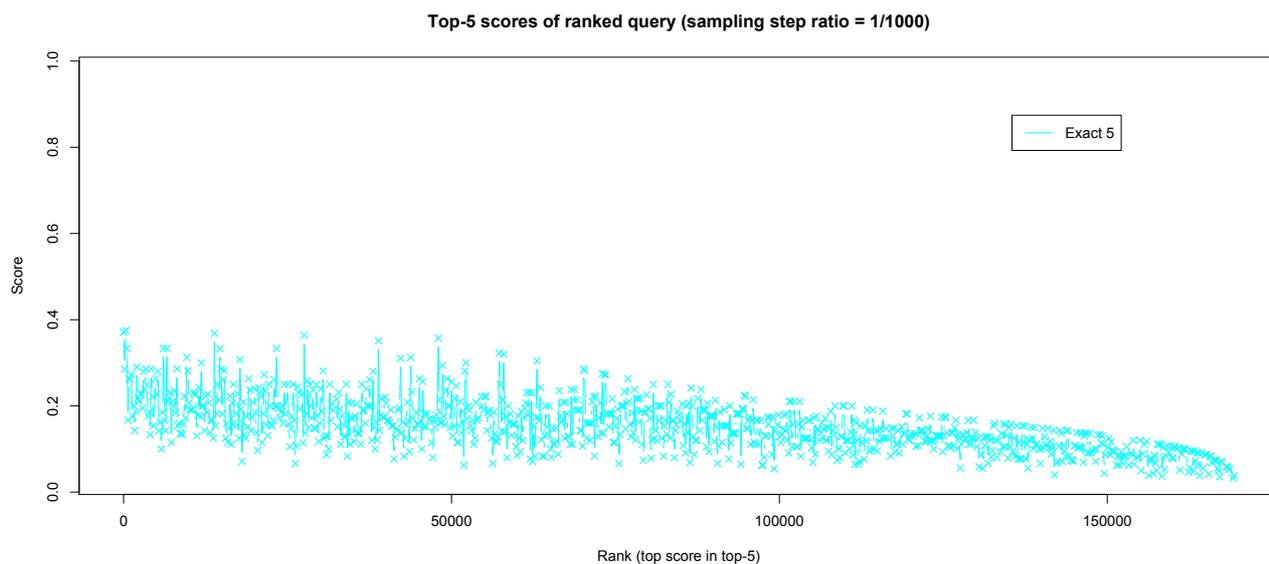


図 35 KAKEN 文献書誌と対応する WoS 文献書誌をペアとする候補グループをその Top-1 スコアどうしで順位付け、等間隔に 1000 グループをサンプリングして手作業で正解判定した結果に対し、上位 5 を抜き出して結線した順位-スコアグラフ

(余白ページ)

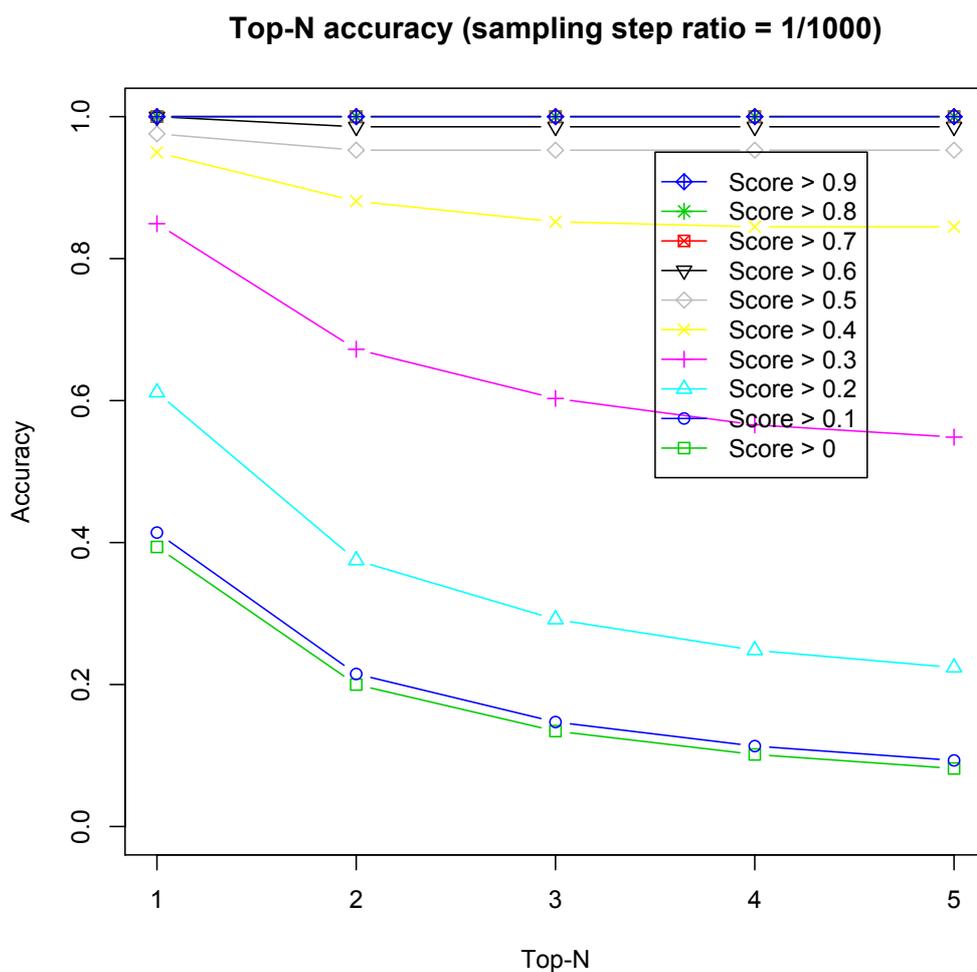


図 36 KAKEN 文献書誌と対応する WoS 文献書誌をペアとする候補をスコアの閾値で区切って抽出し、抽出されたペアの Top-N (上位 N 位以内)における正確度を示したグラフ

Exact-K accuracy (sampling step ratio = 1/1000)

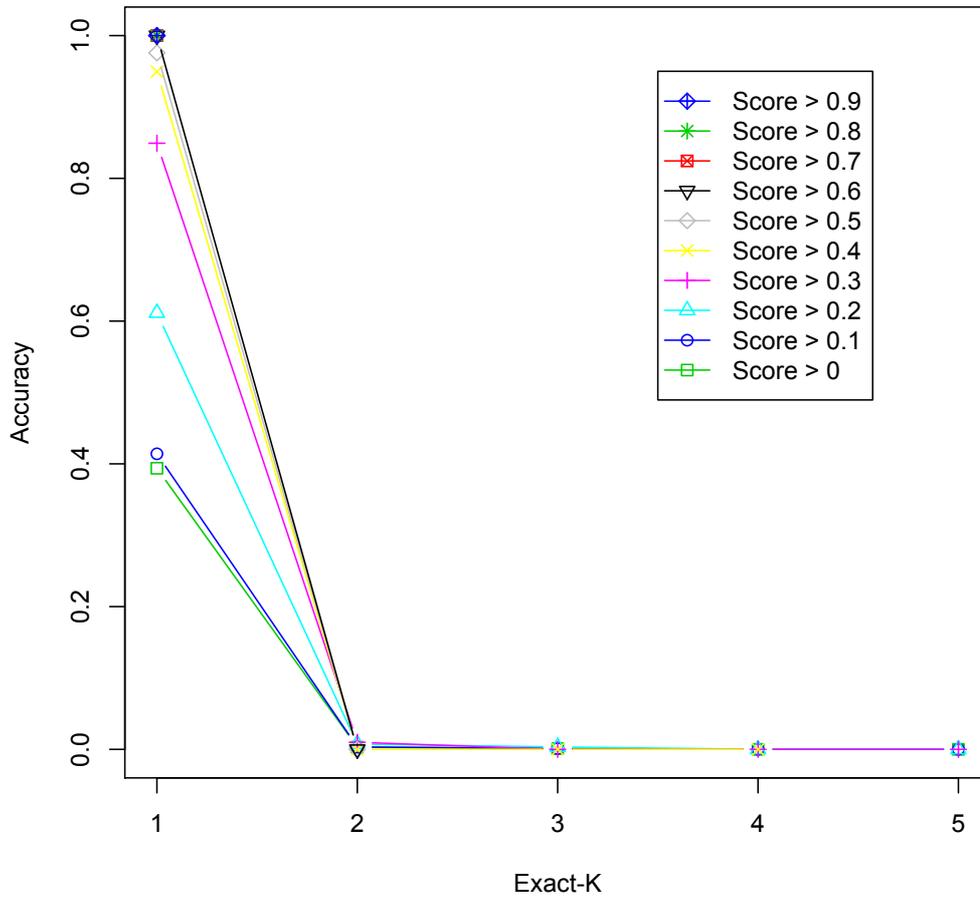


図 37 KAKEN 文献書誌と対応する WoS 文献書誌をペアとする候補をスコアの閾値で区切って抽出し、抽出されたペアの Exact-K (上位 K 位)における正確度を示したグラフ

At least one in top-N accuracy (sampling step ratio = 1/1000)

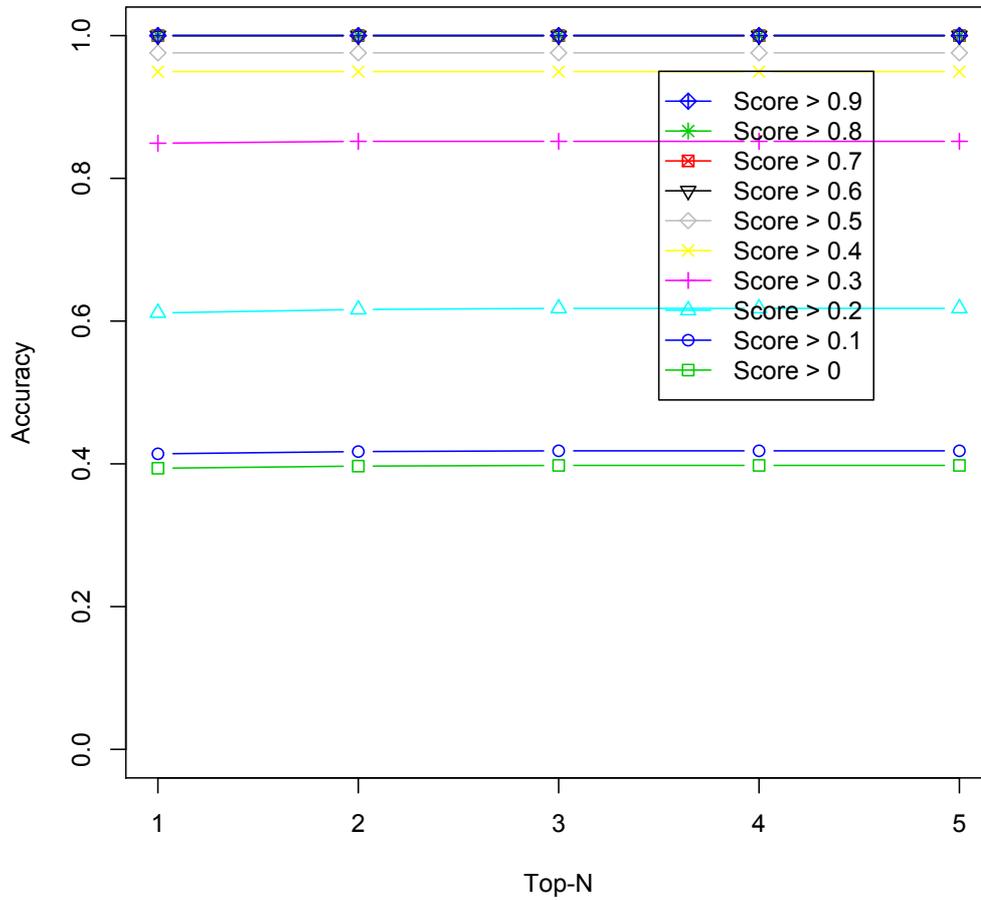


図 38 KAKEN 文献書誌と対応する WoS 文献書誌をペアとする候補をスコアの閾値で区切って抽出し、抽出されたペアの Top-N (N 位以内)において少なくとも 1 つの正解があれば正判定とする正確度を示したグラフ

TRUE/FALSE count in Exact-K (sampling step ratio = 1/1000)

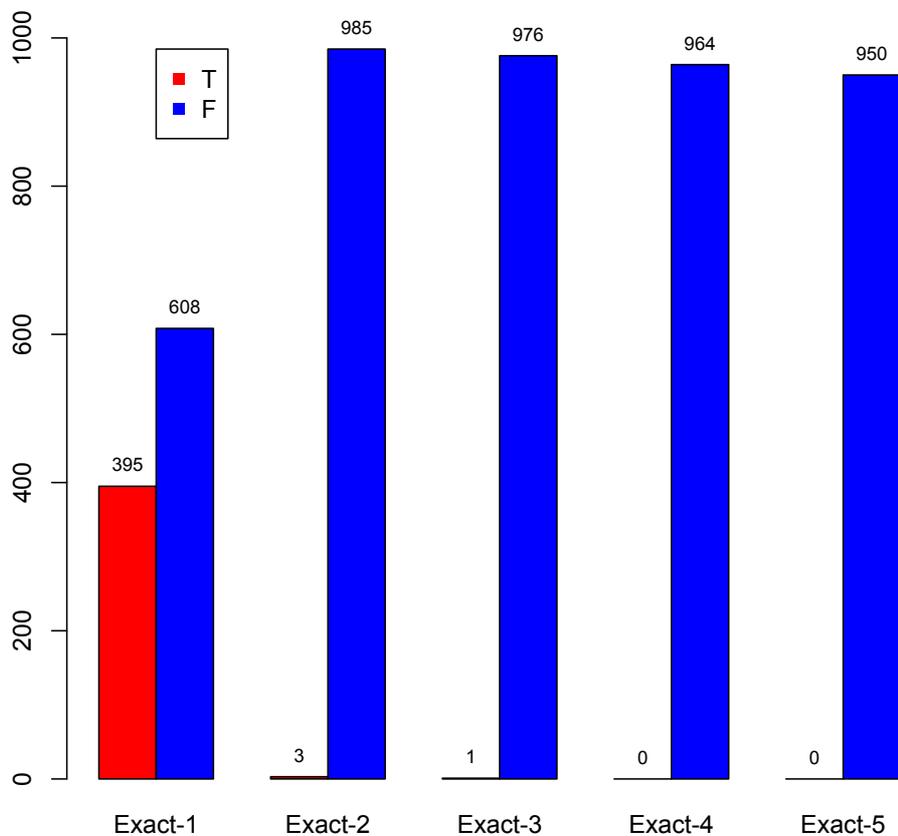


図 39 KAKEN 文献書誌と対応する WoS 文献書誌をペアとする候補グループをその Top-1 スコアどうしで順位付け、等間隔に 1000 グループをサンプリングして手作業で正解判定した結果を Exact-K(上位 K 位)ごとに正解/不正解を集計したグラフ

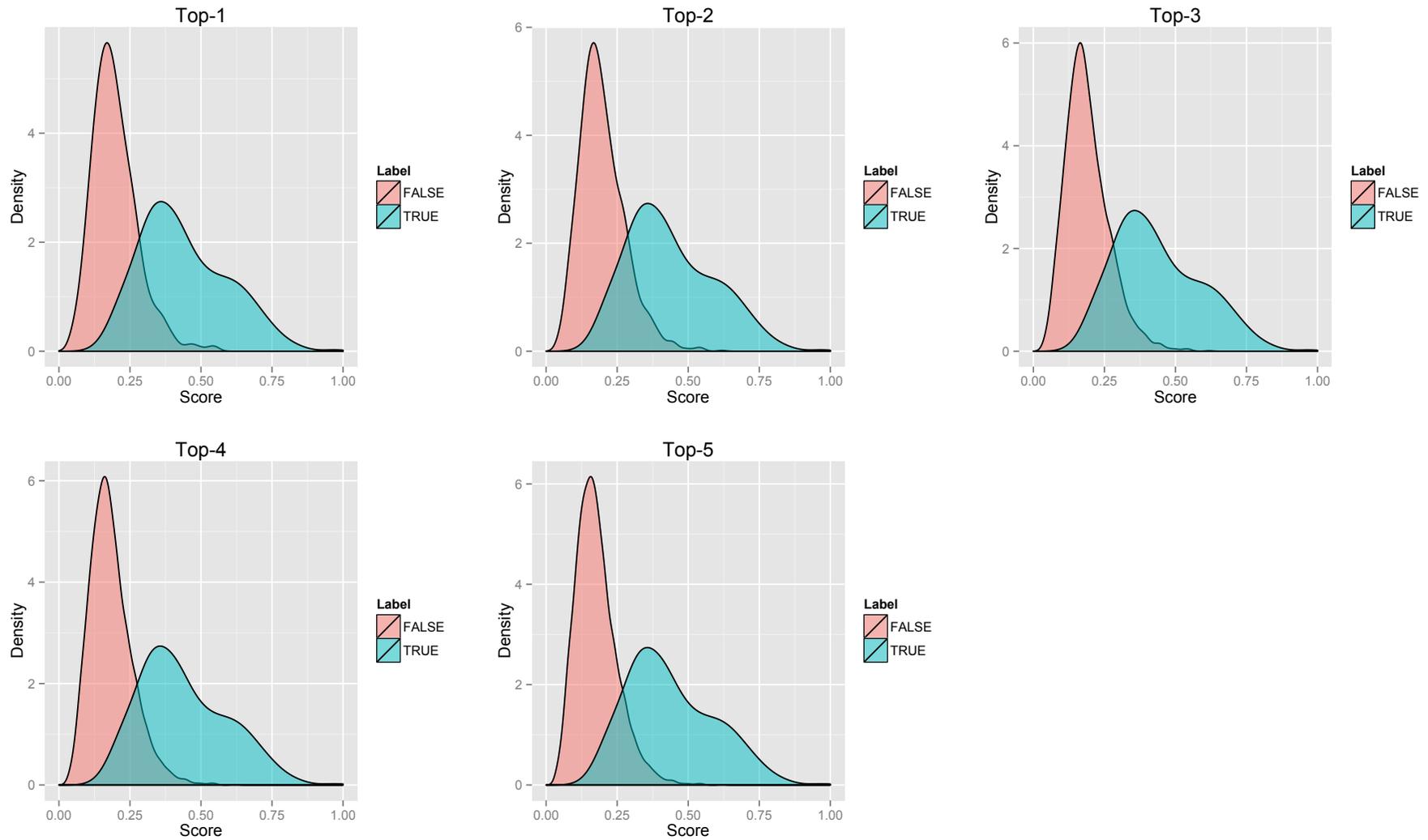


図 40 KAKEN 文献書誌と対応する WoS 文献書誌をペアとする候補グループをその Top-1 スコアどうしで順位付け、等間隔に 1000 グループをサンプリングして手作業で正解判定した結果を Top-N(上位 N 位以内)ごと、正解/不正解ごとのペアのスコア密度分布

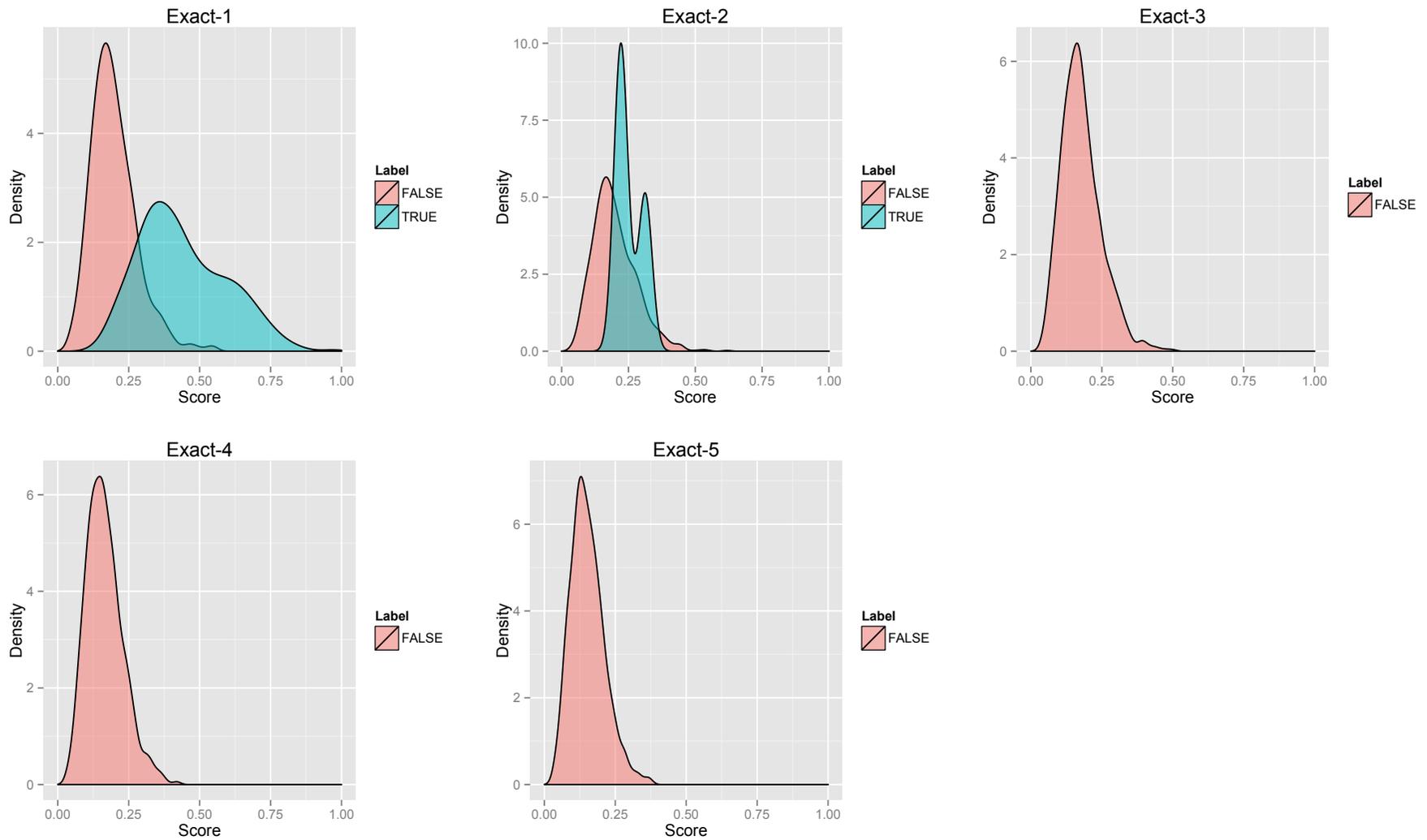


図 41 KAKEN 文献書誌と対応する WoS 文献書誌をペアとする候補グループをその Top-1 スコアどうしで順位付け、等間隔に 1000 グループをサンプリングして手作業で正解判定した結果を Exact-K(上位 K 位)ごと、正解/不正解ごとのペアのスコア密度分布

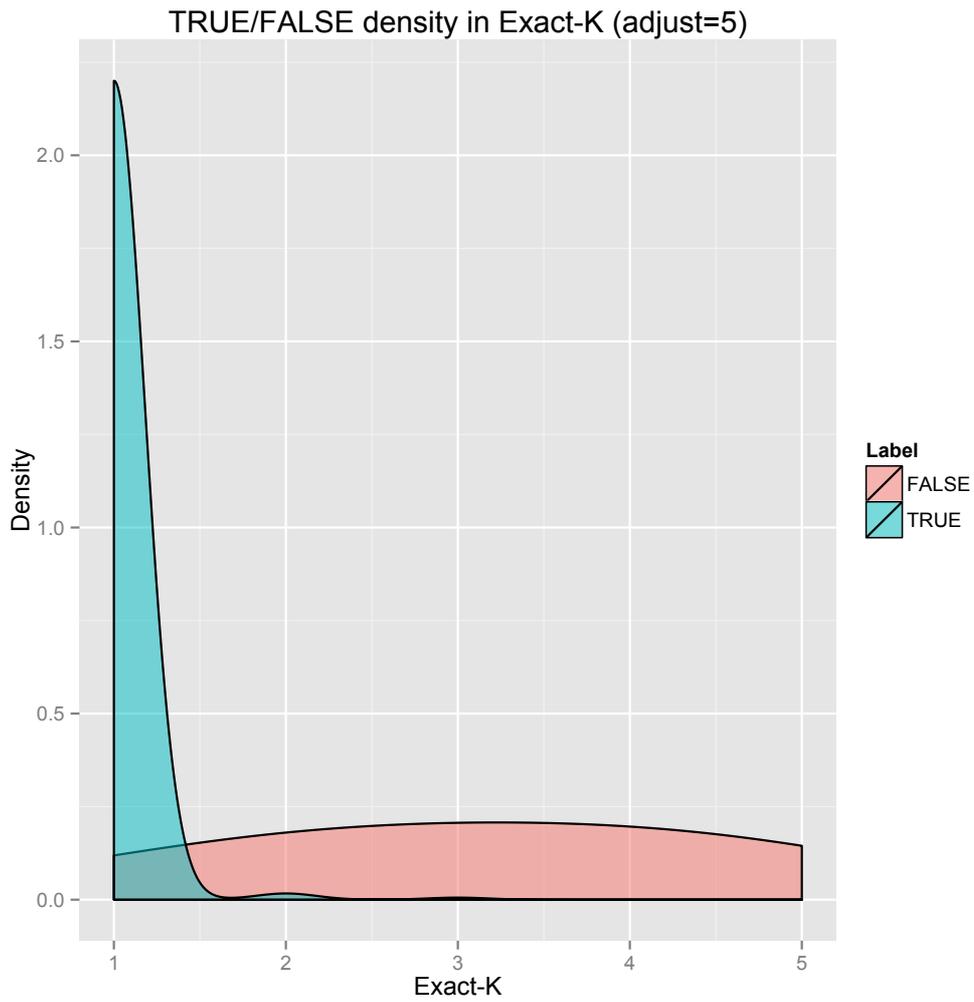


図 42 KAKEN 文献書誌と対応する WoS 文献書誌をペアとする候補グループをその Top-1 スコアどうしで順位付け、等間隔に 1000 グループをサンプリングして手作業で正解判定した結果に対し、正解/不正解のペアが Exact-K(上位 K 位)にある割合を示す密度分布

C.4. SVM による書誌同一性判別の性能

表 9 書誌ペア同一性判定を目的とした SVM の特徴ベクトル

SVM の入力ベクトル(18 次元)			
要素番号	レンジ	対象入力項目	条件
1	>0	ソース一行文字列/ターゲット一行文字列	(ソース、ターゲット文字列(著者¥n タイトル¥n ジャーナル¥n 巻号¥n ページ¥n 年))の文字列長さの euc-jp に変換したときの比率 \$ratio euc/unicode それぞれで文字コードの比率をとっているのは、手っ取り早く言語判定をするため。日本語の「全角」文字は ecu では 2 文字、unicode では 1 文字であるため。
2	>=0	ソース一行文字列/ターゲット分割文字列	(ソース、ターゲット文字列(著者¥n タイトル¥n ジャーナル))の文字単位の編集距離\$wscore1
3	>=0	ソース一行文字列/ターゲット分割文字列	(ソース、ターゲット文字列(巻号¥n ページ¥n 年))の単語単位の編集距離\$wscore2 ただし、"webcat"でない
4	>=0	ソース一行文字列/ターゲット分割文字列	(ソース、ターゲット文字列(著者 タイトル ジャーナル 巻号 ページ 年))の文字単位の編集距離\$wscore3
5	1>, >0	i-Linkage スコア1	i-Linkage score1,文字単位の編集距離をとり正規化したスコア, \$elist[0]
6	>0	i-Linkage スコア2	i-Linkage score2,一致する単語について単語の出現頻度で重みづけしたスコア,をもとに次を計算 (\$elist[1]-100)/100
7	>0	ソース一行文字列/ターゲット分割文字列	ウェイト\$w1[0] for (ソース、ターゲット文字列(著者¥n タイトル¥n ジャーナル))の文字単位の編集距離\$wscore1、における著者一致の割合
8	>0	ソース一行文字列/ターゲット分割文字列	ウェイト\$w1[1] タイトル一致の割合
9	>0	ソース一行文字列/ターゲット分割文字列	ウェイト\$w1[2] ジャーナル一致の割合
10	>0	ソース一行文字列/ターゲット分割文字列	ウェイト\$w2[0] for (ソース、ターゲット文字列(巻号¥n ページ¥n 年))の単語単位の編集距離\$wscore2 における巻号一致の割合
11	>0	ソース一行文字列/ターゲット分割文字列	ウェイト\$w2[1] ページ一致の割合
12	>0	ソース一行文字列/ターゲット分割文字列	ウェイト\$w2[2] 年一致の割合
13	1/0	ターゲット Auth	文字列なし/あり\$e[0]
14	1/0	ターゲット Titl	文字列なし/あり\$e[1]
15	1/0	ターゲット Jrnl	文字列なし/あり\$e[2]
16	1/0	ターゲット Voln	文字列なし/あり\$e[3]
17	1/0	ターゲット Page	文字列なし/あり\$e[4]
18	1/0	ターゲット Year	文字列なし/あり\$e[5]

表 10 KAKEN 文献書誌と対応する WoS 文献書誌をペアとする候補グループをその Top-1 スコアどうしで順位付け、等間隔に 1000 グループをサンプリングして手作業で正解判定した結果を利用して、Top-N(上位 N 位以内)とスコア閾値を設定して正例・負例の訓練データセットとし、10 分割交差検定を行った SVM 判別性能結果 (カーネルタイプは Linear を使用)

Training data set	True / False	Accuracy	Precision	Recall	F-measure
All	393 / 4489	98.8326	95.1755	90.3846	92.5095
Top-5 & score>0.29	333 / 330	93.6680	94.8397	92.4777	93.5875
Top-5 & score>0.28	339 / 397	94.4280	95.3560	92.6292	93.8427
Top-3 & score>0.276	342 / 341	93.9919	94.7439	93.2689	93.9147
Top-3 & score>0.27	344 / 380	94.4673	95.8109	92.4118	94.0384
Top-3 & score>0.264	350 / 411	94.2174	94.7868	92.8571	93.6511
Top-1 & score>0.16	387 / 395	95.0162	94.9245	95.1012	94.9804
Top-1 & score>0.1	389 / 565	95.9145	95.6311	94.3387	94.9600
Top-1 & score>0.09	389 / 585	95.7932	95.2667	94.3387	94.7375

表 11 (参考)英語文献を対象とするかわりに ASCII 文字だけで構成される文献のみを抽出して、同様に訓練データセットを構成し、10 分割交差検定を行った SVM 判別性能結果 (カーネルタイプは Linear を使用)

Training data set	True / False	Accuracy	Precision	Recall	F-measure
All	508 / 4433	99.2715	96.6639	96.2706	96.4367
Top-5 & score>0.28	433 / 428	97.3269	97.2925	97.463	97.3502
Top-3 & score>0.27	445 / 408	97.1819	97.5797	97.0657	97.2907
Top-3 & score>0.264	449 / 438	97.4093	97.3977	97.5505	97.4396
Top-1 & score>0.1	496 / 488	97.5582	97.427	97.7755	97.581
Top-1 & score>0.09	496 / 498	96.9828	96.4852	97.5714	96.992

C.5. リンケージの結果

F-値最大を導いた訓練データで SVM モデルを作成した。

KAKEN 英文文献と対応する WoS 文献書誌(出版年 2009, 2010)をペアとする Top-5 の候補に対し SVM モデルを用いて判別した。

- KAKEN 英文文献 : 173,940
- ペア候補 : 822,841
- 正判定書誌ペア : 75,042
- 書誌リンケージ率: 0.43142 (75042 / 173940)

D. 科研費研究分野と WoS サブジェクトエリアのマッピング

D.1. マッピングに用いるデータ

レコードリンケージの結果を対象とする。

- 書誌ペア : 75,042

書誌ペアのうち、科研費分科細目表(時限付細目を除く)および WoS サブジェクトエリアに対応がある場合を抽出した。

- マッピングでカウントされる書誌ペア : 59,595

D.2. 科研費研究分野と WoS サブジェクトエリアのマッピングテーブル

科研費研究分野（系・分野・分科・細目）の4階層と WoS サブジェクトエリアに対し、整数カウントと分数カウントの2カウント方法により、8通りの分割表を作成。

- 整数カウント総数：97,175

系	WoS subject areas												Water Resources	Women's Studies	Zoology
	Acoustics	Agricultural Economics & Policy	Agricultural Engineering	Agriculture, Dairy & Animal Science	Agriculture, Multidisciplinary	Agronomy	Allergy	Anatomy & Morphology	Andrology	Anesthesiology	Anthropology	Archaeology			
総合・新領域系	70	1	9	13	8	16	3	22	1	1	11	3	72	0	108
人文社会系	2	2	0	0	0	0	0	0	0	1	17	1	1	0	17
理工系	37	0	2	0	1	0	1	2	0	0	5	1	77	0	15
生物系	16	2	21	129	81	152	110	74	13	87	69	5	36	0	327

図 43 科研費研究分野(細目表-系)と WoS サブジェクトエリアで文献カウントした分割表の抜粋(整数カウント)

分野	WoS subject areas												Water Resources	Women's Studies	Zoology
	Acoustics	Agricultural Economics & Policy	Agricultural Engineering	Agriculture, Dairy & Animal Science	Agriculture, Multidisciplinary	Agronomy	Allergy	Anatomy & Morphology	Andrology	Anesthesiology	Anthropology	Archaeology			
総合領域	69	0	2	3	4	0	3	17	0	1	5	2	9	0	65
複合新領域	1	1	7	10	4	16	0	5	1	0	6	1	63	0	43
人文学	1	0	0	0	0	0	0	0	0	0	13	1	0	0	0
社会科学	1	2	0	0	0	0	0	0	0	1	4	0	1	0	17
数物系科学	4	0	0	0	0	0	0	1	0	0	1	0	6	0	10
化学	1	0	0	0	1	0	0	0	0	0	1	1	2	0	1
工学	32	0	2	0	0	0	1	1	0	0	3	0	69	0	4
生物学	0	0	1	4	1	8	0	22	2	0	69	5	1	0	195
農学	2	2	20	114	71	144	3	10	2	0	0	0	34	0	97
医歯薬学	14	0	0	11	9	0	107	42	9	87	0	0	1	0	35

図 44 科研費研究分野(細目表-分野)と WoS サブジェクトエリアで文献カウントした分割表の抜粋(整数カウント)

Integer counting	WoS subject areas	WoS subject areas											WoS subject areas			
		Acoustics	Agricultural Economics & Policy	Agricultural Engineering	Agriculture, Dairy & Animal Science	Agriculture, Multidisciplinary	Agronomy	Allergy	Anatomy & Morphology	Andrology	Anesthesiology	Anthropology	Archaeology	Water Resources	Women's Studies	Zoology
分科																
情報学		59	0	0	0	0	0	0	0	0	0	0	0	0	0	27
神経科学		0	0	0	1	0	0	2	11	0	1	0	0	0	0	19
実験動物学		0	0	0	1	0	0	0	0	0	0	0	0	0	0	14
人間工医学		10	0	0	0	0	0	0	1	0	0	0	0	1	0	2
健康・スポーツ科学		0	0	0	0	0	0	1	4	0	0	4	0	0	0	2
生活科学		0	0	0	1	4	0	0	1	0	0	0	0	0	0	0
科学教育・教育工学		0	0	2	0	0	0	0	0	0	0	0	0	1	0	1
科学社会学・科学技術史		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
文化財科学		0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
外科系臨床医学		10	0	0	4	0	0	6	11	7	66	0	1	0	0	3
歯学		0	0	0	1	0	0	9	19	0	11	0	0	0	0	7
看護学		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

図 45 科研費研究分野(細目表・分科)と WoS サブジェクトエリアで文献カウントした分割表の抜粋(整数カウント)

Integer counting	WoS subject areas	WoS subject areas											WoS subject areas			
		Acoustics	Agricultural Economics & Policy	Agricultural Engineering	Agriculture, Dairy & Animal Science	Agriculture, Multidisciplinary	Agronomy	Allergy	Anatomy & Morphology	Andrology	Anesthesiology	Anthropology	Archaeology	Water Resources	Women's Studies	Zoology
細目																
1001:情報学基礎		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1002:ソフトウェア		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1003:計算機システム・ネットワーク		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1004:メディア情報学・データベース		5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1005:知能情報学		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1006:知覚情報処理・知能ロボティクス		38	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1007:感性情報学・ソフトコンピューティング		9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1008:図書館情報学・人文社会情報学		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1008:情報図書館学・人文社会情報学		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7502:臨床看護学		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7503:生涯発達看護学		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7504:地域・老年看護学		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

図 46 科研費研究分野(細目表・細目)と WoS サブジェクトエリアで文献カウントした分割表の抜粋(整数カウント)

● 分数カウント総数 : 59,595

系	Fractional counting								WoS subject areas	
	Acoustics	Agricultural Economics & Policy	Agricultural Engineering	Agriculture, Dairy & Animal Science	Agriculture, Multidisciplinary	Agronomy	Allergy	Women's Studies	Zoology	
総合・新領域系	30.33	0.50	4.50	9.50	4.00	6.67	1.50	0.00	61.75	
人文社会系	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	9.87	
理工系	18.00	0.00	0.67	0.00	0.33	0.00	1.00	0.00	11.17	
生物系	7.50	1.00	10.33	89.00	54.50	81.75	52.00	0.00	233.83	

図 47 科研費研究分野(細目表-系)と WoS サブジェクトエリアで文献カウントした分割表の抜粋(分数カウント)

分野	Fractional counting								WoS subject areas	
	Acoustics	Agricultural Economics & Policy	Agricultural Engineering	Agriculture, Dairy & Animal Science	Agriculture, Multidisciplinary	Agronomy	Allergy	Anatomy & Morphology	Women's Studies	Zoology
総合領域	29.83	0.00	0.67	2.00	1.33	0.00	1.50	8.67	0.00	32.50
複合新領域	0.50	0.50	3.83	7.50	2.67	6.67	0.00	2.50	0.00	29.25
人文学	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
社会科学	0.50	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.87
数物系科学	2.33	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	8.50
化学	0.50	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.50
工学	15.17	0.00	0.67	0.00	0.00	0.00	1.00	0.33	0.00	2.17
生物学	0.00	0.00	0.50	2.83	0.33	3.17	0.00	13.00	0.00	149.00
農学	1.00	1.00	9.83	80.17	51.17	78.58	1.50	5.50	0.00	68.25
医歯薬学	6.50	0.00	0.00	6.00	3.00	0.00	50.50	25.50	0.00	16.58

図 48 科研費研究分野(細目表-分野)と WoS サブジェクトエリアで文献カウントした分割表の抜粋(分数カウント)

分科	WoS subject areas									Fractional counting	
	Acoustics	Agricultural Economics & Policy	Agricultural Engineering	Agriculture, Dairy & Animal Science	Agriculture, Multidisciplinary	Agronomy	Allergy	Anatomy & Morphology		Women's Studies	Zoology
情報学	25.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.33
神経科学	0.00	0.00	0.00	1.00	0.00	0.00	1.00	5.83	0.00	0.00	9.50
実験動物学	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	7.50
人間医工学	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.83
健康・スポーツ科学	0.00	0.00	0.00	0.00	0.00	0.00	0.50	2.00	0.00	0.00	0.83
生活科学	0.00	0.00	0.00	0.50	1.33	0.00	0.00	0.50	0.00	0.00	0.00
科学教育・教育工学	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
科学社会学・科学技術史	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
文化財科学	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
外科系臨床医学	4.50	0.00	0.00	2.00	0.00	0.00	3.00	6.00	4.00	0.00	1.33
歯学	0.00	0.00	0.00	1.00	0.00	0.00	3.00	13.17	0.00	0.00	2.50
看護学	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

図 49 科研費研究分野(細目表・分科)と WoS サブジェクトエリアで文献カウントした分割表の抜粋(分数カウント)

細目	WoS subject areas									Fractional counting	
	Acoustics	Agricultural Economics & Policy	Agricultural Engineering	Agriculture, Dairy & Animal Science	Agriculture, Multidisciplinary	Agronomy				Women's Studies	Zoology
1001:情報学基礎	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1002:ソフトウェア	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1003:計算機システム・ネットワーク	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1004:メディア情報学・データベース	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1005:知能情報学	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1006:知覚情報処理・知能ロボティクス	15.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1007:感性情報学・ソフトコンピューティング	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1008:図書館情報学・人文社会情報学	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1008:情報図書館学・人文社会情報学	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7502:臨床看護学	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7503:生涯発達看護学	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7504:地域・老年看護学	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

図 50 科研費研究分野(細目表・細目)と WoS サブジェクトエリアで文献カウントした分割表の抜粋(分数カウント)

D.3. 科研費研究分野の周辺分布

D.3.1. 整数カウント

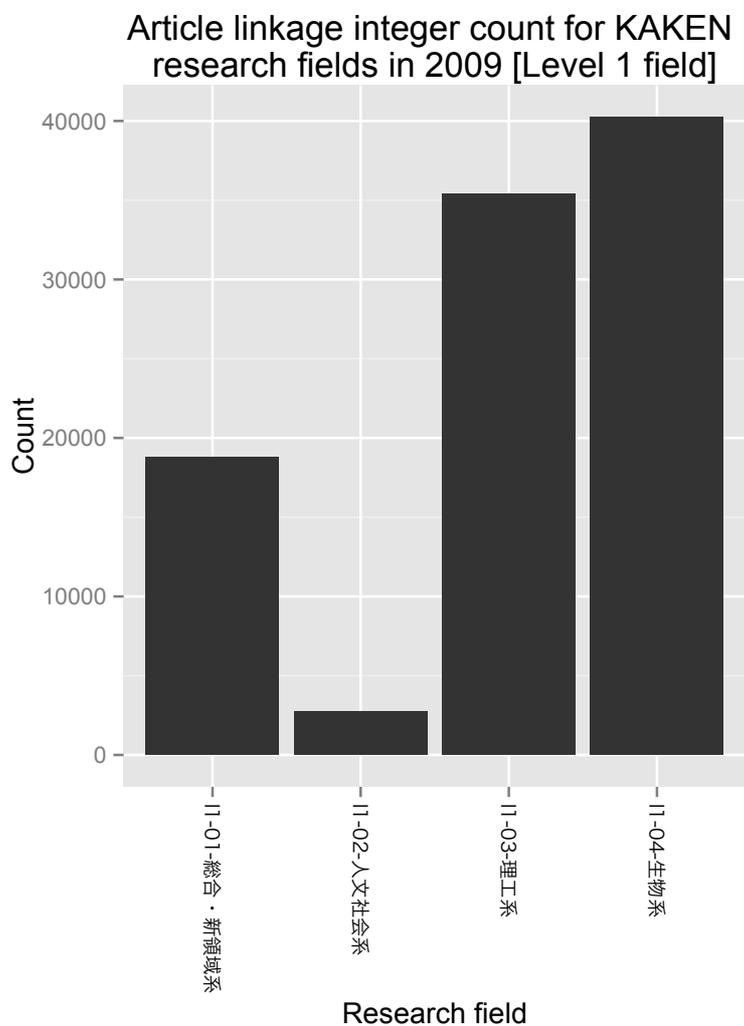


図 51 科研費研究分野(細目表-系)と WoS サブジェクトエリアで文献カウントした分割表(整数カウント)の科研費研究分野(細目表-系)の周辺分布

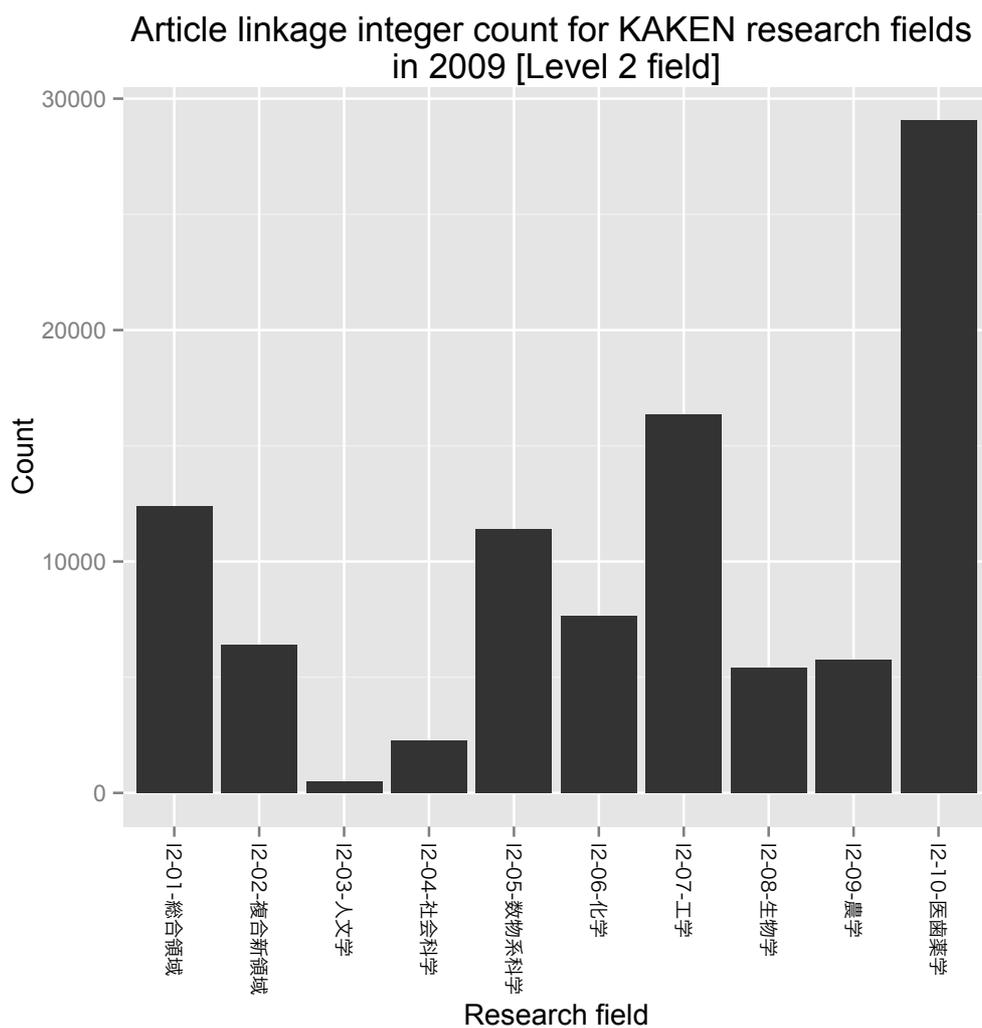


図 52 科研費研究分野(細目表-分野)と WoS サブジェクトエリアで文献カウントした分割表(整数カウント)の科研費研究分野(細目表-分野)の周辺分布

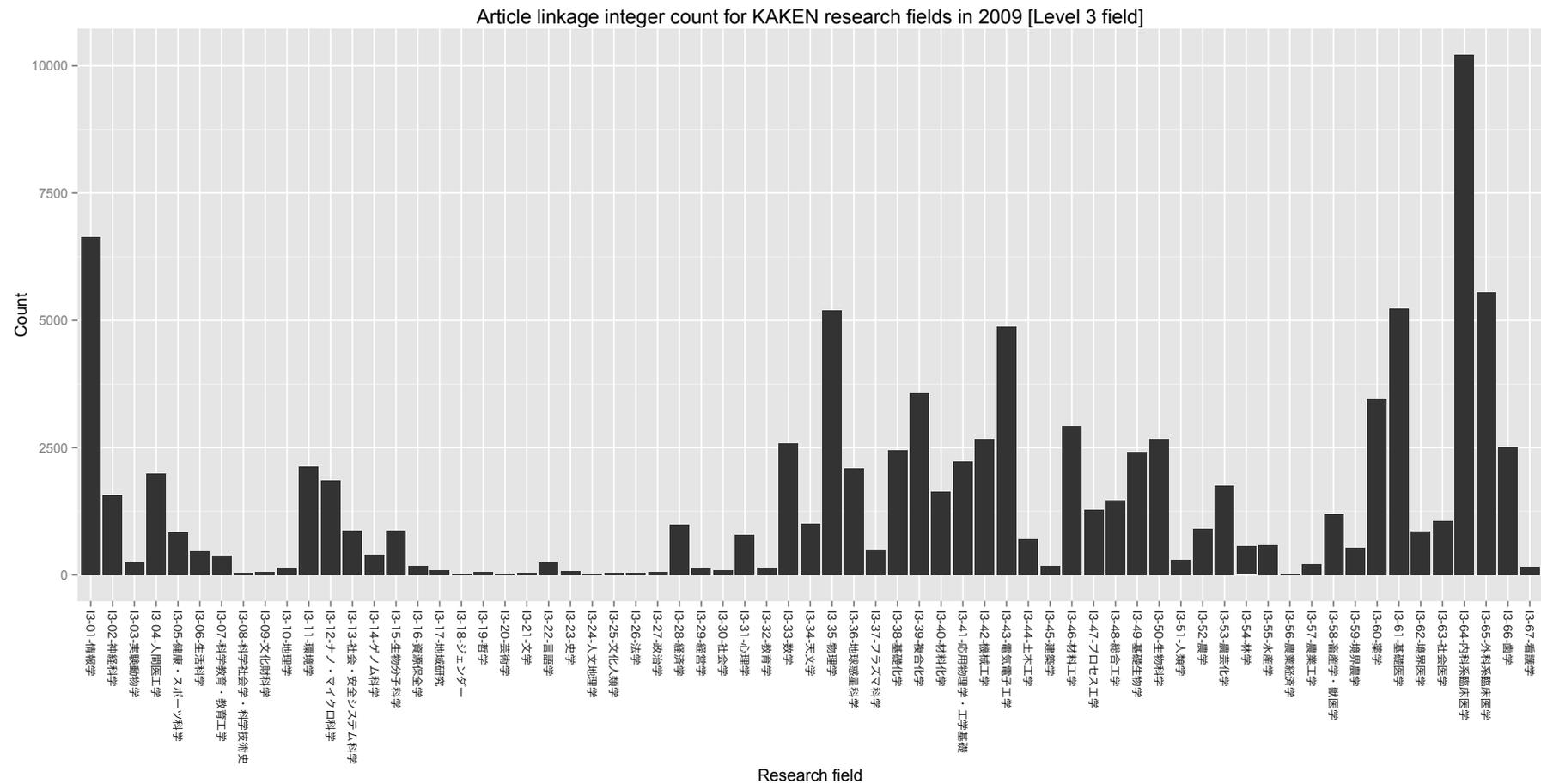


図 53 科研費研究分野(細目表-分科)と WoS サブジェクトエリアで文献カウントした分割表(整数カウント)の科研費研究分野(細目表-分科)の周辺分布

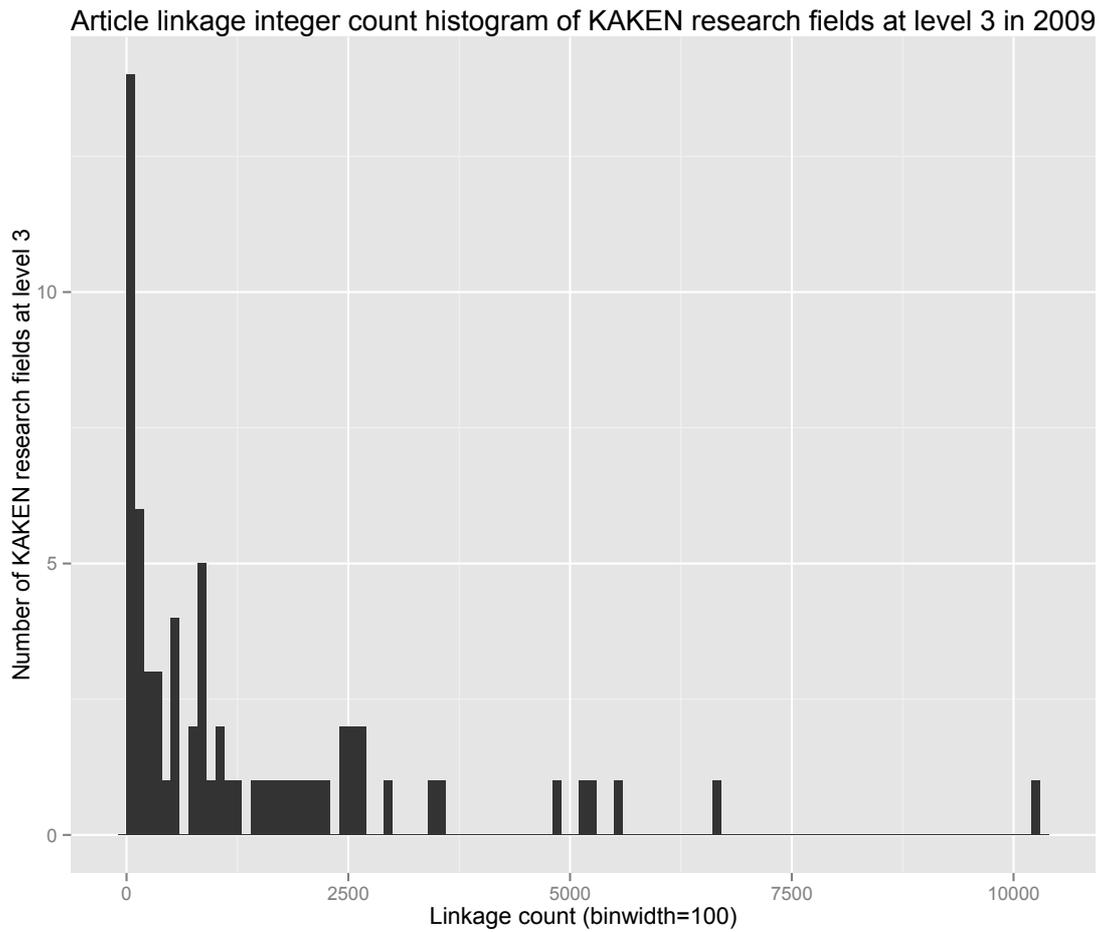


図 54 科研費研究分野(細目表-分科)と WoS サブジェクトエリアで文献カウントした分割表(整数カウント)の科研費研究分野(細目表-分科)周辺分布における分野別カウント数のヒストグラム

(余白ページ)

Article linkage integer count for KAKEN research fields in 2009 [1/2]

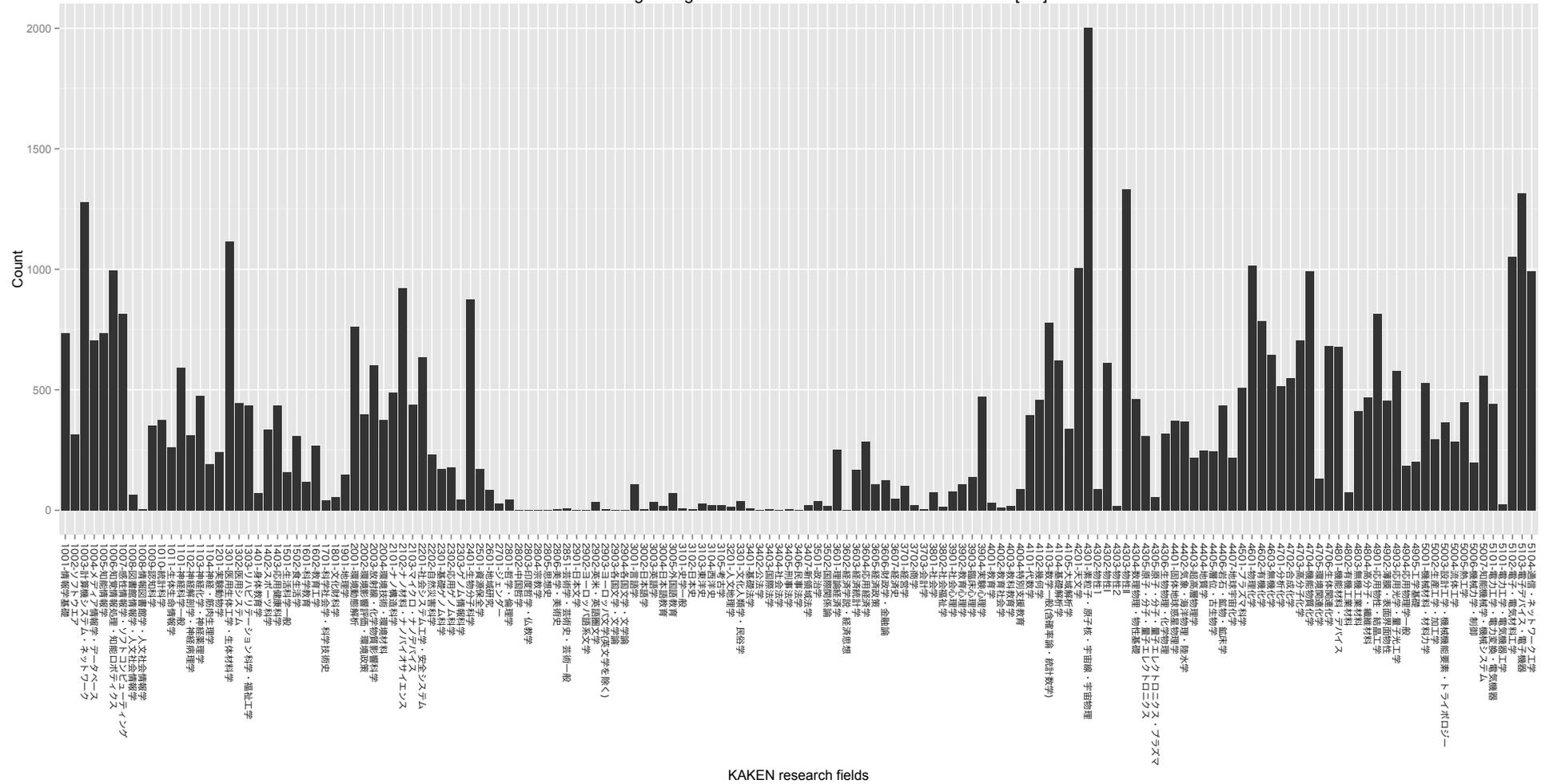


図 55 科研費研究分野(細目表-細目)と WoS サブジェクトエリアで文献カウントした分割表(整数カウント)の科研費研究分野(細目表-細目)の周辺分布(1/2)

Article linkage integer count for KAKEN research fields in 2009 [2/2]

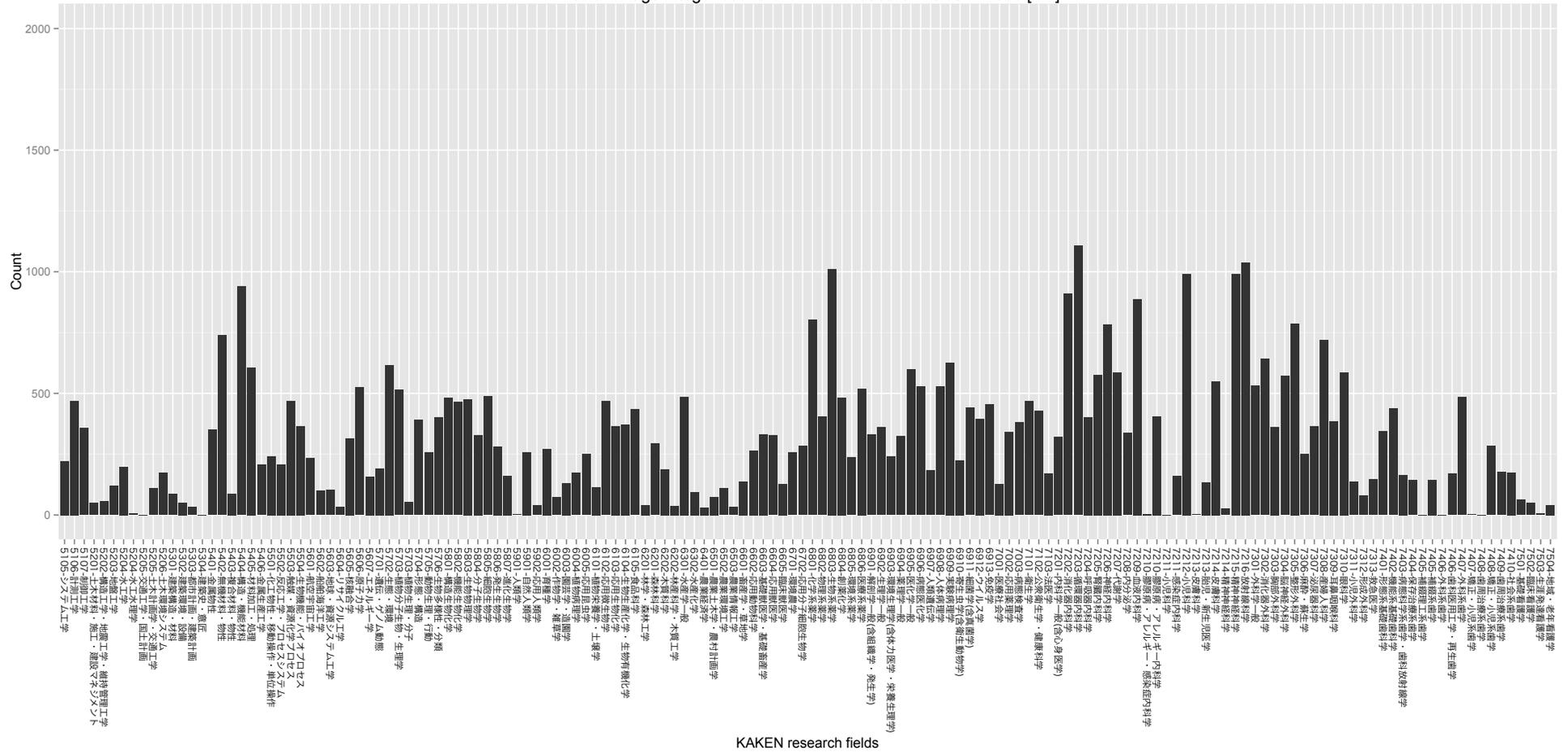


図 56 科研費研究分野(細目表-細目)と WoS サブジェクトエリアで文献カウントした分割表(整数カウント)の科研費研究分野(細目表-細目)の周辺分布(2/2)

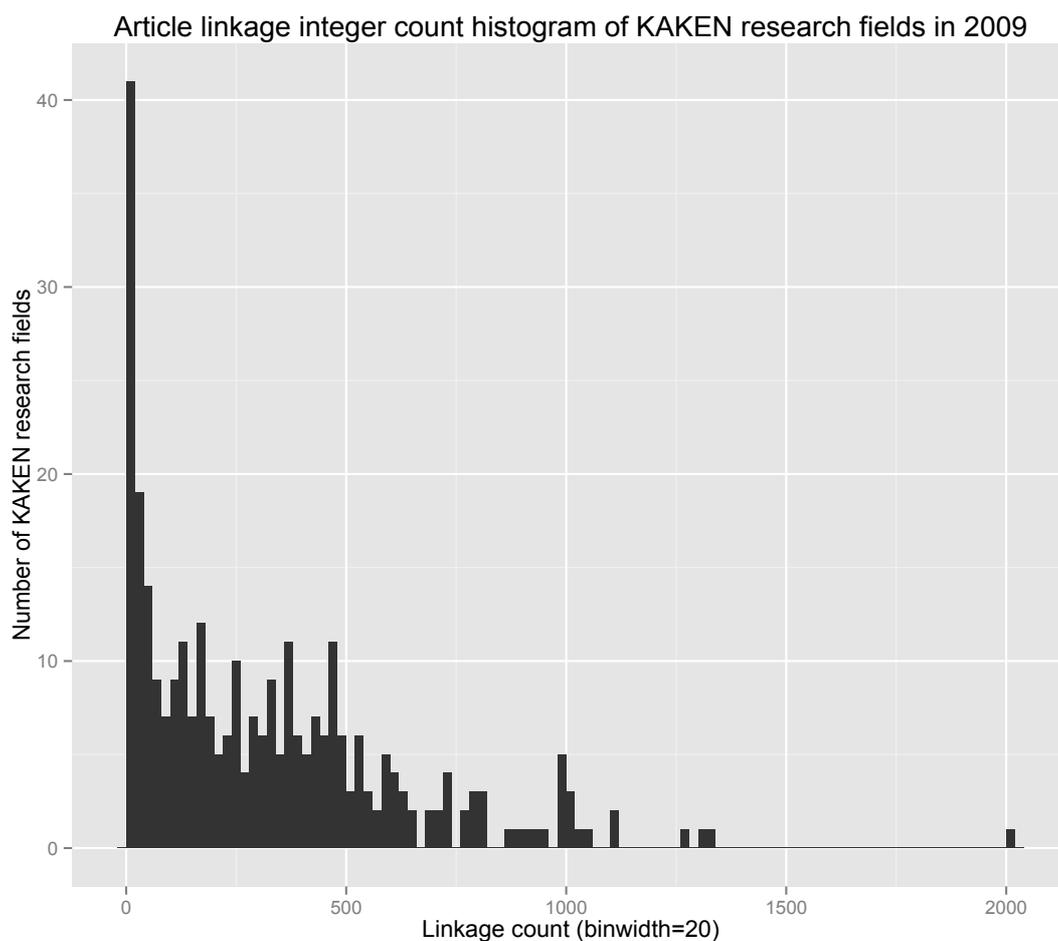


図 57 科研費研究分野(細目表-細目)と WoS サブジェクトエリアで文献カウントした分割表(整数カウント)の科研費研究分野(細目表-細目)周辺分布の分野別カウント数のヒストグラム

D.3.2. 分数カウント

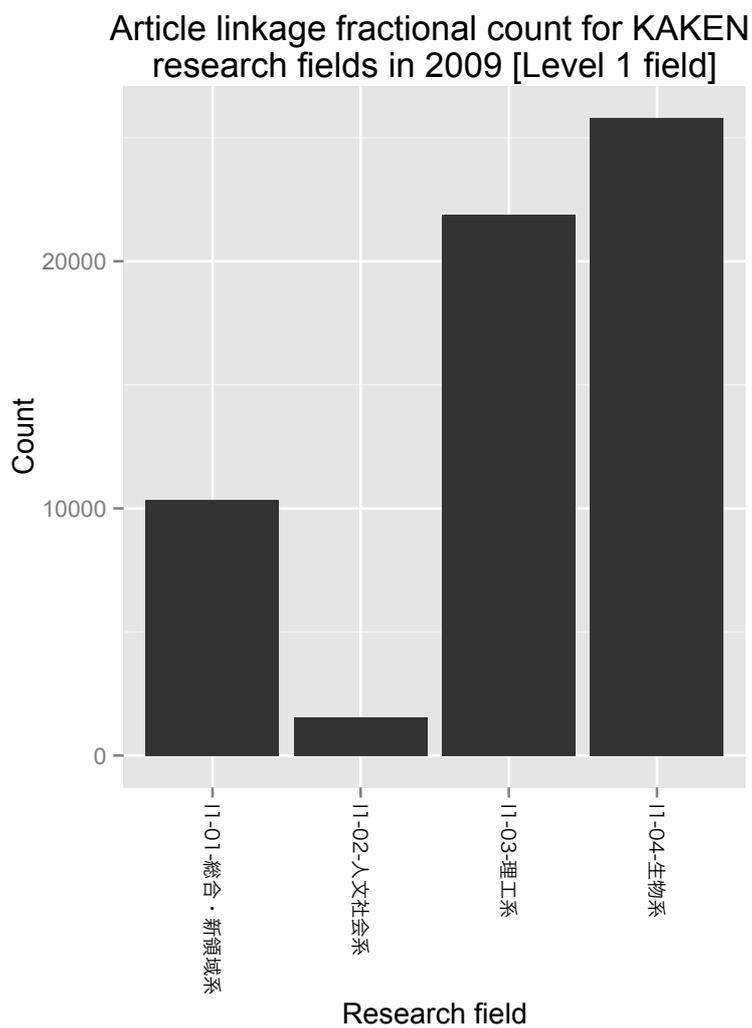


図 58 科研費研究分野(細目表-系)と WoS サブジェクトエリアで文献カウントした分割表(分数カウント)の科研費研究分野(細目表-系)の周辺分布

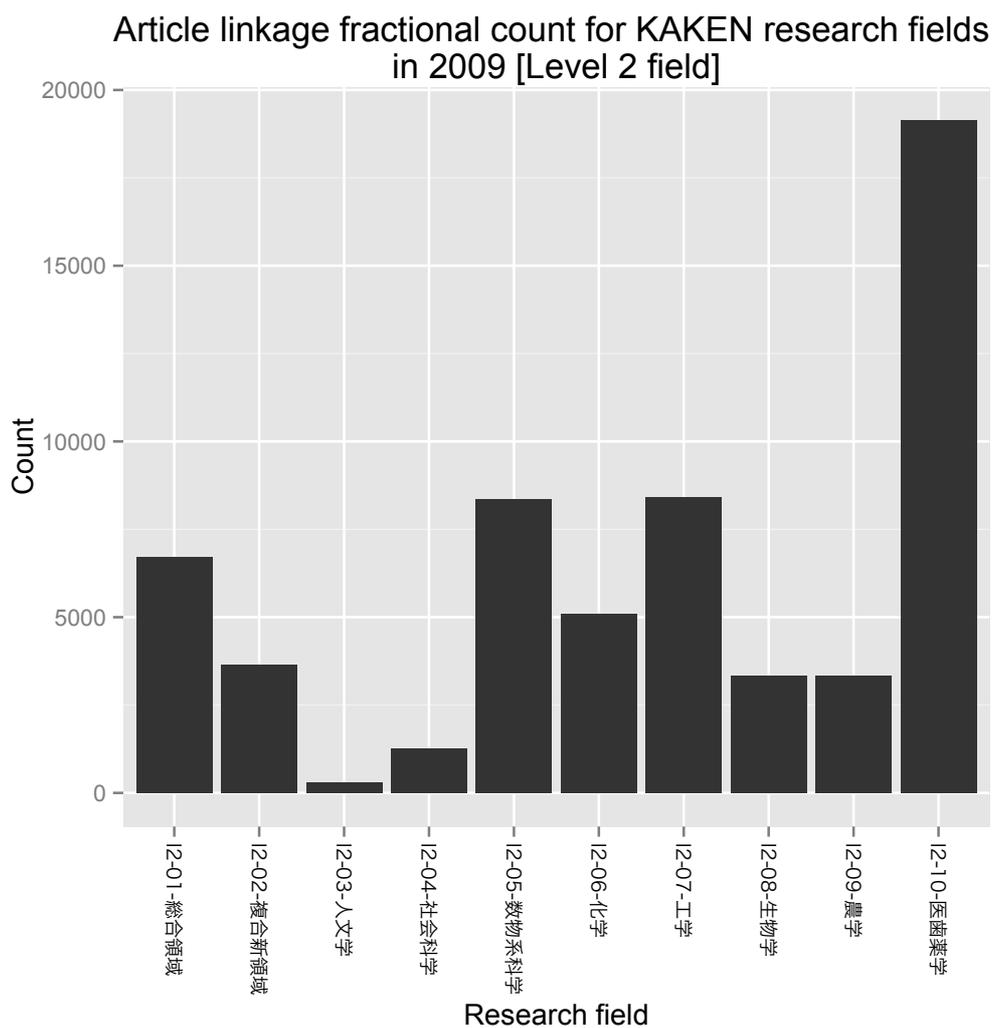


図 59 科研費研究分野(細目表-分野)と WoS サブジェクトエリアで文献カウントした分割表(分数カウント)の科研費研究分野(細目表-分野)の周辺分布

Article linkage fractional count for KAKEN research fields in 2009 [Level 3 field]

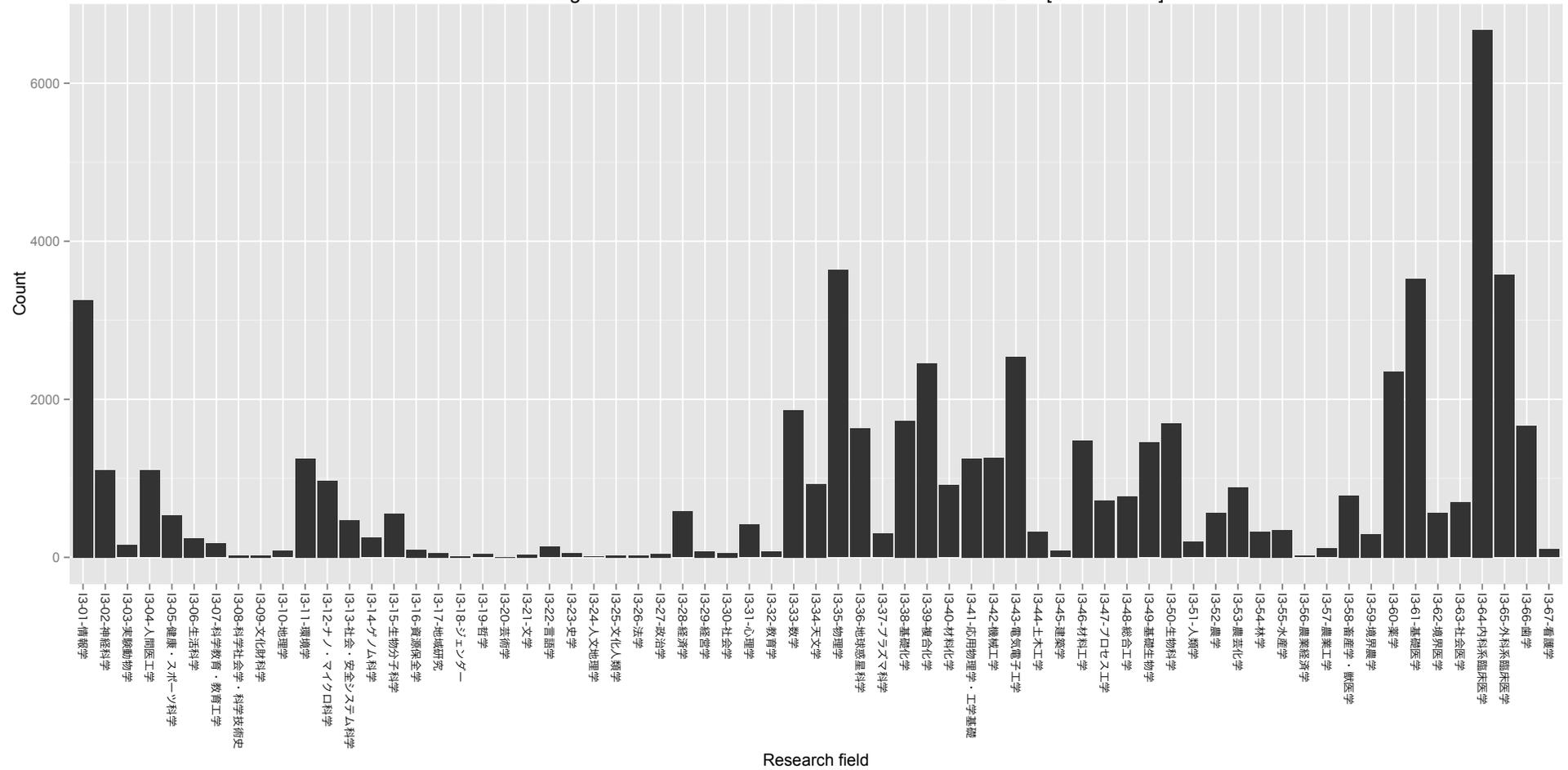
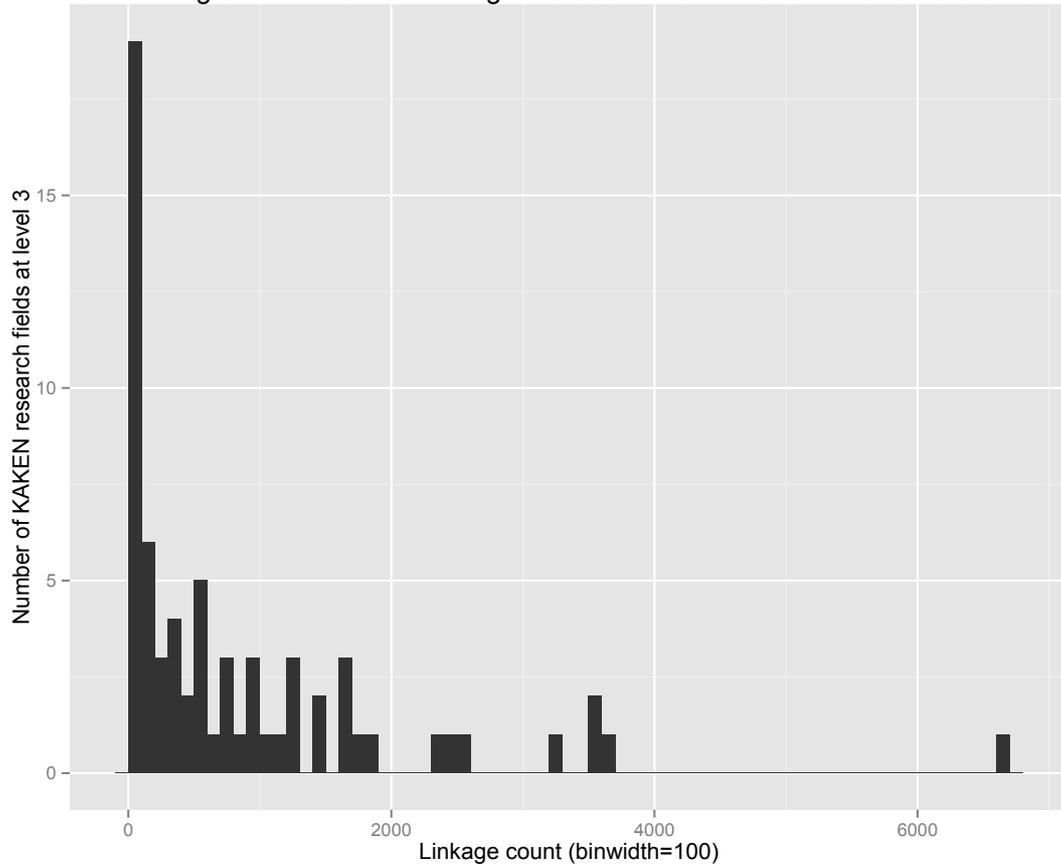


図 60 科研費研究分野(細目表-分科)と WoS サブジェクトエリアで文献カウントした分割表(分数カウント)の科研費研究分野(細目表-分科)の周辺分布

Article linkage fractional count histogram of KAKEN research fields at level 3 in 2009



Min. 1st Qu. Median Mean 3rd Qu. Max.
 5.00 81.96 467.90 889.40 1251.00 6672.00

図 61 科研費研究分野(細目表-分科)と WoS サブジェクトエリアで文献カウントした分割表(分数カウント)の科研費研究分野(細目表-分科)周辺分布における分野別カウント数のヒストグラム

(余白ページ)

Article linkage fractional count for KAKEN research fields in 2009 [1/2]

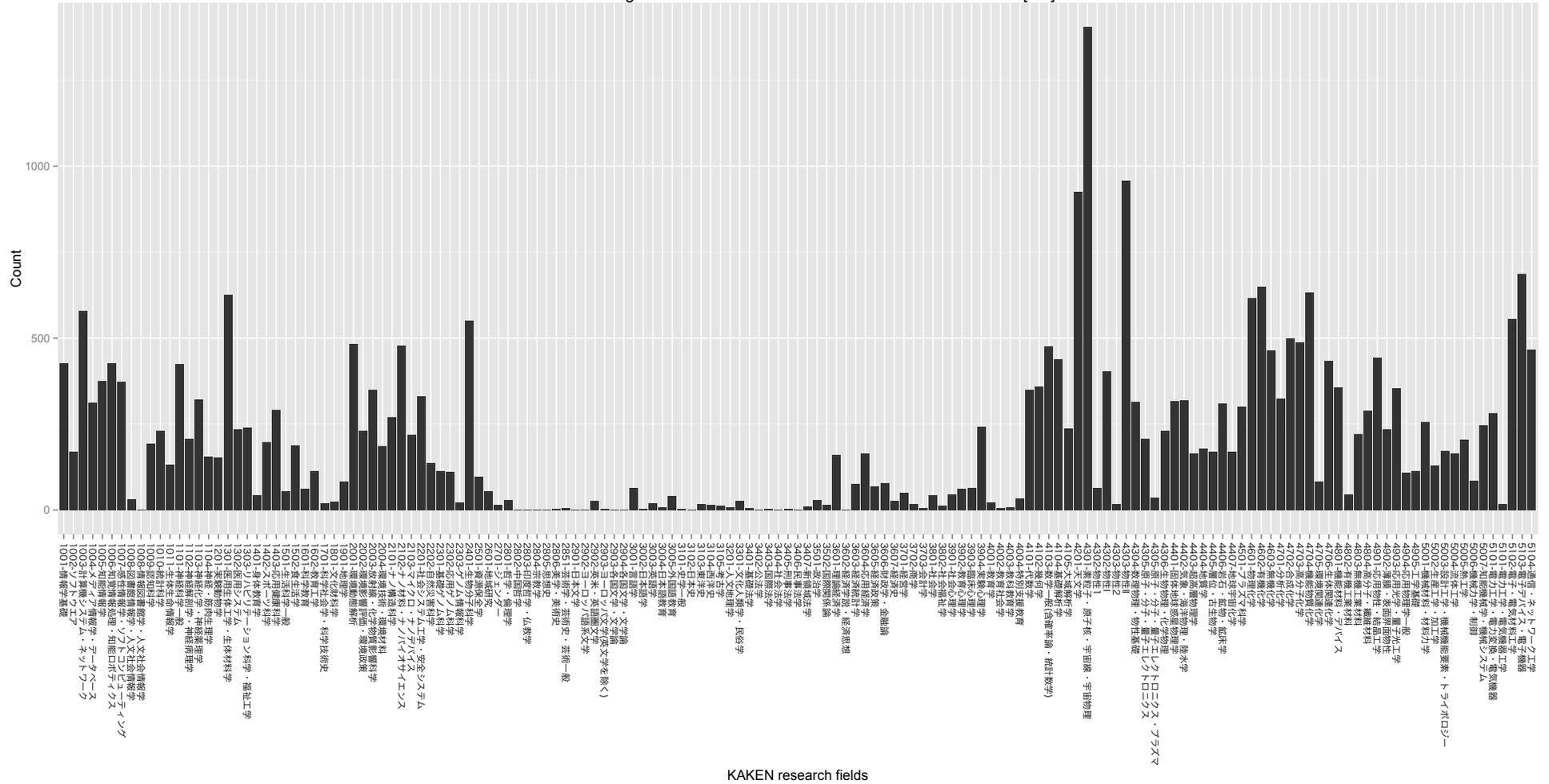


図 62 科研費研究分野(細目表-細目)と WoS サブジェクトエリアで文献カウントした分割表(分数カウント)の科研費研究分野(細目表-細目)の周辺分布(1/2)

Article linkage fractional count for KAKEN research fields in 2009 [2/2]

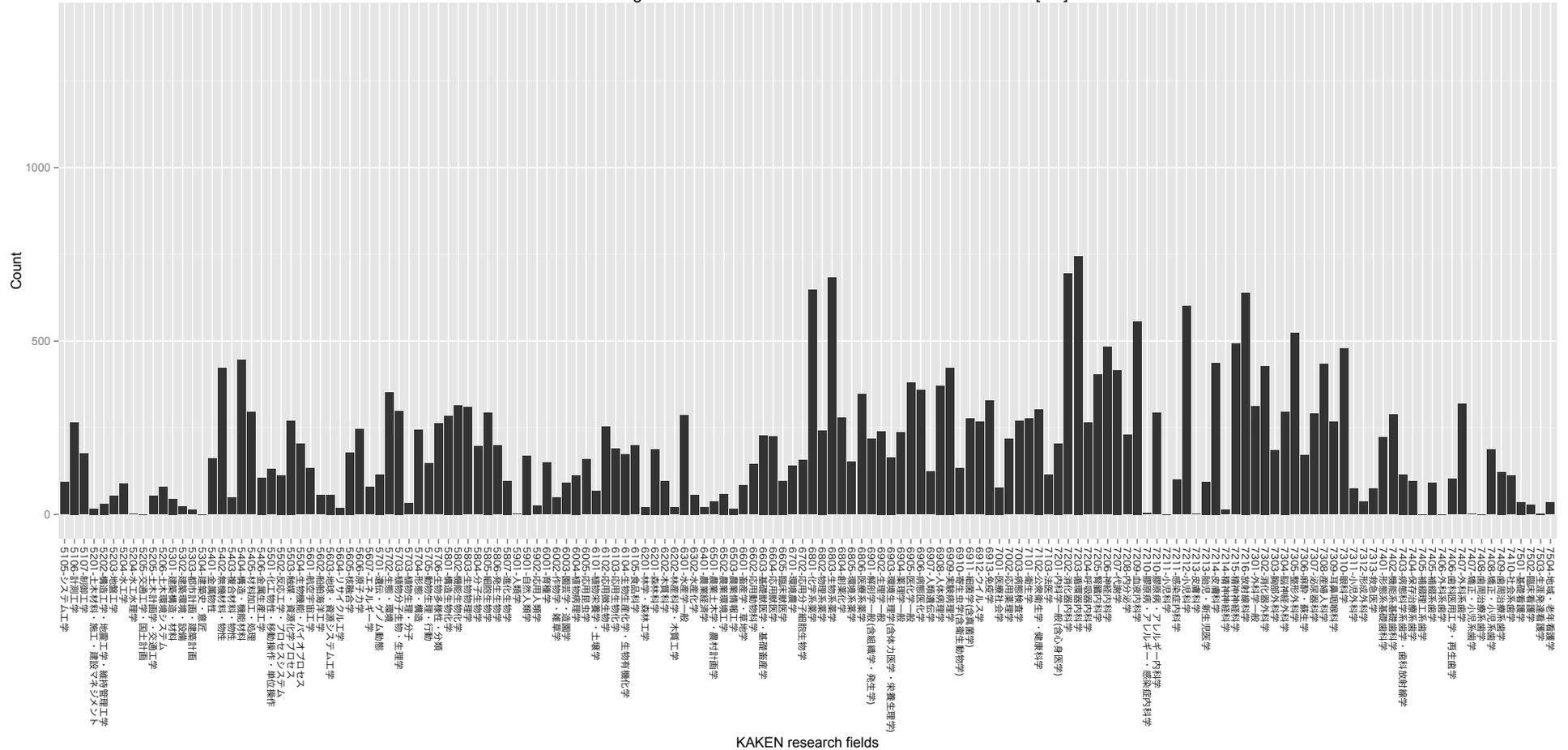
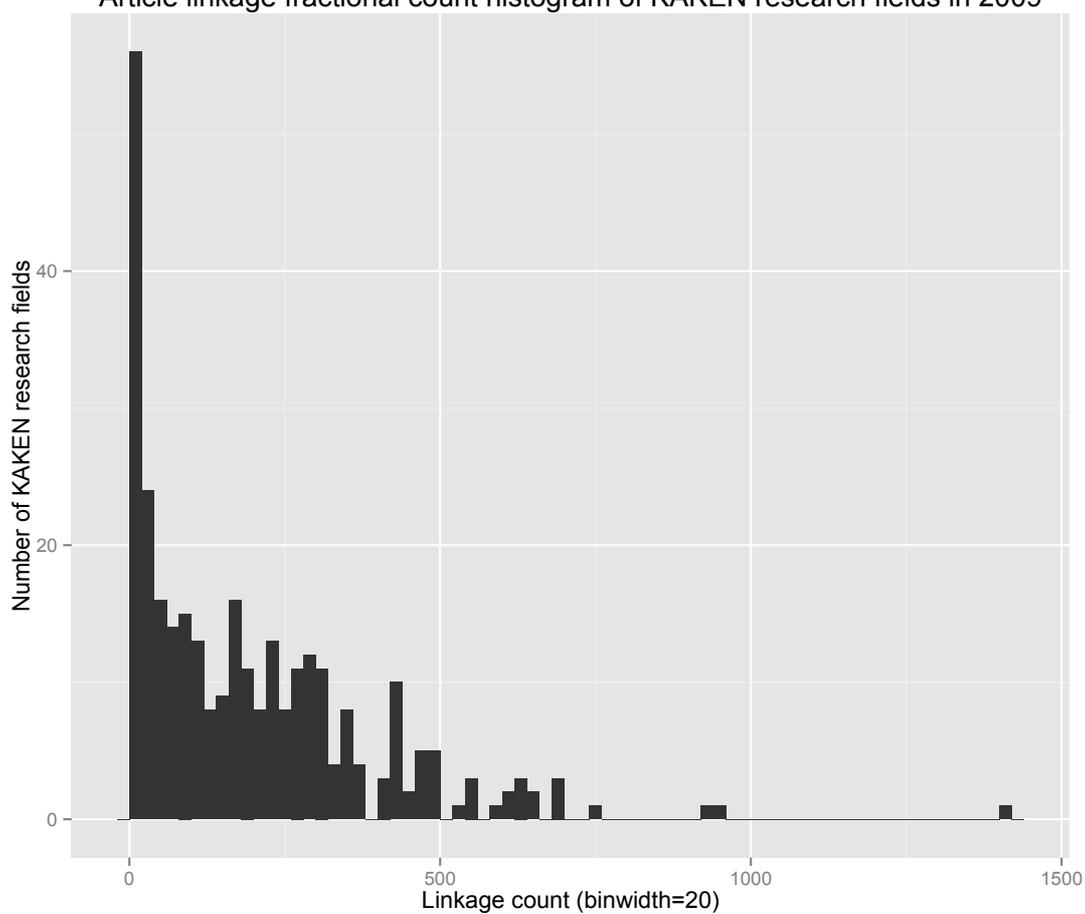


図 63 科研費研究分野(細目表-細目)と WoS サブジェクトエリアで文献カウントした分割表(分数カウント)の科研費研究分野(細目表-細目)の周辺分布(2/2)

Article linkage fractional count histogram of KAKEN research fields in 2009



Min. 1st Qu. Median Mean 3rd Qu. Max.
 0.00 36.99 155.00 195.40 291.00 1404.00

図 64 科研費研究分野(細目表-細目)と WoS サブジェクトエリアで文献カウントした分割表(分数カウント)の科研費研究分野(細目表-細目)周辺分布の分野別カウント数のヒストグラム

(余白ページ)

D.4. WoS サブジェクトエリアの周辺分布

D.4.1. 整数カウント

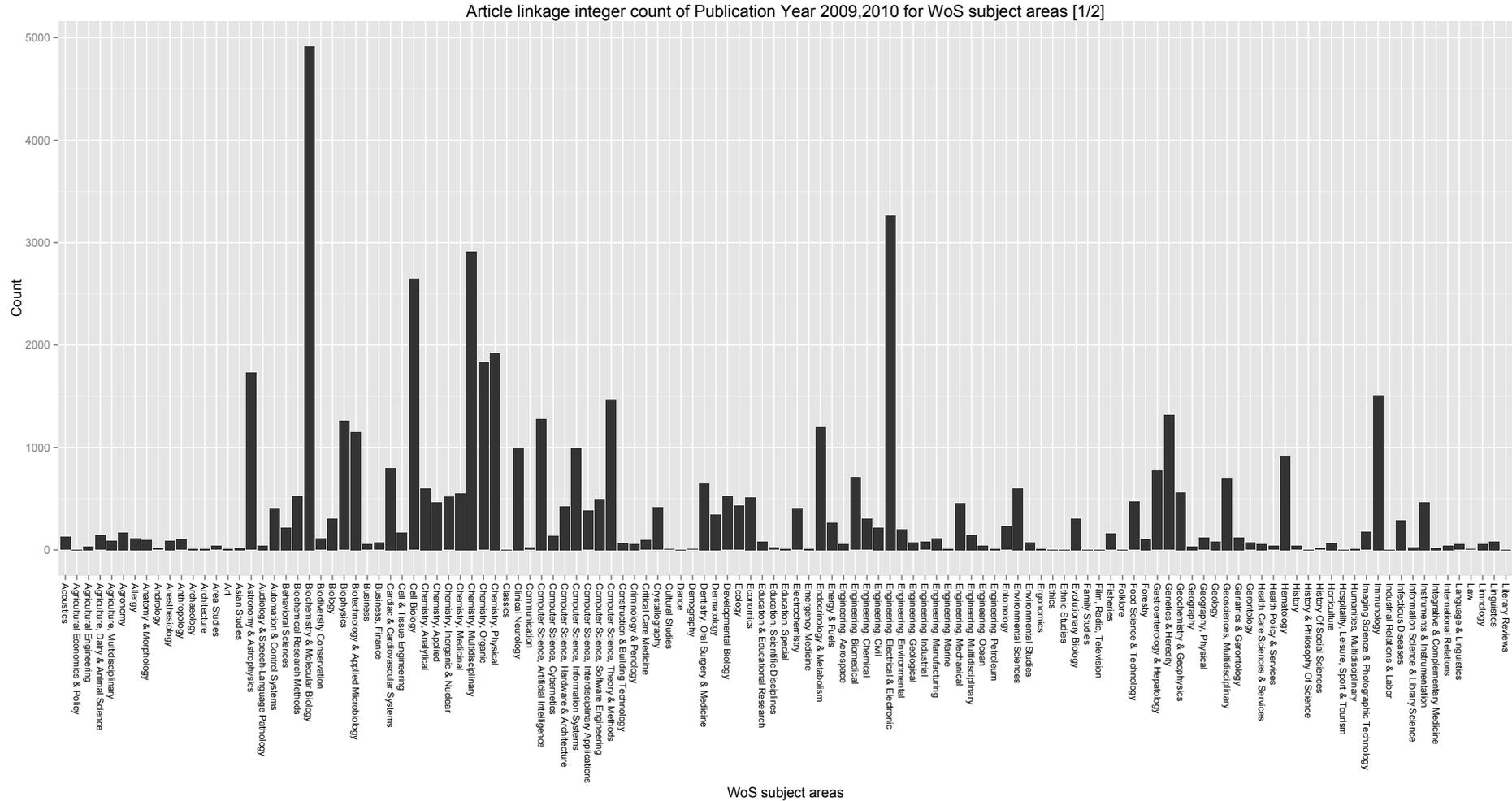


図 65 科研費研究分野と WoS サブジェクトエリアで文献カウントした分割表(整数カウント)の WoS サブジェクトエリアの周辺分布(1/2)

Article linkage integer count of Publication Year 2009,2010 for WoS subject areas [2/2]

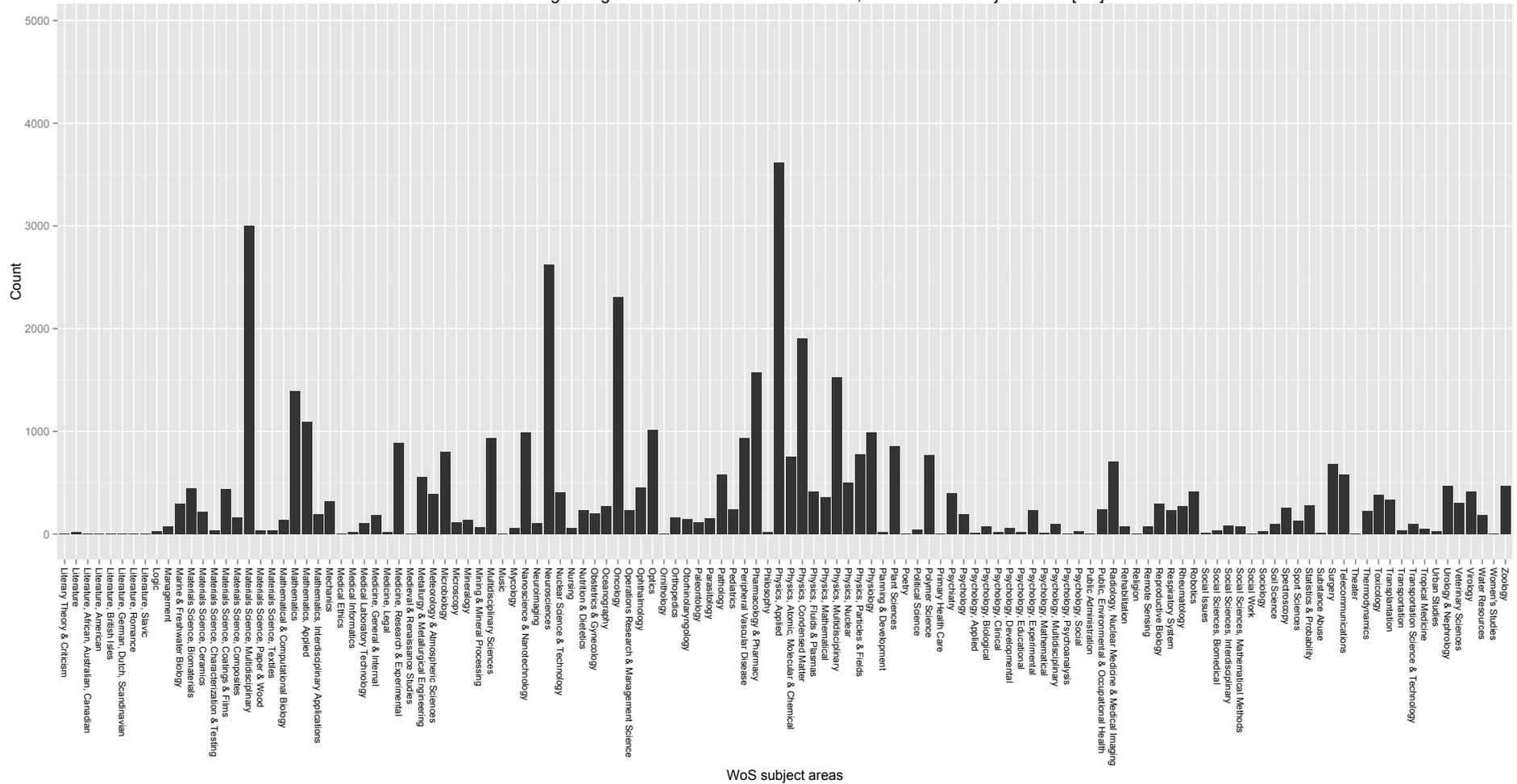
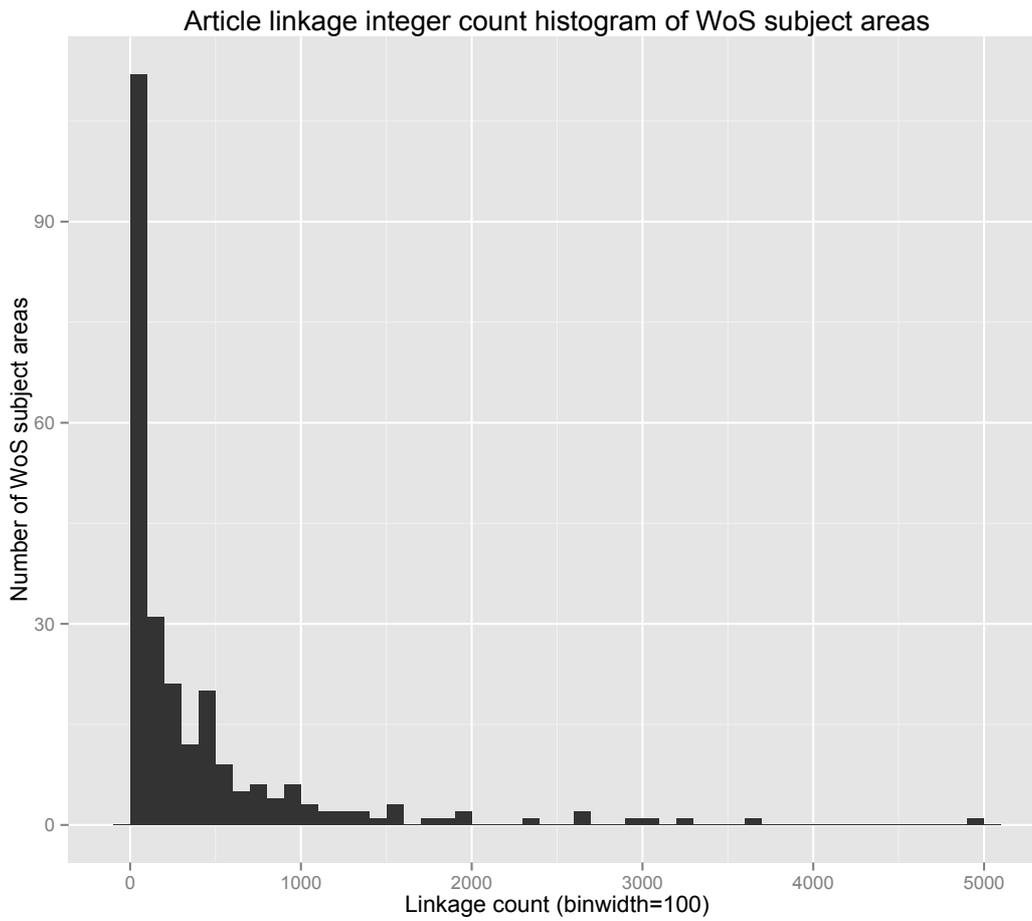


図 66 科研費研究分野と WoS サブジェクトエリアで文献カウントした分割表(整数カウント)の WoS サブジェクトエリアの周辺分布(2/2)



Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
0.0	25.5	127.0	387.2	453.5	4917.0

図 67 科研費研究分野と WoS サブジェクトエリアで文献カウントした分割表(整数カウント)の WoS サブジェクトエリア周辺分布のサブジェクトエリア別文献カウント数のヒストグラム

(余白ページ)

Article linkage fractional count of Publication Year 2009,2010 for WoS subject areas [2/2]

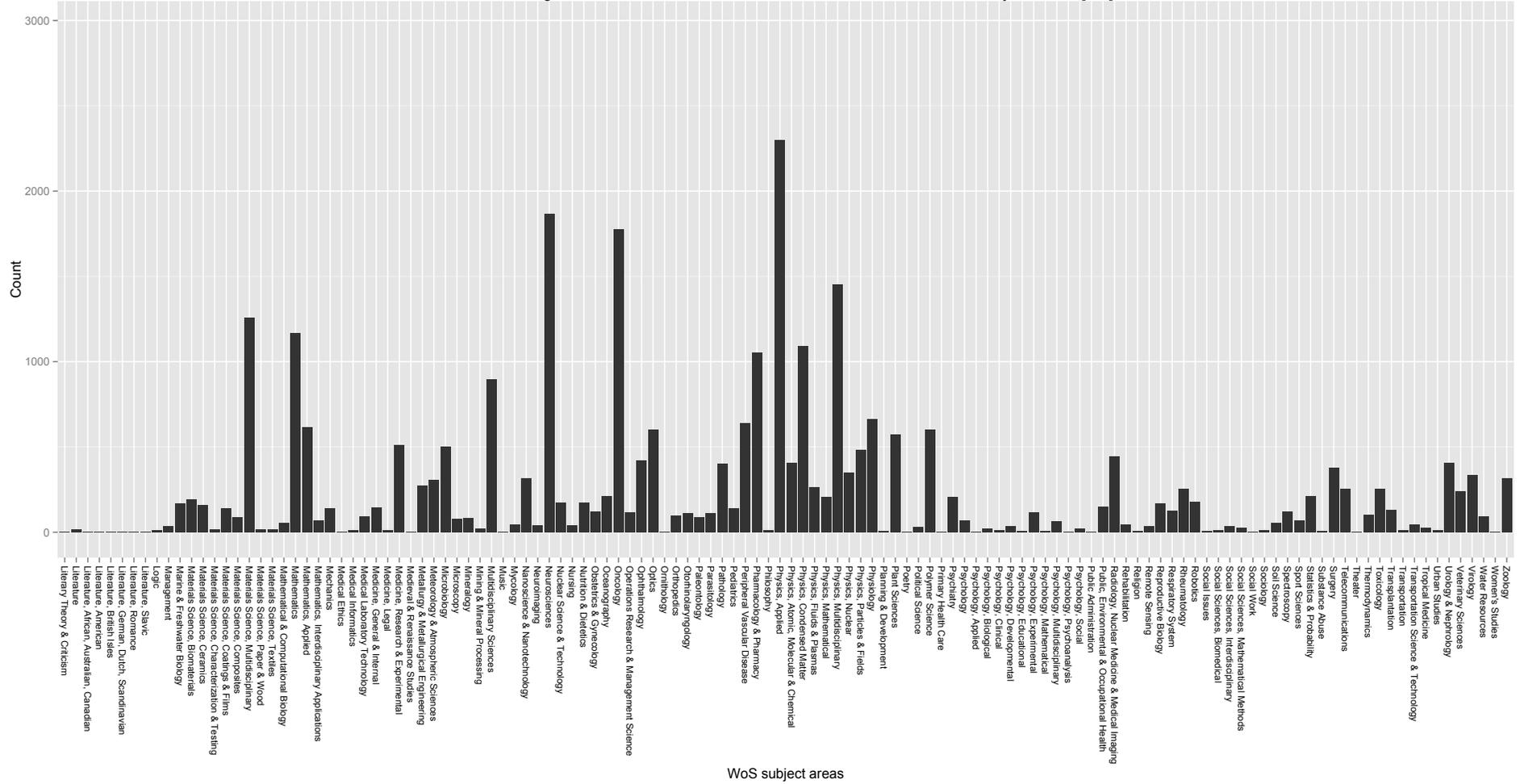


図 69 科研費研究分野と WoS サブジェクトエリアで文献カウントした分割表(分数カウント)の WoS サブジェクトエリアの周辺分布(2/2)

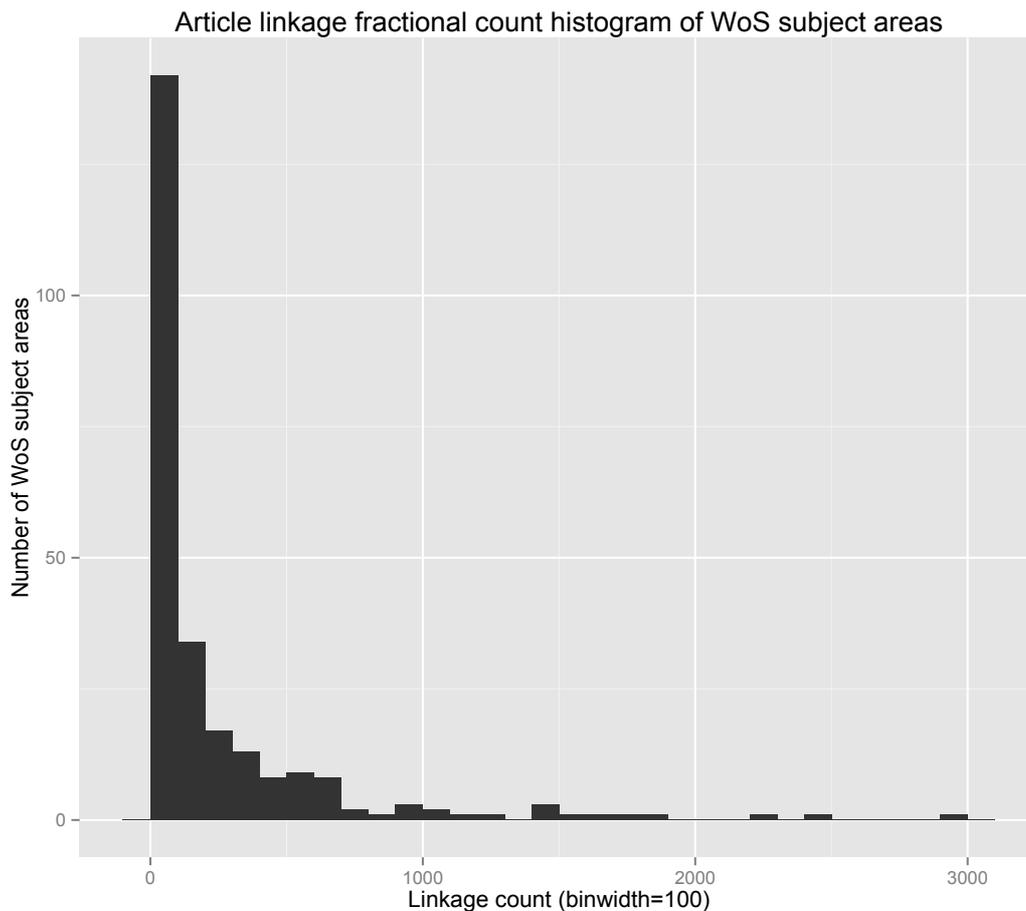


図 70 科研費研究分野と WoS サブジェクトエリアで文献カウントした分割表(分数カウント)の WoS サブジェクトエリア周辺分布のサブジェクトエリア別文献カウント数のヒストグラム

D.5. 科研費研究分野ごとの WoS サブジェクトエリアの密度分布

D.5.1. 整数カウント

D.5.1.1. 系

表 12 科研費研究分野(細目表-系)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (1/2)

系 総合・新領域系			人文社会系		
Integer Counts		18798			2740
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Engineering, Electrical & Electronic	6.50%	1	Economics	16.09%
2	Computer Science, Theory & Methods	6.41%	2	Neurosciences	5.80%
3	Computer Science, Artificial Intelligence	5.23%	3	Psychology, Experimental	5.36%
4	Neurosciences	4.72%	4	Psychology	3.83%
5	Computer Science, Information Systems	4.18%	5	Linguistics	2.59%
6	Biochemistry & Molecular Biology	3.57%	6	Social Sciences, Mathematical Methods	2.34%
7	Computer Science, Software Engineering	2.31%	7	Mathematics, Interdisciplinary Applications	2.01%
8	Physics, Applied	2.30%	8	Business, Finance	1.97%
9	Chemistry, Multidisciplinary	2.14%	9	Psychology, Multidisciplinary	1.93%
10	Physiology	1.72%	10	Mathematics, Applied	1.86%
11	Materials Science, Multidisciplinary	1.67%	11	Language & Linguistics	1.72%
12	Cell Biology	1.67%	12	Operations Research & Management Science	1.72%
13	Engineering, Biomedical	1.57%	13	Computer Science, Artificial Intelligence	1.68%
14	Computer Science, Hardware & Architecture	1.55%	14	Management	1.57%
15	Mathematics, Applied	1.55%	15	Psychology, Biological	1.53%
16	Environmental Sciences	1.48%	16	Statistics & Probability	1.46%
17	Chemistry, Organic	1.43%	17	Political Science	1.42%
18	Biotechnology & Applied Microbiology	1.31%	18	Business	1.39%
19	Pharmacology & Pharmacy	1.22%	19	Education & Educational Research	1.39%
20	Robotics	1.18%	20	Psychiatry	1.35%
21	Chemistry, Physical	1.18%	21	Psychology, Developmental	1.35%
22	Nanoscience & Nanotechnology	1.17%	22	Behavioral Sciences	1.31%
23	Telecommunications	1.16%	23	Computer Science, Interdisciplinary Applications	1.24%
24	Computer Science, Interdisciplinary Applications	1.05%	24	Environmental Studies	1.24%
25	Genetics & Heredity	1.02%	25	Engineering, Electrical & Electronic	1.20%
26	Physics, Condensed Matter	0.95%	26	History	1.20%
27	Endocrinology & Metabolism	0.94%	27	International Relations	1.20%
28	Geosciences, Multidisciplinary	0.93%	28	Physiology	1.20%
29	Radiology, Nuclear Medicine & Medical Imaging	0.88%	29	Computer Science, Theory & Methods	1.06%
30	Automation & Control Systems	0.84%	30	Area Studies	1.02%
31	Optics	0.82%	31	Clinical Neurology	1.02%
32	Biophysics	0.81%	32	Urban Studies	0.88%
33	Multidisciplinary Sciences	0.77%	33	Literature	0.77%
34	Meteorology & Atmospheric Sciences	0.73%	34	Social Sciences, Interdisciplinary	0.69%
35	Operations Research & Management Science	0.72%	35	Computer Science, Information Systems	0.66%
36	Chemistry, Analytical	0.66%	36	Psychology, Social	0.66%
37	Chemistry, Medicinal	0.66%	37	Public, Environmental & Occupational Health	0.66%
38	Biochemical Research Methods	0.65%	38	Anthropology	0.62%
39	Clinical Neurology	0.65%	39	Environmental Sciences	0.62%
40	Oncology	0.63%	40	Zoology	0.62%
41	Statistics & Probability	0.63%	41	Engineering, Industrial	0.58%
42	Oceanography	0.63%	42	Mathematics	0.58%
43	Ecology	0.62%	43	Computer Science, Software Engineering	0.55%
44	Microbiology	0.61%	44	Multidisciplinary Sciences	0.55%
45	Polymer Science	0.59%	45	Sociology	0.55%
46	Materials Science, Biomaterials	0.57%	46	Planning & Development	0.51%
47	Zoology	0.57%	47	Asian Studies	0.47%
48	Medicine, Research & Experimental	0.56%	48	Genetics & Heredity	0.47%
49	Peripheral Vascular Disease	0.56%	49	Philosophy	0.47%
50	Toxicology	0.54%	50	Psychology, Educational	0.47%
51	Food Science & Technology	0.53%	51	Communication	0.44%
52	Imaging Science & Photographic Technology	0.53%	52	Evolutionary Biology	0.44%
53	Sport Sciences	0.53%	53	History Of Social Sciences	0.44%
54	Nutrition & Dietetics	0.51%	54	Ophthalmology	0.44%
55	Computer Science, Cybernetics	0.49%	55	Psychology, Clinical	0.44%
56	Physics, Multidisciplinary	0.49%	56	Health Care Sciences & Services	0.40%
57	Plant Sciences	0.48%	57	Neuroimaging	0.40%
58	Marine & Freshwater Biology	0.48%	58	Rehabilitation	0.40%
59	Developmental Biology	0.47%			
60	Geochemistry & Geophysics	0.46%			
61	Immunology	0.46%			
62	Cardiac & Cardiovascular Systems	0.43%			
63	Biology	0.42%			
64	Instruments & Instrumentation	0.41%			
65	Chemistry, Applied	0.40%			

表 13 科研費研究分野(細目表-系)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (2/2)

系 理工系			生物系		
Integer Counts		35401			40236
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Physics, Applied	8.83%	1	Biochemistry & Molecular Biology	9.89%
2	Materials Science, Multidisciplinary	7.41%	2	Cell Biology	5.72%
3	Chemistry, Multidisciplinary	5.71%	3	Oncology	5.38%
4	Engineering, Electrical & Electronic	5.62%	4	Neurosciences	3.86%
5	Physics, Condensed Matter	4.83%	5	Immunology	3.52%
6	Astronomy & Astrophysics	4.68%	6	Pharmacology & Pharmacy	3.24%
7	Chemistry, Physical	4.61%	7	Genetics & Heredity	2.74%
8	Physics, Multidisciplinary	3.82%	8	Endocrinology & Metabolism	2.51%
9	Mathematics	3.72%	9	Biophysics	2.44%
10	Optics	2.37%	10	Hematology	2.14%
11	Chemistry, Organic	2.34%	11	Clinical Neurology	2.11%
12	Nanoscience & Nanotechnology	2.11%	12	Peripheral Vascular Disease	2.03%
13	Mathematics, Applied	2.10%	13	Biotechnology & Applied Microbiology	1.93%
14	Physics, Particles & Fields	1.92%	14	Medicine, Research & Experimental	1.92%
15	Physics, Atomic, Molecular & Chemical	1.85%	15	Plant Sciences	1.87%
16	Polymer Science	1.71%	16	Gastroenterology & Hepatology	1.85%
17	Metallurgy & Metallurgical Engineering	1.51%	17	Chemistry, Organic	1.83%
18	Geosciences, Multidisciplinary	1.36%	18	Cardiac & Cardiovascular Systems	1.78%
19	Geochemistry & Geophysics	1.31%	19	Multidisciplinary Sciences	1.64%
20	Chemistry, Inorganic & Nuclear	1.27%	20	Microbiology	1.63%
21	Physics, Nuclear	1.20%	21	Dentistry, Oral Surgery & Medicine	1.56%
22	Engineering, Mechanical	1.18%	22	Surgery	1.55%
23	Physics, Fluids & Plasmas	1.12%	23	Physiology	1.54%
24	Materials Science, Coatings & Films	1.11%	24	Pathology	1.30%
25	Telecommunications	1.01%	25	Radiology, Nuclear Medicine & Medical Imaging	1.23%
26	Instruments & Instrumentation	0.99%	26	Chemistry, Multidisciplinary	1.22%
27	Electrochemistry	0.96%	27	Urology & Nephrology	1.09%
28	Crystallography	0.89%	28	Developmental Biology	1.08%
29	Physics, Mathematical	0.88%	29	Ophthalmology	1.01%
30	Chemistry, Analytical	0.87%	30	Virology	0.99%
31	Nuclear Science & Technology	0.87%	31	Chemistry, Medicinal	0.87%
32	Mechanics	0.86%	32	Dermatology	0.83%
33	Biochemistry & Molecular Biology	0.75%	33	Zoology	0.81%
34	Automation & Control Systems	0.69%	34	Psychiatry	0.79%
35	Engineering, Chemical	0.67%	35	Food Science & Technology	0.78%
36	Meteorology & Atmospheric Sciences	0.66%	36	Biochemical Research Methods	0.74%
37	Computer Science, Artificial Intelligence	0.65%	37	Transplantation	0.73%
38	Computer Science, Theory & Methods	0.65%	38	Ecology	0.72%
39	Energy & Fuels	0.61%	39	Reproductive Biology	0.71%
40	Thermodynamics	0.61%	40	Engineering, Biomedical	0.70%
41	Materials Science, Ceramics	0.56%	41	Infectious Diseases	0.69%
42	Robotics	0.52%	42	Toxicology	0.68%
43	Computer Science, Information Systems	0.50%	43	Rheumatology	0.66%
44	Spectroscopy	0.50%	44	Chemistry, Applied	0.65%
45	Engineering, Civil	0.47%	45	Evolutionary Biology	0.64%
46	Materials Science, Composites	0.44%	46	Veterinary Sciences	0.64%
47	Environmental Sciences	0.42%	47	Pediatrics	0.57%
			48	Entomology	0.54%
			49	Respiratory System	0.54%
			50	Materials Science, Biomaterials	0.51%
			51	Biology	0.49%
			52	Obstetrics & Gynecology	0.49%
			53	Marine & Freshwater Biology	0.45%
			54	Chemistry, Analytical	0.42%

D.5.1.2. 分野

表 14 科研費研究分野(細目表-分野)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (1/5)

総合領域			複合新領域		
分野	Integer counts	12389	Rank	WoS subject area	6409
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Computer Science, Theory & Methods	9.39%	1	Physics, Applied	5.54%
2	Engineering, Electrical & Electronic	8.47%	2	Biochemistry & Molecular Biology	5.13%
3	Computer Science, Artificial Intelligence	7.60%	3	Chemistry, Multidisciplinary	4.91%
4	Neurosciences	7.01%	4	Materials Science, Multidisciplinary	4.09%
5	Computer Science, Information Systems	5.98%	5	Environmental Sciences	4.01%
6	Computer Science, Software Engineering	3.41%	6	Chemistry, Organic	3.53%
7	Biochemistry & Molecular Biology	2.76%	7	Chemistry, Physical	3.04%
8	Physiology	2.53%	8	Nanoscience & Nanotechnology	3.01%
9	Engineering, Biomedical	2.30%	9	Engineering, Electrical & Electronic	2.70%
10	Computer Science, Hardware & Architecture	2.24%	10	Physics, Condensed Matter	2.59%
11	Mathematics, Applied	1.98%	11	Biotechnology & Applied Microbiology	2.20%
12	Cell Biology	1.81%	12	Geosciences, Multidisciplinary	2.17%
13	Robotics	1.69%	13	Oceanography	1.83%
14	Telecommunications	1.64%	14	Meteorology & Atmospheric Sciences	1.78%
15	Computer Science, Interdisciplinary Applications	1.51%	15	Genetics & Heredity	1.76%
16	Endocrinology & Metabolism	1.28%	16	Microbiology	1.59%
17	Automation & Control Systems	1.19%	17	Ecology	1.56%
18	Pharmacology & Pharmacy	1.07%	18	Chemistry, Medicinal	1.51%
19	Radiology, Nuclear Medicine & Medical Imaging	1.03%	19	Pharmacology & Pharmacy	1.51%
20	Clinical Neurology	0.94%	20	Chemistry, Analytical	1.50%
21	Statistics & Probability	0.86%	21	Cell Biology	1.39%
22	Biotechnology & Applied Microbiology	0.85%	22	Toxicology	1.33%
23	Peripheral Vascular Disease	0.82%	23	Plant Sciences	1.30%
24	Materials Science, Biomaterials	0.81%	24	Marine & Freshwater Biology	1.19%
25	Sport Sciences	0.80%	25	Operations Research & Management Science	1.09%
26	Biophysics	0.77%	26	Geochemistry & Geophysics	0.98%
27	Optics	0.76%	27	Water Resources	0.98%
28	Nutrition & Dietetics	0.74%	28	Optics	0.95%
29	Imaging Science & Photographic Technology	0.73%	29	Engineering, Environmental	0.90%
30	Multidisciplinary Sciences	0.73%	30	Biophysics	0.89%
31	Chemistry, Multidisciplinary	0.71%	31	Physics, Atomic, Molecular & Chemical	0.87%
32	Medicine, Research & Experimental	0.69%	32	Biochemical Research Methods	0.86%
33	Computer Science, Cybernetics	0.65%	33	Multidisciplinary Sciences	0.84%
34	Genetics & Heredity	0.63%	34	Physics, Multidisciplinary	0.84%
35	Cardiac & Cardiovascular Systems	0.62%	35	Oncology	0.75%
36	Physics, Applied	0.62%	36	Electrochemistry	0.73%
37	Oncology	0.57%	37	Polymer Science	0.73%
38	Acoustics	0.56%	38	Biodiversity Conservation	0.72%
39	Biochemical Research Methods	0.55%	39	Biology	0.72%
40	Operations Research & Management Science	0.53%	40	Mathematics, Applied	0.72%
41	Psychology, Experimental	0.53%	41	Chemistry, Applied	0.70%
42	Zoology	0.52%	42	Computer Science, Information Systems	0.69%
43	Polymer Science	0.51%	43	Computer Science, Artificial Intelligence	0.67%
44	Developmental Biology	0.48%	44	Food Science & Technology	0.67%
45	Food Science & Technology	0.46%	45	Zoology	0.67%
46	Mathematics	0.45%	46	Computer Science, Theory & Methods	0.66%
47	Mathematical & Computational Biology	0.43%	47	Engineering, Chemical	0.66%
48	Materials Science, Multidisciplinary	0.42%	48	Immunology	0.66%
49	Psychology	0.40%	49	Instruments & Instrumentation	0.66%
			50	Economics	0.62%
			51	Geography, Physical	0.61%
			52	Engineering, Civil	0.59%
			53	Radiology, Nuclear Medicine & Medical Imaging	0.59%
			54	Materials Science, Coatings & Films	0.58%
			55	Nuclear Science & Technology	0.53%
			56	Developmental Biology	0.45%
			57	Energy & Fuels	0.45%

表 15 科研費研究分野(細目表-分野)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (2/5)

分野 人文学			社会科学		
Integer counts		483			2257
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Linguistics	13.04%	1	Economics	19.45%
2	Language & Linguistics	9.52%	2	Psychology, Experimental	5.94%
3	Neurosciences	6.21%	3	Neurosciences	5.72%
4	Computer Science, Artificial Intelligence	4.55%	4	Psychology	4.56%
5	Literature	4.35%	5	Social Sciences, Mathematical Methods	2.84%
6	Engineering, Electrical & Electronic	4.14%	6	Mathematics, Interdisciplinary Applications	2.44%
7	Education & Educational Research	3.52%	7	Business, Finance	2.39%
8	History	2.90%	8	Mathematics, Applied	2.26%
9	Anthropology	2.69%	9	Psychology, Multidisciplinary	2.22%
10	Psychology, Experimental	2.69%	10	Operations Research & Management Science	2.08%
11	Asian Studies	2.48%	11	Management	1.91%
12	Evolutionary Biology	2.48%	12	Psychology, Biological	1.77%
13	Computer Science, Theory & Methods	2.28%	13	Statistics & Probability	1.77%
14	Philosophy	2.28%	14	Business	1.64%
15	Computer Science, Information Systems	1.66%	15	Political Science	1.60%
16	Area Studies	1.45%	16	Psychology, Developmental	1.60%
17	Art	1.45%	17	Psychiatry	1.55%
18	Geochemistry & Geophysics	1.04%	18	Behavioral Sciences	1.51%
19	Geography	1.04%	19	Computer Science, Interdisciplinary Applications	1.46%
20	Audiology & Speech-Language Pathology	0.83%	20	International Relations	1.46%
21	Communication	0.83%	21	Environmental Studies	1.42%
22	Computer Science, Software Engineering	0.83%	22	Physiology	1.42%
23	Cultural Studies	0.83%	23	Clinical Neurology	1.11%
24	History & Philosophy Of Science	0.83%	24	Computer Science, Artificial Intelligence	1.06%
25	Meteorology & Atmospheric Sciences	0.83%	25	Urban Studies	1.02%
26	Religion	0.83%	26	Area Studies	0.93%
27	Chemistry, Physical	0.62%	27	Education & Educational Research	0.93%
28	Clinical Neurology	0.62%	28	History	0.84%
29	Genetics & Heredity	0.62%	29	Social Sciences, Interdisciplinary	0.84%
30	Humanities, Multidisciplinary	0.62%	30	Computer Science, Theory & Methods	0.80%
31	Nuclear Science & Technology	0.62%	31	Psychology, Social	0.80%
32	Physics, Atomic, Molecular & Chemical	0.62%	32	Public, Environmental & Occupational Health	0.80%
33	Plant Sciences	0.62%	33	Zoology	0.75%
34	Political Science	0.62%	34	Engineering, Industrial	0.71%
35	Psychology, Multidisciplinary	0.62%	35	Environmental Sciences	0.71%
36	Surgery	0.62%	36	Mathematics	0.66%
37	Automation & Control Systems	0.41%	37	Planning & Development	0.62%
38	Behavioral Sciences	0.41%	38	Engineering, Electrical & Electronic	0.58%
39	Biophysics	0.41%	39	Multidisciplinary Sciences	0.58%
40	Classics	0.41%	40	Sociology	0.58%
41	Ecology	0.41%	41	Ophthalmology	0.53%
42	Economics	0.41%	42	Psychology, Clinical	0.53%
43	Engineering, Manufacturing	0.41%	43	Computer Science, Software Engineering	0.49%
44	Environmental Studies	0.41%	44	History Of Social Sciences	0.49%
45	Ethnic Studies	0.41%	45	Neuroimaging	0.49%
46	Geosciences, Multidisciplinary	0.41%	46	Psychology, Educational	0.49%
47	Health Care Sciences & Services	0.41%	47	Computer Science, Information Systems	0.44%
48	Imaging Science & Photographic Technology	0.41%	48	Genetics & Heredity	0.44%
49	Instruments & Instrumentation	0.41%	49	Radiology, Nuclear Medicine & Medical Imaging	0.44%
50	Literature, American	0.41%	50	Social Sciences, Biomedical	0.44%
51	Literature, British Isles	0.41%	51	Endocrinology & Metabolism	0.40%
52	Materials Science, Biomaterials	0.41%	52	Health Care Sciences & Services	0.40%
53	Multidisciplinary Sciences	0.41%	53	Rehabilitation	0.40%
54	Optics	0.41%	54	Social Issues	0.40%
55	Physics, Nuclear	0.41%			
56	Poetry	0.41%			
57	Psychiatry	0.41%			
58	Psychology	0.41%			
59	Psychology, Biological	0.41%			
60	Psychology, Educational	0.41%			
61	Rehabilitation	0.41%			
62	Robotics	0.41%			
63	Sociology	0.41%			
64	Veterinary Sciences	0.41%			

表 16 科研費研究分野(細目表-分野)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (3/5)

数物系科学			化学		
分野	Integer counts				
Rank	WoS subject area	Density	Rank	WoS subject area	Density
		11400			7656
1	Astronomy & Astrophysics	14.34%	1	Chemistry, Multidisciplinary	21.63%
2	Mathematics	11.51%	2	Chemistry, Physical	11.53%
3	Physics, Multidisciplinary	9.65%	3	Chemistry, Organic	10.42%
4	Physics, Condensed Matter	7.19%	4	Materials Science, Multidisciplinary	7.37%
5	Physics, Particles & Fields	5.79%	5	Polymer Science	6.23%
6	Mathematics, Applied	5.61%	6	Chemistry, Inorganic & Nuclear	5.24%
7	Physics, Applied	5.61%	7	Physics, Atomic, Molecular & Chemical	4.77%
8	Geochemistry & Geophysics	3.81%	8	Physics, Applied	3.77%
9	Geosciences, Multidisciplinary	3.57%	9	Nanoscience & Nanotechnology	3.25%
10	Materials Science, Multidisciplinary	3.19%	10	Physics, Condensed Matter	3.04%
11	Physics, Nuclear	2.89%	11	Chemistry, Analytical	2.91%
12	Physics, Mathematical	2.18%	12	Biochemistry & Molecular Biology	2.57%
13	Meteorology & Atmospheric Sciences	1.96%	13	Crystallography	2.43%
14	Physics, Atomic, Molecular & Chemical	1.67%	14	Electrochemistry	1.79%
15	Physics, Fluids & Plasmas	1.64%	15	Biochemical Research Methods	0.99%
16	Optics	1.46%	16	Chemistry, Medicinal	0.85%
17	Chemistry, Physical	1.22%	17	Biophysics	0.84%
18	Engineering, Electrical & Electronic	1.11%	18	Spectroscopy	0.80%
19	Instruments & Instrumentation	1.11%	19	Physics, Multidisciplinary	0.73%
20	Mineralogy	0.96%	20	Optics	0.69%
21	Statistics & Probability	0.95%	21	Chemistry, Applied	0.67%
22	Nuclear Science & Technology	0.88%	22	Materials Science, Coatings & Films	0.67%
23	Oceanography	0.86%	23	Energy & Fuels	0.63%
24	Paleontology	0.83%	24	Materials Science, Ceramics	0.56%
25	Nanoscience & Nanotechnology	0.80%	25	Mathematics, Interdisciplinary Applications	0.52%
26	Spectroscopy	0.66%	26	Engineering, Chemical	0.47%
27	Computer Science, Theory & Methods	0.57%	27	Multidisciplinary Sciences	0.42%
28	Mechanics	0.55%			
29	Chemistry, Multidisciplinary	0.51%			
30	Multidisciplinary Sciences	0.51%			
31	Geology	0.50%			
32	Thermodynamics	0.49%			

表 17 科研費研究分野(細目表-分野)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (4/5)

工学			生物学		
分野	Integer counts				
Rank	WoS subject area	Density	Rank	WoS subject area	Density
		16345			5402
1	Physics, Applied	13.44%	1	Biochemistry & Molecular Biology	19.27%
2	Engineering, Electrical & Electronic	11.23%	2	Cell Biology	12.94%
3	Materials Science, Multidisciplinary	10.38%	3	Plant Sciences	6.72%
4	Physics, Condensed Matter	4.02%	4	Genetics & Heredity	5.81%
5	Optics	3.79%	5	Biophysics	4.03%
6	Chemistry, Physical	3.74%	6	Multidisciplinary Sciences	4.04%
7	Metallurgy & Metallurgical Engineering	3.03%	7	Evolutionary Biology	3.92%
8	Engineering, Mechanical	2.52%	8	Zoology	3.61%
9	Nanoscience & Nanotechnology	2.50%	9	Developmental Biology	3.31%
10	Telecommunications	2.12%	10	Ecology	3.18%
11	Materials Science, Coatings & Films	1.88%	11	Neurosciences	2.20%
12	Chemistry, Multidisciplinary	1.87%	12	Entomology	2.04%
13	Automation & Control Systems	1.46%	13	Marine & Freshwater Biology	1.83%
14	Mechanics	1.46%	14	Biotechnology & Applied Microbiology	1.78%
15	Computer Science, Artificial Intelligence	1.36%	15	Biology	1.39%
16	Nuclear Science & Technology	1.25%	16	Endocrinology & Metabolism	1.39%
17	Physics, Fluids & Plasmas	1.22%	17	Microbiology	1.37%
18	Electrochemistry	1.21%	18	Biochemical Research Methods	1.33%
19	Engineering, Chemical	1.21%	19	Anthropology	1.28%
20	Instruments & Instrumentation	1.20%	20	Physiology	1.11%
21	Physics, Multidisciplinary	1.19%	21	Immunology	0.96%
22	Robotics	1.11%	22	Chemistry, Multidisciplinary	0.89%
23	Energy & Fuels	1.01%	23	Oncology	0.81%
24	Computer Science, Theory & Methods	1.00%	24	Behavioral Sciences	0.76%
25	Engineering, Civil	0.99%	25	Pharmacology & Pharmacy	0.72%
26	Computer Science, Information Systems	0.96%	26	Crystallography	0.70%
27	Thermodynamics	0.95%	27	Food Science & Technology	0.48%
28	Materials Science, Ceramics	0.91%	28	Chemistry, Applied	0.44%
29	Materials Science, Composites	0.89%	29	Mathematical & Computational Biology	0.44%
30	Computer Science, Hardware & Architecture	0.78%	30	Chemistry, Physical	0.43%
31	Environmental Sciences	0.70%	31	Anatomy & Morphology	0.41%
32	Crystallography	0.69%	32	Environmental Sciences	0.41%
33	Engineering, Biomedical	0.68%	33	Toxicology	0.41%
34	Computer Science, Interdisciplinary Applications	0.65%			
35	Materials Science, Biomaterials	0.64%			
36	Biotechnology & Applied Microbiology	0.62%			
37	Mathematics, Applied	0.62%			
38	Physics, Atomic, Molecular & Chemical	0.61%			
39	Engineering, Environmental	0.59%			
40	Physics, Nuclear	0.57%			
41	Polymer Science	0.56%			
42	Engineering, Manufacturing	0.54%			
43	Engineering, Multidisciplinary	0.51%			
44	Chemistry, Analytical	0.47%			
45	Chemistry, Applied	0.43%			
46	Geosciences, Multidisciplinary	0.43%			
47	Transportation Science & Technology	0.42%			
48	Water Resources	0.42%			

表 18 科研費研究分野(細目表-分野)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (5/5)

農学			医歯薬学		
分野	Integer counts				
Rank	WoS subject area	Density	Rank	WoS subject area	Density
		5772			29062
1	Biochemistry & Molecular Biology	11.95%	1	Biochemistry & Molecular Biology	7.74%
2	Biotechnology & Applied Microbiology	6.81%	2	Oncology	7.21%
3	Plant Sciences	6.39%	3	Cell Biology	4.84%
4	Food Science & Technology	4.07%	4	Neurosciences	4.67%
5	Microbiology	3.81%	5	Immunology	4.33%
6	Veterinary Sciences	3.78%	6	Pharmacology & Pharmacy	4.03%
7	Cell Biology	3.41%	7	Endocrinology & Metabolism	2.98%
8	Chemistry, Applied	3.41%	8	Clinical Neurology	2.89%
9	Agronomy	2.49%	9	Hematology	2.85%
10	Reproductive Biology	2.06%	10	Peripheral Vascular Disease	2.76%
11	Chemistry, Organic	2.04%	11	Medicine, Research & Experimental	2.52%
12	Ecology	2.04%	12	Gastroenterology & Hepatology	2.52%
13	Genetics & Heredity	2.01%	13	Cardiac & Cardiovascular Systems	2.43%
14	Agriculture, Dairy & Animal Science	1.98%	14	Genetics & Heredity	2.32%
15	Fisheries	1.92%	15	Biophysics	2.26%
16	Immunology	1.80%	16	Dentistry, Oral Surgery & Medicine	2.13%
17	Biophysics	1.78%	17	Surgery	2.12%
18	Entomology	1.75%	18	Chemistry, Organic	2.08%
19	Zoology	1.68%	19	Pathology	1.73%
20	Pharmacology & Pharmacy	1.58%	20	Physiology	1.73%
21	Marine & Freshwater Biology	1.44%	21	Radiology, Nuclear Medicine & Medical Imaging	1.68%
22	Virology	1.40%	22	Urology & Nephrology	1.51%
23	Neurosciences	1.33%	23	Chemistry, Multidisciplinary	1.40%
24	Forestry	1.30%	24	Ophthalmology	1.39%
25	Soil Science	1.28%	25	Multidisciplinary Sciences	1.31%
26	Environmental Sciences	1.25%	26	Microbiology	1.24%
27	Agriculture, Multidisciplinary	1.23%	27	Dermatology	1.10%
28	Endocrinology & Metabolism	1.20%	28	Psychiatry	1.09%
29	Horticulture	1.14%	29	Virology	1.06%
30	Parasitology	1.07%	30	Transplantation	1.01%
31	Multidisciplinary Sciences	1.02%	31	Biotechnology & Applied Microbiology	0.99%
32	Physiology	1.02%	32	Engineering, Biomedical	0.96%
33	Chemistry, Medicinal	0.99%	33	Chemistry, Medicinal	0.95%
34	Developmental Biology	0.87%	34	Rheumatology	0.90%
35	Biochemical Research Methods	0.83%	35	Infectious Diseases	0.87%
36	Polymer Science	0.76%	36	Pediatrics	0.79%
37	Biodiversity Conservation	0.73%	37	Toxicology	0.75%
38	Nutrition & Dietetics	0.66%	38	Respiratory System	0.74%
39	Chemistry, Multidisciplinary	0.62%	39	Developmental Biology	0.70%
40	Materials Science, Paper & Wood	0.62%	40	Materials Science, Biomaterials	0.70%
41	Water Resources	0.59%	41	Obstetrics & Gynecology	0.67%
42	Toxicology	0.57%	42	Biochemical Research Methods	0.62%
43	Evolutionary Biology	0.55%	43	Reproductive Biology	0.53%
44	Mycology	0.49%	44	Public, Environmental & Occupational Health	0.52%
45	Chemistry, Analytical	0.45%	45	Medicine, General & Internal	0.52%
46	Oncology	0.45%	46	Cell & Tissue Engineering	0.49%
47	Biology	0.43%	47	Otorhinolaryngology	0.46%
48	Geosciences, Multidisciplinary	0.40%	48	Chemistry, Analytical	0.45%
			49	Orthopedics	0.44%

D.5.1.3. 分科

表 19 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (1/34)

情報学			神経科学		
分科	Integer counts	Density	Rank	WoS subject area	Density
	6637				1570
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Computer Science, Theory & Methods	16.06%	1	Neurosciences	36.50%
2	Engineering, Electrical & Electronic	13.85%	2	Biochemistry & Molecular Biology	9.87%
3	Computer Science, Artificial Intelligence	12.67%	3	Cell Biology	8.34%
4	Computer Science, Information Systems	9.63%	4	Physiology	7.26%
5	Computer Science, Software Engineering	5.94%	5	Clinical Neurology	3.38%
6	Computer Science, Hardware & Architecture	3.98%	6	Developmental Biology	2.80%
7	Mathematics, Applied	3.60%	7	Multidisciplinary Sciences	2.74%
8	Telecommunications	2.98%	8	Pharmacology & Pharmacy	2.74%
9	Robotics	2.28%	9	Pathology	1.97%
10	Computer Science, Interdisciplinary Applications	2.21%	10	Endocrinology & Metabolism	1.85%
11	Neurosciences	1.94%	11	Biophysics	1.72%
12	Automation & Control Systems	1.87%	12	Oncology	1.46%
13	Statistics & Probability	1.61%	13	Genetics & Heredity	1.40%
14	Computer Science, Cybernetics	1.18%	14	Zoology	1.21%
15	Operations Research & Management Science	0.98%	15	Psychiatry	1.15%
16	Acoustics	0.89%	16	Biochemical Research Methods	0.96%
17	Optics	0.83%	17	Medicine, Research & Experimental	0.89%
18	Imaging Science & Photographic Technology	0.74%	18	Anatomy & Morphology	0.70%
19	Mathematics	0.72%	19	Behavioral Sciences	0.70%
20	Engineering, Biomedical	0.66%	20	Immunology	0.70%
21	Mathematical & Computational Biology	0.66%	21	Radiology, Nuclear Medicine & Medical Imaging	0.64%
22	Psychology, Experimental	0.63%	22	Engineering, Biomedical	0.57%
23	Radiology, Nuclear Medicine & Medical Imaging	0.54%	23	Biotechnology & Applied Microbiology	0.51%
24	Psychology	0.51%	24	Hematology	0.51%
25	Engineering, Multidisciplinary	0.50%	25	Physics, Nuclear	0.51%
26	Biochemical Research Methods	0.47%	26	Cell & Tissue Engineering	0.45%
27	Biotechnology & Applied Microbiology	0.47%	27	Dermatology	0.45%
28	Physics, Mathematical	0.47%	28	Mathematical & Computational Biology	0.45%
29	Behavioral Sciences	0.45%	29	Microscopy	0.45%
30	Zoology	0.41%	30	Psychology, Experimental	0.45%

表 20 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (2/34)

実験動物学			人間医工学		
分科	Integer counts		Rank	WoS subject area	Density
	242				1995
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Biochemistry & Molecular Biology	9.92%	1	Engineering, Biomedical	10.78%
2	Immunology	9.92%	2	Materials Science, Biomaterials	4.61%
3	Cell Biology	7.44%	3	Engineering, Electrical & Electronic	4.31%
4	Veterinary Sciences	7.44%	4	Radiology, Nuclear Medicine & Medical Imaging	3.81%
5	Genetics & Heredity	7.02%	5	Biochemistry & Molecular Biology	3.51%
6	Zoology	5.79%	6	Chemistry, Multidisciplinary	3.51%
7	Multidisciplinary Sciences	4.13%	7	Pharmacology & Pharmacy	2.91%
8	Developmental Biology	3.72%	8	Polymer Science	2.86%
9	Neurosciences	3.72%	9	Neurosciences	2.81%
10	Peripheral Vascular Disease	3.31%	10	Physics, Applied	2.71%
11	Hematology	2.89%	11	Robotics	2.66%
12	Microbiology	2.89%	12	Computer Science, Artificial Intelligence	2.41%
13	Reproductive Biology	2.89%	13	Physiology	2.21%
14	Oncology	2.48%	14	Materials Science, Multidisciplinary	2.16%
15	Medicine, Research & Experimental	2.07%	15	Cardiac & Cardiovascular Systems	2.06%
16	Physiology	2.07%	16	Biotechnology & Applied Microbiology	1.95%
17	Virology	2.07%	17	Peripheral Vascular Disease	1.90%
18	Biotechnology & Applied Microbiology	1.65%	18	Medicine, Research & Experimental	1.85%
19	Cardiac & Cardiovascular Systems	1.65%	19	Surgery	1.80%
20	Chemistry, Multidisciplinary	1.65%	20	Chemistry, Organic	1.60%
21	Biology	1.24%	21	Optics	1.60%
22	Biophysics	1.24%	22	Biophysics	1.55%
23	Clinical Neurology	1.24%	23	Cell Biology	1.55%
24	Food Science & Technology	1.24%	24	Clinical Neurology	1.40%
25	Endocrinology & Metabolism	0.83%	25	Rehabilitation	1.35%
26	Engineering, Biomedical	0.83%	26	Transplantation	1.25%
27	Infectious Diseases	0.83%	27	Automation & Control Systems	1.10%
28	Pathology	0.83%	28	Nanoscience & Nanotechnology	1.10%
29	Pharmacology & Pharmacy	0.83%	29	Computer Science, Theory & Methods	1.05%
30	Respiratory System	0.83%	30	Chemistry, Physical	1.00%
31	Agriculture, Dairy & Animal Science	0.41%	31	Hematology	1.00%
32	Behavioral Sciences	0.41%	32	Genetics & Heredity	0.95%
33	Biochemical Research Methods	0.41%	33	Biochemical Research Methods	0.85%
34	Chemistry, Applied	0.41%	34	Oncology	0.85%
35	Geriatrics & Gerontology	0.41%	35	Computer Science, Information Systems	0.80%
36	Gerontology	0.41%	36	Endocrinology & Metabolism	0.80%
37	Nutrition & Dietetics	0.41%	37	Chemistry, Medicinal	0.75%
38	Obstetrics & Gynecology	0.41%	38	Neuroimaging	0.75%
39	Ophthalmology	0.41%	39	Sport Sciences	0.75%
40	Orthopedics	0.41%	40	Chemistry, Analytical	0.70%
41	Psychiatry	0.41%	41	Computer Science, Interdisciplinary Applications	0.70%
42	Rheumatology	0.41%	42	Gastroenterology & Hepatology	0.65%
43	Transplantation	0.41%	43	Orthopedics	0.65%
			44	Multidisciplinary Sciences	0.60%
			45	Instruments & Instrumentation	0.55%
			46	Acoustics	0.50%
			47	Cell & Tissue Engineering	0.50%
			48	Engineering, Mechanical	0.50%
			49	Urology & Nephrology	0.50%
			50	Food Science & Technology	0.40%
			51	Immunology	0.40%
			52	Medicine, General & Internal	0.40%
			53	Physics, Condensed Matter	0.40%

表 21 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (3/34)

健康・スポーツ科学			生活科学		
分科	Integer counts		Rank	WoS subject area	Density
	844				467
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Physiology	14.57%	1	Nutrition & Dietetics	9.42%
2	Endocrinology & Metabolism	9.95%	2	Food Science & Technology	8.14%
3	Neurosciences	9.83%	3	Biochemistry & Molecular Biology	7.92%
4	Sport Sciences	9.60%	4	Computer Science, Information Systems	6.21%
5	Peripheral Vascular Disease	4.62%	5	Criminology & Penology	6.21%
6	Nutrition & Dietetics	4.38%	6	Imaging Science & Photographic Technology	6.21%
7	Biochemistry & Molecular Biology	4.15%	7	Social Sciences, Interdisciplinary	6.21%
8	Cell Biology	2.96%	8	Endocrinology & Metabolism	5.14%
9	Cardiac & Cardiovascular Systems	2.49%	9	Chemistry, Applied	4.93%
10	Clinical Neurology	2.01%	10	Biotechnology & Applied Microbiology	3.21%
11	Public, Environmental & Occupational Health	2.01%	11	Pharmacology & Pharmacy	3.00%
12	Engineering, Biomedical	1.78%	12	Neurosciences	2.36%
13	Biophysics	1.66%	13	Toxicology	2.36%
14	Geriatrics & Gerontology	1.54%	14	Medicine, Research & Experimental	2.14%
15	Medicine, Research & Experimental	1.54%	15	Peripheral Vascular Disease	1.71%
16	Medicine, General & Internal	1.18%	16	Oncology	1.50%
17	Pharmacology & Pharmacy	1.18%	17	Cell Biology	1.28%
18	Psychology, Experimental	1.18%	18	Physiology	1.28%
19	Biology	1.07%	19	Biophysics	1.07%
20	Psychiatry	1.07%	20	Chemistry, Medicinal	1.07%
21	Urology & Nephrology	1.07%	21	Polymer Science	1.07%
22	Orthopedics	0.95%	22	Agriculture, Multidisciplinary	0.86%
23	Genetics & Heredity	0.83%	23	Engineering, Electrical & Electronic	0.86%
24	Gerontology	0.83%	24	Gastroenterology & Hepatology	0.86%
25	Computer Science, Artificial Intelligence	0.71%	25	Materials Science, Textiles	0.86%
26	Multidisciplinary Sciences	0.71%	26	Public, Environmental & Occupational Health	0.86%
27	Oncology	0.71%	27	Cardiac & Cardiovascular Systems	0.64%
28	Psychology	0.71%	28	Chemistry, Organic	0.64%
29	Rehabilitation	0.71%	29	Dentistry, Oral Surgery & Medicine	0.64%
30	Engineering, Electrical & Electronic	0.59%	30	Geriatrics & Gerontology	0.64%
31	Anatomy & Morphology	0.47%	31	Plant Sciences	0.64%
32	Anthropology	0.47%	32	Biochemical Research Methods	0.43%
33	Behavioral Sciences	0.47%	33	Chemistry, Multidisciplinary	0.43%
34	Chemistry, Medicinal	0.47%	34	Computer Science, Artificial Intelligence	0.43%
35	Computer Science, Theory & Methods	0.47%	35	Computer Science, Theory & Methods	0.43%
36	Pathology	0.47%	36	Crystallography	0.43%
37	Psychology, Multidisciplinary	0.47%	37	Immunology	0.43%
			38	Infectious Diseases	0.43%
			39	Parasitology	0.43%
			40	Urology & Nephrology	0.43%
			41	Veterinary Sciences	0.43%

表 22 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (4/34)

科学教育・教育工学			科学社会学・科学技術史		
分科	Integer counts		Rank	WoS subject area	Density
	388				43
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Computer Science, Theory & Methods	17.01%	1	Neurosciences	16.28%
2	Computer Science, Information Systems	13.40%	2	Cell Biology	9.30%
3	Computer Science, Artificial Intelligence	10.82%	3	Biophysics	6.98%
4	Engineering, Electrical & Electronic	8.76%	4	Chemistry, Organic	6.98%
5	Education & Educational Research	7.47%	5	Spectroscopy	6.98%
6	Computer Science, Interdisciplinary Applications	6.70%	6	Architecture	4.65%
7	Computer Science, Software Engineering	6.70%	7	Neuroimaging	4.65%
8	Computer Science, Hardware & Architecture	2.84%	8	Psychology, Experimental	4.65%
9	Education, Scientific Disciplines	2.84%	9	Radiology, Nuclear Medicine & Medical Imaging	4.65%
10	Mathematics	1.80%	10	Art	2.33%
11	Marine & Freshwater Biology	1.29%	11	Biotechnology & Applied Microbiology	2.33%
12	Pediatrics	1.29%	12	Cell & Tissue Engineering	2.33%
13	Astronomy & Astrophysics	1.03%	13	Economics	2.33%
14	Environmental Sciences	1.03%	14	Ethics	2.33%
15	Telecommunications	1.03%	15	Genetics & Heredity	2.33%
16	Biotechnology & Applied Microbiology	0.77%	16	History	2.33%
17	Chemistry, Multidisciplinary	0.77%	17	History & Philosophy Of Science	2.33%
18	Imaging Science & Photographic Technology	0.77%	18	History Of Social Sciences	2.33%
19	Physics, Applied	0.77%	19	Medicine, Research & Experimental	2.33%
20	Physics, Condensed Matter	0.77%	20	Multidisciplinary Sciences	2.33%
21	Surgery	0.77%	21	Philosophy	2.33%
22	Agricultural Engineering	0.52%	22	Psychology	2.33%
23	Automation & Control Systems	0.52%	23	Social Issues	2.33%
24	Biodiversity Conservation	0.52%	24	Social Sciences, Biomedical	2.33%
25	Ecology	0.52%			
26	Energy & Fuels	0.52%			
27	Entomology	0.52%			
28	Geosciences, Multidisciplinary	0.52%			
29	Information Science & Library Science	0.52%			
30	Materials Science, Multidisciplinary	0.52%			
31	Mathematics, Applied	0.52%			
32	Meteorology & Atmospheric Sciences	0.52%			
33	Optics	0.52%			
34	Robotics	0.52%			

表 23 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (5/34)

文化財科学			地理学		
分科	Integer counts		Rank	WoS subject area	Density
	55				148
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Chemistry, Analytical	12.73%	1	Geosciences, Multidisciplinary	16.22%
2	Nuclear Science & Technology	10.91%	2	Geography, Physical	12.16%
3	Instruments & Instrumentation	9.09%	3	Meteorology & Atmospheric Sciences	12.16%
4	Physics, Atomic, Molecular & Chemical	9.09%	4	Geochemistry & Geophysics	8.78%
5	Physics, Nuclear	9.09%	5	Environmental Sciences	6.08%
6	Geosciences, Multidisciplinary	5.45%	6	Geology	4.05%
7	Microbiology	5.45%	7	Water Resources	4.05%
8	Archaeology	3.64%	8	Ecology	3.38%
9	Biochemical Research Methods	3.64%	9	Instruments & Instrumentation	3.38%
10	Biotechnology & Applied Microbiology	3.64%	10	Nuclear Science & Technology	3.38%
11	Chemistry, Inorganic & Nuclear	3.64%	11	Physics, Atomic, Molecular & Chemical	3.38%
12	Geochemistry & Geophysics	3.64%	12	Physics, Nuclear	3.38%
13	Optics	3.64%	13	Engineering, Geological	2.70%
14	Anthropology	1.82%	14	Geography	2.70%
15	Astronomy & Astrophysics	1.82%	15	Computer Science, Information Systems	2.03%
16	Chemistry, Multidisciplinary	1.82%	16	Public, Environmental & Occupational Health	2.03%
17	Engineering, Civil	1.82%	17	Computer Science, Theory & Methods	1.35%
18	Materials Science, Textiles	1.82%	18	Information Science & Library Science	1.35%
19	Physics, Multidisciplinary	1.82%	19	Social Sciences, Biomedical	1.35%
20	Polymer Science	1.82%	20	Construction & Building Technology	0.68%
21	Radiology, Nuclear Medicine & Medical Imaging	1.82%	21	Education & Educational Research	0.68%
22	Water Resources	1.82%	22	Engineering, Electrical & Electronic	0.68%
			23	Engineering, Environmental	0.68%
			24	Imaging Science & Photographic Technology	0.68%
			25	Materials Science, Multidisciplinary	0.68%
			26	Mineralogy	0.68%
			27	Remote Sensing	0.68%
			28	Soil Science	0.68%

表 24 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (6/34)

環境学			ナノ・マイクロ科学		
分科	Integer counts		Rank	WoS subject area	Density
	2136				1852
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Environmental Sciences	11.00%	1	Physics, Applied	16.95%
2	Oceanography	5.01%	2	Materials Science, Multidisciplinary	12.42%
3	Biochemistry & Molecular Biology	4.12%	3	Chemistry, Multidisciplinary	10.42%
4	Toxicology	3.60%	4	Nanoscience & Nanotechnology	9.88%
5	Meteorology & Atmospheric Sciences	3.56%	5	Physics, Condensed Matter	7.94%
6	Geosciences, Multidisciplinary	3.46%	6	Chemistry, Physical	7.56%
7	Ecology	3.42%	7	Engineering, Electrical & Electronic	4.81%
8	Biotechnology & Applied Microbiology	3.14%	8	Optics	2.97%
9	Marine & Freshwater Biology	3.04%	9	Physics, Multidisciplinary	2.59%
10	Engineering, Environmental	2.72%	10	Chemistry, Analytical	2.54%
11	Microbiology	2.20%	11	Polymer Science	2.05%
12	Chemistry, Physical	2.15%	12	Electrochemistry	1.94%
13	Plant Sciences	2.11%	13	Physics, Atomic, Molecular & Chemical	1.62%
14	Water Resources	1.87%	14	Instruments & Instrumentation	1.51%
15	Geochemistry & Geophysics	1.78%	15	Materials Science, Coatings & Films	1.46%
16	Biology	1.64%	16	Biochemistry & Molecular Biology	1.19%
17	Radiology, Nuclear Medicine & Medical Imaging	1.59%	17	Crystallography	1.13%
18	Engineering, Chemical	1.54%	18	Biochemical Research Methods	1.08%
19	Geography, Physical	1.45%	19	Chemistry, Organic	0.81%
20	Oncology	1.40%	20	Biophysics	0.76%
21	Cell Biology	1.36%	21	Spectroscopy	0.70%
22	Genetics & Heredity	1.36%	22	Biotechnology & Applied Microbiology	0.54%
23	Nuclear Science & Technology	1.36%	23	Chemistry, Inorganic & Nuclear	0.54%
24	Chemistry, Analytical	1.31%	24	Chemistry, Applied	0.49%
25	Pharmacology & Pharmacy	1.26%	25	Metallurgy & Metallurgical Engineering	0.49%
26	Materials Science, Multidisciplinary	1.22%	26	Microscopy	0.43%
27	Physics, Atomic, Molecular & Chemical	1.22%			
28	Chemistry, Multidisciplinary	1.17%			
29	Biodiversity Conservation	1.12%			
30	Biophysics	1.03%			
31	Engineering, Civil	1.03%			
32	Physics, Applied	1.03%			
33	Limnology	0.94%			
34	Physics, Condensed Matter	0.89%			
35	Chemistry, Applied	0.84%			
36	Energy & Fuels	0.84%			
37	Food Science & Technology	0.80%			
38	Fisheries	0.75%			
39	Agronomy	0.70%			
40	Multidisciplinary Sciences	0.70%			
41	Physics, Nuclear	0.70%			
42	Environmental Studies	0.66%			
43	Public, Environmental & Occupational Health	0.66%			
44	Chemistry, Organic	0.61%			
45	Zoology	0.61%			
46	Economics	0.56%			
47	Endocrinology & Metabolism	0.56%			
48	Instruments & Instrumentation	0.56%			
49	Biochemical Research Methods	0.47%			
50	Chemistry, Inorganic & Nuclear	0.47%			
51	Forestry	0.47%			
52	Materials Science, Coatings & Films	0.47%			
53	Remote Sensing	0.47%			
54	Astronomy & Astrophysics	0.42%			
55	Soil Science	0.42%			

表 25 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (7/34)

社会・安全システム科学			ゲノム科学		
分科	Integer counts	868	Rank	WoS subject area	394
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Engineering, Electrical & Electronic	8.64%	1	Biochemistry & Molecular Biology	17.51%
2	Operations Research & Management Science	7.60%	2	Genetics & Heredity	13.45%
3	Geosciences, Multidisciplinary	7.26%	3	Cell Biology	8.38%
4	Mathematics, Applied	4.84%	4	Biotechnology & Applied Microbiology	5.33%
5	Computer Science, Artificial Intelligence	4.72%	5	Microbiology	5.33%
6	Computer Science, Information Systems	4.72%	6	Developmental Biology	5.08%
7	Computer Science, Theory & Methods	4.49%	7	Multidisciplinary Sciences	4.82%
8	Meteorology & Atmospheric Sciences	3.92%	8	Biochemical Research Methods	3.81%
9	Economics	2.76%	9	Plant Sciences	3.05%
10	Geochemistry & Geophysics	2.76%	10	Evolutionary Biology	2.28%
11	Water Resources	2.53%	11	Immunology	2.28%
12	Physics, Applied	2.19%	12	Mathematical & Computational Biology	1.78%
13	Engineering, Geological	2.07%	13	Biology	1.52%
14	Engineering, Civil	1.84%	14	Oncology	1.52%
15	Management	1.84%	15	Zoology	1.52%
16	Computer Science, Hardware & Architecture	1.73%	16	Biophysics	1.27%
17	Robotics	1.50%	17	Neurosciences	1.02%
18	Computer Science, Software Engineering	1.38%	18	Peripheral Vascular Disease	1.02%
19	Remote Sensing	1.38%	19	Pharmacology & Pharmacy	1.02%
20	Computer Science, Cybernetics	1.27%	20	Toxicology	1.02%
21	Engineering, Industrial	1.27%	21	Veterinary Sciences	1.02%
22	Telecommunications	1.27%	22	Anatomy & Morphology	0.76%
23	Automation & Control Systems	1.04%	23	Chemistry, Analytical	0.76%
24	Environmental Sciences	1.04%	24	Computer Science, Theory & Methods	0.76%
25	Business	0.92%	25	Food Science & Technology	0.76%
26	Business, Finance	0.92%	26	Chemistry, Medicinal	0.51%
27	Energy & Fuels	0.92%	27	Chemistry, Multidisciplinary	0.51%
28	Engineering, Manufacturing	0.92%	28	Chemistry, Organic	0.51%
29	Statistics & Probability	0.92%	29	Clinical Neurology	0.51%
30	Chemistry, Analytical	0.81%	30	Computer Science, Artificial Intelligence	0.51%
31	Mathematics, Interdisciplinary Applications	0.81%	31	Computer Science, Information Systems	0.51%
32	Oceanography	0.81%	32	Computer Science, Interdisciplinary Applications	0.51%
33	Social Sciences, Interdisciplinary	0.81%	33	Hematology	0.51%
34	Engineering, Multidisciplinary	0.69%	34	Medicine, Research & Experimental	0.51%
35	Chemistry, Physical	0.58%	35	Ophthalmology	0.51%
36	Ergonomics	0.58%	36	Pathology	0.51%
37	Geography	0.58%	37	Physiology	0.51%
38	Multidisciplinary Sciences	0.58%	38	Virology	0.51%
39	Physics, Multidisciplinary	0.58%			
40	Transportation	0.58%			
41	Transportation Science & Technology	0.58%			
42	Astronomy & Astrophysics	0.46%			
43	Computer Science, Interdisciplinary Applications	0.46%			
44	Electrochemistry	0.46%			
45	Engineering, Chemical	0.46%			
46	Engineering, Ocean	0.46%			
47	Environmental Studies	0.46%			
48	Geography, Physical	0.46%			
49	Materials Science, Multidisciplinary	0.46%			
50	Medical Informatics	0.46%			
51	Public, Environmental & Occupational Health	0.46%			
52	Social Sciences, Mathematical Methods	0.46%			

表 26 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (8/34)

分科 生物分子科学			資源保全学		
Integer counts		875			172
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Chemistry, Organic	22.40%	1	Genetics & Heredity	13.95%
2	Biochemistry & Molecular Biology	16.69%	2	Biodiversity Conservation	12.79%
3	Chemistry, Multidisciplinary	10.86%	3	Ecology	12.79%
4	Chemistry, Medicinal	10.06%	4	Zoology	10.47%
5	Pharmacology & Pharmacy	6.97%	5	Marine & Freshwater Biology	6.40%
6	Biotechnology & Applied Microbiology	4.23%	6	Agriculture, Dairy & Animal Science	4.65%
7	Microbiology	2.97%	7	Behavioral Sciences	2.91%
8	Plant Sciences	2.86%	8	Biochemistry & Molecular Biology	2.33%
9	Immunology	2.74%	9	Environmental Sciences	2.33%
10	Cell Biology	2.63%	10	Evolutionary Biology	2.33%
11	Biophysics	1.83%	11	Fisheries	1.74%
12	Chemistry, Applied	1.83%	12	Microbiology	1.74%
13	Food Science & Technology	1.83%	13	Oceanography	1.74%
14	Chemistry, Analytical	1.26%	14	Parasitology	1.74%
15	Biochemical Research Methods	1.14%	15	Agriculture, Multidisciplinary	1.16%
16	Multidisciplinary Sciences	1.03%	16	Biology	1.16%
17	Oncology	0.91%	17	Biotechnology & Applied Microbiology	1.16%
18	Entomology	0.69%	18	Communication	1.16%
19	Medicine, Research & Experimental	0.69%	19	Entomology	1.16%
20	Chemistry, Physical	0.46%	20	Forestry	1.16%
21	Developmental Biology	0.46%	21	Limnology	1.16%
22	Hematology	0.46%	22	Linguistics	1.16%
			23	Mycology	1.16%
			24	Veterinary Sciences	1.16%
			25	Acoustics	0.58%
			26	Agricultural Engineering	0.58%
			27	Astronomy & Astrophysics	0.58%
			28	Audiology & Speech-Language Pathology	0.58%
			29	Cell Biology	0.58%
			30	Chemistry, Applied	0.58%
			31	Food Science & Technology	0.58%
			32	Geography, Physical	0.58%
			33	Geosciences, Multidisciplinary	0.58%
			34	Multidisciplinary Sciences	0.58%
			35	Ornithology	0.58%
			36	Pharmacology & Pharmacy	0.58%
			37	Physics, Particles & Fields	0.58%
			38	Plant Sciences	0.58%
			39	Psychology	0.58%
			40	Psychology, Biological	0.58%
			41	Psychology, Multidisciplinary	0.58%
			42	Tropical Medicine	0.58%

表 27 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (9/34)

地域研究			ジェンダー		
分科	Integer counts		Rank	WoS subject area	Density
	85				27
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Environmental Studies	7.06%	1	Area Studies	7.41%
2	International Relations	7.06%	2	Genetics & Heredity	7.41%
3	Anthropology	5.88%	3	Geriatrics & Gerontology	7.41%
4	Sociology	5.88%	4	Neurosciences	7.41%
5	Area Studies	4.71%	5	Nutrition & Dietetics	7.41%
6	Economics	4.71%	6	Social Sciences, Interdisciplinary	7.41%
7	Environmental Sciences	4.71%	7	Cardiac & Cardiovascular Systems	3.70%
8	Meteorology & Atmospheric Sciences	4.71%	8	Clinical Neurology	3.70%
9	Asian Studies	3.53%	9	Demography	3.70%
10	Biotechnology & Applied Microbiology	3.53%	10	Education, Scientific Disciplines	3.70%
11	Clinical Neurology	3.53%	11	Endocrinology & Metabolism	3.70%
12	Folklore	3.53%	12	Ethics	3.70%
13	Geography, Physical	3.53%	13	Gerontology	3.70%
14	Microbiology	3.53%	14	Health Care Sciences & Services	3.70%
15	Neurosciences	3.53%	15	Medical Ethics	3.70%
16	Agricultural Engineering	2.35%	16	Medicine, Research & Experimental	3.70%
17	Food Science & Technology	2.35%	17	Pharmacology & Pharmacy	3.70%
18	History	2.35%	18	Psychiatry	3.70%
19	Political Science	2.35%	19	Public, Environmental & Occupational Health	3.70%
20	Zoology	2.35%	20	Social Issues	3.70%
21	Agronomy	1.18%	21	Social Sciences, Biomedical	3.70%
22	Art	1.18%			
23	Ecology	1.18%			
24	Education & Educational Research	1.18%			
25	Genetics & Heredity	1.18%			
26	Geriatrics & Gerontology	1.18%			
27	Gerontology	1.18%			
28	History Of Social Sciences	1.18%			
29	Humanities, Multidisciplinary	1.18%			
30	Materials Science, Textiles	1.18%			
31	Planning & Development	1.18%			
32	Polymer Science	1.18%			
33	Religion	1.18%			
34	Social Sciences, Interdisciplinary	1.18%			
35	Soil Science	1.18%			
36	Statistics & Probability	1.18%			

表 28 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (10/34)

哲学			芸術学		
分科	Integer counts	Density	Rank	WoS subject area	Density
	60				9
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Philosophy	18.33%	1	Computer Science, Artificial Intelligence	33.33%
2	Computer Science, Artificial Intelligence	11.67%	2	Computer Science, Software Engineering	22.22%
3	Computer Science, Information Systems	5.00%	3	Art	11.11%
4	Computer Science, Theory & Methods	5.00%	4	Computer Science, Theory & Methods	11.11%
5	Religion	5.00%	5	Imaging Science & Photographic Technology	11.11%
6	Art	3.33%	6	Urban Studies	11.11%
7	Biophysics	3.33%			
8	Chemistry, Physical	3.33%			
9	Engineering, Manufacturing	3.33%			
10	Materials Science, Biomaterials	3.33%			
11	Neurosciences	3.33%			
12	Psychology, Biological	3.33%			
13	Asian Studies	1.67%			
14	Biology	1.67%			
15	Cell Biology	1.67%			
16	Computer Science, Interdisciplinary Applications	1.67%			
17	Computer Science, Software Engineering	1.67%			
18	Economics	1.67%			
19	Education, Scientific Disciplines	1.67%			
20	Engineering, Electrical & Electronic	1.67%			
21	Engineering, Mechanical	1.67%			
22	History & Philosophy Of Science	1.67%			
23	Integrative & Complementary Medicine	1.67%			
24	Language & Linguistics	1.67%			
25	Linguistics	1.67%			
26	Literature	1.67%			
27	Logic	1.67%			
28	Mathematics	1.67%			
29	Political Science	1.67%			
30	Psychology, Experimental	1.67%			
31	Sociology	1.67%			

表 29 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (11/34)

分科 文学			言語学		
Integer counts		41			239
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Literature	34.15%	1	Linguistics	24.27%
2	Language & Linguistics	7.32%	2	Language & Linguistics	16.32%
3	Ethnic Studies	4.88%	3	Neurosciences	10.88%
4	Health Care Sciences & Services	4.88%	4	Engineering, Electrical & Electronic	7.53%
5	History & Philosophy Of Science	4.88%	5	Education & Educational Research	7.11%
6	Humanities, Multidisciplinary	4.88%	6	Computer Science, Artificial Intelligence	5.02%
7	Literature, American	4.88%	7	Psychology, Experimental	5.02%
8	Literature, British Isles	4.88%	8	Computer Science, Theory & Methods	2.93%
9	Poetry	4.88%	9	Computer Science, Information Systems	2.09%
10	Area Studies	2.44%	10	Literature	2.09%
11	Art	2.44%	11	Audiology & Speech-Language Pathology	1.67%
12	Asian Studies	2.44%	12	Communication	1.67%
13	Classics	2.44%	13	Clinical Neurology	1.26%
14	Film, Radio, Television	2.44%	14	Automation & Control Systems	0.84%
15	Linguistics	2.44%	15	Psychiatry	0.84%
16	Literature, Romance	2.44%	16	Psychology	0.84%
17	Music	2.44%	17	Psychology, Educational	0.84%
18	Optics	2.44%	18	Psychology, Multidisciplinary	0.84%
19	Theater	2.44%	19	Rehabilitation	0.84%
			20	Robotics	0.84%
			21	Acoustics	0.42%
			22	Area Studies	0.42%
			23	Art	0.42%
			24	Behavioral Sciences	0.42%
			25	Computer Science, Hardware & Architecture	0.42%
			26	Computer Science, Software Engineering	0.42%
			27	Dance	0.42%
			28	Environmental Studies	0.42%
			29	History	0.42%
			30	Humanities, Multidisciplinary	0.42%
			31	Information Science & Library Science	0.42%
			32	Medicine, General & Internal	0.42%
			33	Otorhinolaryngology	0.42%
			34	Physiology	0.42%
			35	Psychology, Developmental	0.42%

表 30 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (12/34)

分科 史学			人文地理学		
Integer counts		82			14
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	History	14.63%	1	Geography	35.71%
2	Anthropology	12.20%	2	Political Science	14.29%
3	Asian Studies	12.20%	3	Anthropology	7.14%
4	Evolutionary Biology	10.98%	4	Demography	7.14%
5	Geochemistry & Geophysics	6.10%	5	Environmental Sciences	7.14%
6	Area Studies	4.88%	6	Environmental Studies	7.14%
7	Cultural Studies	3.66%	7	Literary Reviews	7.14%
8	Genetics & Heredity	3.66%	8	Marine & Freshwater Biology	7.14%
9	Neurosciences	2.44%	9	Sociology	7.14%
10	Nuclear Science & Technology	2.44%			
11	Physics, Atomic, Molecular & Chemical	2.44%			
12	Archaeology	1.22%			
13	Art	1.22%			
14	Business	1.22%			
15	Chemistry, Physical	1.22%			
16	Classics	1.22%			
17	Ecology	1.22%			
18	Economics	1.22%			
19	Engineering, Electrical & Electronic	1.22%			
20	History & Philosophy Of Science	1.22%			
21	History Of Social Sciences	1.22%			
22	Imaging Science & Photographic Technology	1.22%			
23	Instruments & Instrumentation	1.22%			
24	Language & Linguistics	1.22%			
25	Linguistics	1.22%			
26	Literature	1.22%			
27	Medieval & Renaissance Studies	1.22%			
28	Multidisciplinary Sciences	1.22%			
29	Optics	1.22%			
30	Physics, Nuclear	1.22%			
31	Religion	1.22%			

表 31 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (13/34)

文化人類学			法学		
分科	Integer counts		Rank	WoS subject area	Density
	38				41
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Meteorology & Atmospheric Sciences	10.53%	1	Economics	12.20%
2	Evolutionary Biology	7.89%	2	Law	7.32%
3	Plant Sciences	7.89%	3	Computer Science, Artificial Intelligence	4.88%
4	Surgery	7.89%	4	Criminology & Penology	4.88%
5	Anthropology	5.26%	5	International Relations	4.88%
6	Geosciences, Multidisciplinary	5.26%	6	Toxicology	4.88%
7	Language & Linguistics	5.26%	7	Area Studies	2.44%
8	Linguistics	5.26%	8	Automation & Control Systems	2.44%
9	Veterinary Sciences	5.26%	9	Biochemistry & Molecular Biology	2.44%
10	Area Studies	2.63%	10	Cell & Tissue Engineering	2.44%
11	Art	2.63%	11	Cell Biology	2.44%
12	Behavioral Sciences	2.63%	12	Computer Science, Interdisciplinary Applications	2.44%
13	Biochemistry & Molecular Biology	2.63%	13	Endocrinology & Metabolism	2.44%
14	Cultural Studies	2.63%	14	Ethics	2.44%
15	Ecology	2.63%	15	Health Care Sciences & Services	2.44%
16	Geography, Physical	2.63%	16	Health Policy & Services	2.44%
17	History	2.63%	17	Mathematical & Computational Biology	2.44%
18	Instruments & Instrumentation	2.63%	18	Medical Ethics	2.44%
19	Multidisciplinary Sciences	2.63%	19	Medicine, Research & Experimental	2.44%
20	Nuclear Science & Technology	2.63%	20	Nursing	2.44%
21	Physics, Atomic, Molecular & Chemical	2.63%	21	Oncology	2.44%
22	Physics, Nuclear	2.63%	22	Operations Research & Management Science	2.44%
23	Psychology, Multidisciplinary	2.63%	23	Pharmacology & Pharmacy	2.44%
24	Virology	2.63%	24	Psychology	2.44%
			25	Psychology, Experimental	2.44%
			26	Psychology, Social	2.44%
			27	Public, Environmental & Occupational Health	2.44%
			28	Social Issues	2.44%
			29	Social Sciences, Biomedical	2.44%
			30	Social Sciences, Interdisciplinary	2.44%
			31	Statistics & Probability	2.44%

表 32 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (14/34)

分科 政治学			経済学		
Integer counts		59			992
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Political Science	33.90%	1	Economics	41.03%
2	Sociology	11.86%	2	Social Sciences, Mathematical Methods	5.75%
3	Economics	10.17%	3	Mathematics, Interdisciplinary Applications	5.14%
4	History	8.47%	4	Mathematics, Applied	4.84%
5	Area Studies	6.78%	5	Business, Finance	4.74%
6	International Relations	6.78%	6	Statistics & Probability	3.93%
7	Social Sciences, Interdisciplinary	6.78%	7	Operations Research & Management Science	3.23%
8	Engineering, Civil	1.69%	8	Computer Science, Interdisciplinary Applications	2.92%
9	Engineering, Electrical & Electronic	1.69%	9	Environmental Studies	2.72%
10	Ethics	1.69%	10	International Relations	2.22%
11	Humanities, Multidisciplinary	1.69%	11	Management	2.12%
12	Operations Research & Management Science	1.69%	12	Urban Studies	2.12%
13	Social Issues	1.69%	13	Business	1.61%
14	Social Sciences, Mathematical Methods	1.69%	14	History	1.41%
15	Transportation	1.69%	15	Mathematics	1.21%
16	Transportation Science & Technology	1.69%	16	Political Science	1.01%
			17	Computer Science, Software Engineering	0.91%
			18	Engineering, Industrial	0.91%
			19	Planning & Development	0.91%
			20	Computer Science, Artificial Intelligence	0.81%
			21	Physics, Mathematical	0.81%
			22	Environmental Sciences	0.71%
			23	History Of Social Sciences	0.71%
			24	Social Sciences, Interdisciplinary	0.60%
			25	Transportation	0.50%
			26	Transportation Science & Technology	0.50%
			27	Communication	0.40%
			28	Computer Science, Theory & Methods	0.40%
			29	Geography	0.40%

表 33 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (15/34)

分科 経営学			社会学		
Integer counts		130			90
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Business	16.15%	1	Area Studies	12.22%
2	Management	15.38%	2	Social Sciences, Interdisciplinary	7.78%
3	Economics	10.77%	3	Economics	6.67%
4	Operations Research & Management Science	9.23%	4	Gerontology	6.67%
5	Business, Finance	5.38%	5	Computer Science, Information Systems	5.56%
6	Engineering, Electrical & Electronic	3.85%	6	International Relations	5.56%
7	Engineering, Industrial	3.85%	7	Public, Environmental & Occupational Health	5.56%
8	Environmental Studies	3.85%	8	Political Science	4.44%
9	Planning & Development	3.85%	9	Anthropology	3.33%
10	Environmental Sciences	3.08%	10	Sociology	3.33%
11	Mathematics, Applied	2.31%	11	Criminology & Penology	2.22%
12	Social Issues	2.31%	12	Imaging Science & Photographic Technology	2.22%
13	Computer Science, Artificial Intelligence	1.54%	13	Psychiatry	2.22%
14	Computer Science, Information Systems	1.54%	14	Social Issues	2.22%
15	Computer Science, Interdisciplinary Applications	1.54%	15	Surgery	2.22%
16	Ecology	1.54%	16	Veterinary Sciences	2.22%
17	Engineering, Manufacturing	1.54%	17	Asian Studies	1.11%
18	Urban Studies	1.54%	18	Clinical Neurology	1.11%
19	Area Studies	0.77%	19	Communication	1.11%
20	Automation & Control Systems	0.77%	20	Computer Science, Artificial Intelligence	1.11%
21	Biotechnology & Applied Microbiology	0.77%	21	Computer Science, Interdisciplinary Applications	1.11%
22	Communication	0.77%	22	Computer Science, Software Engineering	1.11%
23	Engineering, Civil	0.77%	23	Computer Science, Theory & Methods	1.11%
24	Engineering, Environmental	0.77%	24	Cultural Studies	1.11%
25	Food Science & Technology	0.77%	25	Demography	1.11%
26	Law	0.77%	26	Environmental Sciences	1.11%
27	Multidisciplinary Sciences	0.77%	27	Industrial Relations & Labor	1.11%
28	Political Science	0.77%	28	Information Science & Library Science	1.11%
29	Social Sciences, Interdisciplinary	0.77%	29	Linguistics	1.11%
30	Sociology	0.77%	30	Management	1.11%
31	Transportation	0.77%	31	Neurosciences	1.11%
32	Transportation Science & Technology	0.77%	32	Nursing	1.11%
			33	Parasitology	1.11%
			34	Psychology, Multidisciplinary	1.11%
			35	Psychology, Social	1.11%
			36	Rehabilitation	1.11%
			37	Religion	1.11%
			38	Telecommunications	1.11%
			39	Tropical Medicine	1.11%

表 34 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (16/34)

心理学			教育学		
分科	Integer counts		Rank	WoS subject area	Density
	794				151
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Psychology, Experimental	15.37%	1	Education & Educational Research	12.58%
2	Neurosciences	13.98%	2	Neurosciences	10.60%
3	Psychology	11.96%	3	Psychology, Experimental	7.28%
4	Psychology, Multidisciplinary	5.79%	4	Physiology	4.64%
5	Behavioral Sciences	4.28%	5	Psychology	4.64%
6	Psychology, Biological	4.16%	6	Psychology, Biological	4.64%
7	Psychology, Developmental	3.90%	7	Psychiatry	3.31%
8	Psychiatry	3.40%	8	Psychology, Developmental	3.31%
9	Physiology	3.15%	9	Clinical Neurology	2.65%
10	Clinical Neurology	2.52%	10	Computer Science, Theory & Methods	2.65%
11	Zoology	2.14%	11	Education, Special	2.65%
12	Psychology, Social	1.76%	12	History Of Social Sciences	2.65%
13	Ophthalmology	1.51%	13	Rehabilitation	2.65%
14	Psychology, Clinical	1.51%	14	Education, Scientific Disciplines	1.99%
15	Computer Science, Artificial Intelligence	1.39%	15	Mathematics	1.99%
16	Public, Environmental & Occupational Health	1.39%	16	Psychology, Educational	1.99%
17	Multidisciplinary Sciences	1.26%	17	Area Studies	1.32%
18	Neuroimaging	1.26%	18	Computer Science, Information Systems	1.32%
19	Computer Science, Theory & Methods	1.13%	19	Criminology & Penology	1.32%
20	Genetics & Heredity	1.13%	20	Engineering, Electrical & Electronic	1.32%
21	Endocrinology & Metabolism	1.01%	21	Family Studies	1.32%
22	Psychology, Educational	1.01%	22	Hematology	1.32%
23	Radiology, Nuclear Medicine & Medical Imaging	1.01%	23	Pediatrics	1.32%
24	Social Sciences, Biomedical	1.01%	24	Psychology, Social	1.32%
25	Linguistics	0.88%	25	Social Work	1.32%
26	Health Care Sciences & Services	0.76%	26	Sport Sciences	1.32%
27	Oncology	0.76%	27	Anthropology	0.66%
28	Psychology, Mathematical	0.76%	28	Cultural Studies	0.66%
29	Social Sciences, Mathematical Methods	0.76%	29	Economics	0.66%
30	Engineering, Electrical & Electronic	0.50%	30	Energy & Fuels	0.66%
31	Mathematics, Interdisciplinary Applications	0.50%	31	Engineering, Chemical	0.66%
32	Rehabilitation	0.50%	32	Engineering, Civil	0.66%
			33	Engineering, Environmental	0.66%
			34	Engineering, Mechanical	0.66%
			35	Environmental Sciences	0.66%
			36	Immunology	0.66%
			37	Instruments & Instrumentation	0.66%
			38	Integrative & Complementary Medicine	0.66%
			39	Medicine, General & Internal	0.66%
			40	Medicine, Research & Experimental	0.66%
			41	Multidisciplinary Sciences	0.66%
			42	Music	0.66%
			43	Neuroimaging	0.66%
			44	Philosophy	0.66%
			45	Political Science	0.66%
			46	Psychology, Mathematical	0.66%
			47	Psychology, Multidisciplinary	0.66%
			48	Radiology, Nuclear Medicine & Medical Imaging	0.66%
			49	Social Issues	0.66%
			50	Thermodynamics	0.66%
			51	Water Resources	0.66%

表 35 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (17/34)

分科 数学			天文学		
Integer counts		2589			1005
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Mathematics	50.37%	1	Astronomy & Astrophysics	86.97%
2	Mathematics, Applied	24.26%	2	Physics, Applied	2.99%
3	Physics, Mathematical	4.98%	3	Optics	1.69%
4	Statistics & Probability	4.17%	4	Geosciences, Multidisciplinary	1.39%
5	Computer Science, Theory & Methods	2.28%	5	Engineering, Electrical & Electronic	0.80%
6	Mechanics	1.31%	6	Multidisciplinary Sciences	0.80%
7	Engineering, Electrical & Electronic	1.16%	7	Physics, Nuclear	0.80%
8	Mathematics, Interdisciplinary Applications	1.16%	8	Chemistry, Physical	0.50%
9	Physics, Multidisciplinary	1.16%	9	Computer Science, Interdisciplinary Applications	0.50%
10	Mathematical & Computational Biology	0.81%	10	Meteorology & Atmospheric Sciences	0.50%
11	Physics, Fluids & Plasmas	0.73%	11	Physics, Particles & Fields	0.50%
12	Computer Science, Information Systems	0.58%			
13	Physics, Applied	0.46%			

表 36 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (18/34)

物理学			地球惑星科学		
分科	Integer counts				
Rank	WoS subject area	Density	Rank	WoS subject area	Density
		5199			2099
1	Physics, Multidisciplinary	19.58%	1	Geochemistry & Geophysics	20.44%
2	Physics, Condensed Matter	14.46%	2	Geosciences, Multidisciplinary	18.53%
3	Physics, Particles & Fields	12.21%	3	Meteorology & Atmospheric Sciences	10.15%
4	Astronomy & Astrophysics	11.18%	4	Astronomy & Astrophysics	8.29%
5	Physics, Applied	8.12%	5	Mineralogy	5.19%
6	Physics, Nuclear	5.62%	6	Oceanography	4.67%
7	Materials Science, Multidisciplinary	5.25%	7	Paleontology	4.53%
8	Physics, Atomic, Molecular & Chemical	3.29%	8	Geology	2.72%
9	Optics	2.52%	9	Materials Science, Multidisciplinary	2.38%
10	Physics, Mathematical	2.08%	10	Instruments & Instrumentation	1.81%
11	Chemistry, Physical	1.90%	11	Geography, Physical	1.72%
12	Nuclear Science & Technology	1.56%	12	Physics, Applied	1.67%
13	Engineering, Electrical & Electronic	1.42%	13	Physics, Condensed Matter	1.38%
14	Nanoscience & Nanotechnology	1.40%	14	Environmental Sciences	1.05%
15	Instruments & Instrumentation	1.33%	15	Multidisciplinary Sciences	0.95%
16	Spectroscopy	1.23%	16	Physics, Multidisciplinary	0.81%
17	Physics, Fluids & Plasmas	1.15%	17	Chemistry, Physical	0.76%
18	Thermodynamics	0.88%	18	Marine & Freshwater Biology	0.76%
19	Chemistry, Multidisciplinary	0.63%	19	Limnology	0.67%
20	Multidisciplinary Sciences	0.48%	20	Microbiology	0.67%
21	Mechanics	0.44%	21	Chemistry, Multidisciplinary	0.62%
			22	Metallurgy & Metallurgical Engineering	0.62%
			23	Physics, Fluids & Plasmas	0.52%
			24	Optics	0.48%
			25	Zoology	0.48%
			26	Nuclear Science & Technology	0.43%

表 37 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (19/34)

分科 プラズマ科学			基礎化学		
Integer counts		508			2448
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Physics, Applied	27.76%	1	Chemistry, Multidisciplinary	25.78%
2	Physics, Fluids & Plasmas	19.09%	2	Chemistry, Physical	14.87%
3	Materials Science, Multidisciplinary	7.48%	3	Chemistry, Organic	13.56%
4	Physics, Condensed Matter	7.09%	4	Physics, Atomic, Molecular & Chemical	10.54%
5	Physics, Multidisciplinary	6.50%	5	Chemistry, Inorganic & Nuclear	10.29%
6	Materials Science, Coatings & Films	4.72%	6	Materials Science, Multidisciplinary	4.58%
7	Physics, Nuclear	4.13%	7	Crystallography	3.43%
8	Instruments & Instrumentation	2.95%	8	Nanoscience & Nanotechnology	2.82%
9	Chemistry, Physical	2.76%	9	Physics, Condensed Matter	2.41%
10	Polymer Science	2.76%	10	Physics, Applied	1.96%
11	Nanoscience & Nanotechnology	2.56%	11	Mathematics, Interdisciplinary Applications	1.59%
12	Chemistry, Multidisciplinary	2.36%	12	Physics, Multidisciplinary	0.98%
13	Engineering, Electrical & Electronic	1.77%	13	Optics	0.86%
14	Nuclear Science & Technology	1.18%	14	Polymer Science	0.82%
15	Optics	1.18%	15	Biochemistry & Molecular Biology	0.61%
16	Physics, Mathematical	1.18%	16	Spectroscopy	0.61%
17	Physics, Particles & Fields	0.98%	17	Chemistry, Analytical	0.49%
18	Astronomy & Astrophysics	0.79%	18	Multidisciplinary Sciences	0.49%
19	Materials Science, Biomaterials	0.59%	19	Chemistry, Medicinal	0.45%
20	Materials Science, Composites	0.59%			
21	Physics, Atomic, Molecular & Chemical	0.59%			

表 38 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (20/34)

複合化学			材料化学		
分科	Integer counts			Integer counts	
Rank	WoS subject area	Density	Rank	WoS subject area	Density
		3573			1635
1	Chemistry, Multidisciplinary	23.17%	1	Chemistry, Physical	14.07%
2	Chemistry, Organic	12.06%	2	Materials Science, Multidisciplinary	13.76%
3	Chemistry, Physical	8.09%	3	Chemistry, Multidisciplinary	12.05%
4	Polymer Science	8.03%	4	Polymer Science	10.40%
5	Materials Science, Multidisciplinary	6.35%	5	Physics, Applied	8.20%
6	Chemistry, Analytical	5.68%	6	Physics, Condensed Matter	5.38%
7	Biochemistry & Molecular Biology	4.70%	7	Electrochemistry	5.02%
8	Chemistry, Inorganic & Nuclear	3.61%	8	Nanoscience & Nanotechnology	4.28%
9	Nanoscience & Nanotechnology	3.08%	9	Energy & Fuels	2.57%
10	Physics, Applied	2.99%	10	Materials Science, Ceramics	2.39%
11	Physics, Condensed Matter	2.41%	11	Chemistry, Organic	2.14%
12	Biochemical Research Methods	2.10%	12	Crystallography	2.14%
13	Physics, Atomic, Molecular & Chemical	2.07%	13	Physics, Atomic, Molecular & Chemical	2.02%
14	Crystallography	1.88%	14	Materials Science, Coatings & Films	1.41%
15	Chemistry, Medicinal	1.46%	15	Optics	1.35%
16	Biophysics	1.40%	16	Physics, Multidisciplinary	1.28%
17	Electrochemistry	1.40%	17	Chemistry, Inorganic & Nuclear	1.22%
18	Spectroscopy	1.15%	18	Engineering, Electrical & Electronic	1.22%
19	Chemistry, Applied	0.92%	19	Biochemistry & Molecular Biology	0.86%
20	Materials Science, Coatings & Films	0.70%	20	Metallurgy & Metallurgical Engineering	0.80%
21	Engineering, Chemical	0.62%	21	Chemistry, Applied	0.67%
22	Pharmacology & Pharmacy	0.50%	22	Engineering, Chemical	0.67%
23	Biotechnology & Applied Microbiology	0.48%	23	Chemistry, Analytical	0.49%
24	Instruments & Instrumentation	0.45%	24	Physics, Mathematical	0.49%
25	Multidisciplinary Sciences	0.45%	25	Biophysics	0.43%
			26	Materials Science, Biomaterials	0.43%
			27	Physics, Fluids & Plasmas	0.43%

表 39 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (21/34)

分科 応用物理学・工学基礎			機械工学		
Integer counts		2235			2675
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Physics, Applied	26.35%	1	Engineering, Mechanical	11.81%
2	Physics, Condensed Matter	9.49%	2	Materials Science, Multidisciplinary	8.79%
3	Optics	9.44%	3	Engineering, Electrical & Electronic	6.65%
4	Materials Science, Multidisciplinary	9.08%	4	Mechanics	6.24%
5	Engineering, Electrical & Electronic	8.64%	5	Physics, Applied	6.17%
6	Chemistry, Physical	4.38%	6	Robotics	4.79%
7	Nanoscience & Nanotechnology	3.80%	7	Thermodynamics	4.71%
8	Physics, Multidisciplinary	3.13%	8	Nanoscience & Nanotechnology	4.11%
9	Crystallography	2.73%	9	Automation & Control Systems	3.59%
10	Materials Science, Coatings & Films	2.28%	10	Computer Science, Artificial Intelligence	3.44%
11	Mathematics, Applied	1.74%	11	Engineering, Manufacturing	2.77%
12	Chemistry, Multidisciplinary	1.48%	12	Engineering, Biomedical	2.54%
13	Physics, Fluids & Plasmas	1.34%	13	Instruments & Instrumentation	2.39%
14	Physics, Mathematical	1.34%	14	Chemistry, Physical	1.79%
15	Instruments & Instrumentation	0.98%	15	Engineering, Multidisciplinary	1.61%
16	Nuclear Science & Technology	0.98%	16	Physics, Condensed Matter	1.57%
17	Spectroscopy	0.81%	17	Computer Science, Interdisciplinary Applications	1.42%
18	Microscopy	0.72%	18	Energy & Fuels	1.31%
19	Operations Research & Management Science	0.72%	19	Physics, Fluids & Plasmas	1.31%
20	Physics, Atomic, Molecular & Chemical	0.72%	20	Electrochemistry	1.27%
21	Astronomy & Astrophysics	0.67%	21	Engineering, Chemical	1.23%
22	Telecommunications	0.67%	22	Materials Science, Composites	1.23%
23	Computer Science, Theory & Methods	0.58%	23	Optics	1.12%
24	Materials Science, Composites	0.58%	24	Metallurgy & Metallurgical Engineering	1.08%
25	Electrochemistry	0.40%	25	Computer Science, Theory & Methods	0.97%
26	Metallurgy & Metallurgical Engineering	0.40%	26	Physics, Multidisciplinary	0.93%
27	Physics, Particles & Fields	0.40%	27	Materials Science, Coatings & Films	0.90%
28	Thermodynamics	0.40%	28	Chemistry, Multidisciplinary	0.82%
			29	Materials Science, Characterization & Testing	0.75%
			30	Engineering, Industrial	0.71%
			31	Biophysics	0.67%
			32	Mathematics, Applied	0.67%
			33	Chemistry, Analytical	0.64%
			34	Computer Science, Information Systems	0.64%
			35	Materials Science, Biomaterials	0.64%
			36	Engineering, Aerospace	0.60%
			37	Computer Science, Cybernetics	0.45%
			38	Polymer Science	0.45%
			39	Acoustics	0.41%
			40	Nuclear Science & Technology	0.41%
			41	Physics, Mathematical	0.41%

表 40 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (22/34)

電気電子工学			土木工学		
分科	Integer counts		Rank	WoS subject area	Density
	4875				711
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Engineering, Electrical & Electronic	26.56%	1	Engineering, Civil	13.50%
2	Physics, Applied	19.94%	2	Environmental Sciences	10.97%
3	Optics	6.79%	3	Water Resources	9.00%
4	Telecommunications	6.61%	4	Engineering, Environmental	7.17%
5	Materials Science, Multidisciplinary	4.18%	5	Geosciences, Multidisciplinary	6.19%
6	Physics, Condensed Matter	3.34%	6	Engineering, Geological	5.34%
7	Automation & Control Systems	2.73%	7	Transportation Science & Technology	5.20%
8	Computer Science, Information Systems	2.71%	8	Materials Science, Multidisciplinary	4.22%
9	Computer Science, Hardware & Architecture	2.38%	9	Mechanics	2.95%
10	Computer Science, Theory & Methods	2.34%	10	Engineering, Ocean	2.81%
11	Computer Science, Artificial Intelligence	2.26%	11	Transportation	2.81%
12	Nanoscience & Nanotechnology	1.60%	12	Construction & Building Technology	2.53%
13	Materials Science, Coatings & Films	1.54%	13	Oceanography	1.97%
14	Computer Science, Interdisciplinary Applications	0.92%	14	Engineering, Mechanical	1.83%
15	Physics, Multidisciplinary	0.92%	15	Mathematics, Applied	1.69%
16	Instruments & Instrumentation	0.88%	16	Public, Environmental & Occupational Health	1.27%
17	Imaging Science & Photographic Technology	0.84%	17	Meteorology & Atmospheric Sciences	1.13%
18	Robotics	0.84%	18	Limnology	0.98%
19	Energy & Fuels	0.80%	19	Operations Research & Management Science	0.98%
20	Chemistry, Physical	0.64%	20	Economics	0.84%
21	Mathematics, Applied	0.64%	21	Engineering, Multidisciplinary	0.84%
22	Electrochemistry	0.57%	22	Marine & Freshwater Biology	0.84%
23	Transportation Science & Technology	0.57%	23	Mathematics, Interdisciplinary Applications	0.84%
24	Engineering, Biomedical	0.55%	24	Ecology	0.70%
25	Crystallography	0.51%	25	Engineering, Chemical	0.70%
26	Remote Sensing	0.49%	26	Biotechnology & Applied Microbiology	0.56%
27	Engineering, Multidisciplinary	0.45%	27	Environmental Studies	0.56%
28	Materials Science, Ceramics	0.43%	28	Geography, Physical	0.56%
29	Computer Science, Cybernetics	0.41%	29	Instruments & Instrumentation	0.56%
			30	Microbiology	0.56%
			31	Multidisciplinary Sciences	0.56%
			32	Soil Science	0.56%
			33	Computer Science, Information Systems	0.42%
			34	Fisheries	0.42%
			35	Geology	0.42%
			36	Physics, Applied	0.42%
			37	Toxicology	0.42%

表 41 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (23/34)

分科 建築学			材料工学		
Integer counts		170			2931
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Engineering, Civil	24.71%	1	Materials Science, Multidisciplinary	26.85%
2	Construction & Building Technology	21.76%	2	Metallurgy & Metallurgical Engineering	13.92%
3	Architecture	4.12%	3	Physics, Applied	10.95%
4	Energy & Fuels	4.12%	4	Chemistry, Physical	6.58%
5	Engineering, Geological	4.12%	5	Physics, Condensed Matter	6.38%
6	Engineering, Mechanical	4.12%	6	Materials Science, Coatings & Films	4.91%
7	Engineering, Environmental	3.53%	7	Materials Science, Ceramics	3.72%
8	Materials Science, Multidisciplinary	2.94%	8	Engineering, Electrical & Electronic	3.41%
9	Engineering, Multidisciplinary	2.35%	9	Nanoscience & Nanotechnology	2.97%
10	Mechanics	2.35%	10	Electrochemistry	2.83%
11	Acoustics	1.76%	11	Materials Science, Composites	2.49%
12	Environmental Studies	1.76%	12	Materials Science, Biomaterials	1.94%
13	Geography	1.76%	13	Chemistry, Multidisciplinary	1.74%
14	Computer Science, Artificial Intelligence	1.18%	14	Physics, Multidisciplinary	1.09%
15	Computer Science, Interdisciplinary Applications	1.18%	15	Polymer Science	0.85%
16	Engineering, Chemical	1.18%	16	Instruments & Instrumentation	0.75%
17	Engineering, Electrical & Electronic	1.18%	17	Nuclear Science & Technology	0.72%
18	Operations Research & Management Science	1.18%	18	Optics	0.72%
19	Physics, Applied	1.18%	19	Chemistry, Inorganic & Nuclear	0.61%
20	Audiology & Speech-Language Pathology	0.59%	20	Physics, Atomic, Molecular & Chemical	0.61%
21	Biology	0.59%	21	Crystallography	0.55%
22	Cell Biology	0.59%	22	Energy & Fuels	0.51%
23	Computer Science, Hardware & Architecture	0.59%	23	Microscopy	0.51%
24	Computer Science, Information Systems	0.59%			
25	Computer Science, Software Engineering	0.59%			
26	Computer Science, Theory & Methods	0.59%			
27	Engineering, Biomedical	0.59%			
28	Engineering, Industrial	0.59%			
29	Environmental Sciences	0.59%			
30	Geosciences, Multidisciplinary	0.59%			
31	Materials Science, Biomaterials	0.59%			
32	Materials Science, Composites	0.59%			
33	Mathematics, Interdisciplinary Applications	0.59%			
34	Meteorology & Atmospheric Sciences	0.59%			
35	Multidisciplinary Sciences	0.59%			
36	Oceanography	0.59%			
37	Optics	0.59%			
38	Physiology	0.59%			
39	Planning & Development	0.59%			
40	Psychology	0.59%			
41	Psychology, Experimental	0.59%			
42	Urban Studies	0.59%			

表 42 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (24/34)

プロセス工学			総合工学		
分科	Integer counts		Rank	WoS subject area	Density
	1283				1465
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Chemistry, Physical	15.51%	1	Nuclear Science & Technology	9.35%
2	Chemistry, Multidisciplinary	12.70%	2	Materials Science, Multidisciplinary	9.08%
3	Engineering, Chemical	10.13%	3	Physics, Applied	7.85%
4	Materials Science, Multidisciplinary	7.72%	4	Physics, Fluids & Plasmas	6.96%
5	Biotechnology & Applied Microbiology	6.63%	5	Physics, Nuclear	5.05%
6	Chemistry, Applied	4.68%	6	Engineering, Electrical & Electronic	3.96%
7	Biochemistry & Molecular Biology	3.90%	7	Engineering, Mechanical	3.75%
8	Food Science & Technology	3.20%	8	Mining & Mineral Processing	3.21%
9	Nanoscience & Nanotechnology	2.88%	9	Chemistry, Physical	2.87%
10	Polymer Science	2.34%	10	Energy & Fuels	2.66%
11	Physics, Applied	2.26%	11	Instruments & Instrumentation	2.53%
12	Energy & Fuels	2.03%	12	Metallurgy & Metallurgical Engineering	2.53%
13	Chemistry, Organic	1.95%	13	Physics, Atomic, Molecular & Chemical	2.39%
14	Chemistry, Analytical	1.79%	14	Physics, Condensed Matter	2.25%
15	Electrochemistry	1.71%	15	Engineering, Aerospace	2.18%
16	Biophysics	1.56%	16	Optics	1.77%
17	Physics, Condensed Matter	1.48%	17	Physics, Multidisciplinary	1.57%
18	Environmental Sciences	1.33%	18	Electrochemistry	1.43%
19	Engineering, Environmental	1.25%	19	Chemistry, Multidisciplinary	1.23%
20	Materials Science, Biomaterials	1.25%	20	Engineering, Chemical	1.23%
21	Physics, Atomic, Molecular & Chemical	1.25%	21	Engineering, Environmental	1.16%
22	Biochemical Research Methods	1.17%	22	Environmental Sciences	1.16%
23	Oncology	0.86%	23	Geosciences, Multidisciplinary	1.16%
24	Pharmacology & Pharmacy	0.86%	24	Materials Science, Composites	1.02%
25	Engineering, Electrical & Electronic	0.78%	25	Mechanics	1.02%
26	Metallurgy & Metallurgical Engineering	0.78%	26	Spectroscopy	1.02%
27	Chemistry, Medicinal	0.70%	27	Engineering, Civil	0.96%
28	Engineering, Biomedical	0.70%	28	Engineering, Ocean	0.89%
29	Cell Biology	0.62%	29	Oceanography	0.89%
30	Microbiology	0.62%	30	Computer Science, Artificial Intelligence	0.82%
31	Materials Science, Ceramics	0.47%	31	Computer Science, Interdisciplinary Applications	0.82%
32	Materials Science, Coatings & Films	0.47%	32	Mineralogy	0.82%
			33	Nanoscience & Nanotechnology	0.75%
			34	Robotics	0.75%
			35	Chemistry, Inorganic & Nuclear	0.68%
			36	Geochemistry & Geophysics	0.68%
			37	Thermodynamics	0.68%
			38	Engineering, Marine	0.61%
			39	Physics, Particles & Fields	0.61%
			40	Materials Science, Coatings & Films	0.55%
			41	Automation & Control Systems	0.48%
			42	Computer Science, Cybernetics	0.48%
			43	Engineering, Multidisciplinary	0.48%
			44	Polymer Science	0.48%
			45	Computer Science, Software Engineering	0.41%
			46	Computer Science, Theory & Methods	0.41%
			47	Geology	0.41%
			48	Radiology, Nuclear Medicine & Medical Imaging	0.41%

表 43 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (25/34)

分科 基礎生物学			生物科学		
Integer counts		2423			2679
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Plant Sciences	14.16%	1	Biochemistry & Molecular Biology	28.78%
2	Biochemistry & Molecular Biology	10.57%	2	Cell Biology	17.58%
3	Cell Biology	9.29%	3	Biophysics	6.94%
4	Ecology	6.69%	4	Developmental Biology	4.89%
5	Genetics & Heredity	6.64%	5	Genetics & Heredity	4.89%
6	Zoology	6.19%	6	Multidisciplinary Sciences	4.40%
7	Evolutionary Biology	5.32%	7	Biochemical Research Methods	2.50%
8	Entomology	3.92%	8	Biotechnology & Applied Microbiology	2.28%
9	Marine & Freshwater Biology	3.67%	9	Neurosciences	2.16%
10	Multidisciplinary Sciences	3.18%	10	Immunology	1.94%
11	Endocrinology & Metabolism	2.48%	11	Chemistry, Multidisciplinary	1.72%
12	Neurosciences	2.23%	12	Microbiology	1.64%
13	Biology	2.10%	13	Crystallography	1.34%
14	Developmental Biology	1.90%	14	Oncology	1.27%
15	Behavioral Sciences	1.57%	15	Evolutionary Biology	0.78%
16	Biophysics	1.44%	16	Plant Sciences	0.75%
17	Biotechnology & Applied Microbiology	1.44%	17	Chemistry, Physical	0.71%
18	Physiology	1.44%	18	Materials Science, Multidisciplinary	0.71%
19	Microbiology	1.24%	19	Physics, Applied	0.71%
20	Environmental Sciences	0.83%	20	Biology	0.67%
21	Pharmacology & Pharmacy	0.83%	21	Pharmacology & Pharmacy	0.67%
22	Forestry	0.74%	22	Food Science & Technology	0.60%
23	Biodiversity Conservation	0.70%	23	Chemistry, Applied	0.56%
24	Mathematical & Computational Biology	0.66%	24	Entomology	0.56%
25	Fisheries	0.58%	25	Chemistry, Medicinal	0.52%
26	Psychology, Biological	0.50%	26	Hematology	0.52%
27	Toxicology	0.50%	27	Physiology	0.52%
28	Food Science & Technology	0.41%	28	Zoology	0.52%
29	Mycology	0.41%	29	Chemistry, Organic	0.49%
			30	Anatomy & Morphology	0.45%
			31	Chemistry, Analytical	0.41%
			32	Endocrinology & Metabolism	0.41%
			33	Medicine, Research & Experimental	0.41%

表 44 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (26/34)

分科 人類学			農学		
Integer counts		300			899
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Anthropology	21.67%	1	Plant Sciences	22.58%
2	Evolutionary Biology	20.67%	2	Biochemistry & Molecular Biology	11.12%
3	Zoology	10.33%	3	Agronomy	7.90%
4	Multidisciplinary Sciences	7.67%	4	Entomology	7.90%
5	Genetics & Heredity	7.33%	5	Horticulture	6.56%
6	Biochemistry & Molecular Biology	4.67%	6	Biotechnology & Applied Microbiology	5.90%
7	Physiology	3.67%	7	Genetics & Heredity	5.90%
8	Neurosciences	2.33%	8	Cell Biology	4.78%
9	Biology	2.00%	9	Virology	2.56%
10	Geosciences, Multidisciplinary	2.00%	10	Zoology	2.34%
11	Archaeology	1.67%	11	Ecology	2.00%
12	Dentistry, Oral Surgery & Medicine	1.67%	12	Microbiology	1.89%
13	Ecology	1.33%	13	Food Science & Technology	1.78%
14	Endocrinology & Metabolism	1.33%	14	Multidisciplinary Sciences	1.78%
15	Paleontology	1.33%	15	Physiology	1.78%
16	Anatomy & Morphology	1.00%	16	Agriculture, Multidisciplinary	1.45%
17	Cell Biology	1.00%	17	Evolutionary Biology	1.11%
18	Sport Sciences	1.00%	18	Chemistry, Organic	1.00%
19	Chemistry, Multidisciplinary	0.67%	19	Environmental Sciences	0.89%
20	Developmental Biology	0.67%	20	Chemistry, Applied	0.78%
21	Geochemistry & Geophysics	0.67%	21	Forestry	0.78%
22	Nutrition & Dietetics	0.67%	22	Biology	0.67%
			23	Biophysics	0.67%
			24	Biodiversity Conservation	0.56%
			25	Pharmacology & Pharmacy	0.56%
			26	Developmental Biology	0.44%
			27	Mycology	0.44%
			28	Reproductive Biology	0.44%
			29	Soil Science	0.44%

表 45 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (27/34)

農芸化学			林学		
分科	Integer counts			Integer counts	
Rank	WoS subject area	Density	Rank	WoS subject area	Density
		1755			559
1	Biochemistry & Molecular Biology	21.37%	1	Forestry	10.73%
2	Biotechnology & Applied Microbiology	13.39%	2	Ecology	9.84%
3	Food Science & Technology	8.38%	3	Plant Sciences	6.62%
4	Chemistry, Applied	7.64%	4	Polymer Science	5.37%
5	Microbiology	7.07%	5	Biodiversity Conservation	5.19%
6	Cell Biology	4.33%	6	Environmental Sciences	5.01%
7	Chemistry, Organic	3.87%	7	Biochemistry & Molecular Biology	4.47%
8	Plant Sciences	3.65%	8	Chemistry, Organic	4.47%
9	Biophysics	3.13%	9	Materials Science, Paper & Wood	4.47%
10	Pharmacology & Pharmacy	2.68%	10	Water Resources	4.11%
11	Chemistry, Medicinal	2.51%	11	Mycology	2.86%
12	Immunology	2.11%	12	Chemistry, Applied	2.33%
13	Nutrition & Dietetics	1.65%	13	Materials Science, Textiles	1.97%
14	Chemistry, Multidisciplinary	1.31%	14	Soil Science	1.97%
15	Biochemical Research Methods	1.25%	15	Chemistry, Multidisciplinary	1.79%
16	Genetics & Heredity	1.20%	16	Entomology	1.79%
17	Soil Science	1.14%	17	Evolutionary Biology	1.79%
18	Agriculture, Multidisciplinary	1.03%	18	Geography, Physical	1.79%
19	Neurosciences	1.03%	19	Geosciences, Multidisciplinary	1.79%
20	Agronomy	0.97%	20	Biotechnology & Applied Microbiology	1.61%
21	Endocrinology & Metabolism	0.97%	21	Zoology	1.43%
22	Crystallography	0.74%	22	Astronomy & Astrophysics	1.25%
23	Oncology	0.74%	23	Genetics & Heredity	1.25%
24	Toxicology	0.63%	24	Materials Science, Multidisciplinary	1.25%
25	Multidisciplinary Sciences	0.51%	25	Physics, Multidisciplinary	1.25%
26	Chemistry, Physical	0.46%	26	Agriculture, Multidisciplinary	1.07%
27	Engineering, Chemical	0.46%	27	Chemistry, Analytical	1.07%
28	Mycology	0.40%	28	Spectroscopy	1.07%
29	Peripheral Vascular Disease	0.40%	29	Agronomy	0.89%
			30	Biochemical Research Methods	0.89%
			31	Limnology	0.89%
			32	Meteorology & Atmospheric Sciences	0.72%
			33	Microbiology	0.72%
			34	Multidisciplinary Sciences	0.72%
			35	Biophysics	0.54%
			36	Engineering, Civil	0.54%

表 46 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (28/34)

分科 水産学			農業経済学		
Integer counts		581			31
Rank	WoS subject area	Density	Rank	WoS subject area	Density
	1 Fisheries	19.10%	1	Economics	35.48%
	2 Marine & Freshwater Biology	13.60%	2	Agriculture, Multidisciplinary	19.35%
	3 Zoology	6.88%	3	Environmental Studies	9.68%
	4 Biochemistry & Molecular Biology	5.85%	4	Agricultural Economics & Policy	6.45%
	5 Ecology	4.48%	5	Business	3.23%
	6 Biotechnology & Applied Microbiology	4.13%	6	Business, Finance	3.23%
	7 Oceanography	3.61%	7	Ecology	3.23%
	8 Veterinary Sciences	3.61%	8	Environmental Sciences	3.23%
	9 Immunology	3.44%	9	Food Science & Technology	3.23%
	10 Microbiology	2.75%	10	Forestry	3.23%
	11 Environmental Sciences	2.41%	11	Hospitality, Leisure, Sport & Tourism	3.23%
	12 Food Science & Technology	1.89%	12	International Relations	3.23%
	13 Endocrinology & Metabolism	1.72%	13	Sociology	3.23%
	14 Pharmacology & Pharmacy	1.72%			
	15 Physiology	1.72%			
	16 Chemistry, Applied	1.55%			
	17 Cell Biology	1.38%			
	18 Developmental Biology	1.38%			
	19 Biology	1.20%			
	20 Chemistry, Organic	1.20%			
	21 Toxicology	1.20%			
	22 Evolutionary Biology	1.03%			
	23 Multidisciplinary Sciences	1.03%			
	24 Plant Sciences	1.03%			
	25 Biodiversity Conservation	0.86%			
	26 Neurosciences	0.86%			
	27 Reproductive Biology	0.86%			
	28 Biochemical Research Methods	0.69%			
	29 Virology	0.69%			
	30 Agriculture, Multidisciplinary	0.52%			
	31 Biophysics	0.52%			
	32 Chemistry, Analytical	0.52%			
	33 Chemistry, Medicinal	0.52%			
	34 Genetics & Heredity	0.52%			
	35 Geosciences, Multidisciplinary	0.52%			

表 47 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (29/34)

農業工学			畜産学・獣医学		
分科	Integer counts		Rank	WoS subject area	Density
	216				1190
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Agronomy	8.80%	1	Veterinary Sciences	15.97%
2	Agricultural Engineering	7.41%	2	Agriculture, Dairy & Animal Science	8.99%
3	Agriculture, Multidisciplinary	6.48%	3	Reproductive Biology	8.74%
4	Geosciences, Multidisciplinary	4.17%	4	Biochemistry & Molecular Biology	5.97%
5	Nuclear Science & Technology	4.17%	5	Parasitology	4.96%
6	Water Resources	4.17%	6	Immunology	3.78%
7	Food Science & Technology	3.70%	7	Neurosciences	3.70%
8	Plant Sciences	3.70%	8	Virology	3.61%
9	Chemistry, Analytical	3.24%	9	Cell Biology	3.36%
10	Horticulture	3.24%	10	Endocrinology & Metabolism	3.36%
11	Biology	2.78%	11	Microbiology	3.03%
12	Chemistry, Applied	2.78%	12	Developmental Biology	2.94%
13	Chemistry, Inorganic & Nuclear	2.78%	13	Biotechnology & Applied Microbiology	2.18%
14	Biotechnology & Applied Microbiology	2.31%	14	Zoology	2.10%
15	Computer Science, Artificial Intelligence	2.31%	15	Food Science & Technology	2.02%
16	Engineering, Geological	2.31%	16	Pharmacology & Pharmacy	2.02%
17	Spectroscopy	2.31%	17	Biophysics	1.85%
18	Engineering, Civil	1.85%	18	Genetics & Heredity	1.85%
19	Engineering, Electrical & Electronic	1.85%	19	Physiology	1.85%
20	Environmental Sciences	1.85%	20	Infectious Diseases	1.60%
21	Mathematics, Applied	1.85%	21	Multidisciplinary Sciences	1.51%
22	Remote Sensing	1.85%	22	Medicine, Research & Experimental	1.18%
23	Soil Science	1.85%	23	Pathology	1.01%
24	Automation & Control Systems	1.39%	24	Toxicology	0.92%
25	Biochemistry & Molecular Biology	1.39%	25	Anatomy & Morphology	0.76%
26	Ecology	1.39%	26	Chemistry, Applied	0.76%
27	Geography, Physical	1.39%	27	Agriculture, Multidisciplinary	0.67%
28	Imaging Science & Photographic Technology	1.39%	28	Hematology	0.67%
29	Instruments & Instrumentation	1.39%	29	Entomology	0.59%
30	Meteorology & Atmospheric Sciences	0.93%	30	Behavioral Sciences	0.50%
31	Operations Research & Management Science	0.93%	31	Dermatology	0.50%
32	Architecture	0.46%	32	Ecology	0.50%
33	Chemistry, Physical	0.46%	33	Biochemical Research Methods	0.42%
34	Computer Science, Information Systems	0.46%	34	Energy & Fuels	0.42%
35	Computer Science, Interdisciplinary Applications	0.46%			
36	Computer Science, Theory & Methods	0.46%			
37	Construction & Building Technology	0.46%			
38	Economics	0.46%			
39	Energy & Fuels	0.46%			
40	Engineering, Environmental	0.46%			
41	Engineering, Mechanical	0.46%			
42	Entomology	0.46%			
43	Environmental Studies	0.46%			
44	Forestry	0.46%			
45	Geography	0.46%			
46	Materials Science, Ceramics	0.46%			
47	Materials Science, Multidisciplinary	0.46%			
48	Materials Science, Paper & Wood	0.46%			
49	Mathematics, Interdisciplinary Applications	0.46%			
50	Microbiology	0.46%			
51	Philosophy	0.46%			
52	Physics, Applied	0.46%			
53	Physics, Condensed Matter	0.46%			
54	Physics, Mathematical	0.46%			
55	Physics, Multidisciplinary	0.46%			
56	Physics, Particles & Fields	0.46%			
57	Toxicology	0.46%			

表 48 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (30/34)

境界農学			薬学		
分科	Integer counts		Rank	WoS subject area	Density
	541				3457
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Biochemistry & Molecular Biology	15.16%	1	Chemistry, Organic	15.74%
2	Plant Sciences	9.24%	2	Pharmacology & Pharmacy	13.71%
3	Biotechnology & Applied Microbiology	7.58%	3	Biochemistry & Molecular Biology	13.54%
4	Soil Science	6.47%	4	Chemistry, Multidisciplinary	10.50%
5	Agronomy	5.55%	5	Chemistry, Medicinal	5.61%
6	Cell Biology	5.36%	6	Cell Biology	3.73%
7	Food Science & Technology	4.81%	7	Biophysics	3.33%
8	Microbiology	4.07%	8	Neurosciences	3.01%
9	Chemistry, Applied	3.51%	9	Oncology	2.46%
10	Biophysics	2.59%	10	Peripheral Vascular Disease	2.26%
11	Polymer Science	2.22%	11	Chemistry, Analytical	2.05%
12	Biochemical Research Methods	1.85%	12	Biochemical Research Methods	1.88%
13	Environmental Sciences	1.85%	13	Toxicology	1.88%
14	Genetics & Heredity	1.85%	14	Immunology	1.82%
15	Chemistry, Organic	1.66%	15	Microbiology	1.19%
16	Materials Science, Paper & Wood	1.66%	16	Endocrinology & Metabolism	1.07%
17	Virology	1.66%	17	Medicine, Research & Experimental	1.07%
18	Entomology	1.48%	18	Biotechnology & Applied Microbiology	0.93%
19	Neurosciences	1.29%	19	Multidisciplinary Sciences	0.93%
20	Materials Science, Textiles	1.11%	20	Physiology	0.84%
21	Multidisciplinary Sciences	1.11%	21	Genetics & Heredity	0.72%
22	Oncology	1.11%	22	Chemistry, Applied	0.67%
23	Veterinary Sciences	1.11%	23	Hematology	0.67%
24	Agriculture, Dairy & Animal Science	0.92%	24	Chemistry, Physical	0.55%
25	Chemistry, Medicinal	0.92%	25	Chemistry, Inorganic & Nuclear	0.49%
26	Forestry	0.92%	26	Engineering, Biomedical	0.49%
27	Physiology	0.92%	27	Materials Science, Biomaterials	0.49%
28	Behavioral Sciences	0.74%	28	Food Science & Technology	0.46%
29	Engineering, Environmental	0.74%			
30	Agriculture, Multidisciplinary	0.55%			
31	Crystallography	0.55%			
32	Ecology	0.55%			
33	Pharmacology & Pharmacy	0.55%			
34	Physics, Applied	0.55%			
35	Reproductive Biology	0.55%			
36	Zoology	0.55%			

表 49 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (31/34)

基礎医学			境界医学		
分科	Integer counts			Integer counts	
Rank	WoS subject area	Density	Rank	WoS subject area	Density
		5232			850
1	Biochemistry & Molecular Biology	11.62%	1	Pharmacology & Pharmacy	9.18%
2	Cell Biology	9.82%	2	Biochemistry & Molecular Biology	8.94%
3	Immunology	8.18%	3	Oncology	8.47%
4	Oncology	7.57%	4	Hematology	7.06%
5	Neurosciences	4.85%	5	Neurosciences	6.00%
6	Genetics & Heredity	4.09%	6	Peripheral Vascular Disease	3.53%
7	Medicine, Research & Experimental	3.82%	7	Immunology	2.94%
8	Physiology	3.52%	8	Medical Laboratory Technology	2.94%
9	Pathology	3.33%	9	Cardiac & Cardiovascular Systems	2.71%
10	Virology	3.21%	10	Health Care Sciences & Services	2.47%
11	Multidisciplinary Sciences	3.17%	11	Biophysics	2.24%
12	Biophysics	3.04%	12	Rheumatology	2.00%
13	Microbiology	2.96%	13	Cell Biology	1.88%
14	Pharmacology & Pharmacy	2.79%	14	Chemistry, Analytical	1.88%
15	Hematology	2.06%	15	Biochemical Research Methods	1.76%
16	Endocrinology & Metabolism	1.95%	16	Chemistry, Medicinal	1.76%
17	Gastroenterology & Hepatology	1.61%	17	Endocrinology & Metabolism	1.76%
18	Peripheral Vascular Disease	1.61%	18	Chemistry, Organic	1.65%
19	Biotechnology & Applied Microbiology	1.57%	19	Transplantation	1.65%
20	Developmental Biology	1.55%	20	Medicine, General & Internal	1.53%
21	Infectious Diseases	1.53%	21	Gastroenterology & Hepatology	1.41%
22	Parasitology	1.17%	22	Medicine, Research & Experimental	1.41%
23	Cardiac & Cardiovascular Systems	1.15%	23	Critical Care Medicine	1.29%
24	Clinical Neurology	0.86%	24	Microbiology	1.29%
25	Urology & Nephrology	0.67%	25	Genetics & Heredity	1.18%
26	Surgery	0.65%	26	Chemistry, Multidisciplinary	1.06%
27	Biochemical Research Methods	0.59%	27	Radiology, Nuclear Medicine & Medical Imaging	1.06%
28	Respiratory System	0.59%	28	Clinical Neurology	0.94%
29	Tropical Medicine	0.52%	29	Psychiatry	0.94%
30	Reproductive Biology	0.48%	30	Pathology	0.82%
31	Microscopy	0.46%	31	Surgery	0.82%
32	Biology	0.42%	32	Health Policy & Services	0.71%
33	Toxicology	0.42%	33	Infectious Diseases	0.71%
34	Veterinary Sciences	0.42%	34	Nutrition & Dietetics	0.71%
			35	Physiology	0.71%
			36	Urology & Nephrology	0.71%
			37	Virology	0.71%
			38	Obstetrics & Gynecology	0.59%
			39	Physics, Applied	0.59%
			40	Behavioral Sciences	0.47%
			41	Chemistry, Applied	0.47%
			42	Education, Scientific Disciplines	0.47%
			43	Engineering, Biomedical	0.47%
			44	Engineering, Electrical & Electronic	0.47%
			45	Medical Informatics	0.47%
			46	Multidisciplinary Sciences	0.47%
			47	Rehabilitation	0.47%

表 50 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (32/34)

社会医学			内科系臨床医学		
分科	Integer counts	Density	Rank	WoS subject area	Density
	1065			10215	
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Toxicology	8.54%	1	Oncology	6.87%
2	Public, Environmental & Occupational Health	8.36%	2	Biochemistry & Molecular Biology	6.29%
3	Peripheral Vascular Disease	6.48%	3	Neurosciences	5.66%
4	Pharmacology & Pharmacy	5.16%	4	Hematology	5.35%
5	Biochemistry & Molecular Biology	4.69%	5	Clinical Neurology	5.24%
6	Oncology	4.13%	6	Cardiac & Cardiovascular Systems	4.88%
7	Endocrinology & Metabolism	3.38%	7	Gastroenterology & Hepatology	4.38%
8	Environmental Sciences	3.38%	8	Endocrinology & Metabolism	4.36%
9	Clinical Neurology	2.91%	9	Immunology	4.36%
10	Immunology	2.63%	10	Peripheral Vascular Disease	4.20%
11	Neurosciences	2.44%	11	Radiology, Nuclear Medicine & Medical Imaging	3.50%
12	Nutrition & Dietetics	2.25%	12	Cell Biology	3.37%
13	Gastroenterology & Hepatology	2.16%	13	Pharmacology & Pharmacy	2.90%
14	Medical Laboratory Technology	2.16%	14	Genetics & Heredity	2.73%
15	Gerontology	2.07%	15	Dermatology	2.70%
16	Geriatrics & Gerontology	1.78%	16	Psychiatry	2.56%
17	Medicine, Legal	1.78%	17	Medicine, Research & Experimental	2.36%
18	Biophysics	1.60%	18	Urology & Nephrology	2.21%
19	Cell Biology	1.60%	19	Biophysics	2.13%
20	Chemistry, Analytical	1.60%	20	Physiology	1.66%
21	Pathology	1.60%	21	Pediatrics	1.36%
22	Cardiac & Cardiovascular Systems	1.50%	22	Pathology	1.34%
23	Psychiatry	1.50%	23	Rheumatology	1.24%
24	Genetics & Heredity	1.41%	24	Transplantation	1.23%
25	Medicine, General & Internal	1.31%	25	Infectious Diseases	1.01%
26	Pediatrics	1.31%	26	Respiratory System	1.00%
27	Infectious Diseases	1.22%	27	Virology	0.95%
28	Social Sciences, Biomedical	1.22%	28	Multidisciplinary Sciences	0.93%
29	Medicine, Research & Experimental	1.03%	29	Surgery	0.89%
30	Rheumatology	1.03%	30	Medicine, General & Internal	0.82%
31	Virology	1.03%	31	Microbiology	0.68%
32	Biochemical Research Methods	0.94%	32	Allergy	0.65%
33	Allergy	0.85%	33	Physics, Particles & Fields	0.55%
34	Engineering, Environmental	0.75%	34	Biotechnology & Applied Microbiology	0.53%
35	Biotechnology & Applied Microbiology	0.66%	35	Geriatrics & Gerontology	0.51%
36	Food Science & Technology	0.66%	36	Physics, Multidisciplinary	0.43%
37	Hematology	0.66%	37	Neuroimaging	0.41%
38	Physiology	0.66%	38	Biology	0.40%
39	Radiology, Nuclear Medicine & Medical Imaging	0.66%	39	Chemistry, Medicinal	0.40%
40	Respiratory System	0.66%			
41	Biology	0.56%			
42	Statistics & Probability	0.56%			
43	Construction & Building Technology	0.47%			
44	Dentistry, Oral Surgery & Medicine	0.47%			
45	Health Care Sciences & Services	0.47%			
46	Microbiology	0.47%			

表 51 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (33/34)

外科系臨床医学			歯学		
Integer counts		5562			2523
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Oncology	11.52%	1	Dentistry, Oral Surgery & Medicine	23.50%
2	Surgery	7.25%	2	Cell Biology	6.50%
3	Ophthalmology	6.65%	3	Biochemistry & Molecular Biology	5.98%
4	Biochemistry & Molecular Biology	4.46%	4	Oncology	5.79%
5	Neurosciences	4.44%	5	Immunology	4.60%
6	Cell Biology	3.99%	6	Materials Science, Biomaterials	4.32%
7	Clinical Neurology	3.45%	7	Engineering, Biomedical	4.20%
8	Medicine, Research & Experimental	3.25%	8	Neurosciences	3.73%
9	Endocrinology & Metabolism	2.91%	9	Microbiology	2.97%
10	Urology & Nephrology	2.82%	10	Surgery	2.81%
11	Immunology	2.77%	11	Endocrinology & Metabolism	2.62%
12	Gastroenterology & Hepatology	2.62%	12	Biophysics	2.50%
13	Obstetrics & Gynecology	2.62%	13	Physiology	2.34%
14	Transplantation	2.37%	14	Pathology	2.26%
15	Otorhinolaryngology	2.12%	15	Medicine, Research & Experimental	1.86%
16	Reproductive Biology	2.05%	16	Pharmacology & Pharmacy	1.78%
17	Orthopedics	2.03%	17	Multidisciplinary Sciences	1.39%
18	Genetics & Heredity	1.98%	18	Infectious Diseases	1.23%
19	Engineering, Biomedical	1.85%	19	Developmental Biology	1.03%
20	Pathology	1.83%	20	Biotechnology & Applied Microbiology	0.99%
21	Peripheral Vascular Disease	1.67%	21	Radiology, Nuclear Medicine & Medical Imaging	0.99%
22	Cardiac & Cardiovascular Systems	1.65%	22	Behavioral Sciences	0.79%
23	Rheumatology	1.53%	23	Peripheral Vascular Disease	0.79%
24	Biotechnology & Applied Microbiology	1.51%	24	Anatomy & Morphology	0.75%
25	Pharmacology & Pharmacy	1.38%	25	Cell & Tissue Engineering	0.75%
26	Hematology	1.37%	26	Genetics & Heredity	0.75%
27	Cell & Tissue Engineering	1.24%	27	Materials Science, Multidisciplinary	0.75%
28	Anesthesiology	1.19%	28	Toxicology	0.71%
29	Biophysics	1.19%	29	Pediatrics	0.59%
30	Radiology, Nuclear Medicine & Medical Imaging	1.17%	30	Clinical Neurology	0.48%
31	Materials Science, Biomaterials	1.11%	31	Anesthesiology	0.44%
32	Respiratory System	1.10%			
33	Developmental Biology	1.08%			
34	Pediatrics	0.97%			
35	Multidisciplinary Sciences	0.86%			
36	Physiology	0.85%			
37	Critical Care Medicine	0.67%			
38	Audiology & Speech-Language Pathology	0.41%			

表 52 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(整数カウント) (34/34)

分科	看護学	
Integer counts		158
Rank	WoS subject area	Density
1	Nursing	29.75%
2	Health Policy & Services	14.56%
3	Health Care Sciences & Services	6.33%
4	Oncology	5.06%
5	Clinical Neurology	4.43%
6	Cardiac & Cardiovascular Systems	3.80%
7	Psychiatry	3.80%
8	Public, Environmental & Occupational Health	3.16%
9	Biochemistry & Molecular Biology	2.53%
10	Medicine, General & Internal	2.53%
11	Geriatrics & Gerontology	1.90%
12	Medicine, Research & Experimental	1.90%
13	Neurosciences	1.90%
14	Nutrition & Dietetics	1.90%
15	Endocrinology & Metabolism	1.27%
16	Psychology, Multidisciplinary	1.27%
17	Radiology, Nuclear Medicine & Medical Imaging	1.27%
18	Rehabilitation	1.27%
19	Computer Science, Artificial Intelligence	0.63%
20	Computer Science, Information Systems	0.63%
21	Computer Science, Software Engineering	0.63%
22	Computer Science, Theory & Methods	0.63%
23	Dentistry, Oral Surgery & Medicine	0.63%
24	Environmental Sciences	0.63%
25	Gastroenterology & Hepatology	0.63%
26	Genetics & Heredity	0.63%
27	Gerontology	0.63%
28	Management	0.63%
29	Obstetrics & Gynecology	0.63%
30	Orthopedics	0.63%
31	Pharmacology & Pharmacy	0.63%
32	Psychology	0.63%
33	Respiratory System	0.63%
34	Rheumatology	0.63%
35	Social Sciences, Biomedical	0.63%
36	Toxicology	0.63%

D.5.2. 分数カウント

D.5.2.1. 系

表 53 科研費研究分野(細目表-系)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (1/2)

系 総合・新領域系			人文社会系		
Fractional		10349.00			1561.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Neurosciences	6.78%	1	Economics	21.44%
2	Computer Science, Theory & Methods	5.71%	2	Neurosciences	6.25%
3	Engineering, Electrical & Electronic	5.47%	3	Psychology, Experimental	4.88%
4	Computer Science, Artificial Intelligence	4.75%	4	Psychology	2.65%
5	Biochemistry & Molecular Biology	3.93%	5	Psychology, Multidisciplinary	2.41%
6	Computer Science, Information Systems	3.06%	6	Linguistics	2.25%
7	Chemistry, Multidisciplinary	2.77%	7	Business, Finance	2.03%
8	Physics, Applied	2.58%	8	Political Science	1.78%
9	Physiology	2.37%	9	History	1.74%
10	Computer Science, Software Engineering	2.13%	10	Language & Linguistics	1.73%
11	Chemistry, Organic	2.00%	11	Computer Science, Artificial Intelligence	1.71%
12	Engineering, Biomedical	1.77%	12	Mathematics, Applied	1.65%
13	Cell Biology	1.70%	13	Psychology, Developmental	1.65%
14	Environmental Sciences	1.70%	14	Social Sciences, Mathematical Methods	1.54%
15	Mathematics, Applied	1.49%	15	Statistics & Probability	1.49%
16	Multidisciplinary Sciences	1.34%	16	Education & Educational Research	1.43%
17	Pharmacology & Pharmacy	1.31%	17	Psychiatry	1.32%
18	Endocrinology & Metabolism	1.29%	18	Management	1.24%
19	Computer Science, Hardware & Architecture	1.15%	19	Area Studies	1.22%
20	Genetics & Heredity	1.13%	20	Operations Research & Management Science	1.20%
21	Materials Science, Multidisciplinary	1.10%	21	Business	1.18%
22	Biotechnology & Applied Microbiology	0.99%	22	Literature	1.15%
23	Chemistry, Physical	0.97%	23	Engineering, Electrical & Electronic	1.15%
24	Oceanography	0.95%	24	Mathematics, Interdisciplinary Applications	1.13%
25	Meteorology & Atmospheric Sciences	0.95%	25	International Relations	1.12%
26	Geosciences, Multidisciplinary	0.94%	26	Psychology, Social	1.08%
27	Robotics	0.93%	27	Multidisciplinary Sciences	0.85%
28	Statistics & Probability	0.89%	28	Behavioral Sciences	0.82%
29	Oncology	0.87%	29	Public, Environmental & Occupational Health	0.82%
30	Telecommunications	0.87%	30	Environmental Studies	0.81%
31	Radiology, Nuclear Medicine & Medical Imaging	0.83%	31	Philosophy	0.80%
32	Physics, Condensed Matter	0.83%	32	Computer Science, Theory & Methods	0.78%
33	Optics	0.81%	33	Clinical Neurology	0.75%
34	Physics, Multidisciplinary	0.80%	34	Computer Science, Interdisciplinary Applications	0.74%
35	Chemistry, Analytical	0.77%	35	Psychology, Biological	0.72%
36	Geochemistry & Geophysics	0.77%	36	Social Sciences, Interdisciplinary	0.69%
37	Peripheral Vascular Disease	0.75%	37	Environmental Sciences	0.67%
38	Polymer Science	0.74%	38	Urban Studies	0.65%
39	Operations Research & Management Science	0.73%	39	Physiology	0.64%
40	Computer Science, Interdisciplinary Applications	0.70%	40	Zoology	0.63%
41	Biophysics	0.69%	41	Anthropology	0.57%
42	Nanoscience & Nanotechnology	0.67%	42	Sociology	0.57%
43	Nutrition & Dietetics	0.66%	43	Mathematics	0.54%
44	Microbiology	0.66%	44	Ophthalmology	0.54%
45	Automation & Control Systems	0.63%	45	Psychology, Clinical	0.49%
46	Ecology	0.63%	46	Asian Studies	0.48%
47	Clinical Neurology	0.62%	47	Art	0.48%
48	Medicine, Research & Experimental	0.62%	48	Genetics & Heredity	0.45%
49	Developmental Biology	0.61%	49	Gerontology	0.45%
50	Zoology	0.60%	50	Health Care Sciences & Services	0.44%
51	Toxicology	0.59%	51	Planning & Development	0.43%
52	Plant Sciences	0.57%	52	Computer Science, Information Systems	0.42%
53	Sport Sciences	0.54%	53	Social Issues	0.41%
54	Chemistry, Medicinal	0.54%	54	Engineering, Industrial	0.41%
55	Marine & Freshwater Biology	0.53%	55	Psychology, Educational	0.41%
56	Cardiac & Cardiovascular Systems	0.52%			
57	Biochemical Research Methods	0.50%			
58	Materials Science, Biomaterials	0.48%			
59	Immunology	0.46%			
60	Food Science & Technology	0.46%			
61	Computer Science, Cybernetics	0.41%			

表 54 科研費研究分野(細目表-系)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (2/2)

系 理工系			系 生物系		
Fractional		21879.00			25806.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Physics, Applied	9.13%	1	Biochemistry & Molecular Biology	9.30%
2	Chemistry, Multidisciplinary	7.99%	2	Oncology	6.46%
3	Astronomy & Astrophysics	6.53%	3	Cell Biology	4.90%
4	Physics, Multidisciplinary	5.93%	4	Neurosciences	4.09%
5	Mathematics	5.11%	5	Immunology	3.56%
6	Materials Science, Multidisciplinary	5.11%	6	Pharmacology & Pharmacy	3.47%
7	Engineering, Electrical & Electronic	4.69%	7	Endocrinology & Metabolism	3.18%
8	Physics, Condensed Matter	4.58%	8	Gastroenterology & Hepatology	2.52%
9	Chemistry, Physical	3.60%	9	Genetics & Heredity	2.48%
10	Chemistry, Organic	3.22%	10	Multidisciplinary Sciences	2.47%
11	Optics	2.31%	11	Chemistry, Organic	2.29%
12	Polymer Science	2.30%	12	Hematology	2.20%
13	Mathematics, Applied	1.98%	13	Peripheral Vascular Disease	2.13%
14	Geochemistry & Geophysics	1.92%	14	Dentistry, Oral Surgery & Medicine	2.03%
15	Physics, Particles & Fields	1.90%	15	Plant Sciences	1.97%
16	Geosciences, Multidisciplinary	1.78%	16	Cardiac & Cardiovascular Systems	1.93%
17	Physics, Atomic, Molecular & Chemical	1.65%	17	Clinical Neurology	1.86%
18	Chemistry, Inorganic & Nuclear	1.44%	18	Biophysics	1.72%
19	Physics, Nuclear	1.39%	19	Medicine, Research & Experimental	1.71%
20	Metallurgy & Metallurgical Engineering	1.22%	20	Microbiology	1.59%
21	Physics, Fluids & Plasmas	1.15%	21	Physiology	1.54%
22	Engineering, Mechanical	1.11%	22	Urology & Nephrology	1.49%
23	Nanoscience & Nanotechnology	1.10%	23	Ophthalmology	1.49%
24	Chemistry, Analytical	0.92%	24	Chemistry, Multidisciplinary	1.44%
25	Electrochemistry	0.92%	25	Pathology	1.43%
26	Meteorology & Atmospheric Sciences	0.91%	26	Surgery	1.32%
27	Physics, Mathematical	0.86%	27	Radiology, Nuclear Medicine & Medical Imaging	1.28%
28	Crystallography	0.80%	28	Virology	1.24%
29	Telecommunications	0.75%	29	Biotechnology & Applied Microbiology	1.20%
30	Biochemistry & Molecular Biology	0.71%	30	Dermatology	1.20%
31	Materials Science, Ceramics	0.66%	31	Developmental Biology	1.08%
32	Instruments & Instrumentation	0.65%	32	Rheumatology	0.95%
33	Nuclear Science & Technology	0.64%	33	Zoology	0.91%
34	Mechanics	0.62%	34	Veterinary Sciences	0.79%
35	Engineering, Chemical	0.61%	35	Toxicology	0.70%
36	Automation & Control Systems	0.59%	36	Entomology	0.69%
37	Materials Science, Coatings & Films	0.57%	37	Psychiatry	0.63%
38	Multidisciplinary Sciences	0.49%	38	Reproductive Biology	0.63%
39	Computer Science, Theory & Methods	0.48%	39	Ecology	0.60%
40	Energy & Fuels	0.47%	40	Engineering, Biomedical	0.60%
41	Thermodynamics	0.45%	41	Chemistry, Medicinal	0.58%
42	Oceanography	0.44%	42	Infectious Diseases	0.56%
43	Computer Science, Artificial Intelligence	0.42%	43	Pediatrics	0.51%
44	Statistics & Probability	0.41%	44	Biochemical Research Methods	0.48%
45	Spectroscopy	0.40%	45	Medicine, General & Internal	0.47%
			46	Obstetrics & Gynecology	0.47%
			47	Respiratory System	0.46%
			48	Food Science & Technology	0.45%
			49	Evolutionary Biology	0.44%
			50	Transplantation	0.44%
			51	Parasitology	0.41%
			52	Nutrition & Dietetics	0.41%
			53	Otorhinolaryngology	0.40%
			54	Biology	0.40%

D.5.2.2. 分野

表 55 科研費研究分野(細目表-分野)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (1/5)

総合領域			複合新領域		
分野		6698.00			3651.00
Fractional					
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Neurosciences	10.30%	1	Chemistry, Multidisciplinary	6.22%
2	Computer Science, Theory & Methods	8.56%	2	Physics, Applied	6.04%
3	Engineering, Electrical & Electronic	7.18%	3	Biochemistry & Molecular Biology	5.59%
4	Computer Science, Artificial Intelligence	7.01%	4	Chemistry, Organic	4.98%
5	Computer Science, Information Systems	4.47%	5	Environmental Sciences	4.47%
6	Physiology	3.56%	6	Oceanography	2.69%
7	Computer Science, Software Engineering	3.23%	7	Materials Science, Multidisciplinary	2.51%
8	Biochemistry & Molecular Biology	3.03%	8	Chemistry, Physical	2.41%
9	Engineering, Biomedical	2.66%	9	Engineering, Electrical & Electronic	2.33%
10	Mathematics, Applied	1.91%	10	Geosciences, Multidisciplinary	2.20%
11	Cell Biology	1.89%	11	Meteorology & Atmospheric Sciences	2.16%
12	Endocrinology & Metabolism	1.82%	12	Physics, Condensed Matter	2.15%
13	Computer Science, Hardware & Architecture	1.69%	13	Genetics & Heredity	1.82%
14	Robotics	1.36%	14	Biotechnology & Applied Microbiology	1.74%
15	Multidisciplinary Sciences	1.29%	15	Chemistry, Analytical	1.70%
16	Telecommunications	1.26%	16	Nanoscience & Nanotechnology	1.65%
17	Pharmacology & Pharmacy	1.25%	17	Microbiology	1.63%
18	Statistics & Probability	1.23%	18	Ecology	1.60%
19	Peripheral Vascular Disease	1.11%	19	Geochemistry & Geophysics	1.58%
20	Radiology, Nuclear Medicine & Medical Imaging	1.04%	20	Physics, Multidisciplinary	1.47%
21	Computer Science, Interdisciplinary Applications	1.03%	21	Plant Sciences	1.47%
22	Nutrition & Dietetics	0.98%	22	Pharmacology & Pharmacy	1.44%
23	Automation & Control Systems	0.92%	23	Multidisciplinary Sciences	1.43%
24	Clinical Neurology	0.91%	24	Toxicology	1.41%
25	Chemistry, Multidisciplinary	0.89%	25	Cell Biology	1.35%
26	Sport Sciences	0.84%	26	Marine & Freshwater Biology	1.23%
27	Medicine, Research & Experimental	0.81%	27	Chemistry, Medicinal	1.21%
28	Optics	0.80%	28	Operations Research & Management Science	1.19%
29	Cardiac & Cardiovascular Systems	0.77%	29	Oncology	1.06%
30	Oncology	0.77%	30	Polymer Science	0.99%
31	Genetics & Heredity	0.76%	31	Water Resources	0.94%
32	Physics, Applied	0.70%	32	Optics	0.81%
33	Biophysics	0.68%	33	Zoology	0.80%
34	Materials Science, Biomaterials	0.68%	34	Engineering, Chemical	0.79%
35	Polymer Science	0.60%	35	Physics, Atomic, Molecular & Chemical	0.79%
36	Developmental Biology	0.59%	36	Electrochemistry	0.75%
37	Biotechnology & Applied Microbiology	0.58%	37	Mathematics, Applied	0.72%
38	Computer Science, Cybernetics	0.56%	38	Biophysics	0.71%
39	Mathematics	0.55%	39	Engineering, Environmental	0.71%
40	Psychology, Experimental	0.49%	40	Biochemical Research Methods	0.68%
41	Zoology	0.49%	41	Economics	0.67%
42	Operations Research & Management Science	0.48%	42	Developmental Biology	0.63%
43	Surgery	0.47%	43	Computer Science, Artificial Intelligence	0.62%
44	Food Science & Technology	0.46%	44	Biodiversity Conservation	0.58%
45	Acoustics	0.45%	45	Biology	0.56%
46	Physics, Multidisciplinary	0.44%	46	Geography, Physical	0.52%
47	Immunology	0.44%	47	Limnology	0.52%
48	Imaging Science & Photographic Technology	0.43%	48	Immunology	0.49%
			49	Computer Science, Theory & Methods	0.48%
			50	Computer Science, Information Systems	0.46%
			51	Engineering, Civil	0.46%
			52	Food Science & Technology	0.46%
			53	Radiology, Nuclear Medicine & Medical Imaging	0.45%
			54	Fisheries	0.45%

表 56 科研費研究分野(細目表-分野)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (2/5)

人文学			社会科学		
Fractional		298.00			1263.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Linguistics	10.68%	1	Economics	26.38%
2	Language & Linguistics	8.89%	2	Neurosciences	6.01%
3	Neurosciences	7.27%	3	Psychology, Experimental	5.44%
4	Literature	6.04%	4	Psychology	3.19%
5	History	4.53%	5	Psychology, Multidisciplinary	2.78%
6	Computer Science, Artificial Intelligence	4.39%	6	Business, Finance	2.51%
7	Philosophy	3.52%	7	Political Science	2.08%
8	Engineering, Electrical & Electronic	3.19%	8	Mathematics, Applied	2.05%
9	Education & Educational Research	2.91%	9	Psychology, Developmental	1.96%
10	Psychology, Experimental	2.46%	10	Social Sciences, Mathematical Methods	1.91%
11	Asian Studies	2.40%	11	Statistics & Probability	1.84%
12	Art	2.18%	12	Psychiatry	1.58%
13	Anthropology	2.01%	13	Management	1.54%
14	Evolutionary Biology	1.90%	14	Operations Research & Management Science	1.48%
15	Geochemistry & Geophysics	1.68%	15	Business	1.42%
16	Area Studies	1.51%	16	Mathematics, Interdisciplinary Applications	1.39%
17	Computer Science, Theory & Methods	1.37%	17	International Relations	1.39%
18	Meteorology & Atmospheric Sciences	1.34%	18	Psychology, Social	1.33%
19	Geography	1.17%	19	Area Studies	1.15%
20	Religion	1.17%	20	History	1.08%
21	History & Philosophy Of Science	1.01%	21	Education & Educational Research	1.08%
22	Humanities, Multidisciplinary	1.01%	22	Computer Science, Artificial Intelligence	1.08%
23	Plant Sciences	1.01%	23	Public, Environmental & Occupational Health	1.02%
24	Surgery	1.01%	24	Behavioral Sciences	0.95%
25	Computer Science, Information Systems	0.92%	25	Environmental Studies	0.93%
26	Cultural Studies	0.89%	26	Multidisciplinary Sciences	0.89%
27	Psychology, Multidisciplinary	0.84%	27	Computer Science, Interdisciplinary Applications	0.88%
28	Genetics & Heredity	0.78%	28	Social Sciences, Interdisciplinary	0.85%
29	Audiology & Speech-Language Pathology	0.73%	29	Clinical Neurology	0.84%
30	Classics	0.67%	30	Psychology, Biological	0.82%
31	Communication	0.67%	31	Zoology	0.78%
32	Ethnic Studies	0.67%	32	Physiology	0.75%
33	Literature, American	0.67%	33	Environmental Sciences	0.75%
34	Multidisciplinary Sciences	0.67%	34	Urban Studies	0.73%
35	Poetry	0.67%	35	Ophthalmology	0.67%
36	Veterinary Sciences	0.67%	36	Engineering, Electrical & Electronic	0.67%
37	Economics	0.50%	37	Computer Science, Theory & Methods	0.64%
38	Geosciences, Multidisciplinary	0.50%	38	Mathematics	0.63%
39	Literature, British Isles	0.50%	39	Sociology	0.63%
40	Political Science	0.50%	40	Psychology, Clinical	0.61%
41	Computer Science, Software Engineering	0.48%	41	Gerontology	0.55%
42	Optics	0.45%	42	Planning & Development	0.53%
			43	Social Issues	0.51%
			44	Engineering, Industrial	0.50%
			45	Health Care Sciences & Services	0.46%
			46	Psychology, Educational	0.44%

表 57 科研費研究分野(細目表-分野)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (3/5)

数物系科学			化学		
Fractional		8352.00			5100.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Astronomy & Astrophysics	16.87%	1	Chemistry, Multidisciplinary	29.53%
2	Mathematics	13.35%	2	Chemistry, Organic	13.39%
3	Physics, Multidisciplinary	12.70%	3	Chemistry, Physical	8.96%
4	Physics, Condensed Matter	6.97%	4	Polymer Science	8.16%
5	Physics, Applied	5.10%	5	Chemistry, Inorganic & Nuclear	5.61%
6	Physics, Particles & Fields	4.89%	6	Materials Science, Multidisciplinary	4.15%
7	Geochemistry & Geophysics	4.73%	7	Physics, Atomic, Molecular & Chemical	4.01%
8	Mathematics, Applied	4.55%	8	Chemistry, Analytical	3.15%
9	Geosciences, Multidisciplinary	4.19%	9	Physics, Applied	2.83%
10	Physics, Nuclear	3.09%	10	Biochemistry & Molecular Biology	2.32%
11	Meteorology & Atmospheric Sciences	2.25%	11	Crystallography	2.30%
12	Physics, Mathematical	1.88%	12	Physics, Condensed Matter	1.92%
13	Materials Science, Multidisciplinary	1.86%	13	Electrochemistry	1.77%
14	Physics, Fluids & Plasmas	1.49%	14	Nanoscience & Nanotechnology	1.41%
15	Physics, Atomic, Molecular & Chemical	1.31%	15	Physics, Multidisciplinary	0.97%
16	Optics	1.28%	16	Spectroscopy	0.71%
17	Statistics & Probability	1.06%	17	Biochemical Research Methods	0.64%
18	Oceanography	0.96%	18	Materials Science, Ceramics	0.63%
19	Paleontology	0.91%	19	Multidisciplinary Sciences	0.63%
20	Mineralogy	0.82%	20	Chemistry, Medicinal	0.62%
21	Chemistry, Physical	0.77%	21	Optics	0.55%
22	Multidisciplinary Sciences	0.67%	22	Biophysics	0.52%
23	Engineering, Electrical & Electronic	0.65%	23	Energy & Fuels	0.45%
24	Instruments & Instrumentation	0.59%	24	Chemistry, Applied	0.44%
25	Geology	0.55%			
26	Nuclear Science & Technology	0.48%			
27	Nanoscience & Nanotechnology	0.43%			
28	Computer Science, Theory & Methods	0.42%			
29	Chemistry, Multidisciplinary	0.42%			

表 58 科研費研究分野(細目表-分野)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (4/5)

工学			生物学		
Fractional		8427.00			3346.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Physics, Applied	16.93%	1	Biochemistry & Molecular Biology	20.52%
2	Engineering, Electrical & Electronic	11.39%	2	Cell Biology	12.06%
3	Materials Science, Multidisciplinary	8.91%	3	Plant Sciences	7.35%
4	Optics	4.39%	4	Multidisciplinary Sciences	6.31%
5	Physics, Condensed Matter	3.83%	5	Genetics & Heredity	5.55%
6	Chemistry, Physical	3.17%	6	Zoology	4.45%
7	Metallurgy & Metallurgical Engineering	2.94%	7	Developmental Biology	3.82%
8	Engineering, Mechanical	2.85%	8	Biophysics	3.04%
9	Chemistry, Multidisciplinary	2.46%	9	Ecology	2.87%
10	Physics, Multidisciplinary	2.22%	10	Entomology	2.85%
11	Telecommunications	1.90%	11	Evolutionary Biology	2.84%
12	Nanoscience & Nanotechnology	1.58%	12	Neurosciences	2.66%
13	Automation & Control Systems	1.49%	13	Marine & Freshwater Biology	1.73%
14	Physics, Fluids & Plasmas	1.48%	14	Endocrinology & Metabolism	1.72%
15	Engineering, Chemical	1.37%	15	Microbiology	1.61%
16	Materials Science, Ceramics	1.28%	16	Biology	1.25%
17	Mechanics	1.26%	17	Chemistry, Multidisciplinary	1.25%
18	Electrochemistry	1.26%	18	Biotechnology & Applied Microbiology	1.18%
19	Nuclear Science & Technology	1.17%	19	Anthropology	1.08%
20	Materials Science, Coatings & Films	1.17%	20	Physiology	1.07%
21	Computer Science, Artificial Intelligence	1.02%	21	Immunology	0.85%
22	Instruments & Instrumentation	0.96%	22	Pharmacology & Pharmacy	0.80%
23	Materials Science, Composites	0.92%	23	Oncology	0.78%
24	Energy & Fuels	0.91%	24	Biochemical Research Methods	0.70%
25	Robotics	0.90%	25	Behavioral Sciences	0.47%
26	Engineering, Civil	0.85%	26	Toxicology	0.40%
27	Thermodynamics	0.85%	27	Chemistry, Physical	0.40%
28	Engineering, Biomedical	0.83%			
29	Computer Science, Theory & Methods	0.81%			
30	Polymer Science	0.69%			
31	Computer Science, Information Systems	0.69%			
32	Biotechnology & Applied Microbiology	0.67%			
33	Mathematics, Applied	0.62%			
34	Environmental Sciences	0.61%			
35	Computer Science, Hardware & Architecture	0.57%			
36	Crystallography	0.57%			
37	Physics, Atomic, Molecular & Chemical	0.55%			
38	Physics, Nuclear	0.52%			
39	Engineering, Aerospace	0.52%			
40	Computer Science, Interdisciplinary Applications	0.50%			
41	Engineering, Manufacturing	0.46%			
42	Engineering, Environmental	0.45%			
43	Geosciences, Multidisciplinary	0.44%			
44	Chemistry, Analytical	0.44%			
45	Biochemistry & Molecular Biology	0.42%			
46	Transportation Science & Technology	0.41%			
47	Engineering, Multidisciplinary	0.41%			

表 59 科研費研究分野(細目表-分野)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (5/5)

農学			医歯薬学		
Fractional		3323.00			19137.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Biochemistry & Molecular Biology	11.03%	1	Oncology	8.48%
2	Plant Sciences	7.65%	2	Biochemistry & Molecular Biology	7.04%
3	Veterinary Sciences	5.25%	3	Neurosciences	4.76%
4	Biotechnology & Applied Microbiology	5.10%	4	Immunology	4.38%
5	Microbiology	4.38%	5	Pharmacology & Pharmacy	4.26%
6	Cell Biology	3.07%	6	Cell Biology	3.97%
7	Food Science & Technology	2.55%	7	Endocrinology & Metabolism	3.73%
8	Fisheries	2.47%	8	Gastroenterology & Hepatology	3.35%
9	Agriculture, Dairy & Animal Science	2.41%	9	Hematology	2.86%
10	Chemistry, Organic	2.40%	10	Peripheral Vascular Disease	2.82%
11	Agronomy	2.36%	11	Dentistry, Oral Surgery & Medicine	2.70%
12	Entomology	2.36%	12	Chemistry, Organic	2.63%
13	Zoology	2.05%	13	Cardiac & Cardiovascular Systems	2.59%
14	Virology	2.04%	14	Clinical Neurology	2.49%
15	Reproductive Biology	2.03%	15	Medicine, Research & Experimental	2.18%
16	Genetics & Heredity	2.01%	16	Genetics & Heredity	2.02%
17	Forestry	1.79%	17	Urology & Nephrology	2.01%
18	Ecology	1.78%	18	Ophthalmology	1.99%
19	Multidisciplinary Sciences	1.71%	19	Multidisciplinary Sciences	1.94%
20	Chemistry, Applied	1.64%	20	Pathology	1.85%
21	Neurosciences	1.62%	21	Surgery	1.76%
22	Pharmacology & Pharmacy	1.58%	22	Physiology	1.75%
23	Agriculture, Multidisciplinary	1.54%	23	Radiology, Nuclear Medicine & Medical Imaging	1.72%
24	Parasitology	1.53%	24	Chemistry, Multidisciplinary	1.59%
25	Immunology	1.51%	25	Dermatology	1.57%
26	Endocrinology & Metabolism	1.49%	26	Biophysics	1.56%
27	Horticulture	1.45%	27	Virology	1.28%
28	Soil Science	1.31%	28	Rheumatology	1.27%
29	Marine & Freshwater Biology	1.30%	29	Microbiology	1.10%
30	Biophysics	1.30%	30	Psychiatry	0.84%
31	Environmental Sciences	1.18%	31	Engineering, Biomedical	0.80%
32	Nutrition & Dietetics	0.95%	32	Toxicology	0.78%
33	Developmental Biology	0.81%	33	Pediatrics	0.68%
34	Physiology	0.81%	34	Infectious Diseases	0.67%
35	Chemistry, Medicinal	0.76%	35	Developmental Biology	0.65%
36	Chemistry, Multidisciplinary	0.75%	36	Medicine, General & Internal	0.63%
37	Mycology	0.70%	37	Obstetrics & Gynecology	0.62%
38	Water Resources	0.63%	38	Respiratory System	0.61%
39	Biochemical Research Methods	0.58%	39	Chemistry, Medicinal	0.60%
40	Toxicology	0.58%	40	Transplantation	0.59%
41	Oncology	0.57%	41	Otorhinolaryngology	0.54%
42	Biodiversity Conservation	0.57%	42	Biotechnology & Applied Microbiology	0.53%
43	Polymer Science	0.56%	43	Materials Science, Biomaterials	0.52%
44	Biology	0.53%	44	Public, Environmental & Occupational Health	0.52%
45	Materials Science, Paper & Wood	0.47%	45	Medical Laboratory Technology	0.47%
46	Infectious Diseases	0.41%	46	Reproductive Biology	0.45%
47	Oceanography	0.40%	47	Biochemical Research Methods	0.42%
			48	Orthopedics	0.41%
			49	Chemistry, Analytical	0.41%
			50	Anesthesiology	0.40%

D.5.2.3. 分科

表 60 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (1/34)

情報学			神経科学		
分科					
Fractional		3255.00			1108.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Computer Science, Theory & Methods	16.42%	1	Neurosciences	43.21%
2	Computer Science, Artificial Intelligence	13.14%	2	Physiology	8.90%
3	Engineering, Electrical & Electronic	12.98%	3	Biochemistry & Molecular Biology	8.51%
4	Computer Science, Information Systems	8.18%	4	Cell Biology	6.91%
5	Computer Science, Software Engineering	6.29%	5	Multidisciplinary Sciences	3.69%
6	Mathematics, Applied	3.85%	6	Developmental Biology	2.81%
7	Computer Science, Hardware & Architecture	3.33%	7	Pharmacology & Pharmacy	2.75%
8	Neurosciences	3.02%	8	Clinical Neurology	2.36%
9	Telecommunications	2.53%	9	Endocrinology & Metabolism	1.97%
10	Statistics & Probability	2.53%	10	Pathology	1.58%
11	Robotics	2.09%	11	Genetics & Heredity	1.25%
12	Computer Science, Interdisciplinary Applications	1.67%	12	Biophysics	1.08%
13	Automation & Control Systems	1.63%	13	Oncology	1.02%
14	Computer Science, Cybernetics	1.11%	14	Biochemical Research Methods	0.89%
15	Mathematics	1.02%	15	Zoology	0.86%
16	Engineering, Biomedical	0.99%	16	Medicine, Research & Experimental	0.84%
17	Operations Research & Management Science	0.96%	17	Immunology	0.72%
18	Optics	0.96%	18	Physics, Nuclear	0.72%
19	Acoustics	0.78%	19	Psychiatry	0.62%
20	Psychology, Experimental	0.65%	20	Engineering, Biomedical	0.59%
21	Physics, Multidisciplinary	0.65%	21	Radiology, Nuclear Medicine & Medical Imaging	0.54%
22	Multidisciplinary Sciences	0.58%	22	Anatomy & Morphology	0.53%
23	Imaging Science & Photographic Technology	0.53%	23	Cardiac & Cardiovascular Systems	0.45%
24	Mathematical & Computational Biology	0.50%	24	Ophthalmology	0.41%
25	Radiology, Nuclear Medicine & Medical Imaging	0.48%			
26	Psychology, Multidisciplinary	0.46%			
27	Engineering, Multidisciplinary	0.45%			
28	Physics, Mathematical	0.45%			
29	Zoology	0.41%			
30	Psychology	0.40%			

表 61 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (2/34)

実験動物学			人間工医学		
Fractional		154.00			1100.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Immunology	11.28%	1	Engineering, Biomedical	11.50%
2	Biochemistry & Molecular Biology	9.74%	2	Radiology, Nuclear Medicine & Medical Imaging	4.11%
3	Genetics & Heredity	8.33%	3	Chemistry, Multidisciplinary	4.04%
4	Veterinary Sciences	7.03%	4	Materials Science, Biomaterials	3.77%
5	Multidisciplinary Sciences	6.06%	5	Biochemistry & Molecular Biology	3.77%
6	Cell Biology	5.68%	6	Physiology	3.52%
7	Zoology	4.87%	7	Neurosciences	3.35%
8	Neurosciences	4.76%	8	Polymer Science	3.31%
9	Peripheral Vascular Disease	3.46%	9	Engineering, Electrical & Electronic	3.29%
10	Developmental Biology	3.30%	10	Physics, Applied	3.23%
11	Oncology	3.05%	11	Pharmacology & Pharmacy	3.22%
12	Microbiology	3.03%	12	Cardiac & Cardiovascular Systems	2.62%
13	Hematology	2.94%	13	Peripheral Vascular Disease	2.42%
14	Virology	2.49%	14	Surgery	2.06%
15	Reproductive Biology	2.33%	15	Medicine, Research & Experimental	2.02%
16	Chemistry, Multidisciplinary	2.27%	16	Robotics	1.95%
17	Physiology	1.73%	17	Chemistry, Organic	1.80%
18	Cardiac & Cardiovascular Systems	1.52%	18	Materials Science, Multidisciplinary	1.70%
19	Food Science & Technology	1.46%	19	Optics	1.64%
20	Engineering, Biomedical	1.30%	20	Rehabilitation	1.55%
21	Clinical Neurology	1.19%	21	Clinical Neurology	1.52%
22	Medicine, Research & Experimental	1.19%	22	Biotechnology & Applied Microbiology	1.49%
23	Endocrinology & Metabolism	0.97%	23	Computer Science, Artificial Intelligence	1.47%
24	Biotechnology & Applied Microbiology	0.92%	24	Cell Biology	1.46%
25	Biology	0.87%	25	Oncology	1.38%
26	Biophysics	0.78%	26	Biophysics	1.37%
27	Nutrition & Dietetics	0.65%	27	Endocrinology & Metabolism	1.21%
28	Ophthalmology	0.65%	28	Multidisciplinary Sciences	1.09%
29	Orthopedics	0.65%	29	Hematology	1.05%
30	Pharmacology & Pharmacy	0.65%	30	Transplantation	1.05%
31	Psychiatry	0.65%	31	Gastroenterology & Hepatology	0.91%
32	Rheumatology	0.65%	32	Orthopedics	0.85%
33	Infectious Diseases	0.54%	33	Chemistry, Analytical	0.80%
34	Pathology	0.54%	34	Chemistry, Physical	0.75%
35	Respiratory System	0.43%	35	Nanoscience & Nanotechnology	0.72%
			36	Genetics & Heredity	0.70%
			37	Automation & Control Systems	0.67%
			38	Sport Sciences	0.67%
			39	Biochemical Research Methods	0.56%
			40	Instruments & Instrumentation	0.54%
			41	Psychiatry	0.52%
			42	Chemistry, Medicinal	0.51%
			43	Computer Science, Theory & Methods	0.51%
			44	Urology & Nephrology	0.50%
			45	Computer Science, Information Systems	0.48%
			46	Dentistry, Oral Surgery & Medicine	0.45%
			47	Engineering, Multidisciplinary	0.45%
			48	Medicine, General & Internal	0.45%
			49	Neuroimaging	0.45%
			50	Rheumatology	0.45%
			51	Engineering, Mechanical	0.44%
			52	Acoustics	0.41%

表 62 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (3/34)

健康・スポーツ科学			生活科学		
Fractional		533.00			244.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Physiology	15.44%	1	Nutrition & Dietetics	13.66%
2	Endocrinology & Metabolism	12.82%	2	Food Science & Technology	8.57%
3	Neurosciences	10.49%	3	Biochemistry & Molecular Biology	8.27%
4	Sport Sciences	8.97%	4	Endocrinology & Metabolism	5.74%
5	Peripheral Vascular Disease	5.47%	5	Pharmacology & Pharmacy	3.69%
6	Nutrition & Dietetics	4.72%	6	Neurosciences	3.38%
7	Biochemistry & Molecular Biology	3.75%	7	Peripheral Vascular Disease	3.28%
8	Cell Biology	2.50%	8	Medicine, Research & Experimental	3.21%
9	Cardiac & Cardiovascular Systems	2.35%	9	Chemistry, Applied	3.07%
10	Public, Environmental & Occupational Health	2.19%	10	Toxicology	3.07%
11	Engineering, Biomedical	2.03%	11	Computer Science, Information Systems	2.97%
12	Medicine, Research & Experimental	2.03%	12	Criminology & Penology	2.97%
13	Geriatrics & Gerontology	1.59%	13	Imaging Science & Photographic Technology	2.97%
14	Clinical Neurology	1.56%	14	Social Sciences, Interdisciplinary	2.97%
15	Urology & Nephrology	1.50%	15	Oncology	2.46%
16	Medicine, General & Internal	1.44%	16	Biotechnology & Applied Microbiology	1.84%
17	Biophysics	1.22%	17	Gastroenterology & Hepatology	1.64%
18	Psychiatry	1.22%	18	Physiology	1.54%
19	Oncology	0.94%	19	Cell Biology	1.50%
20	Psychology, Experimental	0.91%	20	Polymer Science	1.37%
21	Genetics & Heredity	0.88%	21	Dentistry, Oral Surgery & Medicine	1.23%
22	Pharmacology & Pharmacy	0.86%	22	Engineering, Electrical & Electronic	1.23%
23	Multidisciplinary Sciences	0.83%	23	Materials Science, Textiles	1.23%
24	Gerontology	0.75%	24	Plant Sciences	1.23%
25	Biology	0.72%	25	Public, Environmental & Occupational Health	1.23%
26	Orthopedics	0.66%	26	Chemistry, Medicinal	1.02%
27	Psychology, Multidisciplinary	0.66%	27	Geriatrics & Gerontology	1.02%
28	Pathology	0.53%	28	Computer Science, Artificial Intelligence	0.82%
29	Engineering, Electrical & Electronic	0.45%	29	Infectious Diseases	0.82%
30	Rehabilitation	0.42%	30	Veterinary Sciences	0.82%
			31	Biophysics	0.75%
			32	Cardiac & Cardiovascular Systems	0.68%
			33	Chemistry, Organic	0.68%
			34	Urology & Nephrology	0.61%
			35	Agriculture, Multidisciplinary	0.55%
			36	Parasitology	0.55%
			37	Computer Science, Theory & Methods	0.41%
			38	Medical Laboratory Technology	0.41%
			39	Pathology	0.41%
			40	Physics, Multidisciplinary	0.41%
			41	Psychology, Social	0.41%

表 63 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (4/34)

科学教育・教育工学			科学社会学・科学技術史		
Fractional		176.00			21.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Computer Science, Theory & Methods	16.48%	1	Neurosciences	19.84%
2	Computer Science, Artificial Intelligence	11.51%	2	Cell Biology	15.87%
3	Computer Science, Information Systems	10.75%	3	Architecture	9.52%
4	Engineering, Electrical & Electronic	9.19%	4	Art	4.76%
5	Education & Educational Research	7.39%	5	Biophysics	4.76%
6	Computer Science, Interdisciplinary Applications	6.25%	6	Chemistry, Organic	4.76%
7	Computer Science, Software Engineering	5.82%	7	Multidisciplinary Sciences	4.76%
8	Pediatrics	2.84%	8	Psychology, Experimental	4.76%
9	Marine & Freshwater Biology	2.56%	9	Spectroscopy	4.76%
10	Education, Scientific Disciplines	2.37%	10	Neuroimaging	3.17%
11	Computer Science, Hardware & Architecture	2.13%	11	Radiology, Nuclear Medicine & Medical Imaging	3.17%
12	Astronomy & Astrophysics	1.89%	12	Ethics	2.38%
13	Mathematics	1.70%	13	Philosophy	2.38%
14	Surgery	1.70%	14	Psychology	2.38%
15	Environmental Sciences	1.52%	15	Cell & Tissue Engineering	1.59%
16	Chemistry, Multidisciplinary	1.42%	16	Economics	1.59%
17	Entomology	1.14%	17	History	1.59%
18	Telecommunications	0.95%	18	History Of Social Sciences	1.59%
19	Physics, Applied	0.71%	19	Medicine, Research & Experimental	1.59%
20	Physics, Condensed Matter	0.71%	20	Biotechnology & Applied Microbiology	0.95%
21	Biotechnology & Applied Microbiology	0.66%	21	Genetics & Heredity	0.95%
22	Imaging Science & Photographic Technology	0.66%	22	History & Philosophy Of Science	0.95%
23	Endocrinology & Metabolism	0.57%	23	Social Issues	0.95%
24	Geochemistry & Geophysics	0.57%	24	Social Sciences, Biomedical	0.95%
25	Mathematics, Applied	0.57%			
26	Automation & Control Systems	0.47%			
27	Biodiversity Conservation	0.47%			
28	Ecology	0.47%			
29	Materials Science, Multidisciplinary	0.43%			

表 64 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (5/34)

文化財科学			地理学		
Fractional		25.00			82.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Chemistry, Analytical	21.00%	1	Meteorology & Atmospheric Sciences	18.50%
2	Geochemistry & Geophysics	8.00%	2	Geosciences, Multidisciplinary	15.45%
3	Microbiology	8.00%	3	Geochemistry & Geophysics	15.24%
4	Optics	8.00%	4	Geography, Physical	10.37%
5	Nuclear Science & Technology	6.33%	5	Environmental Sciences	5.69%
6	Instruments & Instrumentation	5.00%	6	Geology	5.49%
7	Physics, Atomic, Molecular & Chemical	5.00%	7	Water Resources	3.66%
8	Physics, Nuclear	5.00%	8	Ecology	3.05%
9	Biochemical Research Methods	4.00%	9	Engineering, Geological	2.44%
10	Biotechnology & Applied Microbiology	4.00%	10	Geography	2.44%
11	Chemistry, Multidisciplinary	4.00%	11	Public, Environmental & Occupational Health	2.44%
12	Geosciences, Multidisciplinary	3.67%	12	Instruments & Instrumentation	1.52%
13	Archaeology	2.33%	13	Nuclear Science & Technology	1.52%
14	Chemistry, Inorganic & Nuclear	2.33%	14	Physics, Atomic, Molecular & Chemical	1.52%
15	Astronomy & Astrophysics	2.00%	15	Physics, Nuclear	1.52%
16	Materials Science, Textiles	2.00%	16	Computer Science, Information Systems	1.22%
17	Physics, Multidisciplinary	2.00%	17	Computer Science, Theory & Methods	1.22%
18	Polymer Science	2.00%	18	Social Sciences, Biomedical	1.22%
19	Anthropology	1.33%	19	Construction & Building Technology	0.61%
20	Engineering, Civil	1.33%	20	Education & Educational Research	0.61%
21	Radiology, Nuclear Medicine & Medical Imaging	1.33%	21	Engineering, Electrical & Electronic	0.61%
22	Water Resources	1.33%	22	Engineering, Environmental	0.61%
			23	Information Science & Library Science	0.61%
			24	Materials Science, Multidisciplinary	0.61%
			25	Mineralogy	0.61%
			26	Imaging Science & Photographic Technology	0.41%
			27	Remote Sensing	0.41%
			28	Soil Science	0.41%

表 65 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (6/34)

環境学			ナノ・マイクロ科学		
Fractional		1249.00			967.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Environmental Sciences	12.35%	1	Physics, Applied	20.95%
2	Oceanography	7.49%	2	Chemistry, Multidisciplinary	12.66%
3	Biochemistry & Molecular Biology	4.54%	3	Materials Science, Multidisciplinary	8.41%
4	Meteorology & Atmospheric Sciences	4.30%	4	Physics, Condensed Matter	7.49%
5	Toxicology	3.67%	5	Chemistry, Physical	5.98%
6	Geosciences, Multidisciplinary	3.51%	6	Nanoscience & Nanotechnology	5.89%
7	Ecology	3.42%	7	Physics, Multidisciplinary	4.91%
8	Marine & Freshwater Biology	3.08%	8	Engineering, Electrical & Electronic	4.41%
9	Geochemistry & Geophysics	2.92%	9	Chemistry, Analytical	3.23%
10	Biotechnology & Applied Microbiology	2.56%	10	Polymer Science	3.22%
11	Plant Sciences	2.39%	11	Optics	2.72%
12	Microbiology	2.29%	12	Electrochemistry	2.22%
13	Water Resources	2.13%	13	Physics, Atomic, Molecular & Chemical	2.00%
14	Engineering, Environmental	2.07%	14	Biochemistry & Molecular Biology	1.48%
15	Chemistry, Physical	2.00%	15	Chemistry, Organic	1.33%
16	Oncology	1.96%	16	Instruments & Instrumentation	1.01%
17	Engineering, Chemical	1.76%	17	Materials Science, Coatings & Films	0.90%
18	Chemistry, Analytical	1.51%	18	Chemistry, Inorganic & Nuclear	0.88%
19	Pharmacology & Pharmacy	1.42%	19	Crystallography	0.84%
20	Limnology	1.31%	20	Microscopy	0.83%
21	Cell Biology	1.27%	21	Biochemical Research Methods	0.82%
22	Chemistry, Multidisciplinary	1.23%	22	Biotechnology & Applied Microbiology	0.66%
23	Geography, Physical	1.21%	23	Biophysics	0.61%
24	Biology	1.20%	24	Spectroscopy	0.58%
25	Radiology, Nuclear Medicine & Medical Imaging	1.17%	25	Metallurgy & Metallurgical Engineering	0.47%
26	Multidisciplinary Sciences	1.10%	26	Multidisciplinary Sciences	0.47%
27	Genetics & Heredity	1.04%	27	Materials Science, Ceramics	0.45%
28	Fisheries	0.91%			
29	Biodiversity Conservation	0.87%			
30	Nuclear Science & Technology	0.81%			
31	Chemistry, Organic	0.77%			
32	Physics, Atomic, Molecular & Chemical	0.75%			
33	Biophysics	0.72%			
34	Engineering, Civil	0.69%			
35	Zoology	0.67%			
36	Energy & Fuels	0.65%			
37	Physics, Applied	0.65%			
38	Materials Science, Multidisciplinary	0.60%			
39	Forestry	0.59%			
40	Physics, Nuclear	0.56%			
41	Remote Sensing	0.56%			
42	Economics	0.53%			
43	Endocrinology & Metabolism	0.53%			
44	Public, Environmental & Occupational Health	0.51%			
45	Astronomy & Astrophysics	0.51%			
46	Agronomy	0.49%			
47	Physics, Condensed Matter	0.49%			
48	Food Science & Technology	0.46%			
49	Physiology	0.45%			
50	Environmental Studies	0.45%			
51	Veterinary Sciences	0.44%			
52	Hematology	0.44%			
53	Chemistry, Applied	0.43%			
54	Immunology	0.43%			
55	Engineering, Electrical & Electronic	0.42%			

表 66 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (7/34)

社会・安全システム科学			ゲノム科学		
Fractional		468.00			248.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Operations Research & Management Science	9.03%	1	Biochemistry & Molecular Biology	16.97%
2	Engineering, Electrical & Electronic	7.82%	2	Genetics & Heredity	14.75%
3	Geosciences, Multidisciplinary	7.62%	3	Multidisciplinary Sciences	7.66%
4	Mathematics, Applied	5.43%	4	Cell Biology	7.36%
5	Computer Science, Artificial Intelligence	4.67%	5	Microbiology	6.82%
6	Meteorology & Atmospheric Sciences	4.57%	6	Developmental Biology	6.79%
7	Geochemistry & Geophysics	4.35%	7	Biotechnology & Applied Microbiology	4.11%
8	Computer Science, Theory & Methods	3.49%	8	Biochemical Research Methods	3.54%
9	Computer Science, Information Systems	3.34%	9	Plant Sciences	2.96%
10	Economics	3.22%	10	Oncology	1.92%
11	Engineering, Geological	2.31%	11	Zoology	1.61%
12	Physics, Applied	2.09%	12	Immunology	1.58%
13	Management	1.92%	13	Mathematical & Computational Biology	1.56%
14	Engineering, Civil	1.73%	14	Evolutionary Biology	1.55%
15	Water Resources	1.57%	15	Neurosciences	1.41%
16	Statistics & Probability	1.57%	16	Toxicology	1.41%
17	Chemistry, Analytical	1.39%	17	Biology	1.28%
18	Remote Sensing	1.36%	18	Peripheral Vascular Disease	1.14%
19	Computer Science, Hardware & Architecture	1.23%	19	Biophysics	1.08%
20	Multidisciplinary Sciences	1.07%	20	Pharmacology & Pharmacy	0.81%
21	Physics, Multidisciplinary	1.07%	21	Veterinary Sciences	0.81%
22	Robotics	1.07%	22	Chemistry, Analytical	0.71%
23	Social Sciences, Interdisciplinary	1.07%	23	Anatomy & Morphology	0.60%
24	Computer Science, Cybernetics	1.03%	24	Hematology	0.60%
25	Geography	0.96%	25	Chemistry, Multidisciplinary	0.54%
26	Telecommunications	0.95%	26	Clinical Neurology	0.54%
27	Computer Science, Software Engineering	0.93%	27	Computer Science, Theory & Methods	0.54%
28	Automation & Control Systems	0.91%	28	Pathology	0.54%
29	Engineering, Industrial	0.89%	29	Virology	0.54%
30	Engineering, Multidisciplinary	0.89%	30	Food Science & Technology	0.50%
31	Mathematics, Interdisciplinary Applications	0.80%	31	Dentistry, Oral Surgery & Medicine	0.40%
32	Business, Finance	0.76%	32	Endocrinology & Metabolism	0.40%
33	Engineering, Manufacturing	0.75%	33	Gastroenterology & Hepatology	0.40%
34	Oceanography	0.73%	34	Ophthalmology	0.40%
35	Engineering, Chemical	0.69%	35	Rheumatology	0.40%
36	Business	0.67%	36	Urology & Nephrology	0.40%
37	Environmental Sciences	0.59%			
38	Transportation	0.58%			
39	Medical Informatics	0.55%			
40	Veterinary Sciences	0.53%			
41	Energy & Fuels	0.52%			
42	Chemistry, Physical	0.50%			
43	Ergonomics	0.50%			
44	Transportation Science & Technology	0.44%			
45	Dentistry, Oral Surgery & Medicine	0.43%			
46	Endocrinology & Metabolism	0.43%			
47	Engineering, Aerospace	0.43%			
48	Geography, Physical	0.43%			
49	Geology	0.43%			
50	Materials Science, Multidisciplinary	0.43%			
51	Neurosciences	0.43%			
52	Physics, Nuclear	0.43%			
53	Urban Studies	0.43%			
54	Astronomy & Astrophysics	0.42%			

表 67 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (8/34)

生物分子科学			資源保全学		
Fractional		550.00			98.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Chemistry, Organic	28.82%	1	Zoology	13.35%
2	Biochemistry & Molecular Biology	16.27%	2	Genetics & Heredity	13.27%
3	Chemistry, Multidisciplinary	16.00%	3	Ecology	13.10%
4	Chemistry, Medicinal	7.42%	4	Biodiversity Conservation	10.54%
5	Pharmacology & Pharmacy	5.50%	5	Marine & Freshwater Biology	6.46%
6	Plant Sciences	2.79%	6	Agriculture, Dairy & Animal Science	6.12%
7	Cell Biology	2.50%	7	Behavioral Sciences	2.13%
8	Biotechnology & Applied Microbiology	2.23%	8	Agriculture, Multidisciplinary	2.04%
9	Microbiology	1.73%	9	Entomology	2.04%
10	Multidisciplinary Sciences	1.64%	10	Fisheries	2.04%
11	Biophysics	1.52%	11	Forestry	2.04%
12	Immunology	1.45%	12	Microbiology	2.04%
13	Oncology	1.14%	13	Mycology	2.04%
14	Entomology	0.97%	14	Limnology	1.53%
15	Food Science & Technology	0.94%	15	Parasitology	1.53%
16	Chemistry, Applied	0.91%	16	Biology	1.36%
17	Hematology	0.73%	17	Environmental Sciences	1.36%
18	Biochemical Research Methods	0.70%	18	Evolutionary Biology	1.36%
19	Chemistry, Analytical	0.67%	19	Oceanography	1.36%
20	Chemistry, Physical	0.55%	20	Biochemistry & Molecular Biology	1.28%
21	Fisheries	0.55%	21	Communication	1.02%
22	Medicine, Research & Experimental	0.47%	22	Linguistics	1.02%
23	Developmental Biology	0.45%	23	Multidisciplinary Sciences	1.02%
			24	Ornithology	1.02%
			25	Plant Sciences	1.02%
			26	Veterinary Sciences	1.02%
			27	Biotechnology & Applied Microbiology	0.77%
			28	Acoustics	0.51%
			29	Agricultural Engineering	0.51%
			30	Astronomy & Astrophysics	0.51%
			31	Audiology & Speech-Language Pathology	0.51%
			32	Cell Biology	0.51%
			33	Pharmacology & Pharmacy	0.51%
			34	Physics, Particles & Fields	0.51%
			35	Tropical Medicine	0.51%

表 68 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (9/34)

地域研究			ジェンダー		
分科	地域研究	56.00	Rank	WoS subject area	15.00
Fractional					
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	International Relations	10.71%	1	Genetics & Heredity	10.00%
2	Area Studies	7.14%	2	Geriatrics & Gerontology	10.00%
3	Meteorology & Atmospheric Sciences	7.14%	3	Nutrition & Dietetics	10.00%
4	Economics	5.06%	4	Area Studies	6.67%
5	Environmental Studies	4.76%	5	Cardiac & Cardiovascular Systems	6.67%
6	Environmental Sciences	4.46%	6	Demography	6.67%
7	Agricultural Engineering	3.57%	7	Endocrinology & Metabolism	6.67%
8	Food Science & Technology	3.57%	8	Social Sciences, Interdisciplinary	6.67%
9	History	3.57%	9	Neurosciences	5.56%
10	Political Science	3.57%	10	Education, Scientific Disciplines	3.33%
11	Zoology	3.57%	11	Gerontology	3.33%
12	Anthropology	2.98%	12	Health Care Sciences & Services	3.33%
13	Sociology	2.98%	13	Medicine, Research & Experimental	3.33%
14	Asian Studies	2.68%	14	Pharmacology & Pharmacy	3.33%
15	Biotechnology & Applied Microbiology	2.68%	15	Public, Environmental & Occupational Health	3.33%
16	Clinical Neurology	2.68%	16	Clinical Neurology	2.22%
17	Folklore	2.68%	17	Psychiatry	2.22%
18	Geography, Physical	2.68%	18	Ethics	1.67%
19	Microbiology	2.68%	19	Medical Ethics	1.67%
20	Neurosciences	2.68%	20	Social Issues	1.67%
21	Art	1.79%	21	Social Sciences, Biomedical	1.67%
22	Ecology	1.79%			
23	Genetics & Heredity	1.79%			
24	Humanities, Multidisciplinary	1.79%			
25	Religion	1.79%			
26	Agronomy	0.89%			
27	Education & Educational Research	0.89%			
28	Geriatrics & Gerontology	0.89%			
29	Gerontology	0.89%			
30	History Of Social Sciences	0.89%			
31	Materials Science, Textiles	0.89%			
32	Planning & Development	0.89%			
33	Polymer Science	0.89%			
34	Soil Science	0.89%			
35	Social Sciences, Interdisciplinary	0.60%			
36	Statistics & Probability	0.60%			

表 69 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (10/34)

分科			芸術学		
哲学			5.00		
Fractional		39.00			
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Philosophy	26.92%	1	Computer Science, Artificial Intelligence	33.33%
2	Computer Science, Artificial Intelligence	12.61%	2	Art	20.00%
3	Religion	7.69%	3	Urban Studies	20.00%
4	Art	5.13%	4	Computer Science, Software Engineering	13.33%
5	Biology	2.56%	5	Computer Science, Theory & Methods	6.67%
6	Cell Biology	2.56%	6	Imaging Science & Photographic Technology	6.67%
7	Economics	2.56%			
8	Engineering, Electrical & Electronic	2.56%			
9	History & Philosophy Of Science	2.56%			
10	Integrative & Complementary Medicine	2.56%			
11	Neurosciences	2.56%			
12	Psychology, Biological	2.56%			
13	Psychology, Experimental	2.56%			
14	Computer Science, Information Systems	2.35%			
15	Computer Science, Theory & Methods	2.35%			
16	Engineering, Manufacturing	2.14%			
17	Biophysics	1.71%			
18	Chemistry, Physical	1.71%			
19	Materials Science, Biomaterials	1.71%			
20	Asian Studies	1.28%			
21	Education, Scientific Disciplines	1.28%			
22	Logic	1.28%			
23	Mathematics	1.28%			
24	Political Science	1.28%			
25	Sociology	1.28%			
26	Computer Science, Interdisciplinary Applications	0.85%			
27	Engineering, Mechanical	0.85%			
28	Language & Linguistics	0.85%			
29	Linguistics	0.85%			
30	Literature	0.85%			
31	Computer Science, Software Engineering	0.64%			

表 70 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (11/34)

分科 文学			言語学		
Fractional		32.00			135.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Literature	38.54%	1	Linguistics	22.10%
2	Ethnic Studies	6.25%	2	Language & Linguistics	17.41%
3	Humanities, Multidisciplinary	6.25%	3	Neurosciences	13.83%
4	Literature, American	6.25%	4	Education & Educational Research	6.42%
5	Poetry	6.25%	5	Engineering, Electrical & Electronic	6.05%
6	Literature, British Isles	4.69%	6	Computer Science, Artificial Intelligence	4.81%
7	Language & Linguistics	4.17%	7	Psychology, Experimental	4.69%
8	Art	3.13%	8	Literature	3.70%
9	Classics	3.13%	9	Computer Science, Theory & Methods	2.10%
10	Health Care Sciences & Services	3.13%	10	Audiology & Speech-Language Pathology	1.60%
11	History & Philosophy Of Science	3.13%	11	Communication	1.48%
12	Music	3.13%	12	Psychology, Multidisciplinary	1.48%
13	Optics	3.13%	13	Computer Science, Information Systems	1.36%
14	Area Studies	1.56%	14	Clinical Neurology	0.86%
15	Asian Studies	1.56%	15	Area Studies	0.74%
16	Film, Radio, Television	1.56%	16	Art	0.74%
17	Literature, Romance	1.56%	17	Dance	0.74%
18	Theater	1.56%	18	History	0.74%
19	Linguistics	1.04%	19	Humanities, Multidisciplinary	0.74%
			20	Information Science & Library Science	0.74%
			21	Medicine, General & Internal	0.74%
			22	Psychology	0.74%
			23	Psychology, Developmental	0.74%
			24	Automation & Control Systems	0.62%
			25	Psychology, Educational	0.62%
			26	Rehabilitation	0.62%
			27	Robotics	0.62%
			28	Psychiatry	0.49%

表 71 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (12/34)

史学			人文地理学		
Fractional		51.00			9.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	History	22.55%	1	Geography	38.89%
2	Asian Studies	12.09%	2	Environmental Sciences	11.11%
3	Geochemistry & Geophysics	9.80%	3	Literary Reviews	11.11%
4	Anthropology	9.15%	4	Marine & Freshwater Biology	11.11%
5	Evolutionary Biology	8.50%	5	Political Science	11.11%
6	Genetics & Heredity	4.58%	6	Demography	5.56%
7	Area Studies	3.92%	7	Anthropology	3.70%
8	Neurosciences	3.92%	8	Environmental Studies	3.70%
9	Cultural Studies	3.27%	9	Sociology	3.70%
10	Archaeology	1.96%			
11	Classics	1.96%			
12	History & Philosophy Of Science	1.96%			
13	Multidisciplinary Sciences	1.96%			
14	Nuclear Science & Technology	1.14%			
15	Physics, Atomic, Molecular & Chemical	1.14%			
16	Art	0.98%			
17	Business	0.98%			
18	Economics	0.98%			
19	History Of Social Sciences	0.98%			
20	Medieval & Renaissance Studies	0.98%			
21	Religion	0.98%			
22	Chemistry, Physical	0.65%			
23	Ecology	0.65%			
24	Engineering, Electrical & Electronic	0.65%			
25	Imaging Science & Photographic Technology	0.65%			
26	Language & Linguistics	0.65%			
27	Linguistics	0.65%			
28	Literature	0.65%			
29	Optics	0.65%			
30	Instruments & Instrumentation	0.49%			
31	Physics, Nuclear	0.49%			

表 72 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (13/34)

文化人類学			法学		
Fractional		27.00			23.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Meteorology & Atmospheric Sciences	14.81%	1	Economics	18.84%
2	Plant Sciences	11.11%	2	Criminology & Penology	8.70%
3	Surgery	11.11%	3	Law	7.97%
4	Veterinary Sciences	7.41%	4	Toxicology	5.80%
5	Geosciences, Multidisciplinary	5.56%	5	Nursing	4.35%
6	Evolutionary Biology	4.94%	6	Oncology	4.35%
7	Anthropology	3.70%	7	Psychology, Social	4.35%
8	Area Studies	3.70%	8	Computer Science, Artificial Intelligence	3.62%
9	Art	3.70%	9	International Relations	3.62%
10	Cultural Studies	3.70%	10	Area Studies	2.17%
11	History	3.70%	11	Automation & Control Systems	2.17%
12	Language & Linguistics	3.70%	12	Biochemistry & Molecular Biology	2.17%
13	Linguistics	3.70%	13	Endocrinology & Metabolism	2.17%
14	Multidisciplinary Sciences	3.70%	14	Health Care Sciences & Services	2.17%
15	Virology	3.70%	15	Health Policy & Services	2.17%
16	Behavioral Sciences	1.85%	16	Mathematical & Computational Biology	2.17%
17	Geography, Physical	1.85%	17	Psychology	2.17%
18	Psychology, Multidisciplinary	1.85%	18	Psychology, Experimental	2.17%
19	Biochemistry & Molecular Biology	1.23%	19	Social Sciences, Interdisciplinary	2.17%
20	Ecology	1.23%	20	Statistics & Probability	2.17%
21	Instruments & Instrumentation	0.93%	21	Cell & Tissue Engineering	1.45%
22	Nuclear Science & Technology	0.93%	22	Cell Biology	1.45%
23	Physics, Atomic, Molecular & Chemical	0.93%	23	Computer Science, Interdisciplinary Applications	1.45%
24	Physics, Nuclear	0.93%	24	Medicine, Research & Experimental	1.45%
			25	Operations Research & Management Science	1.45%
			26	Pharmacology & Pharmacy	1.45%
			27	Public, Environmental & Occupational Health	1.45%
			28	Ethics	1.09%
			29	Medical Ethics	1.09%
			30	Social Issues	1.09%
			31	Social Sciences, Biomedical	1.09%

表 73 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (14/34)

政治学			経済学		
Fractional		45.00			579.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Political Science	41.11%	1	Economics	53.24%
2	Economics	11.56%	2	Business, Finance	4.27%
3	History	11.11%	3	Mathematics, Applied	4.20%
4	Area Studies	7.78%	4	Statistics & Probability	3.93%
5	International Relations	7.78%	5	Social Sciences, Mathematical Methods	3.67%
6	Sociology	7.78%	6	Mathematics, Interdisciplinary Applications	2.81%
7	Social Sciences, Interdisciplinary	4.44%	7	Operations Research & Management Science	2.22%
8	Humanities, Multidisciplinary	2.22%	8	International Relations	1.84%
9	Engineering, Electrical & Electronic	1.11%	9	Environmental Studies	1.77%
10	Ethics	1.11%	10	Computer Science, Interdisciplinary Applications	1.64%
11	Social Issues	1.11%	11	History	1.50%
12	Social Sciences, Mathematical Methods	1.11%	12	Urban Studies	1.47%
13	Engineering, Civil	0.44%	13	Management	1.40%
14	Operations Research & Management Science	0.44%	14	Mathematics	1.21%
15	Transportation	0.44%	15	Computer Science, Artificial Intelligence	1.04%
16	Transportation Science & Technology	0.44%	16	Business	1.03%
			17	Political Science	0.89%
			18	Planning & Development	0.81%
			19	Social Sciences, Interdisciplinary	0.73%
			20	Physics, Mathematical	0.69%
			21	Environmental Sciences	0.68%
			22	Computer Science, Software Engineering	0.52%
			23	Engineering, Industrial	0.49%
			24	History Of Social Sciences	0.46%
			25	Geography	0.40%

表 74 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (15/34)

経営学			社会学		
分科		74.00			56.00
Fractional					
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Business	16.22%	1	Area Studies	13.39%
2	Management	13.74%	2	Gerontology	10.71%
3	Economics	12.61%	3	Economics	9.82%
4	Business, Finance	9.46%	4	Public, Environmental & Occupational Health	8.04%
5	Engineering, Electrical & Electronic	6.76%	5	Social Sciences, Interdisciplinary	5.36%
6	Operations Research & Management Science	6.76%	6	Sociology	5.36%
7	Social Issues	4.05%	7	International Relations	4.46%
8	Engineering, Industrial	3.83%	8	Anthropology	4.17%
9	Environmental Sciences	2.70%	9	Surgery	3.57%
10	Planning & Development	2.70%	10	Veterinary Sciences	3.57%
11	Computer Science, Artificial Intelligence	2.03%	11	Political Science	3.27%
12	Computer Science, Information Systems	2.03%	12	Computer Science, Information Systems	2.38%
13	Environmental Studies	2.03%	13	Social Issues	2.08%
14	Mathematics, Applied	2.03%	14	Demography	1.79%
15	Computer Science, Interdisciplinary Applications	1.35%	15	Environmental Sciences	1.79%
16	Social Sciences, Interdisciplinary	1.35%	16	Nursing	1.79%
17	Engineering, Manufacturing	1.13%	17	Parasitology	1.79%
18	Urban Studies	0.90%	18	Rehabilitation	1.79%
19	Automation & Control Systems	0.68%	19	Religion	1.79%
20	Biotechnology & Applied Microbiology	0.68%	20	Psychiatry	1.49%
21	Communication	0.68%	21	Criminology & Penology	0.89%
22	Ecology	0.68%	22	Imaging Science & Photographic Technology	0.89%
23	Engineering, Environmental	0.68%	23	Industrial Relations & Labor	0.89%
24	Food Science & Technology	0.68%	24	Psychology, Multidisciplinary	0.89%
25	Law	0.68%	25	Tropical Medicine	0.89%
26	Multidisciplinary Sciences	0.68%	26	Asian Studies	0.60%
27	Sociology	0.68%	27	Clinical Neurology	0.60%
28	Area Studies	0.45%	28	Communication	0.60%
29	Engineering, Civil	0.45%	29	Computer Science, Interdisciplinary Applications	0.60%
30	Political Science	0.45%	30	Computer Science, Software Engineering	0.60%
31	Transportation	0.45%	31	Cultural Studies	0.60%
32	Transportation Science & Technology	0.45%	32	Linguistics	0.60%
			33	Neurosciences	0.60%
			34	Psychology, Social	0.60%
			35	Telecommunications	0.60%

表 75 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (16/34)

心理学			教育学		
Fractional		414.00			72.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Neurosciences	16.22%	1	Education & Educational Research	17.59%
2	Psychology, Experimental	15.31%	2	Neurosciences	10.28%
3	Psychology	9.29%	3	Psychology, Experimental	6.81%
4	Psychology, Multidisciplinary	7.89%	4	Psychology, Developmental	3.82%
5	Psychology, Developmental	5.30%	5	Area Studies	2.78%
6	Psychiatry	4.03%	6	History Of Social Sciences	2.78%
7	Psychology, Social	3.26%	7	Psychology, Social	2.78%
8	Behavioral Sciences	2.91%	8	Psychiatry	2.66%
9	Zoology	2.38%	9	Education, Special	2.43%
10	Multidisciplinary Sciences	2.22%	10	Rehabilitation	2.43%
11	Psychology, Biological	2.15%	11	Clinical Neurology	2.31%
12	Clinical Neurology	2.07%	12	Computer Science, Theory & Methods	2.31%
13	Ophthalmology	2.05%	13	Hematology	2.08%
14	Physiology	1.96%	14	Psychology, Educational	2.08%
15	Psychology, Clinical	1.85%	15	Physiology	1.94%
16	Public, Environmental & Occupational Health	1.81%	16	Psychology	1.94%
17	Computer Science, Artificial Intelligence	1.23%	17	Psychology, Biological	1.94%
18	Endocrinology & Metabolism	1.09%	18	Criminology & Penology	1.39%
19	Computer Science, Theory & Methods	1.03%	19	Education, Scientific Disciplines	1.39%
20	Psychology, Educational	0.97%	20	Engineering, Electrical & Electronic	1.39%
21	Genetics & Heredity	0.89%	21	Family Studies	1.39%
22	Health Care Sciences & Services	0.81%	22	Immunology	1.39%
23	Neuroimaging	0.81%	23	Instruments & Instrumentation	1.39%
24	Linguistics	0.72%	24	Integrative & Complementary Medicine	1.39%
25	Physics, Nuclear	0.72%	25	Mathematics	1.39%
26	Radiology, Nuclear Medicine & Medical Imaging	0.64%	26	Medicine, General & Internal	1.39%
27	Psychology, Mathematical	0.60%	27	Multidisciplinary Sciences	1.39%
28	Oncology	0.58%	28	Pediatrics	1.39%
29	Social Sciences, Biomedical	0.58%	29	Philosophy	1.39%
30	Environmental Sciences	0.56%	30	Psychology, Multidisciplinary	1.39%
31	Social Sciences, Mathematical Methods	0.56%	31	Social Work	1.39%
32	Otorhinolaryngology	0.48%	32	Sport Sciences	1.39%
			33	Computer Science, Information Systems	0.93%
			34	Anthropology	0.69%
			35	Cultural Studies	0.69%
			36	Economics	0.69%
			37	Medicine, Research & Experimental	0.69%
			38	Music	0.69%
			39	Political Science	0.69%
			40	Psychology, Mathematical	0.69%
			41	Social Issues	0.69%
			42	Neuroimaging	0.46%
			43	Radiology, Nuclear Medicine & Medical Imaging	0.46%

表 76 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (17/34)

分科 数学			天文学		
Fractional		1860.00			925.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Mathematics	59.56%	1	Astronomy & Astrophysics	91.46%
2	Mathematics, Applied	20.15%	2	Physics, Applied	1.77%
3	Physics, Mathematical	4.79%	3	Optics	1.50%
4	Statistics & Probability	4.76%	4	Geosciences, Multidisciplinary	0.99%
5	Computer Science, Theory & Methods	1.77%	5	Multidisciplinary Sciences	0.86%
6	Physics, Multidisciplinary	0.86%	6	Physics, Nuclear	0.43%
7	Mechanics	0.77%	7	Engineering, Electrical & Electronic	0.41%
8	Mathematics, Interdisciplinary Applications	0.71%			
9	Engineering, Electrical & Electronic	0.65%			
10	Mathematical & Computational Biology	0.49%			
11	Physics, Fluids & Plasmas	0.46%			
12	Physics, Applied	0.43%			

表 77 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (18/34)

物理学			地球惑星科学		
Fractional		3636.00			1630.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Physics, Multidisciplinary	27.34%	1	Geochemistry & Geophysics	24.03%
2	Physics, Condensed Matter	15.23%	2	Geosciences, Multidisciplinary	20.77%
3	Astronomy & Astrophysics	11.07%	3	Meteorology & Atmospheric Sciences	11.27%
4	Physics, Particles & Fields	10.85%	4	Astronomy & Astrophysics	9.58%
5	Physics, Applied	7.96%	5	Oceanography	4.93%
6	Physics, Nuclear	6.55%	6	Paleontology	4.68%
7	Materials Science, Multidisciplinary	3.36%	7	Mineralogy	4.21%
8	Physics, Atomic, Molecular & Chemical	2.71%	8	Geology	2.82%
9	Optics	2.28%	9	Materials Science, Multidisciplinary	1.38%
10	Physics, Mathematical	1.72%	10	Multidisciplinary Sciences	1.23%
11	Chemistry, Physical	1.35%	11	Physics, Condensed Matter	1.09%
12	Physics, Fluids & Plasmas	0.89%	12	Physics, Multidisciplinary	1.04%
13	Engineering, Electrical & Electronic	0.86%	13	Instruments & Instrumentation	0.93%
14	Nanoscience & Nanotechnology	0.84%	14	Geography, Physical	0.92%
15	Nuclear Science & Technology	0.80%	15	Physics, Applied	0.79%
16	Multidisciplinary Sciences	0.69%	16	Microbiology	0.75%
17	Instruments & Instrumentation	0.67%	17	Environmental Sciences	0.67%
18	Spectroscopy	0.64%	18	Limnology	0.61%
19	Thermodynamics	0.59%	19	Marine & Freshwater Biology	0.61%
20	Chemistry, Multidisciplinary	0.57%	20	Chemistry, Multidisciplinary	0.56%
21	Polymer Science	0.47%	21	Physics, Fluids & Plasmas	0.55%
			22	Zoology	0.52%
			23	Chemistry, Physical	0.41%
			24	Metallurgy & Metallurgical Engineering	0.40%

表 78 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (19/34)

分科 プラズマ科学			基礎化学		
Fractional		301.00			1730.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Physics, Applied	32.86%	1	Chemistry, Multidisciplinary	35.25%
2	Physics, Fluids & Plasmas	24.70%	2	Chemistry, Organic	16.17%
3	Physics, Multidisciplinary	10.63%	3	Chemistry, Physical	11.32%
4	Physics, Nuclear	3.49%	4	Chemistry, Inorganic & Nuclear	10.17%
5	Materials Science, Multidisciplinary	3.27%	5	Physics, Atomic, Molecular & Chemical	8.61%
6	Polymer Science	3.16%	6	Crystallography	2.85%
7	Physics, Condensed Matter	3.02%	7	Materials Science, Multidisciplinary	2.29%
8	Instruments & Instrumentation	2.41%	8	Physics, Condensed Matter	1.97%
9	Materials Science, Coatings & Films	1.99%	9	Physics, Applied	1.39%
10	Chemistry, Multidisciplinary	1.77%	10	Physics, Multidisciplinary	1.36%
11	Optics	1.61%	11	Nanoscience & Nanotechnology	1.23%
12	Nuclear Science & Technology	1.52%	12	Polymer Science	0.94%
13	Engineering, Electrical & Electronic	1.50%	13	Optics	0.80%
14	Chemistry, Physical	1.33%	14	Mathematics, Interdisciplinary Applications	0.75%
15	Physics, Particles & Fields	1.25%	15	Multidisciplinary Sciences	0.69%
16	Nanoscience & Nanotechnology	1.16%	16	Spectroscopy	0.62%
17	Astronomy & Astrophysics	1.16%	17	Chemistry, Analytical	0.52%
18	Physics, Mathematical	1.00%	18	Biochemistry & Molecular Biology	0.40%
19	Physics, Atomic, Molecular & Chemical	0.66%			

表 79 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (20/34)

複合化学			材料化学		
Fractional		2456.00			914.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Chemistry, Multidisciplinary	30.74%	1	Chemistry, Multidisciplinary	15.46%
2	Chemistry, Organic	15.29%	2	Polymer Science	15.27%
3	Polymer Science	10.60%	3	Chemistry, Physical	12.41%
4	Chemistry, Physical	6.02%	4	Materials Science, Multidisciplinary	9.97%
5	Chemistry, Analytical	5.95%	5	Physics, Applied	7.57%
6	Biochemistry & Molecular Biology	4.20%	6	Electrochemistry	5.85%
7	Chemistry, Inorganic & Nuclear	3.94%	7	Physics, Condensed Matter	3.43%
8	Materials Science, Multidisciplinary	3.29%	8	Materials Science, Ceramics	3.23%
9	Physics, Applied	2.09%	9	Chemistry, Organic	3.02%
10	Crystallography	1.70%	10	Crystallography	2.87%
11	Physics, Atomic, Molecular & Chemical	1.50%	11	Energy & Fuels	2.25%
12	Physics, Condensed Matter	1.33%	12	Nanoscience & Nanotechnology	2.16%
13	Biochemical Research Methods	1.32%	13	Physics, Atomic, Molecular & Chemical	2.03%
14	Electrochemistry	1.29%	14	Physics, Multidisciplinary	1.89%
15	Nanoscience & Nanotechnology	1.27%	15	Chemistry, Inorganic & Nuclear	1.44%
16	Chemistry, Medicinal	1.01%	16	Optics	1.03%
17	Spectroscopy	0.86%	17	Materials Science, Coatings & Films	0.93%
18	Biophysics	0.83%	18	Engineering, Electrical & Electronic	0.89%
19	Multidisciplinary Sciences	0.65%	19	Biochemistry & Molecular Biology	0.88%
20	Chemistry, Applied	0.61%	20	Chemistry, Analytical	0.60%
21	Pharmacology & Pharmacy	0.52%	21	Metallurgy & Metallurgical Engineering	0.60%
22	Engineering, Chemical	0.46%	22	Spectroscopy	0.49%
			23	Engineering, Chemical	0.46%
			24	Chemistry, Applied	0.46%
			25	Multidisciplinary Sciences	0.44%
			26	Physics, Mathematical	0.42%

表 80 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (21/34)

分科 応用物理学・工学基礎			機械工学		
Fractional		1254.00			1261.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Physics, Applied	31.83%	1	Engineering, Mechanical	14.53%
2	Optics	11.58%	2	Materials Science, Multidisciplinary	8.57%
3	Physics, Condensed Matter	9.36%	3	Physics, Applied	6.74%
4	Engineering, Electrical & Electronic	7.24%	4	Engineering, Electrical & Electronic	6.03%
5	Materials Science, Multidisciplinary	6.07%	5	Mechanics	6.03%
6	Physics, Multidisciplinary	5.58%	6	Thermodynamics	4.69%
7	Chemistry, Physical	3.26%	7	Robotics	4.28%
8	Nanoscience & Nanotechnology	2.29%	8	Engineering, Biomedical	3.70%
9	Mathematics, Applied	2.12%	9	Automation & Control Systems	3.61%
10	Crystallography	1.85%	10	Nanoscience & Nanotechnology	2.74%
11	Physics, Fluids & Plasmas	1.22%	11	Computer Science, Artificial Intelligence	2.55%
12	Physics, Mathematical	1.16%	12	Engineering, Manufacturing	2.48%
13	Materials Science, Coatings & Films	1.14%	13	Instruments & Instrumentation	2.09%
14	Spectroscopy	1.04%	14	Materials Science, Composites	1.86%
15	Astronomy & Astrophysics	1.00%	15	Physics, Multidisciplinary	1.63%
16	Chemistry, Multidisciplinary	0.92%	16	Physics, Condensed Matter	1.56%
17	Materials Science, Composites	0.92%	17	Chemistry, Physical	1.55%
18	Nuclear Science & Technology	0.85%	18	Engineering, Multidisciplinary	1.35%
19	Physics, Atomic, Molecular & Chemical	0.80%	19	Physics, Fluids & Plasmas	1.29%
20	Instruments & Instrumentation	0.79%	20	Engineering, Chemical	1.29%
21	Microscopy	0.78%	21	Energy & Fuels	1.20%
22	Computer Science, Theory & Methods	0.56%	22	Metallurgy & Metallurgical Engineering	1.18%
23	Telecommunications	0.51%	23	Computer Science, Interdisciplinary Applications	1.16%
24	Multidisciplinary Sciences	0.48%	24	Engineering, Aerospace	1.15%
25	Operations Research & Management Science	0.47%	25	Optics	1.12%
26	Electrochemistry	0.40%	26	Electrochemistry	1.10%
			27	Materials Science, Characterization & Testing	0.73%
			28	Chemistry, Multidisciplinary	0.72%
			29	Materials Science, Coatings & Films	0.71%
			30	Computer Science, Theory & Methods	0.69%
			31	Biophysics	0.67%
			32	Engineering, Industrial	0.66%
			33	Polymer Science	0.59%
			34	Engineering, Civil	0.56%
			35	Mathematics, Applied	0.54%
			36	Computer Science, Cybernetics	0.50%
			37	Chemistry, Analytical	0.48%
			38	Materials Science, Biomaterials	0.48%
			39	Computer Science, Information Systems	0.43%
			40	Computer Science, Software Engineering	0.42%
			41	Physics, Mathematical	0.41%

表 81 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (22/34)

電気電子工学			土木工学		
Fractional		2542.00			323.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Engineering, Electrical & Electronic	27.91%	1	Engineering, Civil	11.62%
2	Physics, Applied	25.45%	2	Environmental Sciences	10.73%
3	Optics	6.97%	3	Water Resources	8.02%
4	Telecommunications	5.90%	4	Transportation Science & Technology	7.31%
5	Materials Science, Multidisciplinary	3.05%	5	Geosciences, Multidisciplinary	5.99%
6	Automation & Control Systems	2.98%	6	Engineering, Environmental	5.96%
7	Physics, Condensed Matter	2.52%	7	Engineering, Geological	5.65%
8	Computer Science, Theory & Methods	1.96%	8	Materials Science, Multidisciplinary	3.69%
9	Computer Science, Information Systems	1.95%	9	Mechanics	2.89%
10	Physics, Multidisciplinary	1.77%	10	Engineering, Ocean	2.68%
11	Computer Science, Artificial Intelligence	1.76%	11	Meteorology & Atmospheric Sciences	2.48%
12	Computer Science, Hardware & Architecture	1.74%	12	Transportation	2.43%
13	Nanoscience & Nanotechnology	1.04%	13	Construction & Building Technology	2.14%
14	Energy & Fuels	0.85%	14	Engineering, Mechanical	1.93%
15	Materials Science, Coatings & Films	0.82%	15	Oceanography	1.91%
16	Instruments & Instrumentation	0.69%	16	Public, Environmental & Occupational Health	1.26%
17	Computer Science, Interdisciplinary Applications	0.64%	17	Mathematics, Applied	1.24%
18	Engineering, Biomedical	0.62%	18	Multidisciplinary Sciences	1.24%
19	Robotics	0.59%	19	Limnology	1.19%
20	Crystallography	0.56%	20	Engineering, Multidisciplinary	0.93%
21	Mathematics, Applied	0.55%	21	Marine & Freshwater Biology	0.93%
22	Imaging Science & Photographic Technology	0.54%	22	Ecology	0.83%
23	Materials Science, Ceramics	0.52%	23	Soil Science	0.83%
24	Physics, Fluids & Plasmas	0.47%	24	Operations Research & Management Science	0.78%
25	Electrochemistry	0.47%	25	Engineering, Chemical	0.77%
26	Chemistry, Physical	0.45%	26	Microbiology	0.77%
27	Transportation Science & Technology	0.40%	27	Toxicology	0.77%
			28	Economics	0.70%
			29	Geology	0.70%
			30	Mathematics, Interdisciplinary Applications	0.67%
			31	Fisheries	0.62%
			32	Geochemistry & Geophysics	0.62%
			33	Biotechnology & Applied Microbiology	0.57%
			34	Physics, Applied	0.57%
			35	Environmental Studies	0.52%
			36	Instruments & Instrumentation	0.46%

表 82 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (23/34)

建築学			材料工学		
Fractional		82.00			1478.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Engineering, Civil	25.20%	1	Materials Science, Multidisciplinary	25.53%
2	Construction & Building Technology	20.53%	2	Metallurgy & Metallurgical Engineering	13.73%
3	Engineering, Mechanical	7.32%	3	Physics, Applied	13.71%
4	Architecture	4.88%	4	Physics, Condensed Matter	6.68%
5	Engineering, Geological	4.88%	5	Materials Science, Ceramics	5.54%
6	Energy & Fuels	3.66%	6	Chemistry, Physical	5.01%
7	Mechanics	3.25%	7	Electrochemistry	3.53%
8	Engineering, Environmental	2.48%	8	Materials Science, Coatings & Films	3.37%
9	Acoustics	2.44%	9	Engineering, Electrical & Electronic	3.22%
10	Materials Science, Multidisciplinary	2.03%	10	Chemistry, Multidisciplinary	2.32%
11	Engineering, Multidisciplinary	1.83%	11	Nanoscience & Nanotechnology	1.95%
12	Engineering, Electrical & Electronic	1.63%	12	Physics, Multidisciplinary	1.95%
13	Operations Research & Management Science	1.46%	13	Materials Science, Composites	1.39%
14	Geography	1.26%	14	Polymer Science	1.14%
15	Environmental Studies	1.26%	15	Optics	1.11%
16	Cell Biology	1.22%	16	Materials Science, Biomaterials	1.05%
17	Engineering, Chemical	1.22%	17	Microscopy	0.91%
18	Meteorology & Atmospheric Sciences	1.22%	18	Instruments & Instrumentation	0.69%
19	Optics	1.22%	19	Chemistry, Inorganic & Nuclear	0.64%
20	Physics, Applied	0.81%	20	Physics, Atomic, Molecular & Chemical	0.61%
21	Computer Science, Artificial Intelligence	0.71%	21	Nuclear Science & Technology	0.58%
22	Computer Science, Interdisciplinary Applications	0.65%	22	Materials Science, Characterization & Testing	0.54%
23	Audiology & Speech-Language Pathology	0.61%	23	Physics, Fluids & Plasmas	0.47%
24	Biology	0.61%	24	Energy & Fuels	0.46%
25	Physiology	0.61%	25	Crystallography	0.42%
26	Psychology	0.61%			
27	Psychology, Experimental	0.61%			
28	Computer Science, Information Systems	0.41%			
29	Engineering, Biomedical	0.41%			
30	Engineering, Industrial	0.41%			
31	Environmental Sciences	0.41%			
32	Geosciences, Multidisciplinary	0.41%			
33	Materials Science, Biomaterials	0.41%			
34	Materials Science, Composites	0.41%			
35	Mathematics, Interdisciplinary Applications	0.41%			
36	Multidisciplinary Sciences	0.41%			
37	Oceanography	0.41%			
38	Planning & Development	0.41%			
39	Urban Studies	0.41%			

表 83 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (24/34)

プロセス工学			総合工学		
Fractional		718.00			769.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Chemistry, Multidisciplinary	18.03%	1	Physics, Applied	9.55%
2	Chemistry, Physical	14.40%	2	Physics, Fluids & Plasmas	9.41%
3	Engineering, Chemical	11.61%	3	Nuclear Science & Technology	9.03%
4	Biotechnology & Applied Microbiology	7.03%	4	Materials Science, Multidisciplinary	7.11%
5	Materials Science, Multidisciplinary	6.08%	5	Physics, Nuclear	4.62%
6	Biochemistry & Molecular Biology	4.16%	6	Engineering, Mechanical	4.52%
7	Chemistry, Applied	3.55%	7	Engineering, Electrical & Electronic	3.82%
8	Food Science & Technology	2.82%	8	Engineering, Aerospace	3.61%
9	Polymer Science	2.54%	9	Physics, Multidisciplinary	2.93%
10	Chemistry, Organic	2.50%	10	Metallurgy & Metallurgical Engineering	2.42%
11	Physics, Applied	2.37%	11	Chemistry, Physical	2.29%
12	Chemistry, Analytical	1.90%	12	Energy & Fuels	2.19%
13	Energy & Fuels	1.67%	13	Mining & Mineral Processing	2.08%
14	Electrochemistry	1.51%	14	Optics	2.08%
15	Nanoscience & Nanotechnology	1.43%	15	Chemistry, Multidisciplinary	1.99%
16	Oncology	1.25%	16	Physics, Condensed Matter	1.93%
17	Physics, Atomic, Molecular & Chemical	1.15%	17	Instruments & Instrumentation	1.82%
18	Environmental Sciences	1.10%	18	Geosciences, Multidisciplinary	1.73%
19	Physics, Condensed Matter	1.08%	19	Physics, Atomic, Molecular & Chemical	1.70%
20	Pharmacology & Pharmacy	1.07%	20	Electrochemistry	1.59%
21	Biophysics	1.03%	21	Materials Science, Composites	1.50%
22	Materials Science, Biomaterials	0.97%	22	Geochemistry & Geophysics	1.30%
23	Engineering, Environmental	0.94%	23	Environmental Sciences	1.01%
24	Biochemical Research Methods	0.87%	24	Oceanography	0.98%
25	Metallurgy & Metallurgical Engineering	0.81%	25	Engineering, Chemical	0.94%
26	Materials Science, Ceramics	0.77%	26	Engineering, Environmental	0.93%
27	Engineering, Electrical & Electronic	0.76%	27	Spectroscopy	0.85%
28	Microbiology	0.70%	28	Polymer Science	0.82%
29	Cell Biology	0.67%	29	Mechanics	0.80%
30	Engineering, Biomedical	0.63%	30	Engineering, Civil	0.76%
31	Chemistry, Medicinal	0.56%	31	Computer Science, Interdisciplinary Applications	0.76%
			32	Robotics	0.76%
			33	Chemistry, Inorganic & Nuclear	0.74%
			34	Computer Science, Artificial Intelligence	0.74%
			35	Engineering, Ocean	0.65%
			36	Mineralogy	0.65%
			37	Engineering, Marine	0.54%
			38	Nanoscience & Nanotechnology	0.53%
			39	Radiology, Nuclear Medicine & Medical Imaging	0.52%
			40	Automation & Control Systems	0.46%
			41	Engineering, Manufacturing	0.46%
			42	Multidisciplinary Sciences	0.43%
			43	Materials Science, Ceramics	0.42%
			44	Thermodynamics	0.41%

表 84 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (25/34)

基礎生物学			生物科学		
Fractional		1453.00			1696.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Plant Sciences	15.91%	1	Biochemistry & Molecular Biology	32.17%
2	Biochemistry & Molecular Biology	9.16%	2	Cell Biology	17.09%
3	Cell Biology	7.74%	3	Multidisciplinary Sciences	6.92%
4	Zoology	7.56%	4	Developmental Biology	5.70%
5	Genetics & Heredity	6.60%	5	Biophysics	5.05%
6	Ecology	6.30%	6	Genetics & Heredity	4.19%
7	Entomology	5.85%	7	Neurosciences	2.77%
8	Multidisciplinary Sciences	4.87%	8	Chemistry, Multidisciplinary	2.35%
9	Evolutionary Biology	3.95%	9	Microbiology	1.87%
10	Marine & Freshwater Biology	3.61%	10	Immunology	1.67%
11	Endocrinology & Metabolism	3.32%	11	Biotechnology & Applied Microbiology	1.38%
12	Neurosciences	2.51%	12	Biochemical Research Methods	1.27%
13	Developmental Biology	2.09%	13	Oncology	1.27%
14	Biology	2.05%	14	Plant Sciences	0.87%
15	Microbiology	1.53%	15	Pharmacology & Pharmacy	0.78%
16	Biophysics	1.11%	16	Physics, Applied	0.71%
17	Biotechnology & Applied Microbiology	1.10%	17	Physiology	0.71%
18	Physiology	1.06%	18	Chemistry, Physical	0.64%
19	Behavioral Sciences	0.99%	19	Entomology	0.62%
20	Pharmacology & Pharmacy	0.89%	20	Zoology	0.62%
21	Forestry	0.75%	21	Crystallography	0.60%
22	Mycology	0.65%	22	Biology	0.58%
23	Environmental Sciences	0.60%	23	Chemistry, Medicinal	0.51%
24	Parasitology	0.57%	24	Evolutionary Biology	0.48%
25	Biodiversity Conservation	0.55%	25	Chemistry, Organic	0.45%
26	Mathematical & Computational Biology	0.53%	26	Pathology	0.44%
27	Fisheries	0.52%	27	Hematology	0.43%
28	Reproductive Biology	0.49%	28	Endocrinology & Metabolism	0.42%
29	Toxicology	0.48%	29	Materials Science, Multidisciplinary	0.40%
			30	Medicine, Research & Experimental	0.40%

表 85 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (26/34)

分科 人類学			農学		
Fractional		197.00			561.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Anthropology	17.09%	1	Plant Sciences	24.93%
2	Evolutionary Biology	15.06%	2	Entomology	9.74%
3	Zoology	14.55%	3	Biochemistry & Molecular Biology	9.06%
4	Multidisciplinary Sciences	11.68%	4	Agronomy	7.75%
5	Genetics & Heredity	9.56%	5	Horticulture	7.61%
6	Physiology	4.23%	6	Genetics & Heredity	5.20%
7	Biochemistry & Molecular Biology	4.06%	7	Biotechnology & Applied Microbiology	4.72%
8	Neurosciences	2.79%	8	Cell Biology	4.16%
9	Dentistry, Oral Surgery & Medicine	2.54%	9	Virology	3.48%
10	Paleontology	2.03%	10	Multidisciplinary Sciences	2.85%
11	Anatomy & Morphology	1.52%	11	Microbiology	2.50%
12	Ecology	1.35%	12	Zoology	2.17%
13	Geosciences, Multidisciplinary	1.35%	13	Agriculture, Multidisciplinary	1.90%
14	Biology	1.18%	14	Ecology	1.57%
15	Chemistry, Multidisciplinary	1.02%	15	Food Science & Technology	1.29%
16	Endocrinology & Metabolism	1.02%	16	Chemistry, Organic	1.19%
17	Geochemistry & Geophysics	1.02%	17	Physiology	0.97%
18	Archaeology	0.85%	18	Forestry	0.83%
19	Sport Sciences	0.68%	19	Evolutionary Biology	0.74%
20	Cell Biology	0.59%	20	Environmental Sciences	0.71%
21	Dermatology	0.51%	21	Mycology	0.71%
22	Oncology	0.51%	22	Developmental Biology	0.59%
23	Ophthalmology	0.51%	23	Biology	0.56%
24	Psychiatry	0.51%	24	Pharmacology & Pharmacy	0.53%
25	Surgery	0.51%	25	Biophysics	0.42%
26	Veterinary Sciences	0.51%			
27	Nutrition & Dietetics	0.42%			

表 86 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (27/34)

農芸化学			林学		
Fractional		882.00			327.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Biochemistry & Molecular Biology	23.70%	1	Forestry	15.19%
2	Biotechnology & Applied Microbiology	10.98%	2	Ecology	9.28%
3	Microbiology	8.82%	3	Plant Sciences	8.97%
4	Chemistry, Organic	5.72%	4	Mycology	4.74%
5	Food Science & Technology	5.02%	5	Water Resources	4.59%
6	Plant Sciences	4.75%	6	Environmental Sciences	4.08%
7	Cell Biology	4.39%	7	Biodiversity Conservation	4.03%
8	Chemistry, Applied	4.07%	8	Chemistry, Organic	4.03%
9	Nutrition & Dietetics	2.99%	9	Polymer Science	3.72%
10	Pharmacology & Pharmacy	2.52%	10	Materials Science, Paper & Wood	3.31%
11	Biophysics	2.47%	11	Biochemistry & Molecular Biology	3.08%
12	Chemistry, Medicinal	2.23%	12	Entomology	2.70%
13	Immunology	1.86%	13	Chemistry, Multidisciplinary	2.55%
14	Chemistry, Multidisciplinary	1.73%	14	Zoology	2.24%
15	Neurosciences	1.63%	15	Soil Science	1.94%
16	Genetics & Heredity	1.50%	16	Biotechnology & Applied Microbiology	1.83%
17	Soil Science	1.31%	17	Materials Science, Multidisciplinary	1.63%
18	Endocrinology & Metabolism	1.27%	18	Geography, Physical	1.48%
19	Oncology	1.14%	19	Agriculture, Multidisciplinary	1.43%
20	Agronomy	0.97%	20	Geosciences, Multidisciplinary	1.38%
21	Multidisciplinary Sciences	0.96%	21	Chemistry, Applied	1.30%
22	Biochemical Research Methods	0.85%	22	Genetics & Heredity	1.27%
23	Toxicology	0.79%	23	Multidisciplinary Sciences	1.22%
24	Agriculture, Multidisciplinary	0.76%	24	Evolutionary Biology	1.22%
25	Peripheral Vascular Disease	0.64%	25	Materials Science, Textiles	1.17%
26	Engineering, Chemical	0.59%	26	Astronomy & Astrophysics	1.07%
27	Chemistry, Physical	0.42%	27	Physics, Multidisciplinary	1.07%
28	Chemistry, Analytical	0.41%	28	Microbiology	0.84%
			29	Chemistry, Analytical	0.71%
			30	Spectroscopy	0.71%
			31	Limnology	0.71%
			32	Meteorology & Atmospheric Sciences	0.61%
			33	Agronomy	0.51%
			34	Engineering, Civil	0.51%
			35	Biochemical Research Methods	0.48%
			36	Chemistry, Physical	0.46%
			37	Physics, Applied	0.46%
			38	Biology	0.41%
			39	Pharmacology & Pharmacy	0.41%

表 87 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (28/34)

分科 水産学			農業経済学		
Fractional		344.00			20.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Fisheries	23.84%	1	Economics	37.08%
2	Marine & Freshwater Biology	12.21%	2	Agriculture, Multidisciplinary	30.00%
3	Zoology	9.18%	3	Environmental Studies	5.42%
4	Biochemistry & Molecular Biology	4.53%	4	Agricultural Economics & Policy	5.00%
5	Oceanography	3.88%	5	Food Science & Technology	5.00%
6	Ecology	3.34%	6	Forestry	5.00%
7	Biotechnology & Applied Microbiology	3.12%	7	Hospitality, Leisure, Sport & Tourism	2.50%
8	Microbiology	2.76%	8	Sociology	2.50%
9	Environmental Sciences	2.71%	9	Business	1.67%
10	Endocrinology & Metabolism	2.69%	10	Business, Finance	1.67%
11	Immunology	2.62%	11	International Relations	1.67%
12	Veterinary Sciences	2.37%	12	Ecology	1.25%
13	Chemistry, Organic	1.74%	13	Environmental Sciences	1.25%
14	Multidisciplinary Sciences	1.74%			
15	Biology	1.65%			
16	Developmental Biology	1.53%			
17	Pharmacology & Pharmacy	1.53%			
18	Physiology	1.53%			
19	Cell Biology	1.48%			
20	Reproductive Biology	1.09%			
21	Food Science & Technology	1.02%			
22	Toxicology	0.99%			
23	Plant Sciences	0.94%			
24	Chemistry, Applied	0.80%			
25	Virology	0.78%			
26	Evolutionary Biology	0.78%			
27	Biodiversity Conservation	0.68%			
28	Neurosciences	0.65%			
29	Chemistry, Analytical	0.58%			
30	Genetics & Heredity	0.53%			
31	Agriculture, Multidisciplinary	0.48%			
32	Biochemical Research Methods	0.48%			
33	Geosciences, Multidisciplinary	0.48%			
34	Biophysics	0.44%			

表 88 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (29/34)

農業工学			畜産学・獣医学		
Fractional		113.00			780.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Agriculture, Multidisciplinary	10.91%	1	Veterinary Sciences	20.56%
2	Agronomy	8.26%	2	Agriculture, Dairy & Animal Science	9.57%
3	Agricultural Engineering	7.37%	3	Reproductive Biology	7.39%
4	Biology	5.31%	4	Parasitology	6.15%
5	Plant Sciences	5.16%	5	Virology	4.55%
6	Horticulture	4.87%	6	Biochemistry & Molecular Biology	4.49%
7	Water Resources	4.42%	7	Neurosciences	4.04%
8	Food Science & Technology	4.06%	8	Endocrinology & Metabolism	3.53%
9	Geosciences, Multidisciplinary	3.61%	9	Immunology	3.08%
10	Nuclear Science & Technology	2.88%	10	Microbiology	2.76%
11	Environmental Sciences	2.51%	11	Cell Biology	2.69%
12	Soil Science	2.51%	12	Pharmacology & Pharmacy	2.44%
13	Chemistry, Analytical	2.06%	13	Multidisciplinary Sciences	2.31%
14	Engineering, Geological	1.92%	14	Developmental Biology	2.18%
15	Chemistry, Applied	1.84%	15	Zoology	1.94%
16	Spectroscopy	1.84%	16	Food Science & Technology	1.86%
17	Chemistry, Inorganic & Nuclear	1.77%	17	Infectious Diseases	1.71%
18	Computer Science, Artificial Intelligence	1.77%	18	Genetics & Heredity	1.54%
19	Engineering, Electrical & Electronic	1.77%	19	Physiology	1.54%
20	Meteorology & Atmospheric Sciences	1.77%	20	Biophysics	1.37%
21	Remote Sensing	1.55%	21	Biotechnology & Applied Microbiology	1.28%
22	Biotechnology & Applied Microbiology	1.40%	22	Medicine, Research & Experimental	1.09%
23	Ecology	1.33%	23	Hematology	1.03%
24	Engineering, Civil	1.18%	24	Agriculture, Multidisciplinary	0.96%
25	Geography, Physical	1.11%	25	Toxicology	0.92%
26	Imaging Science & Photographic Technology	1.11%	26	Pathology	0.75%
27	Mathematics, Applied	1.03%	27	Dermatology	0.71%
28	Automation & Control Systems	0.88%	28	Anatomy & Morphology	0.58%
29	Entomology	0.88%	29	Entomology	0.45%
30	Geography	0.88%			
31	Instruments & Instrumentation	0.88%			
32	Materials Science, Ceramics	0.88%			
33	Microbiology	0.88%			
34	Philosophy	0.88%			
35	Biochemistry & Molecular Biology	0.66%			
36	Architecture	0.44%			
37	Computer Science, Information Systems	0.44%			
38	Computer Science, Interdisciplinary Applications	0.44%			
39	Computer Science, Theory & Methods	0.44%			
40	Construction & Building Technology	0.44%			
41	Economics	0.44%			
42	Engineering, Environmental	0.44%			
43	Environmental Studies	0.44%			
44	Forestry	0.44%			
45	Materials Science, Paper & Wood	0.44%			
46	Operations Research & Management Science	0.44%			

表 89 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (30/34)

境界農学			薬学		
Fractional		296.00			2351.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Biochemistry & Molecular Biology	15.26%	1	Chemistry, Organic	20.17%
2	Plant Sciences	11.18%	2	Pharmacology & Pharmacy	14.46%
3	Soil Science	6.98%	3	Biochemistry & Molecular Biology	12.62%
4	Microbiology	6.42%	4	Chemistry, Multidisciplinary	11.91%
5	Biotechnology & Applied Microbiology	6.02%	5	Chemistry, Medicinal	3.38%
6	Agronomy	4.95%	6	Neurosciences	3.36%
7	Cell Biology	4.47%	7	Cell Biology	3.25%
8	Food Science & Technology	3.10%	8	Oncology	3.01%
9	Virology	2.70%	9	Peripheral Vascular Disease	2.91%
10	Entomology	2.53%	10	Biophysics	2.33%
11	Genetics & Heredity	2.14%	11	Toxicology	1.95%
12	Polymer Science	1.91%	12	Chemistry, Analytical	1.87%
13	Biophysics	1.89%	13	Immunology	1.65%
14	Veterinary Sciences	1.86%	14	Multidisciplinary Sciences	1.36%
15	Biochemical Research Methods	1.75%	15	Biochemical Research Methods	1.24%
16	Chemistry, Applied	1.69%	16	Endocrinology & Metabolism	1.05%
17	Environmental Sciences	1.69%	17	Medicine, Research & Experimental	0.97%
18	Agriculture, Dairy & Animal Science	1.52%	18	Microbiology	0.82%
19	Multidisciplinary Sciences	1.49%	19	Physiology	0.79%
20	Oncology	1.35%	20	Hematology	0.55%
21	Neurosciences	1.32%	21	Genetics & Heredity	0.50%
22	Materials Science, Paper & Wood	1.30%	22	Biotechnology & Applied Microbiology	0.48%
23	Chemistry, Organic	1.15%	23	Chemistry, Physical	0.45%
24	Physics, Applied	1.01%	24	Virology	0.43%
25	Forestry	0.84%	25	Chemistry, Inorganic & Nuclear	0.43%
26	Reproductive Biology	0.84%	26	Gastroenterology & Hepatology	0.40%
27	Materials Science, Textiles	0.79%			
28	Chemistry, Medicinal	0.70%			
29	Chemistry, Physical	0.68%			
30	Mineralogy	0.68%			
31	Parasitology	0.68%			
32	Zoology	0.68%			
33	Engineering, Environmental	0.62%			
34	Pharmacology & Pharmacy	0.59%			
35	Agriculture, Multidisciplinary	0.56%			
36	Ecology	0.56%			
37	Nutrition & Dietetics	0.51%			
38	Physiology	0.47%			

表 90 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (31/34)

基礎医学			境界医学		
Fractional		3523.00			564.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Biochemistry & Molecular Biology	10.33%	1	Pharmacology & Pharmacy	10.61%
2	Oncology	9.18%	2	Oncology	9.98%
3	Immunology	8.89%	3	Biochemistry & Molecular Biology	8.61%
4	Cell Biology	8.39%	4	Hematology	8.04%
5	Neurosciences	5.69%	5	Neurosciences	6.22%
6	Multidisciplinary Sciences	4.66%	6	Medical Laboratory Technology	4.31%
7	Physiology	4.17%	7	Peripheral Vascular Disease	3.69%
8	Virology	3.96%	8	Cardiac & Cardiovascular Systems	3.07%
9	Pathology	3.86%	9	Rheumatology	3.01%
10	Genetics & Heredity	3.48%	10	Immunology	2.67%
11	Pharmacology & Pharmacy	3.34%	11	Endocrinology & Metabolism	2.22%
12	Medicine, Research & Experimental	3.12%	12	Gastroenterology & Hepatology	1.89%
13	Microbiology	2.78%	13	Chemistry, Analytical	1.88%
14	Endocrinology & Metabolism	2.33%	14	Health Care Sciences & Services	1.85%
15	Gastroenterology & Hepatology	2.13%	15	Radiology, Nuclear Medicine & Medical Imaging	1.60%
16	Hematology	2.12%	16	Cell Biology	1.55%
17	Biophysics	2.10%	17	Medicine, General & Internal	1.48%
18	Peripheral Vascular Disease	1.56%	18	Biophysics	1.34%
19	Developmental Biology	1.43%	19	Biochemical Research Methods	1.33%
20	Infectious Diseases	1.19%	20	Critical Care Medicine	1.24%
21	Cardiac & Cardiovascular Systems	1.14%	21	Chemistry, Organic	1.21%
22	Parasitology	1.14%	22	Genetics & Heredity	1.17%
23	Urology & Nephrology	0.94%	23	Microbiology	1.12%
24	Biotechnology & Applied Microbiology	0.87%	24	Medicine, Research & Experimental	1.09%
25	Clinical Neurology	0.70%	25	Pathology	0.98%
26	Rheumatology	0.51%	26	Chemistry, Medicinal	0.95%
27	Surgery	0.50%	27	Transplantation	0.86%
28	Veterinary Sciences	0.47%	28	Physiology	0.80%
29	Dermatology	0.46%	29	Urology & Nephrology	0.80%
30	Respiratory System	0.45%	30	Chemistry, Multidisciplinary	0.77%
31	Toxicology	0.44%	31	Surgery	0.68%
32	Ophthalmology	0.43%	32	Virology	0.65%
			33	Multidisciplinary Sciences	0.62%
			34	Psychiatry	0.61%
			35	Nutrition & Dietetics	0.59%
			36	Obstetrics & Gynecology	0.59%
			37	Clinical Neurology	0.52%
			38	Physics, Applied	0.50%
			39	Health Policy & Services	0.49%
			40	Infectious Diseases	0.47%
			41	Engineering, Electrical & Electronic	0.44%
			42	Biology	0.41%
			43	Psychology, Clinical	0.41%

表 91 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (32/34)

社会医学			内科系臨床医学		
Fractional		693.00			6672.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Peripheral Vascular Disease	9.24%	1	Oncology	7.52%
2	Public, Environmental & Occupational Health	8.73%	2	Gastroenterology & Hepatology	6.04%
3	Toxicology	8.49%	3	Biochemistry & Molecular Biology	5.69%
4	Oncology	5.48%	4	Hematology	5.59%
5	Pharmacology & Pharmacy	4.30%	5	Endocrinology & Metabolism	5.57%
6	Endocrinology & Metabolism	4.16%	6	Cardiac & Cardiovascular Systems	5.46%
7	Biochemistry & Molecular Biology	4.00%	7	Neurosciences	5.03%
8	Medical Laboratory Technology	3.32%	8	Clinical Neurology	4.92%
9	Nutrition & Dietetics	3.01%	9	Immunology	4.51%
10	Environmental Sciences	2.93%	10	Peripheral Vascular Disease	4.08%
11	Gastroenterology & Hepatology	2.93%	11	Dermatology	3.98%
12	Clinical Neurology	2.19%	12	Radiology, Nuclear Medicine & Medical Imaging	3.68%
13	Cardiac & Cardiovascular Systems	2.16%	13	Urology & Nephrology	2.78%
14	Neurosciences	2.07%	14	Genetics & Heredity	2.67%
15	Medicine, Legal	1.92%	15	Pharmacology & Pharmacy	2.55%
16	Gerontology	1.90%	16	Cell Biology	2.49%
17	Immunology	1.61%	17	Medicine, Research & Experimental	2.12%
18	Geriatrics & Gerontology	1.47%	18	Psychiatry	1.93%
19	Psychiatry	1.47%	19	Rheumatology	1.90%
20	Rheumatology	1.44%	20	Biophysics	1.42%
21	Chemistry, Analytical	1.42%	21	Physiology	1.42%
22	Genetics & Heredity	1.25%	22	Multidisciplinary Sciences	1.37%
23	Pathology	1.25%	23	Pathology	1.35%
24	Medicine, General & Internal	1.23%	24	Pediatrics	1.24%
25	Virology	1.20%	25	Medicine, General & Internal	1.12%
26	Medicine, Research & Experimental	1.11%	26	Virology	1.10%
27	Pediatrics	1.08%	27	Respiratory System	0.97%
28	Biophysics	1.06%	28	Infectious Diseases	0.80%
29	Cell Biology	1.01%	29	Transplantation	0.69%
30	Infectious Diseases	0.99%	30	Physics, Multidisciplinary	0.63%
31	Social Sciences, Biomedical	0.87%	31	Physics, Particles & Fields	0.59%
32	Hematology	0.79%	32	Surgery	0.59%
33	Respiratory System	0.79%	33	Microbiology	0.57%
34	Food Science & Technology	0.73%	34	Allergy	0.49%
35	Dentistry, Oral Surgery & Medicine	0.72%			
36	Biochemical Research Methods	0.70%			
37	Statistics & Probability	0.68%			
38	Physiology	0.65%			
39	Urology & Nephrology	0.58%			
40	Engineering, Environmental	0.55%			
41	Radiology, Nuclear Medicine & Medical Imaging	0.51%			
42	Biology	0.43%			
43	Psychology, Clinical	0.43%			
44	Psychology, Social	0.43%			
45	Allergy	0.43%			

表 92 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (33/34)

外科系臨床医学			歯学		
Fractional		3572.00			1660.00
Rank	WoS subject area	Density	Rank	WoS subject area	Density
1	Oncology	14.39%	1	Dentistry, Oral Surgery & Medicine	29.84%
2	Ophthalmology	9.81%	2	Oncology	6.83%
3	Surgery	6.33%	3	Cell Biology	5.67%
4	Neurosciences	4.94%	4	Biochemistry & Molecular Biology	5.55%
5	Urology & Nephrology	4.16%	5	Neurosciences	4.12%
6	Biochemistry & Molecular Biology	3.77%	6	Immunology	3.84%
7	Endocrinology & Metabolism	3.74%	7	Engineering, Biomedical	3.64%
8	Gastroenterology & Hepatology	3.27%	8	Endocrinology & Metabolism	3.58%
9	Cell Biology	3.11%	9	Materials Science, Biomaterials	3.23%
10	Immunology	2.70%	10	Pathology	2.64%
11	Medicine, Research & Experimental	2.70%	11	Microbiology	2.56%
12	Clinical Neurology	2.57%	12	Surgery	2.50%
13	Otorhinolaryngology	2.56%	13	Pharmacology & Pharmacy	2.17%
14	Obstetrics & Gynecology	2.44%	14	Physiology	1.90%
15	Orthopedics	1.94%	15	Medicine, Research & Experimental	1.85%
16	Rheumatology	1.92%	16	Multidisciplinary Sciences	1.77%
17	Pathology	1.78%	17	Biophysics	1.71%
18	Reproductive Biology	1.76%	18	Radiology, Nuclear Medicine & Medical Imaging	1.03%
19	Pharmacology & Pharmacy	1.71%	19	Infectious Diseases	0.92%
20	Anesthesiology	1.68%	20	Toxicology	0.91%
21	Transplantation	1.49%	21	Developmental Biology	0.89%
22	Engineering, Biomedical	1.49%	22	Anatomy & Morphology	0.79%
23	Genetics & Heredity	1.43%	23	Peripheral Vascular Disease	0.67%
24	Peripheral Vascular Disease	1.33%	24	Biotechnology & Applied Microbiology	0.63%
25	Multidisciplinary Sciences	1.33%	25	Materials Science, Multidisciplinary	0.50%
26	Cardiac & Cardiovascular Systems	1.23%	26	Anesthesiology	0.49%
27	Radiology, Nuclear Medicine & Medical Imaging	1.00%	27	Genetics & Heredity	0.49%
28	Developmental Biology	0.98%	28	Nutrition & Dietetics	0.48%
29	Physiology	0.96%	29	Pediatrics	0.45%
30	Biophysics	0.87%	30	Microscopy	0.43%
31	Materials Science, Biomaterials	0.86%			
32	Hematology	0.84%			
33	Pediatrics	0.79%			
34	Biotechnology & Applied Microbiology	0.73%			
35	Respiratory System	0.66%			
36	Cell & Tissue Engineering	0.62%			
37	Critical Care Medicine	0.56%			
38	Audiology & Speech-Language Pathology	0.40%			

表 93 科研費研究分野(細目表-分科)ごとの WoS サブジェクトエリアの密度分布(分数カウント) (34/34)

分科	看護学	
Fractional		102.00
Rank	WoS subject area	Density
1	Nursing	32.68%
2	Health Policy & Services	11.60%
3	Psychiatry	5.88%
4	Health Care Sciences & Services	5.39%
5	Cardiac & Cardiovascular Systems	5.23%
6	Oncology	4.00%
7	Public, Environmental & Occupational Health	3.59%
8	Biochemistry & Molecular Biology	3.43%
9	Clinical Neurology	3.27%
10	Geriatrics & Gerontology	2.94%
11	Nutrition & Dietetics	2.94%
12	Medicine, Research & Experimental	1.96%
13	Neurosciences	1.96%
14	Radiology, Nuclear Medicine & Medical Imaging	1.96%
15	Endocrinology & Metabolism	1.47%
16	Medicine, General & Internal	1.31%
17	Rehabilitation	1.31%
18	Psychology, Multidisciplinary	1.23%
19	Dentistry, Oral Surgery & Medicine	0.98%
20	Gerontology	0.98%
21	Gastroenterology & Hepatology	0.49%
22	Genetics & Heredity	0.49%
23	Management	0.49%
24	Obstetrics & Gynecology	0.49%
25	Orthopedics	0.49%
26	Pharmacology & Pharmacy	0.49%
27	Rheumatology	0.49%