

G1 研究活動の新たな常識としてのデータ引用の実現に向けて
研究データ利活用協議会 リサーチデータサイテーション小委員会

学術雑誌のデータ公開ポリシー： 経年変化とデータ引用ポリシーの状況



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<https://openscience.jp>

研究データ利活用協議会

RDUF

Research Data Utilization Forum



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1. 調査の目的

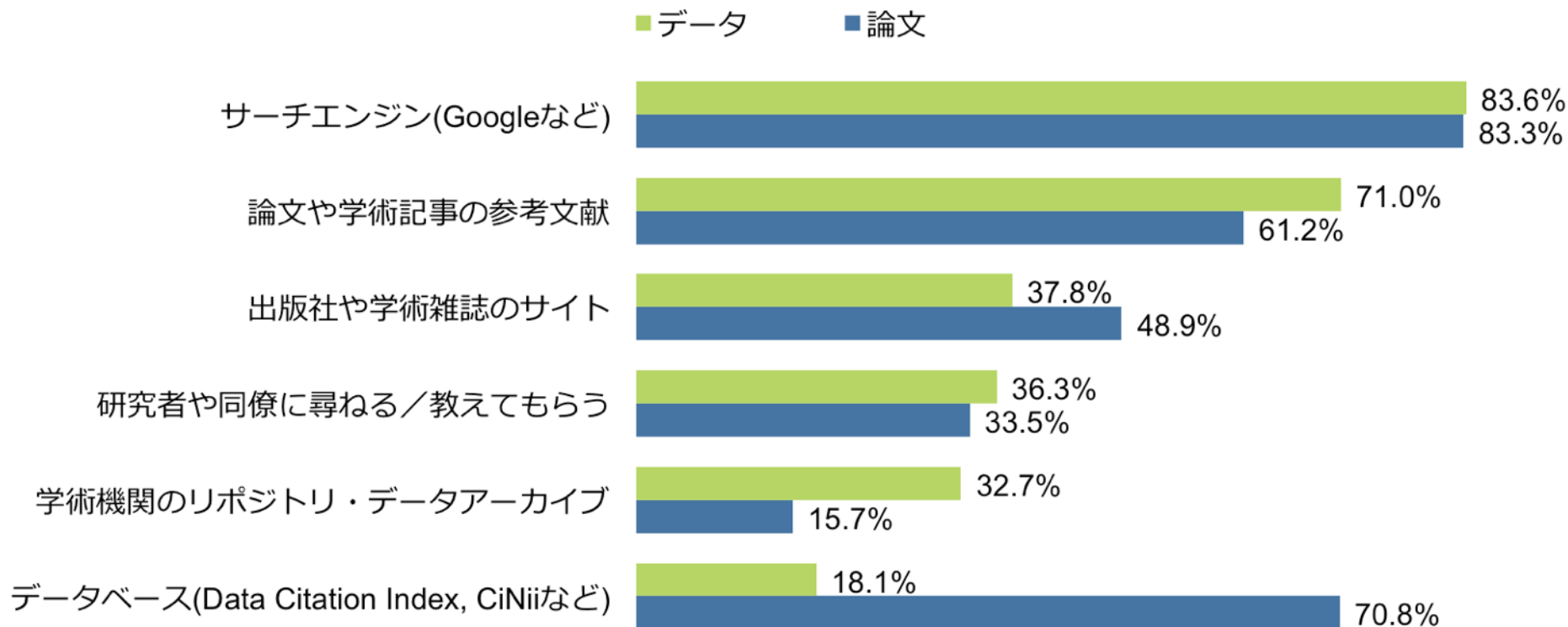


調査の目的

1. 現在，学術雑誌はどの程度データ公開を要求しているのか
 - 2014年→2019年でどう変化したのか？
 - 分野による差はあるのか？
2. 現在，学術雑誌はどの程度データ引用を要求しているのか

22分野×各10誌→220誌を調査

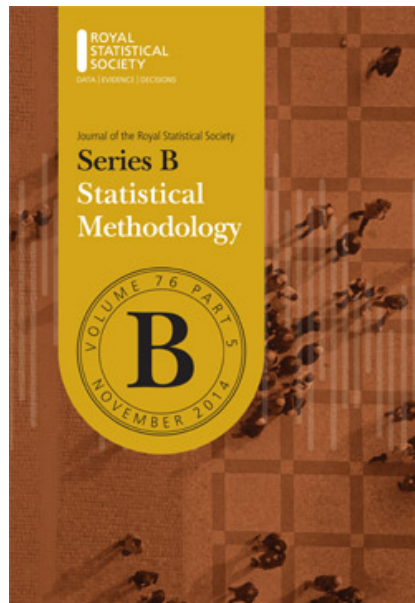
データを探す方法（2016）



「論文や学術記事の参考文献」は第2位

「データベース」は論文ほど整備・活用されていない

2. 方法



調査の概要

■ 調査対象

- 高Impact Factor (IF)の原著論文誌
- Essential Science Indicators (ESI)の雑誌リストを用いて**22分野の各10誌, 合計220誌**を選定

■ 調査方法

- Webサイト（投稿規定, 執筆要項等）

■ 調査期間

- 2014年4月～6月*
- **2019年3月～5月【RDC小委員会で実施】**

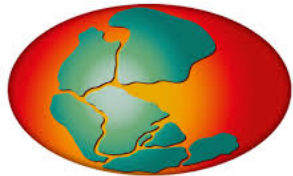
*池内・逸村(2016).学術雑誌によるデータ共有ポリシー. DOI: 10.20651/jslis.62.1_20

*Ikeuchi(2016). Data sharing policies in scholarly journals across 22 disciplines [dataset], figshare, DOI: 10.6084/m9.figshare.3144991

1. データ公開ポリシーの調査

(1)リポジトリ : RP

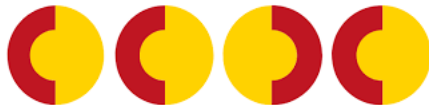
(2)補足資料：SM



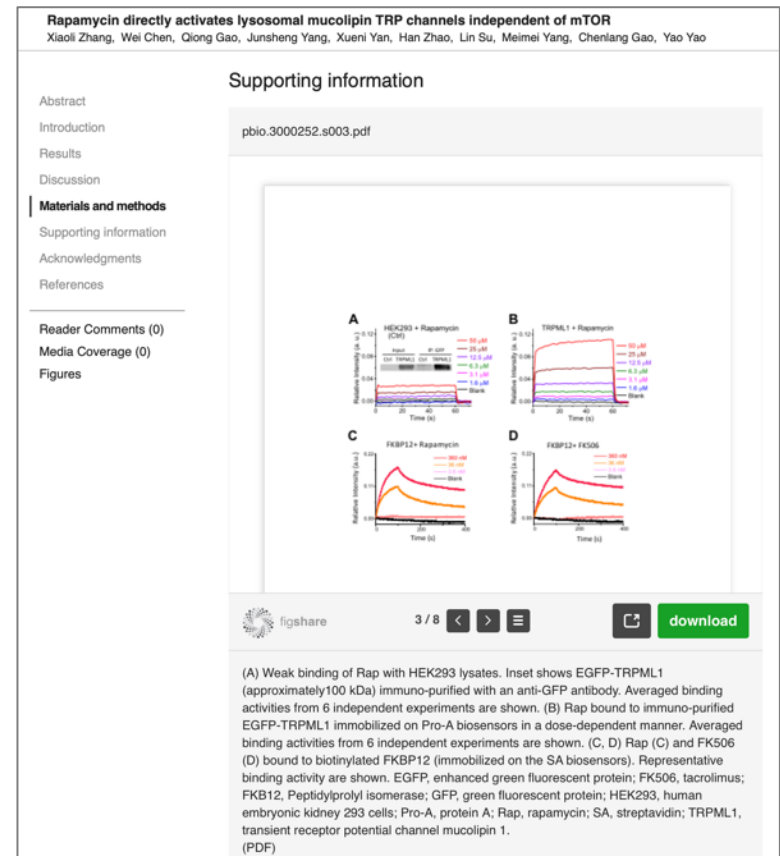
PANGAEA.



DRYAD



The Cambridge Crystallographic
Data Centre



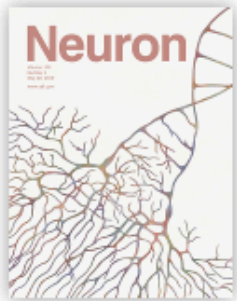
ポリシーの強度（4分類）

データ公開ポリシーの強度の分類

強度	表現例
必須	require, must, should, condition of publication
推奨	encourage, recommend
受諾	accept, allow, might, possible to include
なし	(no mention)

例 : *Neuron*

Home > Journals > Neuron



ISSN: 0896-6273

Neuron

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Junhua Yang | Maria del Carmen Vitery | ...

“Information for Authors”

Neuron

データポリシーを探す

Information for Authors

This page describes our policies and provides information that we think will be helpful to you as you prepare manuscripts for submission and publication. If you have submitted a paper and want information about the status of the paper, please log in to our online manuscript submission system, [Editorial Manager \(EM\)](#). If you run into any problems or if you have specific questions, you can always e-mail us at neuron@cell.com or call +1-617-397-2839.

About the Journal

Neuron has established itself as one of the most influential and relied upon journals in the field of neuroscience. The editors embrace interdisciplinary strategies that integrate biophysical, cellular, developmental, and molecular approaches with a systems approach to sensory, motor, and higher-order cognitive functions. *Neuron* serves as one of the premier intellectual forums of the entire neuroscience community.

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<http://www.cell.com/neuron/authors>

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Neuron

Mandatory Data Deposition

For the following types of data, submission of the full dataset to a community-endorsed, public repository is mandatory. Accession numbers must be provided in the Key Resources Table and in the Data and Software Availability section of the STAR Methods text. Appropriate public repositories include:

For the following types of data, submission of the full dataset to a community-endorsed, public repository is **mandatory**.

Deep Sequencing Data: Deposit in [GEO](#) or [ArrayExpress](#) upon submission.

The sequences of all RNAi, antisense, and morpholino probes must be deposited in a public database with the accession number provided in the paper.

(1)RPは「必須」

“Supplemental Information”

Neuron

Supplemental Information

In general, please limit Supplemental Information to data and other materials that directly support the main conclusions of your paper but cannot be included in the main paper due to space or file format restrictions. SI should not be used to present data that are preliminary or that conceptually go beyond the main point of the paper.

In general, please limit Supplemental Information to data and other materials that directly support the main conclusions...

(2)SMは「受諾」

2. データ引用ポリシーの調査

(1) データ引用ポリシー・ガイドラインの有無

(2) 原則・ガイドラインへの言及の有無

- データ引用の共同原則（JDDCP）：FORCE11
- TOPガイドライン：Center for Open Science

(3) 引用スタイル

- APA, シカゴ, MLA, . . .
 - ✓ データ, データセットの引用方法を定めたスタイルもある



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FORCE11 » Joint Declaration of Data Citation Principles - FINAL

JOINT DECLARATION OF DATA CITATION PRINCIPLES - FINAL



When citing please use: Data Citation Synthesis Group: Joint Declaration of Data Citation Principles. Martone M. (ed.) San Diego CA: FORCE11; 2014 <https://doi.org/10.25490/a97f-egykh>

Endorsement List

PREAMBLE

Sound, reproducible scholarship rests upon a foundation of robust, accessible data. For this to be so in practice as well as theory, data must be accorded due importance in the practice of scholarship and in the enduring scholarly record. In other words, data should be considered legitimate, citable products of research. Data citation, like the citation of other evidence and sources, is good research practice and is part of the scholarly ecosystem supporting data reuse.

In support of this assertion, and to encourage good practice, we offer a set of guiding principles for data within scholarly literature, another dataset, or any other research object.

These principles are the synthesis of work by a **number of groups**. As we move into the next phase, we welcome your participation and endorsement of these principles.



TOP Guidelines (CoS)

2015年



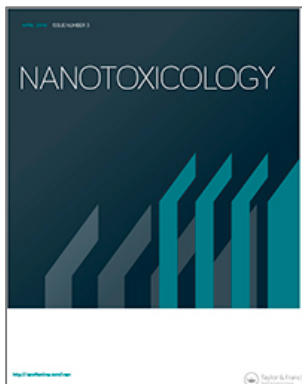
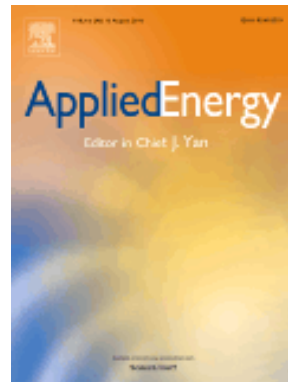
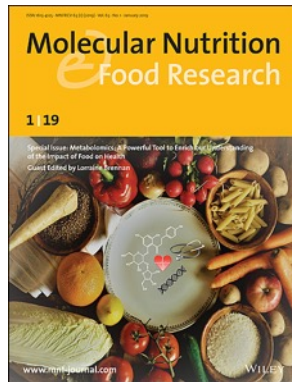
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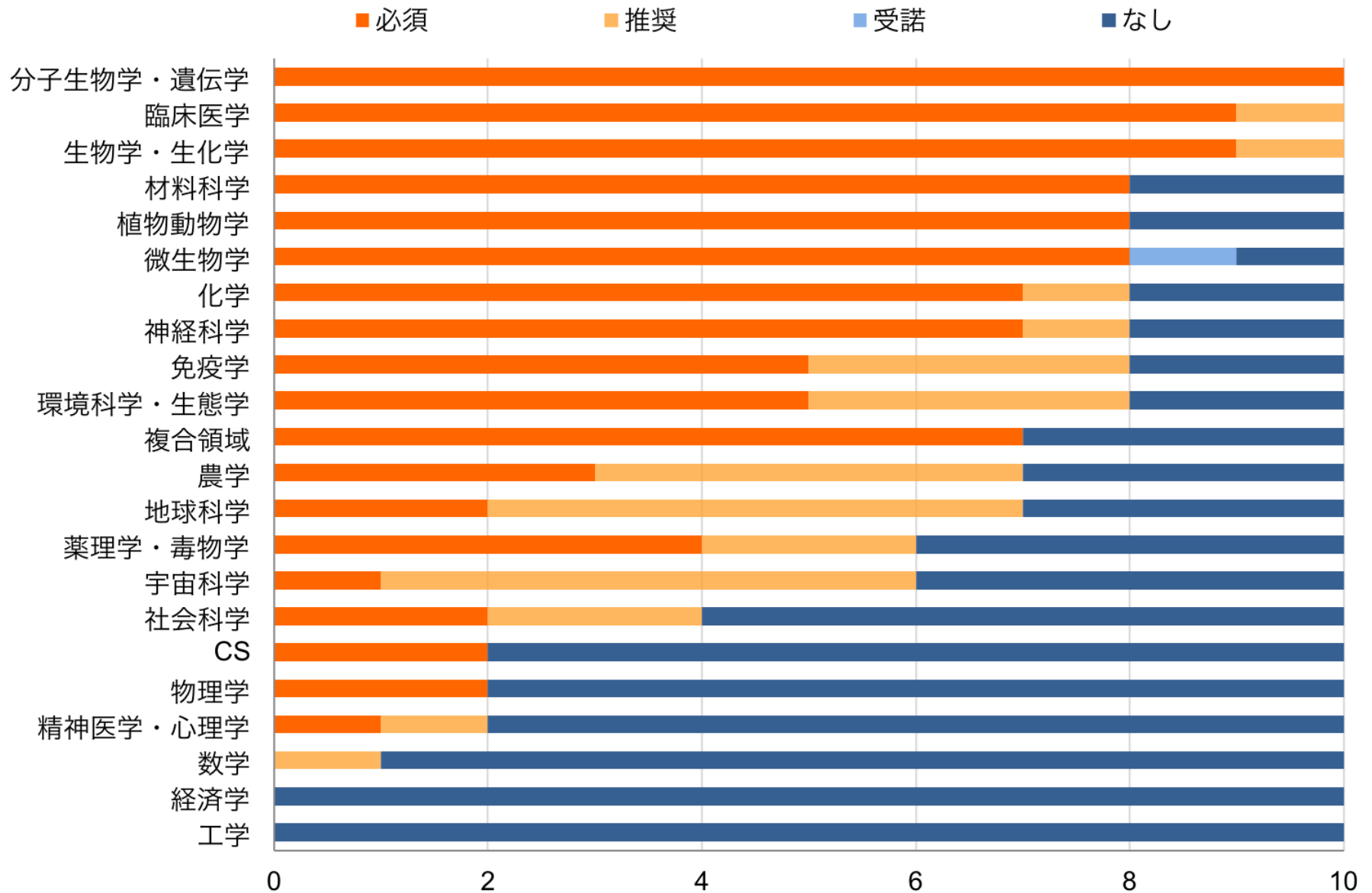
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The TOP Guidelines were created by journals, funders,
and societies to align scientific ideals with practices.
TOP provides a suite of tools to guide implementation of better, more transparent research.

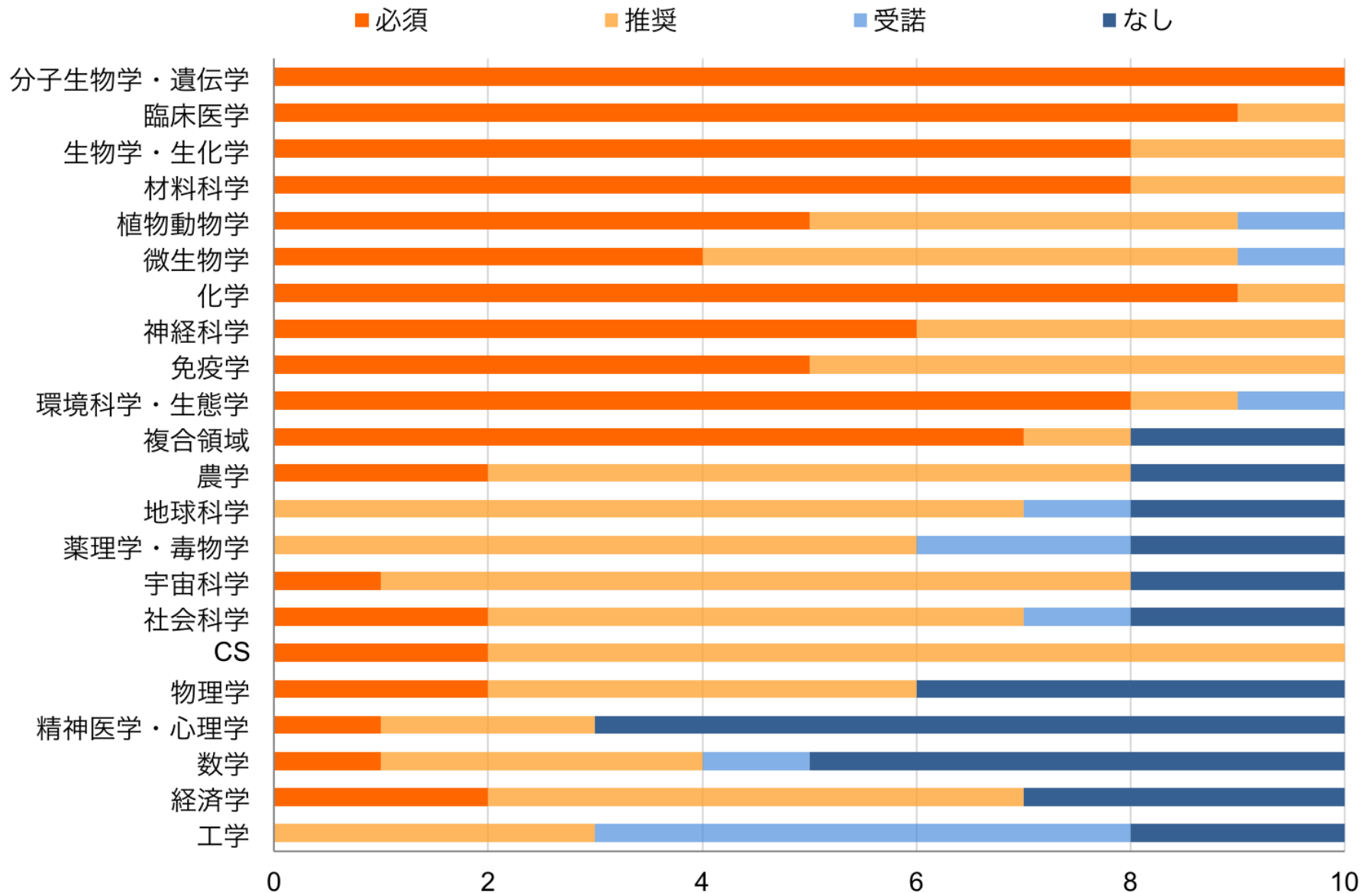
3. 結果



1-(1)RPポリシー (2014)

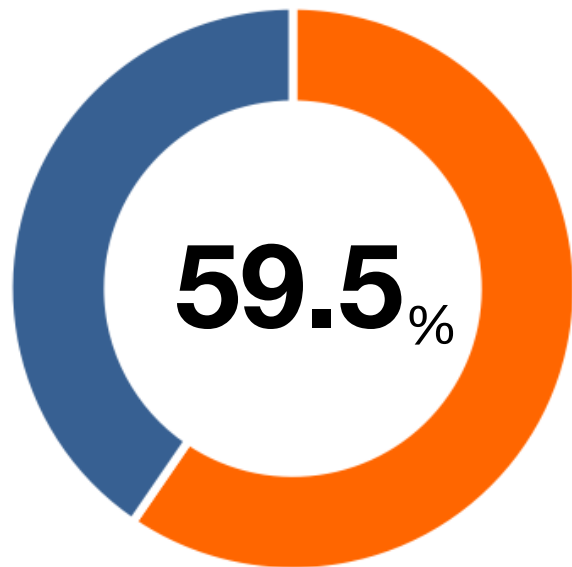


1-(1)RPポリシー (2019)

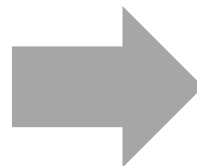


1-(1) RPポリシーの掲載率

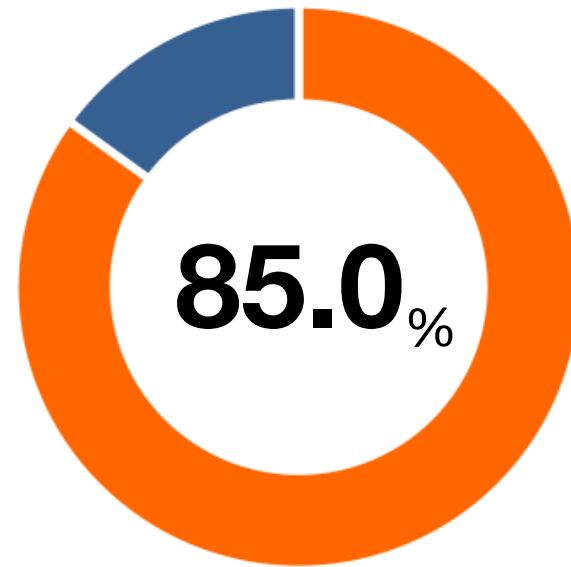
■ あり ■ なし



2014



■ あり ■ なし

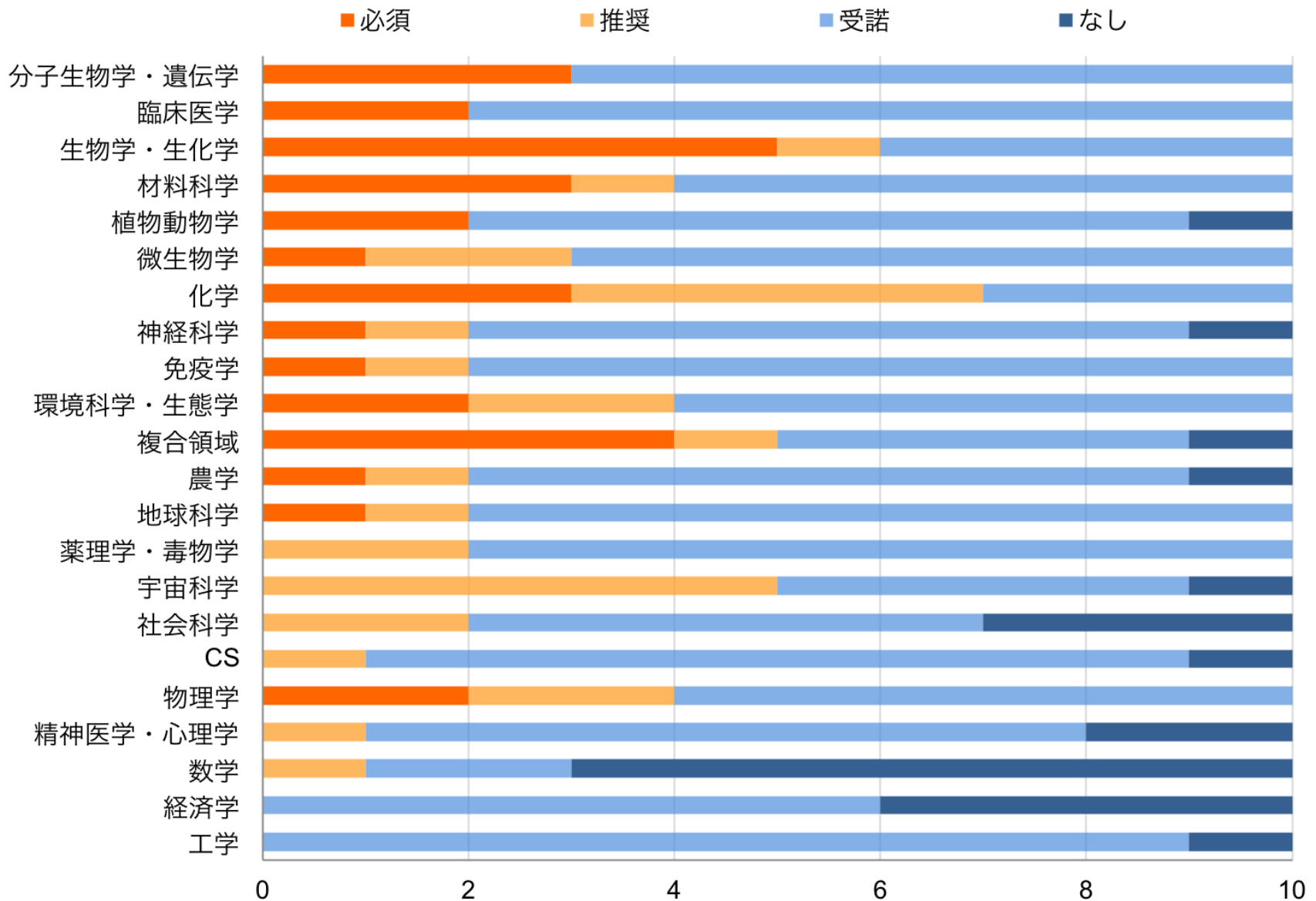


2019

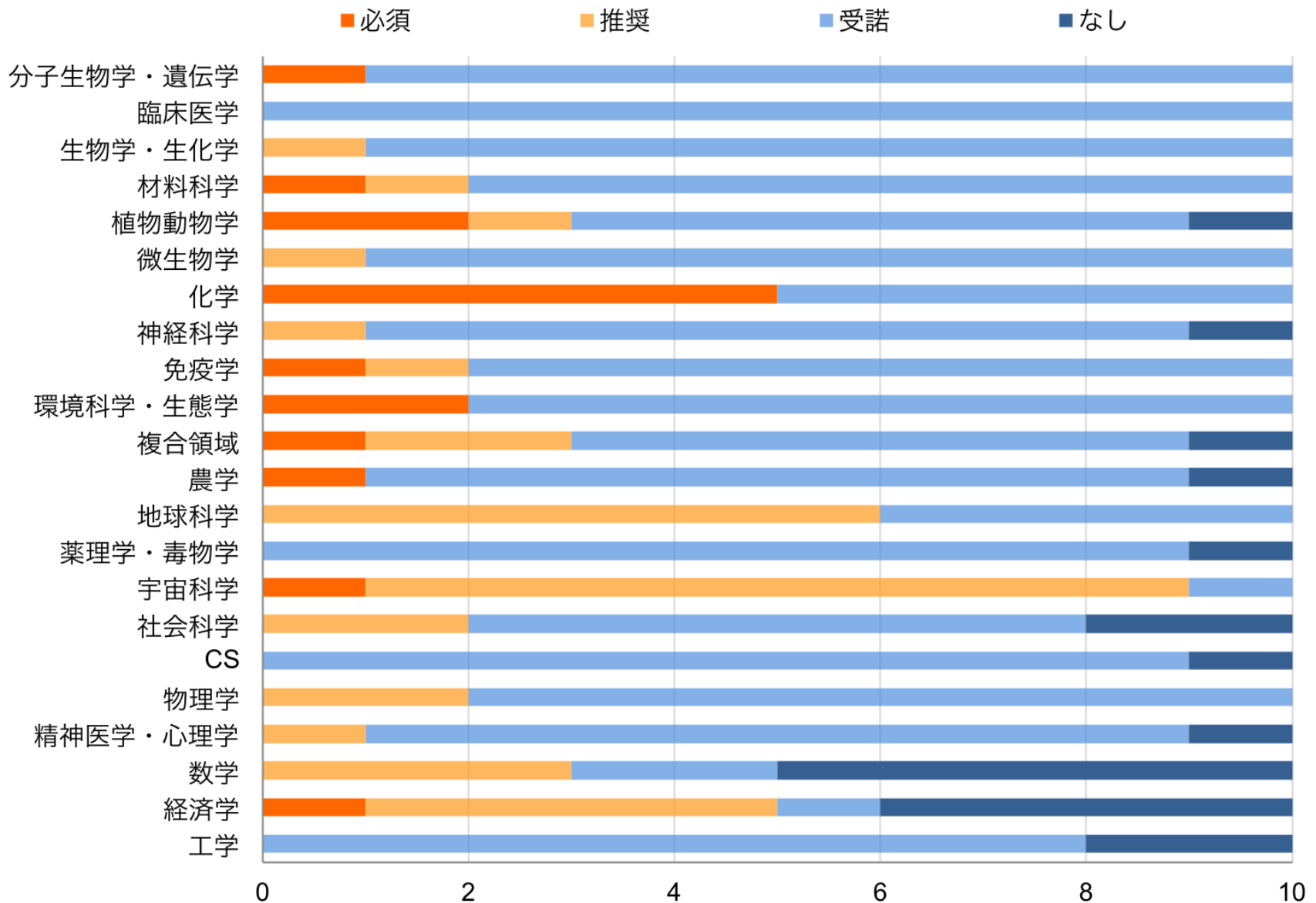
1-(1) RPポリシーの経年変化

強度	2014		2019		増減
必須	100	45.5%	92	41.8%	-8
推奨	30	13.6%	82	37.3%	+52
受諾	1	0.5%	13	5.9%	+12
なし	89	40.5%	33	15.0%	-56

1-(2) SMポリシー (2014)

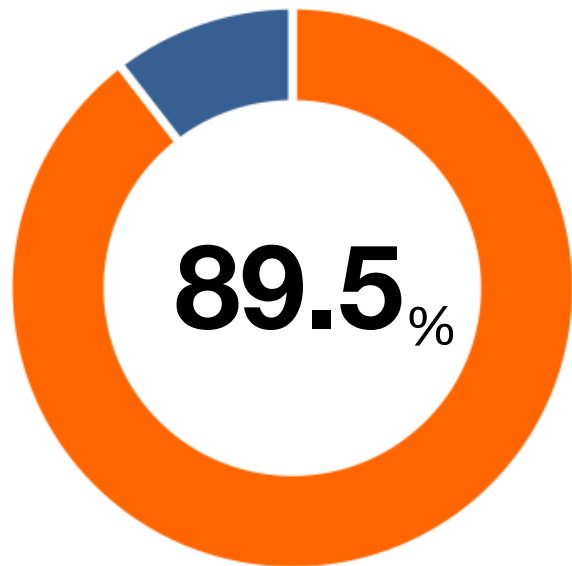


1-(2) SMポリシー (2019)

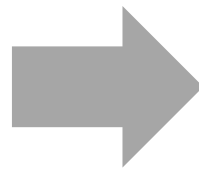


1-(2) SMポリシーの掲載率

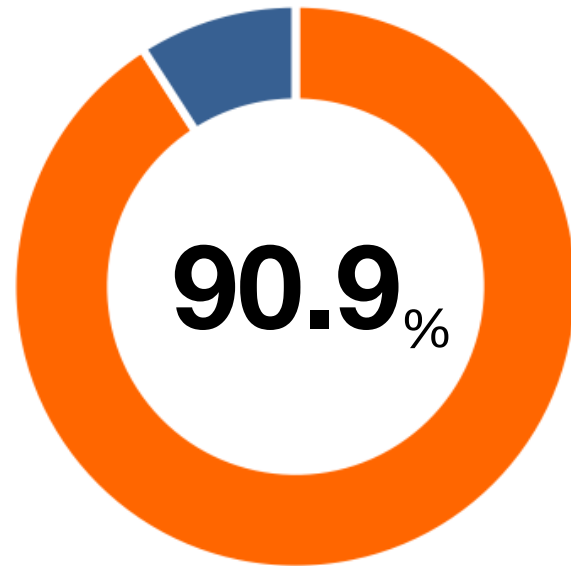
■ あり ■ なし



2014



■ あり ■ なし



2019

1-(2) SMポリシーの経年変化

強度	2014		2019		増減
必須	31	14.1%	16	7.3%	-15
推奨	29	13.2%	34	15.5%	+5
受諾	137	62.3%	150	68.2%	+13
なし	23	10.5%	20	9.1%	-3

Neurology

Supplemental Data: *Neurology*

Effective March 1, 2018, *Neurology* revised the supplemental data guidelines. Authors of *Neurology* research articles are advised to reduce the use of supplemental data and incorporate this content into the manuscript as we have increased length restrictions. If the author has not done this and the article is invited for revision, the editorial office may request deposit of data in an open repository such as [Dryad](#).

Videos, Teaching NeurolImage PowerPoints, and Manuscripts with tracked changes (revisions only) files will still be uploaded as Supplemental data.

補足データの使用を控えるよう指示（2018/3/1）
データはDryadのようなオープンリポジトリへ

Journal of Neuroscience

Editorial

JNeurosci Manuscripts May Now Include Extended Datasets

Marina Picciotto

Journal of Neuroscience 29 March 2017, 37 (13) 3441; DOI: <https://doi.org/10.1523/JNEUROSCI.0402-17.2017>

Article

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PDF

In 2010, *JNeurosci* made the decision no longer to allow supplemental material because we could not guarantee that the material was sufficiently peer-reviewed. In addition, reviewers sometimes insisted on further analyses and/or experiments that could be added to the supplemental data but did not significantly improve the submitted study. As the years progress,

In this issue



Journal of Neuroscience

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29 Mar 2017

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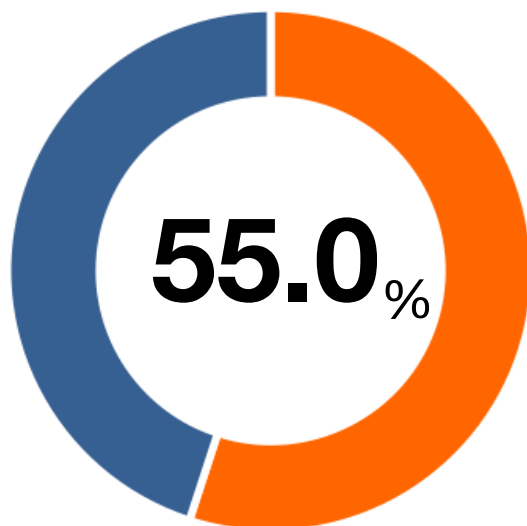
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補足資料は十分査読できないため廃止（2010/11）
拡張データセットの受け入れを開始（2017/3）

2-(1) (2) データ引用 ポリシーの 掲載状況

■ あり ■ なし



	データ引用	JDDCP	TOP
分子生物学・遺伝学	10	2	
微生物学	10	1	
工学	8	8	5
環境科学・生態学	8	7	6
複合領域	8	5	1
植物動物学	8	4	4
CS	8	4	
地球科学	8		
生物学・生化学	7	6	
農学	6	5	
化学	6	1	
材料科学	5	3	
社会科学	5	3	
経済学	5	2	
免疫学	4	4	
薬理学・毒物学	4		
宇宙科学	4		
神経科学	2	1	
物理学	2		
臨床医学	1	1	
精神医学・心理学	1	1	
数学	1		
合計	121	58	16

2-(3) 引用文献スタイル（上位）

スタイル	雑誌数	データ引用
Vancouver	28	✓
APA	9	✓
Nature	8	✓
AMA	7	database, software
Chicago	4	✓
Harvard	4	✓
IEEE	4	software

4. まとめ



調査結果のまとめ

1. データ公開ポリシー（2014年→2019年）

- リポジトリは131誌（**59.5%**）から187誌（**85.0%**）に増加
- 補足資料は**約9割**のまま
- いずれも「必須」の雑誌が減少
- 分野による差は縮小

2. データ引用ポリシー

- 121誌（**55.0%**）が掲載
- JDDCPは58誌（26.4%），TOP Guidelinesは16誌（7.3%）が掲載・参照
- データの引用方法を示すスタイルも

2019調査担当：RDC小委員会

- 阿部学 (海洋研究開発機構)
- 岡山将也 (日立コンサルティング)
- 尾鷲瑞穂 (国立環境研究所)
- 住本研一 (科学技術振興機構)
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- 野村紀匡 (クラリベイト・アナリティクス)
- 林 和弘 (科学技術・学術政策研究所)
- 池内有為 (文教大学)

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