

日本顕微鏡学会欧文誌

Microscopy

学術出版の現状と取り組み

Microscopy編集委員会

Biological Science 副編集委員長

名古屋大学 藤本 豊士

Microscopy

OXFORD
UNIVERSITY PRESS

- 1953年 *Journal of Electron Microscopy* として創刊
- 2013年 *Microscopy* に誌名変更
- Impact Factor 1.776 (Microscopy分野9誌中5位)*

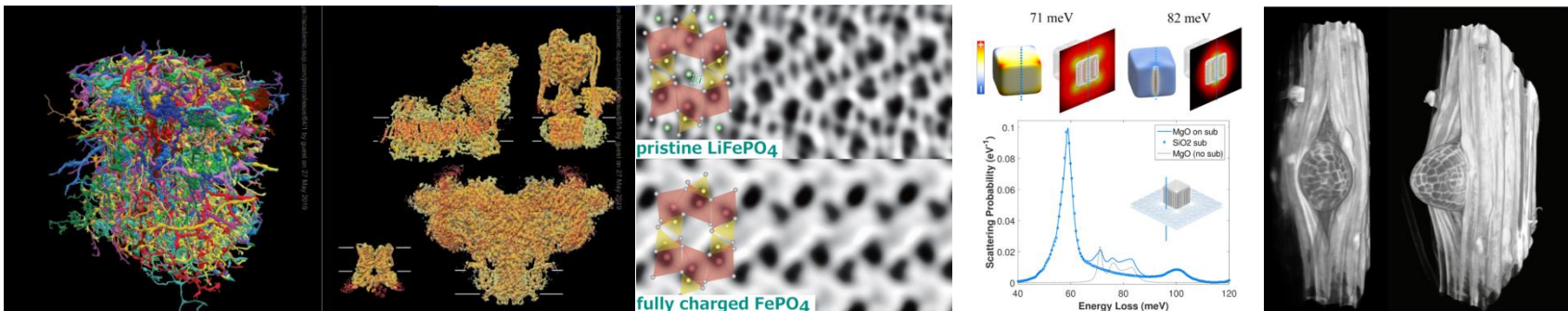


* 本年より完全オンライン化

*Source: Journal Citation Reports (Clarivate Analytics, 2019)

魅力的な特集号を毎年刊行


- **Challenges to Connectomics** (64 (1) 2015)
- **Single-Particle Cryo-Electron Microscopy** (65 (1) 2016)
- **Challenges for Lithium Detection** (66 (1) 2017)
- **EDGE 2017 Proceedings**
 - **Enhanced Data Generated by Electrons** (67 (suppl 1) 2018)
- **Plant Science** (68 (1) 2019)
- **AI & Imaging** (69 (2) 2020)
- **Electron Interference Microscopy** (70 (1) 2021)



早期出版 Accepted Manuscript

- 速報性を高めるため、採択後の組版前の原稿を先に出版
- 組版後の論文が準備でき次第、“Corrected Proof”に差し替え

ACCEPTED MANUSCRIPT

Sequencing of the black rockfish chromosomal genome provides insight into sperm storage in the female ovary 


Qinghua Liu, Xueying Wang, Yongshuang Xiao, Haixia Zhao, Shihong Xu ...

DNA Res, dsz023, <https://doi.org/10.1093/dnares/dsz023>

Published: 11 November 2019 **Section:** Full Paper

[Abstract ▼](#) [View article](#) [Supplementary data](#)

CORRECTED PROOF

TASUKE+: a web-based platform for exploring genome-wide association studies results and large-scale resequencing data 

Masahiko Kumagai, Daiki Nishikawa, Yoshihiro Kawahara, Hironobu Wakimoto, Ryutaro Itoh ...

DNA Res, dsz022, <https://doi.org/10.1093/dnares/dsz022>

Published: 20 September 2019 **Section:** Full Paper

[Abstract ▼](#) [View article](#) [Supplementary data](#)

Graphical Abstractsの採用

- 論文の結果や主旨を伝える図を掲載可能になります。
- 目次に表示され、論文の一部としても掲載されます。

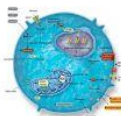
アブストラクト

目次

Immunometabolism orchestrates training of innate immunity in atherosclerosis

Julia van Tuijl; Leo A B Joosten; Mihai G Netea; Siroon Bekkering; Niels P Riksen

Cardiovascular Research, Volume 115, Issue 9, July 2019, Pages 1416-1424, <https://doi.org/10.1093/cvr/cvz107>



Abstracts ▾ View article

Mechanotransduction, immunoregulation, and metabolic functions of CD31 in cardiovascular pathophysiology

Giuseppina Caligiuri

Cardiovascular Research, Volume 115, Issue 9, July 2019, Pages 1425-1434,

Immunometabolism orchestrates training of innate immunity in atherosclerosis

Julia van Tuijl; Leo A B Joosten; Mihai G Netea; Siroon Bekkering; Niels P Riksen

Cardiovascular Research, Volume 115, Issue 9, July 2019, Pages 1416-1424, <https://doi.org/10.1093/cvr/cvz107>



Abstracts ▾

Text

Graphical

Atherosclerosis is characterized by a persistent, low-grade inflammation of the arterial wall. Monocytes and monocyte-derived macrophages play a pivotal role in the various stages of atherosclerosis. In the past few years, metabolic reprogramming has been identified as an important controller of myeloid cell activation status. In addition, metabolic and epigenetic reprogramming are key regulatory mechanisms of trained immunity, which denotes the non-specific innate immune memory that can develop after brief stimulation of monocytes with microbial or non-microbial stimuli. In this review, we build the case that metabolic reprogramming of monocytes and macrophages, and trained immunity in particular, contribute to the pathophysiology of atherosclerosis. We discuss the specific metabolic adaptations, including changes in glycolysis, oxidative phosphorylation, and cholesterol metabolism, that have been reported in atherogenic milieu *in vitro* and *in vivo*. In addition, we will focus on the role of these metabolic pathways in the development of trained immunity.

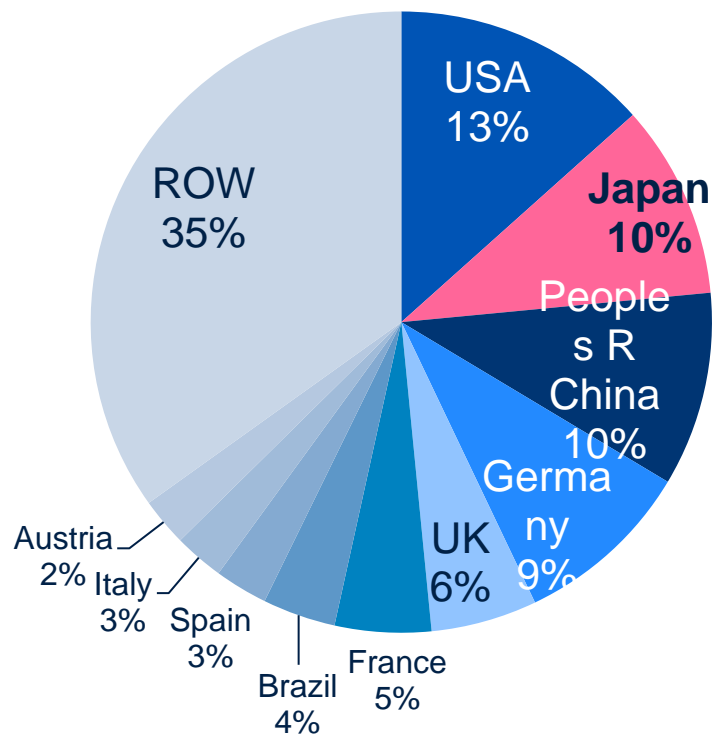
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Graphical Abstract

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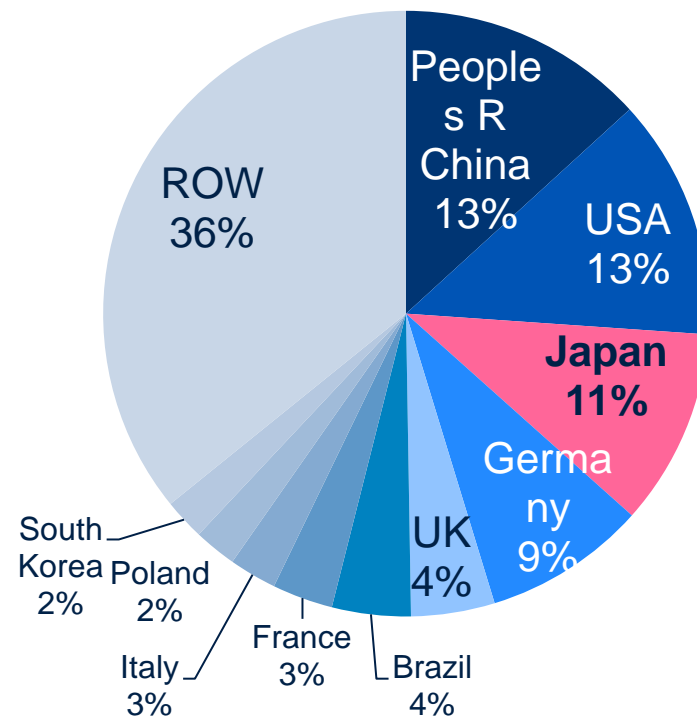
Microscopy分野の 出版論文数と国別割合

2017年：出版論文数1,158編



Microscopy掲載論文
41編 (3.5%)

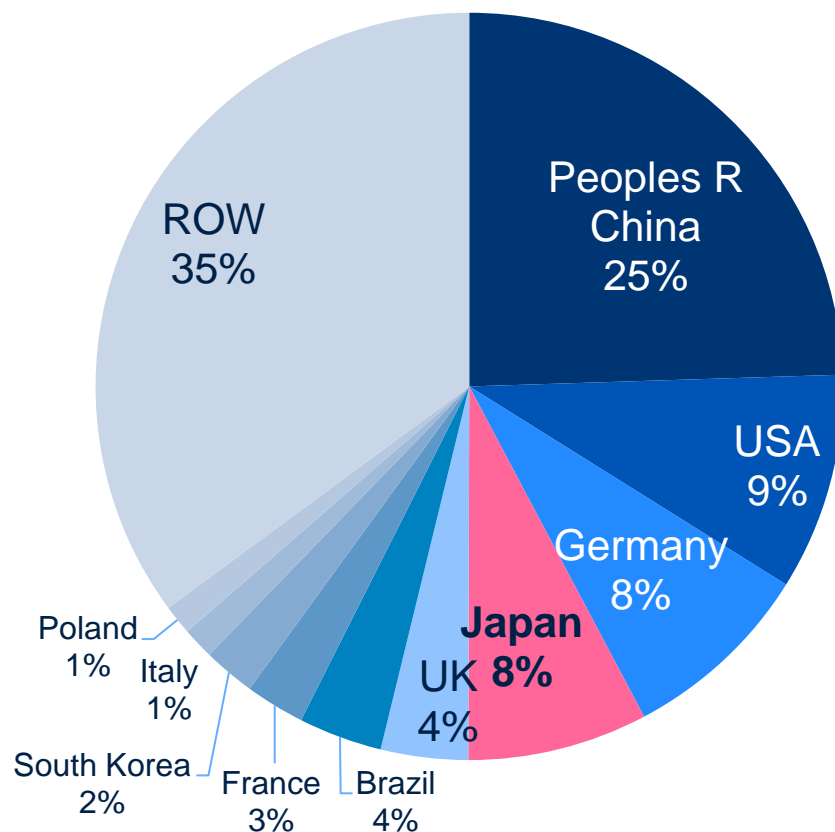
2018年：出版論文数1,142編



Microscopy掲載論文
38編 (3.3%)

Microscopy分野の 出版論文数と国別割合

2019年：出版論文数1,245編

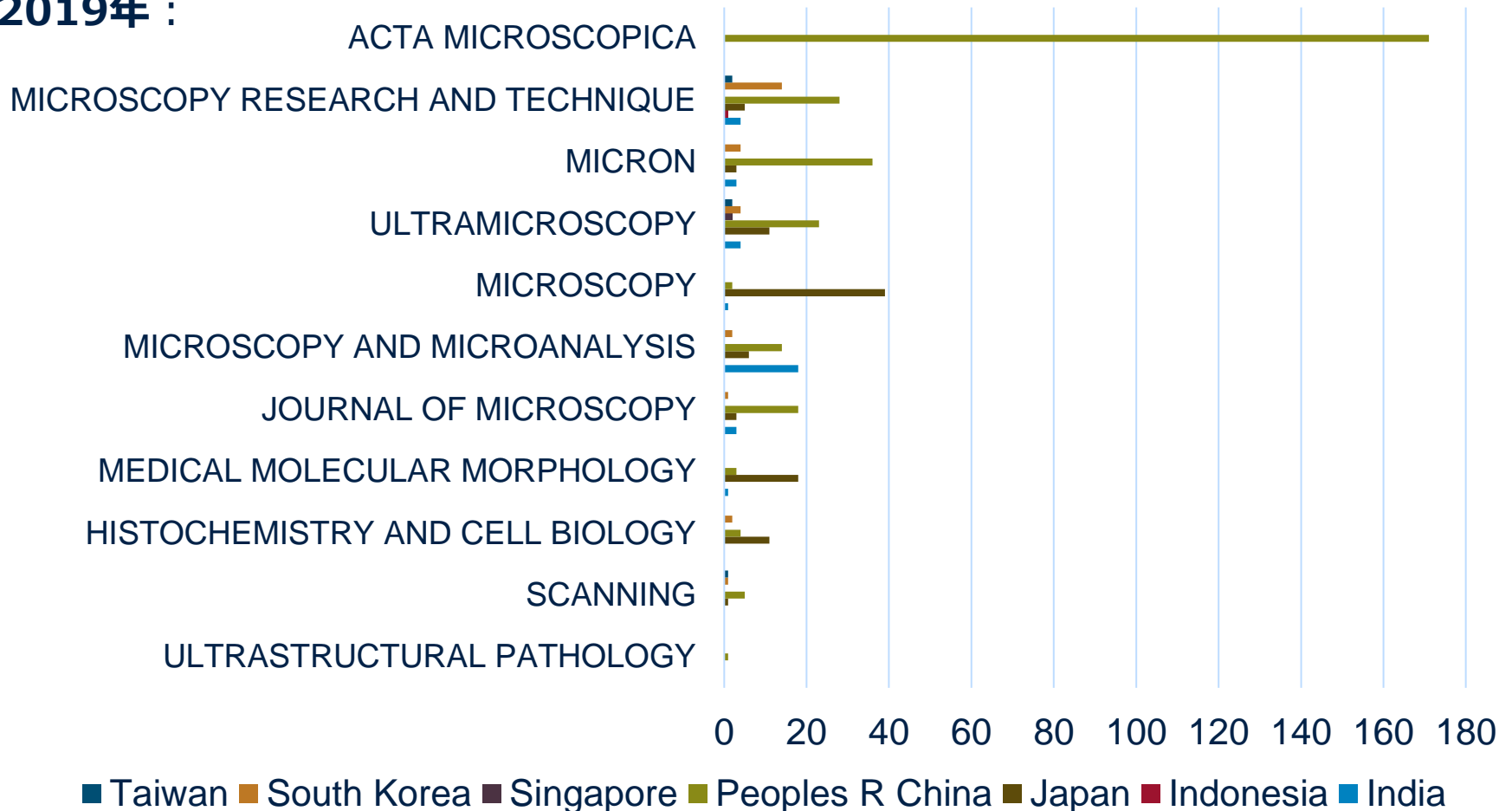


Microscopy掲載論文
39編 (3.1%)

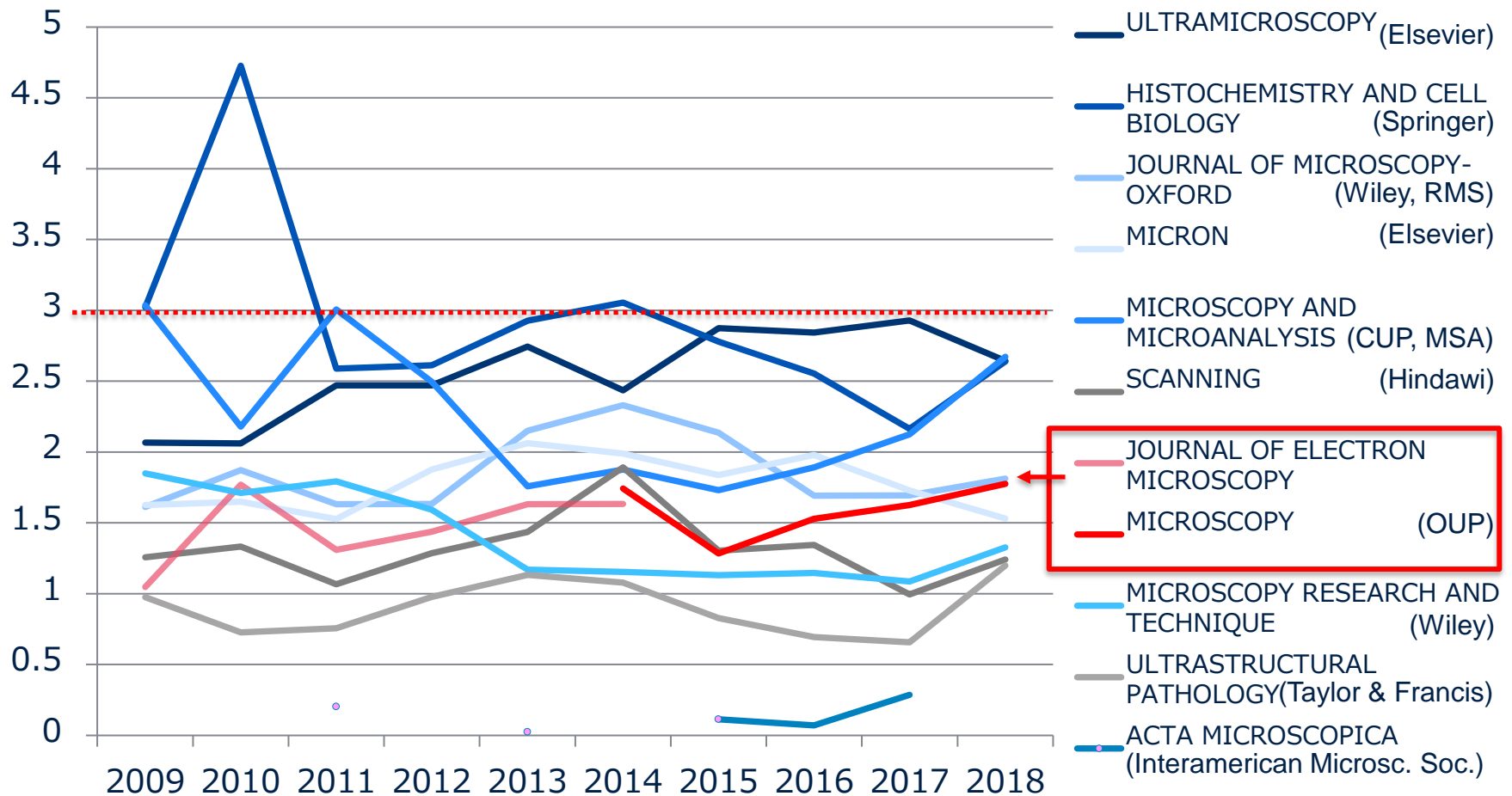
Microscopy分野の 雑誌別掲載論文数 (アジア)



2019年 :

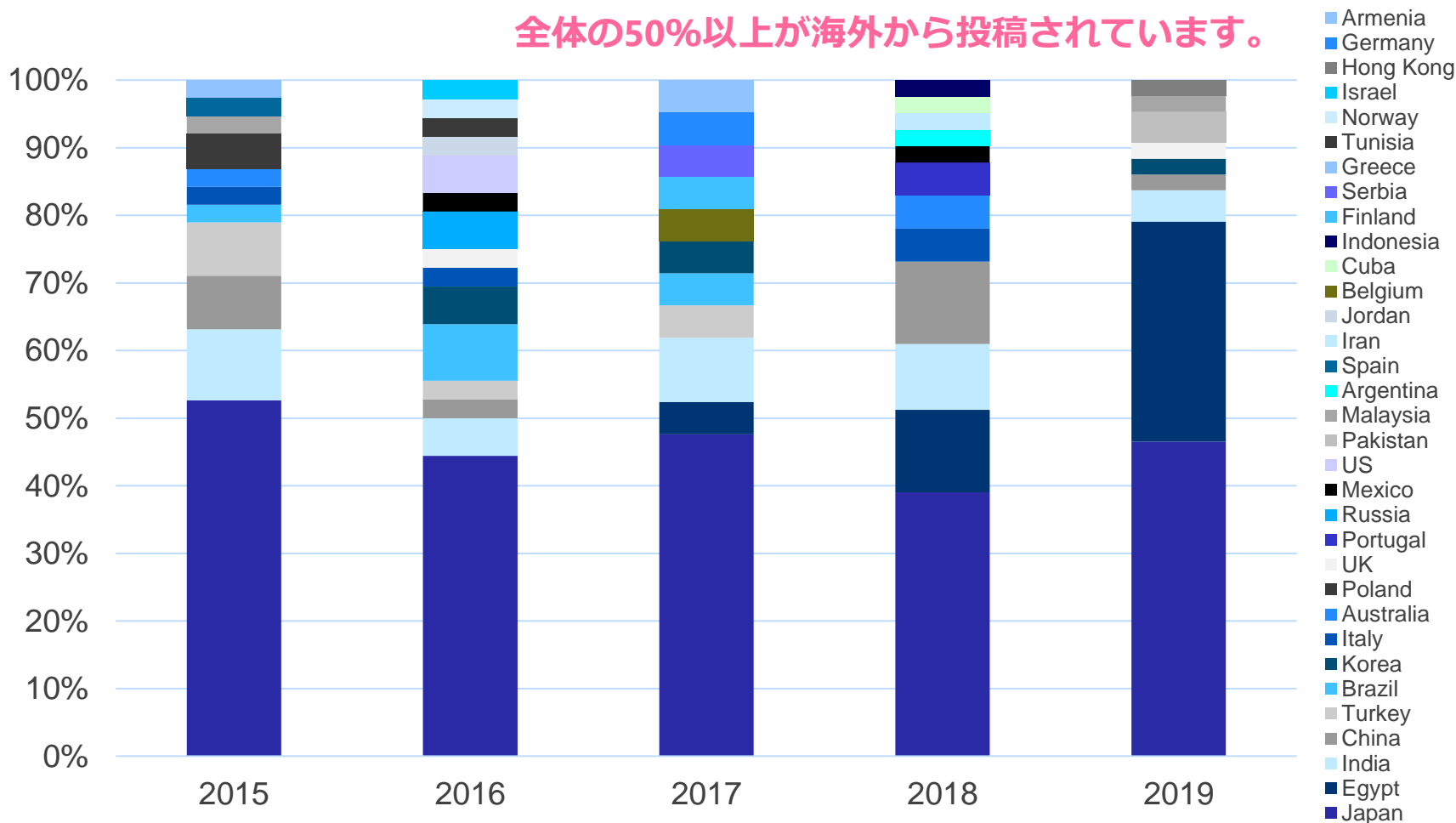


Microscopy分野の Impact Factorの推移



国別の投稿割合

全体の50%以上が海外から投稿されています。



引用数Top 5論文 (2018)

	Title	First Author	Vol. (No.)	Article Type
1	Sample preparation of biological macromolecular assemblies for the determination of high-resolution structures by cryo-electron microscopy	Stark, Holger	65 (1) 2016	Review
2	Two promising future developments of cryo-EM: capturing short-lived states and mapping a continuum of states of a macromolecule	Chen, Bo	65 (1) 2016	Review
3	Generalized single-particle cryo-EM - a historical perspective	Frank, Joachim	65 (1) 2016	Review
4	Principles of cryo-EM single-particle image processing	Sigworth, Fred J.	65 (1) 2016	Review
5	Single-particle cryo-EM data acquisition by using direct electron detection camera	Wu, Shenping	65 (1) 2016	Review

引用数Top 5論文 (2019YTD)

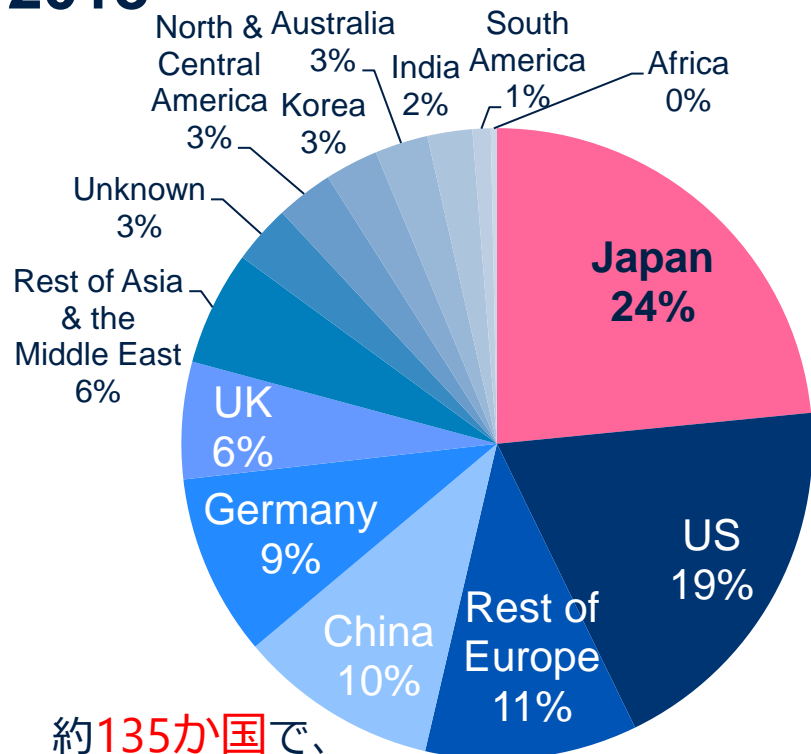
	Title	First Author	Vol. (No.)	Article Type
1	TI Workbench, an integrated software package for electrophysiology and imaging	Inoue, Takafumi	67 (3) 2018	Review
2	Backscattered electron imaging of resin-embedded sections	Koga, Daisuke	67 (4) 2018	Review
2	Highly biocompatible super-resolution fluorescence imaging using the fast photoswitching fluorescent protein Kohinoor and SPoD-ExPAN with L-p-regularized image reconstruction	Wazawa, Tetsuichi	67 (2) 2018	Article
4	Fabrication and characterization of sample-supporting film made of silicon nitride for large-area observation in transmission electron microscopy	Konyuba, Yuji	67 (6) 2018	Technical report
4	Microscopic analysis of sperm movement: links to mechanisms and protein components	Inaba, Kazuo	67 (3) 2018	Review
4	Optimization of STEM imaging conditions for cryotomography	Aoyama, Kazuhiro	66 (3) 2017	Technical report

Editor's
Choice

Editor's
Choice

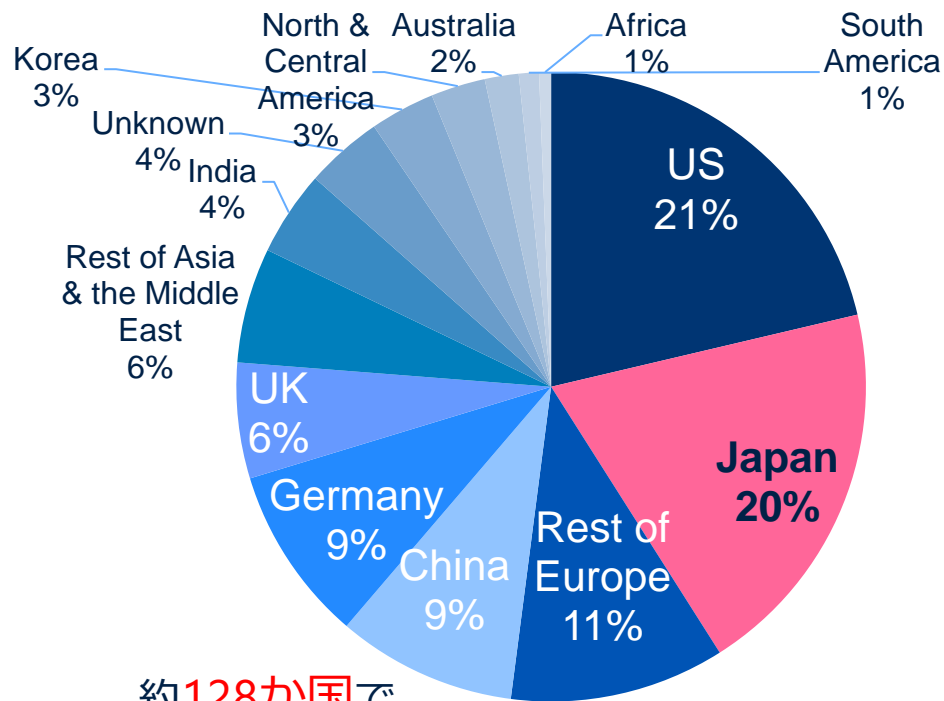
国別ダウンロード数

2018



約135か国で、
年間約95,600回ダウンロード
(77%が海外からのアクセス)

2019



約128か国で、
年間約100,854回ダウンロード
(80%が海外からのアクセス)

	Title	Author	Vol. (No.)	Article Type
1	Principles of cryo-EM single-particle image processing	Sigworth, Fred	65 (1) 2016	Review
2	Sample preparation of biological macromolecular assemblies for the determination of high-resolution structures by cryo-electron microscopy	Stark, Holger	65 (1) 2016	Review
3	Single-particle cryo-electron microscopy of macromolecular complexes	Skiniotis, Georgios	65 (1) 2016	Review
4	Recent progress in structural biology: lessons from our research history	Ryo Nitta	67 (4) 2018	Review
5	Live cell imaging of dynamic behaviors of motile cilia and primary cilium	Faryal Ijaz	68 (2) 2019	Review
6	A simple, one-step polychromatic staining method for epoxy-embedded semithin tissue sections	Shunichi Morikawa	67 (6) 2018	Article
7	Fluorescence imaging of synapse formation and remodeling	Okabe, Shigeo	62 (1) 2013	Review
7	Electron tomography in plant cell biology	Marisa S. Otegui	68 (1) 2019	Review
9	Visualization of yeast cells by electron microscopy	Osumi, Masako	61 (6) 2012	Review
10	How do plastids and mitochondria divide?	Yamato Yoshida	68 (1) 2019	Review

Microscopy

3つの魅力

OXFORD
UNIVERSITY PRESS

- 著者の費用負担一切なし
- 迅速な審査 – 初回判定まで平均22日 ※2019年実績
- 国際発信力 – 80%以上の閲覧が海外

Microscopy

Biological Sciences

国際的な審査体制

OXFORD
UNIVERSITY PRESS

Norio Amizuka

Hokkaido University

Ichirou Karahara

University of Toyama

Toshiyuki Matsuzaki

Gunma University

Makoto Miyata

Osaka City University

Atsuo Miyazawa

University of Hyogo

Takeshi Noda

Kyoto University

Sen Takeda

University of Yamanashi

Takuo Yasunaga

Kyushu Institute of Technology

Yifan Cheng

University of California San Francisco (USA)

Takashi Ishikawa

Paul Scherrer Institute (Switzerland)

Kea Joo Lee

Korea Brain Research Institute (Korea)

Ryuichi Shigemoto

Institute of Science and Technology Austria
(Austria)

Fei Sun

Chinese Academy of Sciences (China)

Thomas Walz

The Rockefeller University (USA)

Editor's Choice



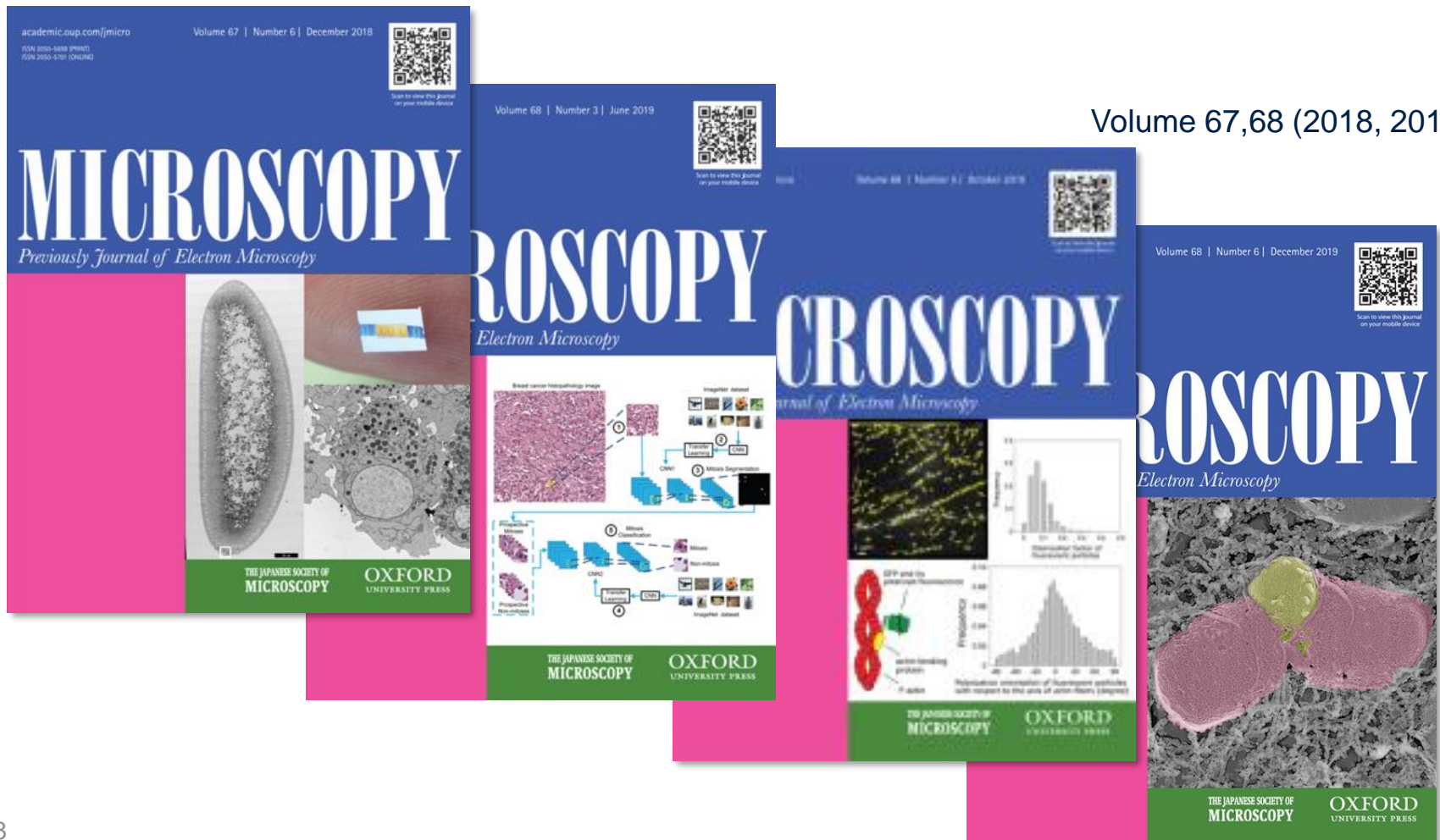
- 内容の際立った論文を毎号1編選定
- 選ばれると.....
 - ◆ 表紙図に採用
 - ◆ Free-Access に設定 **FREE**
 - ◆ 著者全員へ賞状を送付
 - ◆ 和文誌に抄録を掲載
 - ◆ 論文賞候補に



Editor's Choice賞状

研究業績になります！

表紙図を掲載論文から選出



Volume 67,68 (2018, 2019)

日本顕微鏡学会論文賞

- 1986年から続く、歴史ある賞
- 毎年数編の論文が選ばれる
- 選ばれると.....
 - ◆ 著者全員に賞状を授与
 - ◆ 代表者にメダル授与
 - ◆ 毎年学術講演会で授与式・受賞講演を開催



論文賞授与式

国際会議での広報活動

- UK、オランダ、スイス、日本などでの広報活動
- 2019年は6会議に出展
 - ◆ European Society Of Clinical Microbiology And Infectious Diseases (Netherlands)
 - ◆ Intelligent Systems For Molecular Biology & European Conference On Computational Biology (ISMB/ECCB) (Switzerland)
 - ◆ Society For Molecular Biology And Evolution (UK)

2020年

- ◆ 12th Asia-Pacific Microscopy Conference (APMC-2020, India)

日本顕微鏡学会欧文誌

*Microscopy*を大きく育てましょう

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論文のご投稿を
お待ちしております！

Microscopy編集委員一同

* ご意見等、直接編集委員へお寄せ下さい。