### **2014 | PROGRESS REPORT**



Frontiers thanks its 50'000+ editorial board members. Here we introduce a selection of Chief Editors from our 380 academic disciplines.

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University of Cantabria, Spain



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## 2014 | Milestones





Kamila Markram, CEO, Frontiers

n 2014, Frontiers once again enjoyed a year of excellent growth. More Frontiers journals have become leaders in their category, as highlighted in the graphic on page 11; we published more than 11'000 articles over 34 fields; we now have over 50'000 editors signed up onto our editorial boards; our team has expanded to over 150 people, including a presence in San Francisco as of 2015.

In 2014, we expanded our "Frontiers in" field journal series by 12 titles, representing in all over 100 new specialty sections. We now have comprehensive coverage of the scientific, medical and technical domains; with the launch of "Frontiers in Digital Humanities," we bring our open-access proposition to new communities in humanities and social science for the first time.

Our IT team of 70 people has been working in overdrive to bring a series of improved products and services to your community. We opened a new on-line interactive review forum that does an even better job at putting our principles of collaborative peer review into action. The Frontiers Research Topic

Open access

journals

50K

Editors

has a new project environment that highlights the scientists alongside the publications. We developed new ways to display impact metrics, one of our key services ever since we invented online article metrics in 2008. The Frontiers Research Network has become Loop, the first platform for networking and profiles that plugs into all third-party web environments of publishers and universities. And Frontiers enjoyed a hugely successful launch of its outreach project, Frontiers for Young Minds.

These major developments and upgrades are all part of the reason that Frontiers was the 2014 laureate of the ALPSP *Innovation in Publishing* Gold Award.

I am proud of the work our team has accomplished this year — those listed above are just a selection of achievements described in this report. And yet, in many ways, much of the effort of 2014 still waits to fully unfold as we prepare Frontiers for the next level of its development. So keep your Loop profile open to follow the next wave of Frontiers product releases in 2015.

NUMBERS (as of January 2015) .....





Fields in academia



**8K** 

Articles published



140 Countries

P



**Å** 

380

Specialty sections



3M

Article views and downloads per month



**5K** Universities



Article views and downloads

## Seven years of leading innovation

Frontiers is launched as a grassroots initiative by **Kamila Markram** and **Henry Markram**, two neuroscientists from the Swiss

Federal Institute of Technology in Lausanne, Switzerland, together with a group of neuroscientists, out of the collective desire to empower researchers in taking responsibility for scholarly publishing, democratize the entire process and provide better online tools and services to researchers in the Internet age.

2008

Ten new open-access journals open for submission.

Online profiles are introduced for authors, editors and researchers. Profiles are integrated into the article pages and across the entire Frontiers journal system, making authors, reviewers and editors visible.

**Second generation Collaborative Review Forum** released allowing easier interaction between authors and reviewers.

2011

2007

2009

**First open-access journal** Frontiers in Neuroscience opens for article submission.

2010

Frontiers pioneers radical innovation in web technology to **launch the Collaborative Review Forum**, which allows seamless interaction between authors and reviewers during the peer-review process.

Frontiers is the **first publisher to launch article level metrics** and journal level metrics to measure research discoveries in an quantitative and objective way.



Frontiers becomes the first publisher to launch **author and profile impact metrics**.





Nine new open-access journals open for submission.

Frontiers becomes one of the **five** largest open-access publishers.

**Frontiers for Young Minds** is launched, an open-access scientific journal written for – and reviewed by – young people.

Frontiers pilots and launches the third version of its **Collaborative Review Forum**, a radical innovation in reviewing and publishing technology.

2014



The Frontiers Research Network evolves and **Loop is launched**, linking researcher profiles to articles published not only at Frontiers but also across independent websites, including **nature.com**.

Frontiers expands its presence in **humanities and social sciences** with several new titles.

More exciting changes ahead.

2012

. . . . . . . . .

2013

**Twelve new open-access journals** open for submission.

2015

Frontiers portfolio now includes 51 journals spanning 34 academic fields and over 380 research specialty sections.

Frontiers receives the ALPSP Gold Award For Innovation in Publishing

**One new open-access journal** open for submission.

The Frontiers Research Network

is launched, the first network to be fully integrated into an open-access publishing platform, the Frontiers journal series.



# Marketing and communications

FRONTIERS IN THE NEWS .....

In 2014, 80 articles were promoted and received press coverage in over 500 reported news items, which represents a 100% increase over 2013.

## WIRED

### Optogenetics used to stop rats binge drinking

"A team of neurobiologists taught rats to binge on alcohol, then watched as each refused a drink when their dopamine-controlling neurons were stimulated."

## NewScientist

## Learning drugs reawaken grown-up brains's inner child

"A drug for perfect pitch is just the start: mastering new skills could become easy if we can restore the brain's youthful ability to create new circuits."

## theguardian

## Man develops powerful love of Johnny Cash following deep brain stimulation

"Brain implants have had the unexpected and intriguing side effect..."



## Mathematics: Why the brain sees maths as beauty

"Brain scans show a complex string of numbers and letters in mathematical formulae can evoke the same sense of beauty as artistic masterpieces..."

### Virtual arm eases phantom limb pain

"Doctors have devised a new way to treat amputees with phantom limb pain."

## The New York Times

### How a Lizard Gets Rid of a Suitor

"Female dragon lizards in Australia develop orange patches on their underbellies when they are fertile; the patches disappear only after they lay their eggs."

### Can Exercise Reduce Alzheimer's Risk?

"Exercise may help to keep the brain robust in people who have an increased risk of developing Alzheimer's disease..."

#### INSTITUTIONAL AGREEMENTS .....

**Fourteen new institutions** signed up for membership / invoicing agreements, which represents an increase of 250% over 2013 and brings the total now to 25. This success underscores the growing acceptance of the open-access publishing movement on the institutional level and represents the first stages of an evolution towards a billing system that will be transparent for authors and easy for university administrators.

ALPSP AWARD .....



"The judges **awarded Gold to Frontiers**, the open science platform. This innovative peer-review platform brings authors and reviewers together in discussions which in turn leads to better content, speedier review process and increased transparency."

### NEW LOGO AND BRANDING .....

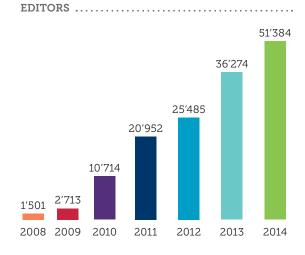


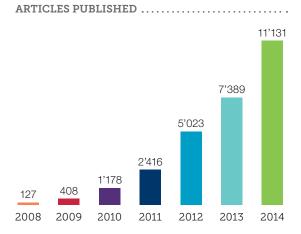
## Building bridges to academic communities

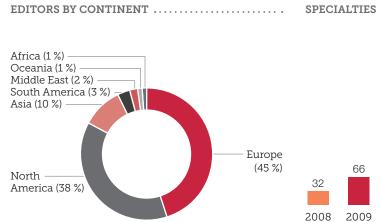
t Frontiers, the community remains at the center of our focus. In order to ensure the highest standards for our journals, we carefully vet each candidate proposed as Specialty Chief Editor, because the Specialty Section is the basic building block of our editorial structure. In 2014 alone, we brought 15'000 additional editors onto our editorial boards, as the teams for 12 new Field Journals fell into place.

We design our journals to take into account the multidisciplinary nature of science, facilitating synergies across research areas and improving discoverability through the cross-listing of Specialty Sections in two or more Field Journals. The result is that the 34 Field Journals at Frontiers are actually woven together via these cross-listed sections, resulting in a coherent, unified editorial structure. And on the finest scale, we offer the Frontiers Research Topic, which publishes the work of even the smallest of niche communities in a way that brings effective promotion to the circle of researchers involved.

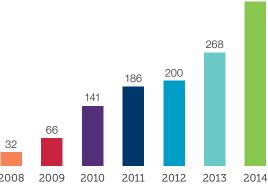
Our goal remains to provide an adequate publication channel for the work of researchers of all fields of study no matter how big or small the research area.







SPECIALTIES .....



382

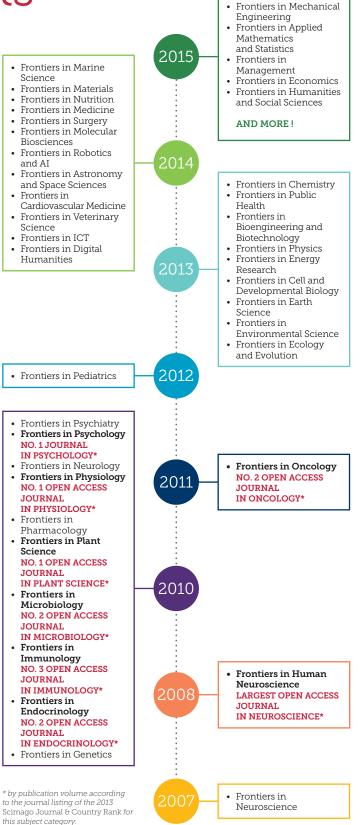
# Field journals rise to new heights

**F** rontiers significantly increased its catalogue of titles in 2014, with a focus on the medical fields. New journals included Frontiers in Surgery, Frontiers in Medicine and Frontiers in Cardiovascular Medicine. To complement the portfolio of human health, Frontiers in Veterinary Science was also established – in all, 12 new journals were launched with a total of 6'600 editors worldwide supporting these initiatives.

Frontiers now covers 34 academic fields with 382 specialty sections. The second wave of Frontiers titles launched after 2012 has gained excellent traction with 490% growth in these fields. In 2014 Frontiers has taken exciting first steps moving into the fields of Humanities and Social Sciences with the launch of Frontiers in Digital Humanities. We now have 17 journals indexed in the Web of Science, translating into over 70% of Frontiers content discoverable in this database.

### IMPACT FACTORS

- Frontiers in Human Neuroscience: 2.9
- Frontiers in Cellular Neuroscience: 4.2
- Frontiers in Computational
   Neuroscience: 2.2
- Frontiers in Neural Circuits: 3.0
- Frontiers in Neuroanatomy: 4.2
- Frontiers in Aging Neuroscience: 2.8
- Frontiers in Behavioral Neuroscience: 4.2
- Frontiers in Cellular and Infection Microbiology: 2.6
- Frontiers in Microbiology: 3.9
- Frontiers in Plant Science: 3.6
- Frontiers in Psychology: 2.8
- Frontiers in Molecular Neuroscience:
   JULY 2015
- Frontiers in Neuroinformatics: JULY 2015
- Frontiers in Neuroscience: JULY 2015
- Frontiers in Pharmacology: JULY 2015
- Frontiers in Physiology: JULY 2015
- Frontiers in Neurorobotics: JULY 2015



Frontiers in Built Environment

## Research Topics: publishing tuned to communities

he Frontiers Research Topic is a collection of articles published around a theme of cutting-edge research. With over 2'500 topics posted to date, the Research Topic is a platform proven to unite the world's experts around a topic, to stimulate dialogue and collaboration, and to accelerate science.

In 2014, we redesigned the Research Topic project pages in a way that optimizes the reach and impact of both the articles and the people behind the research. This includes a new environment to highlight the role of Topic Editors, with links directly to their Loop profiles; powerful new impact metrics displayed on the project page; a revamped discussion forum; and the possibility to download the full Research Topic as an e-book.

Very much like a "mini journal," the Research Topic provides even the most specialized areas of the scientific community with a publishing environment suited to its needs. But by putting the people behind the Research Topic front and center, the Frontiers platform also creates a social dynamic similar to that of a workshop.

Research Topics are perhaps the best example of the Frontiers mission in action: making scientists and their research optimally discoverable by providing the best tools and environments as developed from state-of-theart web technology.

NUMBERS (January 2015) .....



**2.5K** Research Topics organized



**14M** Research topic views of editors and

authors



**6K** Researchers edited a Research Topic



70K

Contributing

authors

**32M** 

Views of dedicated Research Topic pages လိ

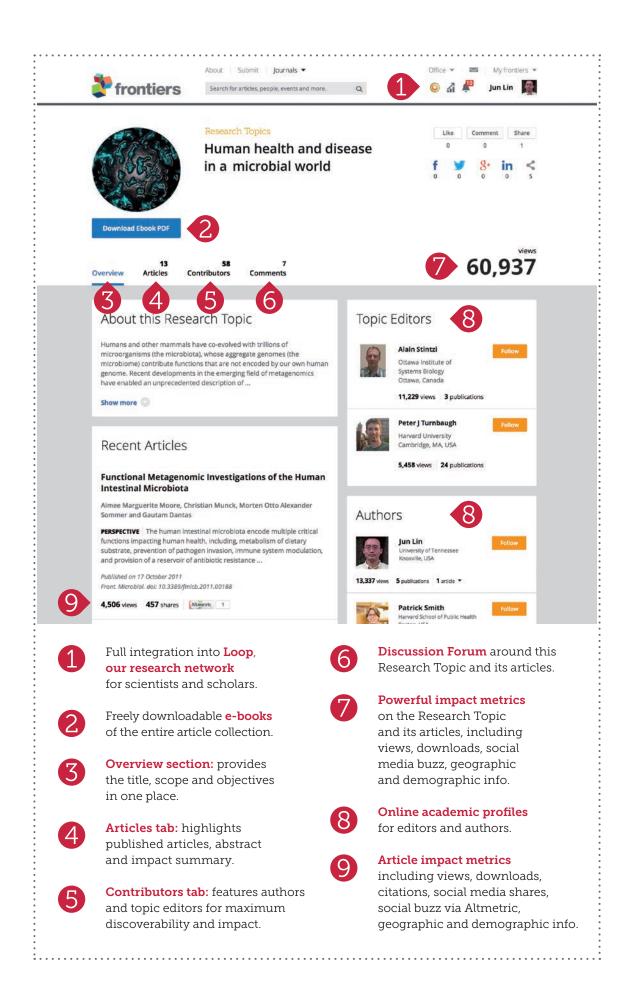
### 90K

Social media shares of Research Topic pages



### 35M

Views and downloads of Research Topic articles



# Re-engineering peer review

mproving peer review has always been a priority at Frontiers. Our unique peer review is engineered to be rigorous, yet at the same time collaborative, fair, efficient and transparent. These guiding principles were initially integrated into our sophisticated online review platform, the Frontiers Collaborative Review Forum, which was released in a new, completely redesigned version in early 2014.

Based on the feedback provided by our users, we focused on improving the user experience and providing a more task-oriented and intuitive platform for authors, reviewers and editors. The new design of the interactive forum further facilitates interaction and collaboration between all participants, to elevate the quality of manuscripts and their impact.

While maintaining our high standards of rigor, fairness and transparency, we also included a number of new features to reduce the pressure on our editors, including a full plagiarism check directly at submission for all manuscripts and the ability to contact reviewers with all the relevant information in the simple click of a mouse.

With 3'500 manuscripts currently under review, the response from the community has been overwhelmingly positive. As we move forward, we will focus on additional improvements to our guidelines and policies to make sure that Frontiers remains a leading innovator in the scientific publishing world.

COMMUNITY FEEDBACK (January 2015).....



**85** days

from submission to acceptance



80%

of our authors prefer our collaborative review over traditional peer review



90%

of our authors feel our collaborative review has helped improve their paper





of our authors were happy with the level of support received by Frontiers' staff during the publishing process



90%

of our authors rated our collaborative review forum as good or excellent



### 80%

of our reviewers

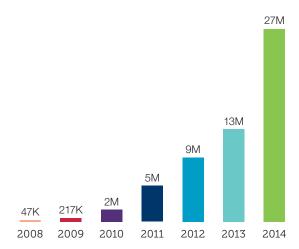
think the review questionnaires provided helped them focus on the most important aspects of the paper

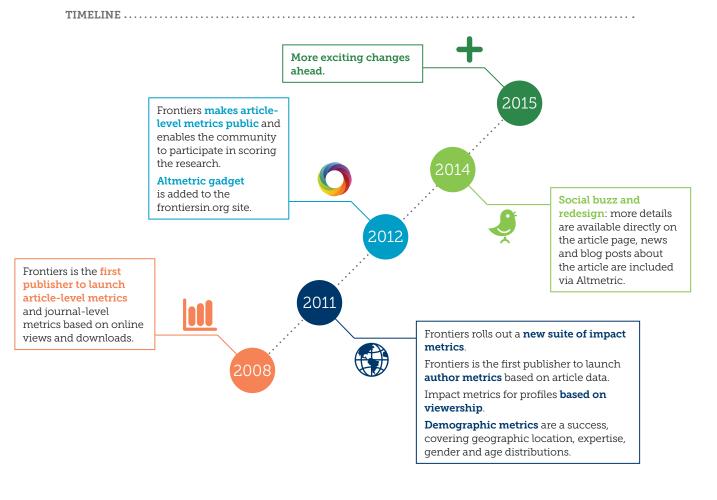
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2	Action summary	5	ditors and reviewers	

# Following impact: a new suite of article metrics

roviding impact metrics has been one of Frontiers' priorities since the beginning. The goal is to provide data in a manner that allows users to immediately and quantitatively assess the reach and growing influence of their work, and that also allows them to share this with collaborators, funders and the research community in general. Already in 2008, Frontiers launched its first article-level and journal-level metrics, and the suite of data available to researchers has regularly improved. In 2014, the impact-metrics package at Frontiers underwent a major redesign, allowing a real-time monitoring of views and downloads; social buzz; visitor demographics; and aggregated author impact.

#### ARTICLE VIEWS AND DOWNLOADS PER YEAR .....



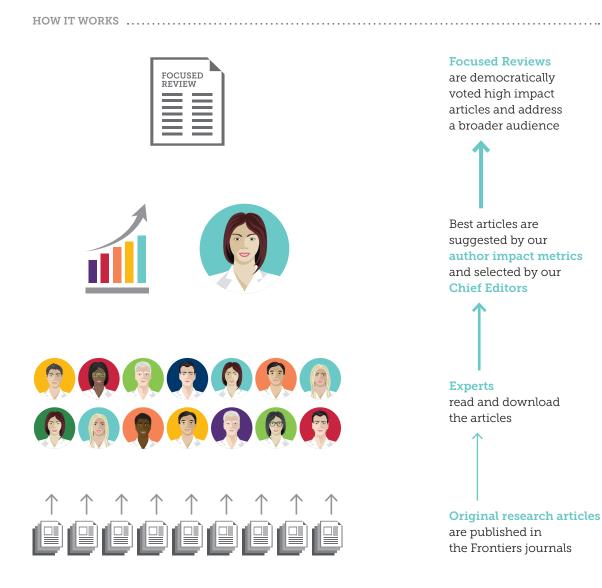




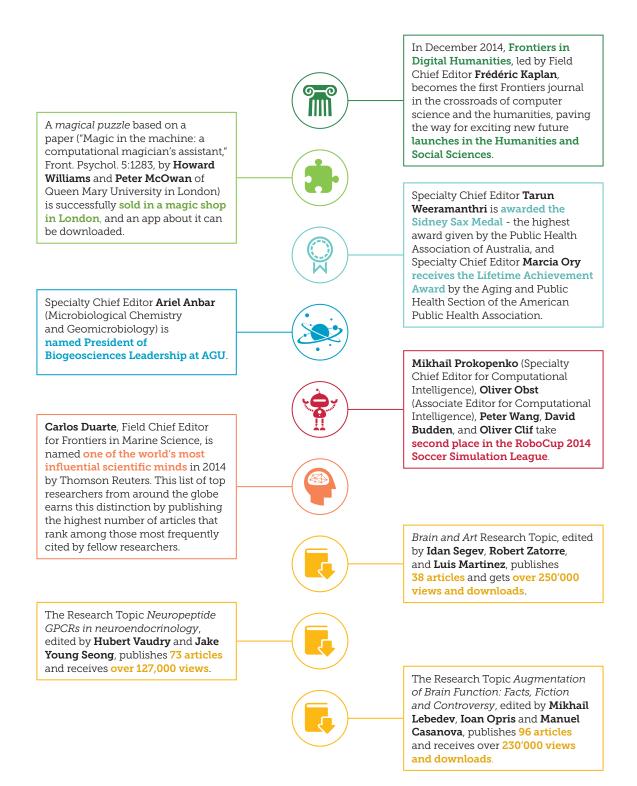
# Tiering – crowdsourcing the best articles

P ollowing article publication, the impact metric data is collected, evaluated and used as a basis for our Chief Editors to invite authors of high impact articles to write the prestigious "Focused Review", a free article type that puts the original discovery into a wider context, for a broader audience and a deeper impact. We call this process "tiering." Frontiers is so far the only publisher to design a system that semi-automatically distills the

most outstanding research in this crowdsourced way on the basis of impact metrics, evaluated democratically for its academic excellence and social relevance. While climbing up from Original Research to Focused Review, the research addresses a broader public and becomes more socially relevant. In 2014, tiering resulted in the publication of 33 Focused Reviews and 25 Frontiers Commentaries.



# Outstanding achievements from our community



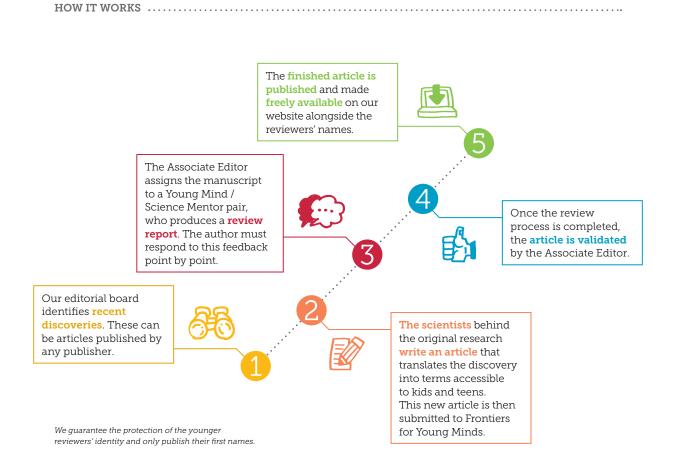
## Frontiers for Young Minds

rontiers for Young Minds is our scientific journal for children and teens in which young people get directly involved as reviewers. The Journal has inspired kids and scientists from around the world, operates on a non-profit basis, and already offers a collection of almost 40 articles in the neurosciences.

With the start of generous support from the Jacobs Foundation, our initial program has grown into a more scalable, integrated, and user-friendly system. This scalability let us branch into new disciplines, including Neuroscience, the Earth and its Resources, and Astronomy and Space Science. Frontiers for Young Minds extends bridges to younger audiences, not only providing them with access to cutting-edge research in a form they can understand, but also involving them in a critical step of the scientific process itself.

Additional collaboration with Scientific American has introduced the journal to numerous research communities and curious young minds, with appearances at international conferences and the new weekly companion blog on the Scientific American Blog Network.

Frontiers for Young Minds was selected as one of the **2014 "Great Websites for Kids"** by the American Library Association.





NUMBERS (January 2015)  $\bigcirc$ 15K 50 **100K** 5 120 **1.2K** 37 Articles Scientific Twitter Facebook Article Classrooms Young editors Minds followers likes views IN THE PRESS ..... Smithsonian CBC news FASTOMPANY THE DAILY CALIFORNIAN SUPPORTED BY ..... CURRENT PARTNERS .....

frontiers



SCIENTIFIC

AMERICAN

Named a **GREAT WEBSITE FOR KIDS** by the American Library Association

JACOBS

FOUNDATION

Our Promise to Youth

## Maximising impact for researchers: **Loop**

oop, the new Frontiers Research Network, was launched in BETA on 16 October 2014.

Furthering the Frontiers mission to increase readership of articles and enhance the reputation of academics within their communities and beyond, Loop is the very first open, cross-platform network for researchers. Loop profiles are available for integration into all journals and academic websites, allowing for the discoverability of researchers and their work across multiple domains. Loop BETA was released in conjunction with our first partner, Nature Publishing Group, enabling the direct linking of original articles published in the

Frontiers Journal Series and selected nature. com journals to the full profiles of the authors on Loop.

Our research network today offers a rich set of features to automatically promote academic achievements within an international community, enabling researchers to stay up-todate with new research and connecting them to their peers. This includes detailed impact metrics and machine learning algorithms that disseminate relevant research to the people who matter. Moving forward, Loop will continue its mission and develop functionality that works on behalf of researchers to maximise the readership and impact of their work.

#### INTEGRATED .....

Cross-platform integration makes authors and their research discoverable across the boundaries of publishers and organizations. A Loop profile is discoverable via the articles in the original journals in which they were published. This sounds simple, but it has never been done before.

ature.com > Journal home > Table of Contents

News and Views

Nature 393, 207-208 (21 May 1998) | doi:10.1038/30340 Sound grounds for computing dendrites

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nature International

frontiers in NEUROSCIENCE

**ORIGINAL RESEARCH ARTICLE** 

Archive

ci., 15 October 2007 | doi: 10.33 A novel multiple objective opti for constraining conductance by experimental data

Shaul Druckmann<sup>1\*</sup>, Yoav Barntt<sup>2</sup>, Albert G Markram<sup>3</sup> and Idan Segev<sup>1</sup> iplinary Center for Neural Com

ciences, Hebrew University ite, Ecole Polytechnique Féd rsity of le

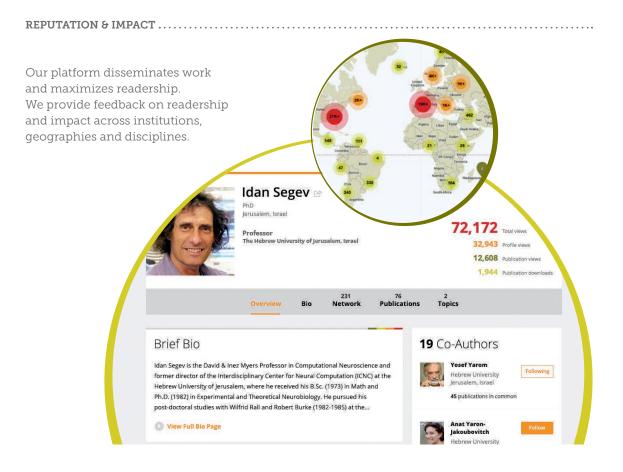


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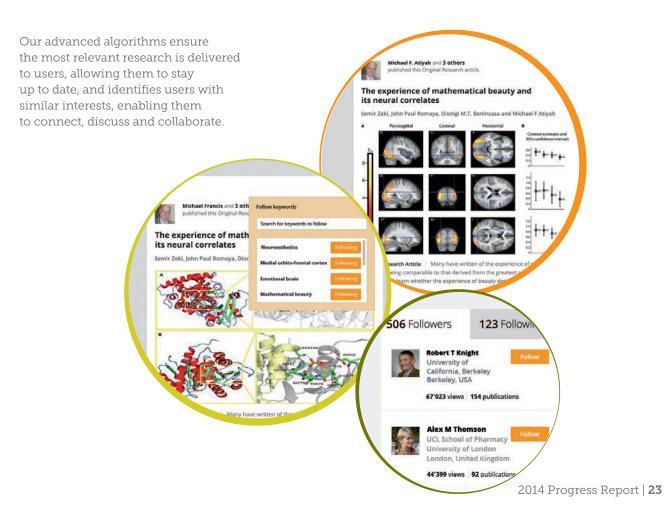
### Brief Bio

(Oop

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