

# F2013 Progress Report TICLES An incredible year of community-driven growth





Kamila Markram CEO of Frontiers

n November 2014, we will celebrate our ▲ 7<sup>th</sup> birthday and I'm thrilled by the many achievements we have reached together. As of today, we have published almost 20000 articles, are growing at a rate of almost 100% per year and several of our journals are already at the top of their subject categories. For example, Frontiers in Psychology, launched in 2010, has become the largest psychology journal worldwide. Frontiers in Immunology, Frontiers in Physiology and Frontiers in Plant Science are all the largest openaccess journals in their respective categories.

Between 2013 and early 2014, we expanded our open-access "Frontiers in" journal series into 16 new fields. Frontiers currently spans 28 fields, 300 specialties with over 40 000 leading scientists and clinicians on the editorial boards. We also set a new record in yearly publications, which now stands at almost 7 500 articles published in 2013, making Frontiers

one of the 5 largest open-access publishers (out of approximately 3 000).

The other remarkable event in 2013 was our partnership with Nature Publishing Group, which has further enhanced Frontiers' standing and prestige in the academic publishing world.

Combining NPG's established brand of world-renowned prestige and more than 130 years in publishing with Frontiers' transformative solutions to publish, share and boost impact, opened up a wealth of opportunities to lead the change in how science is published and communicated.

Our mission has not changed since our founding days in 2007, when we, as scientists, decided to take publishing into our own hands.

Frontiers stands for Open Science and builds online tools to publish, share and boost the impact of your research. We keep working with you to build a publishing platform focused on academic communities and your needs. We keep taking your feedback into account to build a simpler, faster and more efficient publishing system, and a peer review that is rigorous, but also fair, constructive and transparent. We build online metrics to give immediate feedback on the impact of your research. We work to make your work more accessible to researchers in other disciplines and to the more general audience. We take open access to a new level by feeding your articles into the Frontiers Research Network to disseminate them to the right people and boost your reach and impact.

Frontiers is taking off at unprecedented speed and developing into one of the most successful endeavours in the scholarly publishing landscape. Thanks to all of you who were part of this incredible year of community-driven growth. It's an honour to take this journey with you.

Lausanne, April 2014

Landa Mass

"Frontiers represents the future for science communication"

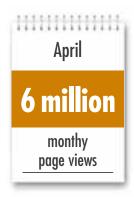
Michael Merzenich University of California, San Francisco

#### 2013 Frontiers milestones

















September

35 000

scientific editors





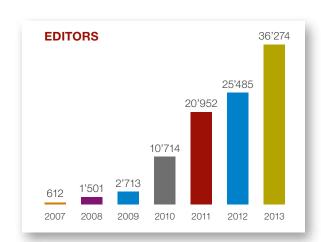


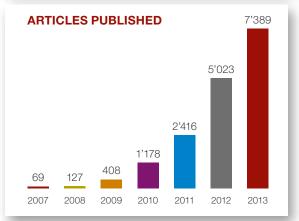
## Embracing academic communities

At Frontiers, our approach to publishing is community driven. It involves first understanding niche communities within a field, and then building a Field Journal embracing these communities' needs. We carefully subdivide each field into numerous Specialty Sections, thus framing an entire subject area through its communities.

In order to ensure the highest standards for our journals, we take great care - and great pride - in our editorial boards and only appoint the leading researchers and clinicians from each academic community.

Since research is increasingly multi-disciplinary, our platform is designed to facilitate synergies across neighboring research areas by allowing shared Specialty Sections amongst fields.





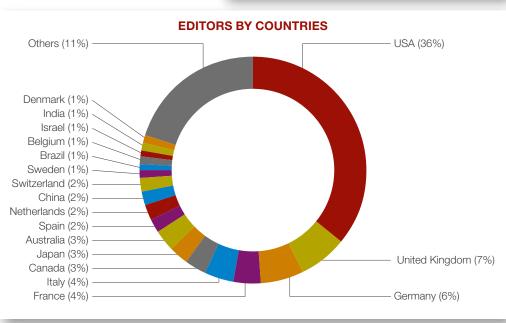












## Field Journals are top players

In 2008, Frontiers pioneered the Field Journal concept in the field of Neuroscience and, within three years, had branched out to 11 other areas across medicine and science. Today, our 12 original Field Journals are among the most established in their subject areas, both in terms of size and citation levels. Frontiers in Psychology, became the world's largest journal in Psychology only 3 years after it was launched in 2010. Frontiers in Immunology, Frontiers in Physiology and Frontiers in Plant Science are the largest

open-access journals in their respective categories.

In addition to these 12 established titles. 16 new Field Journals were launched between the end of 2012 and the beginning of 2014, now covering a total of 28 fields across 300 specialty sections. Our aim is to ensure that every community in all areas of natural, medical and social sciences can find an open-access home at Frontiers.

It is with this vision that we keep working on new launches in 2014.

#### 2008 Frontiers in Neuroscience Frontiers in Psychiatry No. 1 journal Frontiers in Psychology in Psychology\* Frontiers in Neurology No. 1 open-access journal Frontiers in Physiology in Physiology\* Frontiers in Pharmacology No. 1 open-access journal in Plant Science\* Frontiers in Plant Science No.3 open-access journal Frontiers in Microbiology in Microbiology No. 1 open-access journal Frontiers in Immunology in Immunology No. 2 open-access journal Frontiers in Endocrinology in Endocrinology' Frontiers in Genetics Frontiers in Oncology 2013 Frontiers in Pediatrics Frontiers in Chemistry Frontiers in Public Health Frontiers in Bioengineering and Biotechnology Frontiers in Physics Frontiers in Ecology and Evolution Frontiers in Energy Research Frontiers in Cell and Developmental Biology Frontiers in Earth Science Frontiers in Environmental Science 2014 Frontiers in Marine Science

#### **IMPACT FACTORS**

Frontiers in Aging Neuroscience: 5.2

Frontiers in Behavioral Neuroscience: 4.8

Frontiers in Cellular Neuroscience: 4.5

Frontiers in Cellular and Infection Microbiology:

coming July 2014!

Frontiers in Computational Neuroscience: 2.5

Frontiers in Human Neuroscience: 2.9

Frontiers in Microbiology: coming July 2014!

Frontiers in Neural Circuits: 3.3 Frontiers in Neuroanatomy: 4.1

Frontiers in Plant Science: coming July 2014! Frontiers in Psychology: coming July 2014!

compared to the journal listing of the 2012 Journal Citation Report for this subject category. Publication volume determined for 2013 with Scopus.

All journals are listed in PubMed and archives relevant for each subject area. All remaining 9 field journals launched before 2013 are under evaluation by Thomson Reuters for the release of an Impact Factor. Stay tuned!

Frontiers in Materials

Frontiers in Nutrition Frontiers in Medicine

Frontiers in Surgery

Frontiers in Molecular Biosciences

coming soon

Frontiers in Astronomy and Space Sciences

Frontiers in Robotics and Al

Frontiers in Veterinary Medicine

Frontiers in Cardiovascular Medicine

Frontiers in Digital Humanities

... and more!

#### Building impact through peer review

"The new review forum is exceptionally clear.
I particularly like the level of detail of where the article is in the review process"

Cheryl Metcalf about version 2.0 of the Review Forum

Improving peer review has always been a priority at Frontiers. Our peer review is engineered to be rigorous, yet at the same time collaborative, fair, efficient and transparent.

These guiding principles have been integrated into the most sophisticated online review platform, the Frontiers Review Forum, which facilitates consensus by opening a direct dialogue among authors, reviewers and editors.

Our peer review is engineered to contribute to the quality of manuscripts, and the high numbers of citations, views and downloads of Frontiers articles are a strong evidence of it. Frontiers journals consistently outrank some of the most established journals both in terms of citation levels and volume.

In 2013, we carried out substantial enhancements to our Review Forum.

The 2.0 version of the

Review Forum is now even more user-friendly, intuitive and task-oriented, and was released as a beta version in December.

Feedback from hundreds of scientists has been enthusiastic and we are really excited to move this development forward in 2014!

## Review principles

COLLABORATIVE
FAIR
RIGOROUS
EFFICIENT
TRANSPARENT

**84** days

to acceptance

15 days

from acceptance to publication

1000 views

in the first month following publication

"Instead of rejecting a paper a priori, we want to help the scientific community to improve a paper.

It's scientists helping other scientists to make things better - together"

Idan Segev about the philosophy of peer review at Frontiers

- **80%** of authors think the Frontiers peer review is a significant improvement over traditional peer review
- Over 90% of authors think the collaborative Frontiers peer review helped them improve their paper
- Over 90% of authors would submit again
- 95% of authors were happy with the level of support received by Frontiers staff in publishing their paper
- Over 90% of authors and reviewers rated our interactive Review Forum as good or excellent
- 85% of reviewers think the level of detail of the Frontiers questionnaires helped them focus on the most important aspects of the papers they reviewed

### Building impact through networking technologies

The Frontiers Research Network is a fast growing community of more than 140 000 of the world's leading researchers from all fields of academia.

Frontiers is the first to fully integrate open-access publishing with the latest networking technology, taking publishing to the next level. The mission of the network is simple: increase the reach of articles and disseminate them to the right people, and ultimately, boost the impact of our authors, editors and academic users.

The benefits for authors are compelling: since its launch in 2012, the Frontiers Research

Network has been proven to increase the visibility of researchers' profiles by 70% and that of their articles by 30%.

Combining networking with open-access publishing stays true to our mission: make research papers freely available to the world and increase their impact.

#### "Scientific studies

demonstrate that
the number of connections
to high-profile contacts
on social networks
translates into better
career performance
for science innovators,

P. A. Gloor et al., Int. J. Organ.Des. Eng. **3, 67–85**; 2013

70% increase

30%

increase
article views

140 000

active users

5000

new monthly users

5000

connected institutions

"Research networking in Frontiers helps disseminate your work"

Leon Cooper Nobel Laureate in Physics

> "The information revolution demands a serious rethinking of scientific publishing and Frontiers is an excellent answer to this demand"

Alex Hansen Norwegian University of Science and Technology

#### Science for kids

Frontiers is now also available for kids.
Our new journal
Frontiers for Young Minds brings the excitement of scientific discoveries to kids - reviewed by kids!

Frontiers for Young Minds is a real peer-reviewed scientific journal, in which young scientists-to-be (aged 8 - 15) become involved in the review process. It is the first time in scholarly publishing that a journal connects bright kids in a hands-on experience with the world's leading researchers.

Launched at the Society for Neuroscience meeting in November 2013, the journal stems from the never-ending passion of our long-time Chief Editor Bob Knight for bringing science to kids.

The response has been truly overwhelming and heart-warming and more fields will follow in 2014 after the success of the neuroscience "pilot" project. Frontiers for Young Minds has immediately captured the imagination of thousands of scientists, parents, mentors, teachers and - of course - kids! kids.frontiersin.org

"The best sci-publishing launch in decades"

Noah Gray Editor, Nature Magazine

86
kid reviewers

79
mentoring scientists

37
articles published

research areas in Neuroscience



#### Partnering with Nature Publishing Group

In February 2013, Nature Publishing Group and Frontiers formed a strategic partnership, to advance the global Open Science movement.

Nature Publishing Group recognized Frontiers' transformative solutions to open-access publishing, peer review and impact metrics. Combining these strengths with Nature's world-renowned reputation of excellence and long history in academic publishing opened up many new opportunities to advance our combined mission to serve scholars better and to lead the change in the landscape of science communication.

The partnership brings new opportunities to increase the visibility of our articles, create cross links between the two publishers and strengthen the public outreach of Frontiers overall.



For example: the 2013, 4th of July issue of Nature magazine had a specially-dedicated cover that opened up to display a Frontiers full-page infographic. This was a first in the 130-year-long history of Nature!



"We can achieve more together, and more quickly, than either publisher could working alone"

Steven Inchcoombe Managing Director, Nature Publishing Group "NPG and Frontiers' passion is to meet the evolving needs of scientists to advance science. Together we can really change the way science is communicated"

Kamila Markram CEO, Frontiers

"It is the first time that Nature has entered a partnership with another organization, because we had never found another organization that shares Nature's vision, passion, aspiration to help scientists be more successful"

Annette Thomas CEO, Macmillan Publishers

### International media coverage

Frontiers is publishing cutting-edge research with strong societal relevance from leading scientists. Our articles are regularly featured in world-leading newspapers, TV and radio programs. This includes regular

media coverage from the BBC, CNN, NBC, The Guardian, Der Spiegel, Scientific American, New Scientist, Popular Science and many more.

We work to boost the impact of your research at all levels.



"Wolves, like dogs, can learn from humans" Frontiers in Psychology

"Fast-paced evolution in the Andes" Frontiers in Genetics 7 November 2013

The New Hork Times

#### **SCIENTIFIC AMERICAN**

"Psychopaths might have an impaired empathy circuit" Frontiers in Behavioral Neuroscience

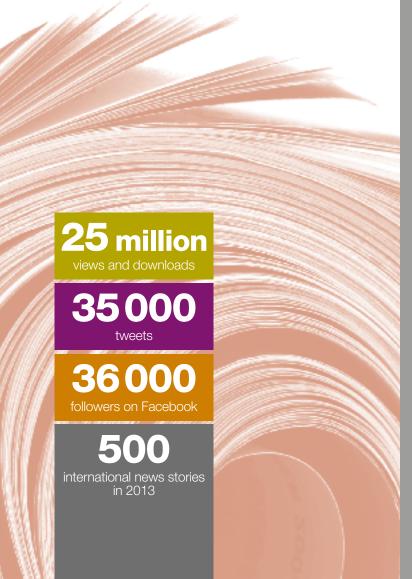
"Yoga and the mind: can yoga reduce symptoms of major psychiatric disorders?"

Frontiers in Psychiatry 28 January 2013 TIME



"Flowering plant origins pushed back 100 million vears"

Frontiers in Plant Science 1 October 2013



#### Research Topics: dig deeper with niche communities

Much of modern science is highly specialized and interdisciplinary by nature, and our goal at Frontiers is to make sure that the impact of every article and author is maximized even in this fragmented and fast-moving context.

Research Topics are collections of articles around

a cutting-edge research area organized by leading scientists and physicians. Frontiers' Research Topics provide a platform to unite the world's experts around a topic, stimulate dialogue and collaboration, publish cutting-edge research, accelerate science and demonstrate leadership in a field.

With almost 1000
Topics initiated in 2013,
Frontiers Research
Topics are an integral
part of publishing
highly specialized
and interdisciplinary
research and will continue
to play a central role
in showcasing
and promoting niche
communities.

"An excellent platform to combine different expertise from different areas"

Markus Geisler University of Freiburg

"What's special about Frontiers is that it is really designed for scientists to have a publishing medium for them"

Alex Thomson University College London



110000 research topic contributors

4700

research topic editors

research topics opened in 2013

over **200** 

research topics available as free ebooks

# Your team at Frontiers

The success of Frontiers is based on the commitment of academic communities, and on the stellar team that, behind the scenes, helps promote the academic status of all our authors, editors, reviewers and scientific users. With headquarters in Lausanne, Switzerland

and staff in London and Madrid, the Frontiers team now counts over 140 bright and relentlessly dedicated colleagues, across 40 nationalities and experience in essentially every area of academia.

Haven't had a chance to meet us all yet? Here we are. 140 staff - and growing!

40

3

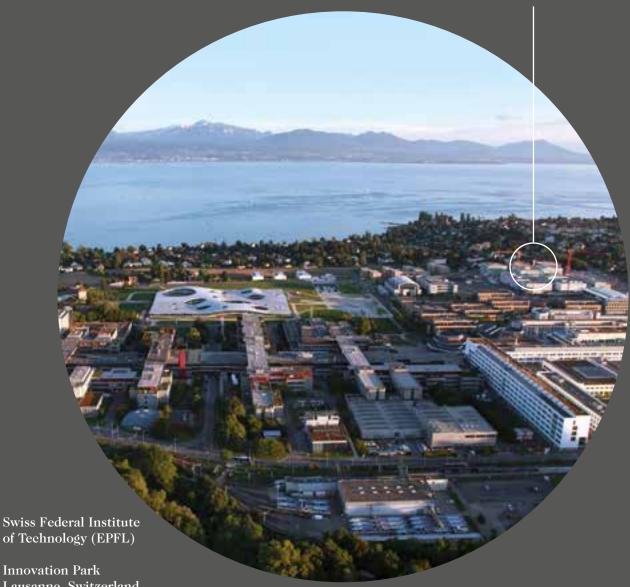
locations

lots of



#### 2014 here we come!

www.frontiersin.org



Innovation Park Lausanne, Switzerland

> The growth of Frontiers in 2013 has transformed our organization into one of the largest and most reputable players in open-access publishing.

However, we will never forget the grass-roots origins of Frontiers, nor the conviction that scientific publication

identifies and strengthens communities. Building and promoting communities, making sure that your articles are read and your impact is boosted, is where our focus will remain in 2014.

Improving our software to review, publish and

disseminate articles efficiently, broadening our public outreach, showeasing the work published through our journals – right down to each individual article and Research Topic – this is the Frontiers mission.



Timothy James

Timothy K Horiuchi

Ugo Bardi

Ulrich M Zanger

Umberto Veronesi

Gundert-Remy

Valerie Knopik

Thimios Mitsiadis

Thomas E Hanson Thomas L Rothstein Thomas S. Hofer Timothy lan Eglinton





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