San Francisco Declaration on Research Assessment

Putting science into the assessment of research

There is a pressing need to improve the ways in which the output of scientific research is evaluated by funding agencies, academic institutions, and other parties.

To address this issue, a group of editors and publishers of scholarly journals met during the Annual Meeting of The American Society for Cell Biology (ASCB) in San Francisco, CA, on December 16, 2012. The group developed a set of recommendations, referred to as the *San Francisco Declaration on Research Assessment*. We invite interested parties across all scientific disciplines to indicate their support by adding their names to this Declaration.

The outputs from scientific research are many and varied, including: research articles reporting new knowledge, data, reagents, and software; intellectual property; and highly trained young scientists. Funding agencies, institutions that employ scientists, and scientists themselves, all have a desire, and need, to assess the quality and impact of scientific outputs. It is thus imperative that scientific output is measured accurately and evaluated wisely.

The Journal Impact Factor is frequently used as the primary parameter with which to compare the scientific output of individuals and institutions. The Journal Impact Factor, as calculated by Thomson Reuters, was originally created as a tool to help librarians identify journals to purchase, not as a measure of the scientific quality of research in an article. With that in mind, it is critical to understand that the Journal Impact Factor has a number of well-documented deficiencies as a tool for research assessment. These limitations include: A) citation distributions within journals are highly skewed [1–3]; B) the properties of the Journal Impact Factor are field-specific: it is a composite of multiple, highly diverse article types, including primary research papers and reviews [1, 4]; C) Journal Impact Factors can be manipulated (or "gamed") by editorial policy [5]; and D) data used to calculate the Journal Impact Factors are neither transparent nor openly available to the public [4, 6, 7].

Below we make a number of recommendations for improving the way in which the quality of research output is evaluated. Outputs other than research articles will grow in importance in assessing research effectiveness in the future, but the peer-reviewed research paper will remain a central research output that informs research assessment. Our recommendations therefore focus primarily on practices relating to research articles published in peer-reviewed journals but can and should be extended by recognizing additional products, such as datasets, as important research outputs. These recommendations are aimed at funding agencies, academic institutions, journals, organizations that supply metrics, and individual researchers.

A number of themes run through these recommendations:

- the need to eliminate the use of journal-based metrics, such as Journal Impact Factors, in funding, appointment, and promotion considerations;
- the need to assess research on its own merits rather than on the basis of the journal in which the research is published; and

- the need to capitalize on the opportunities provided by online publication (such as relaxing unnecessary limits on the number of words, figures, and references in articles, and exploring new indicators of significance and impact).

We recognize that many funding agencies, institutions, publishers, and researchers are already encouraging improved practices in research assessment. Such steps are beginning to increase the momentum toward more sophisticated and meaningful approaches to research evaluation that can now be built upon and adopted by all of the key constituencies involved.

The signatories of the San Francisco Declaration on Research Assessment support the adoption of the following practices in research assessment.

General Recommendation

1. Do not use journal-based metrics, such as Journal Impact Factors, as a surrogate measure of the quality of individual research articles, to assess an individual scientist's contributions, or in hiring, promotion, or funding decisions.

For funding agencies

- 2. Be explicit about the criteria used in evaluating the scientific productivity of grant applicants and clearly highlight, especially for early-stage investigators, that the scientific content of a paper is much more important than publication metrics or the identity of the journal in which it was published.
- For the purposes of research assessment, consider the value and impact of all research outputs (including datasets and software) in addition to research publications, and consider a broad range of impact measures including qualitative indicators of research impact, such as influence on policy and practice.

For institutions

- 4. Be explicit about the criteria used to reach hiring, tenure, and promotion decisions, clearly highlighting, especially for early-stage investigators, that the scientific content of a paper is much more important than publication metrics or the identity of the journal in which it was published.
- 5. For the purposes of research assessment, consider the value and impact of all research outputs (including datasets and software) in addition to research publications, and consider a broad range of impact measures including qualitative indicators of research impact, such as influence on policy and practice.

For publishers

- Greatly reduce emphasis on the journal impact factor as a promotional tool, ideally by ceasing to promote the impact factor or by presenting the metric in the context of a variety of journal-based metrics (e.g., 5-year impact factor, EigenFactor [8], SCImago [9], *h*-index, editorial and publication times, etc.) that provide a richer view of journal performance.
- 7. Make available a range of article-level metrics to encourage a shift toward assessment based on the scientific content of an article rather than publication metrics of the journal in which it was published.
- 8. Encourage responsible authorship practices and the provision of information about the specific contributions of each author.

- 9. Whether a journal is open-access or subscription-based, remove all reuse limitations on reference lists in research articles and make them available under the Creative Commons Public Domain Dedication [10].
- 10. Remove or reduce the constraints on the number of references in research articles, and, where appropriate, mandate the citation of primary literature in favor of reviews in order to give credit to the group(s) who first reported a finding.

For organizations that supply metrics

- 11. Be open and transparent by providing data and methods used to calculate all metrics.
- 12. Provide the data under a licence that allows unrestricted reuse, and provide computational access to data, where possible.
- 13. Be clear that inappropriate manipulation of metrics will not be tolerated; be explicit about what constitutes inappropriate manipulation and what measures will be taken to combat this.
- 14. Account for the variation in article types (e.g., reviews versus research articles), and in different subject areas when metrics are used, aggregated, or compared.

For researchers

- 15. When involved in committees making decisions about funding, hiring, tenure, or promotion, make assessments based on scientific content rather than publication metrics.
- 16. Wherever appropriate, cite primary literature in which observations are first reported rather than reviews in order to give credit where credit is due.
- 17. Use a range of article metrics and indicators on personal/supporting statements, as evidence of the impact of individual published articles and other research outputs [11].
- 18. Challenge research assessment practices that rely inappropriately on Journal Impact Factors and promote and teach best practice that focuses on the value and influence of specific research outputs.

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List of Original Signers (Individuals)

1	Euan Adie	Altmetric LLP
2	Elizabeth M. Adler	Executive Editor, The Journal of General Physiology
2	Sharon Ahmad	Executive Editor, Journal of Cell Science
4	Kurt H. Albertine	Editor-in-Chief, <i>The Anatomical Record</i>
4 5	Bruce Alberts	Editor-in-Chief, Science
6		
0	José M. Amigó	Professor Emeritus, Unity of Crystallography and Mineralogy, Department of Geology,
7	Derlier Antin	University of Valencia, Spain
7	Parker Antin	Editor-in Chief, Developmental Dynamics
8	Simeon Arseniyadis	Research Director, CNRS-France
9	Detlef Axmann	Professor, Department of Prosthodontics and Medical Materials, Eberhard-Karls- University, Germany
10	Tonci Balic-Zunic	Associate Professor in Mineralogy and leader of the Crystallography & Mineralogy Group, Natural History Museum, University of Copenhagen, Denmark
11	Joel Bernstein	Professor, Department of Chemistry, New York University Abu Dhabi, United Arab
		Emirates
12	Stefano Bertuzzi	Executive Director, American Society for Cell Biology
13	Ted Bianco	Acting Director, Wellcome Trust
14	Joël Bockaert	Professor, University of Montpellier 1, France; Member, Académie des Sciences
15	Elena Boldyreva	Novosibirsk State University, Institute of Solid State Chemistry and
		Mechanochemistry, Siberian Branch of Russian Academy of Sciences
16	David Botstein	Founding Editor-in-Chief of Molecular Biology of the Cell; Director Lewis-Sigler
		Institute for Integrative Genomics, Princeton University
17	Nouzha Bouhmaida	Professor, Laboratoire Sciences Des Matériaux, Faculté Des Sciences, Marrakech, Morocco
18	Roque J. Calvo	Executive Director, ECS – The Electrochemical Society
19	Michael Caplan	Professor and Chair, Dept. of Cellular and Molecular Physiology, Yale University
20	Julio E. Celis	Editor-in-Chief, Molecular Oncology
21	Martin Černohorský	Rector emeritus, Silesian University in Opava; Professor emeritus, Masaryk University,
		Brno, Czech Republic
22	Vicki Chandler	Gordon and Betty Moore Foundation
23	Daniel Choquet	Research Director, CNRS; Director of the Interdisciplinary Institute for Neuroscience;
		Director of the Bordeaux Imaging Center; Member of the Academy
24	Don Cleveland	President, American Society for Cell Biology; Distinguished Professor and Chair, Dept.
		of Cellular and Molecular Medicine, Univ. of California, San Diego
25	Francoise Combes	Observatoire de Paris and Academie des Sciences
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27	Brendan Crabb	President, Association of Australian Medical Research Institutes; Director, The Burnet
		Institute, Melbourne
28	Ana Maria Cuervo	co-Editor-in-Chief of Aging Cell; Professor, Albert Einstein College of Medicine
29	Stephen Curry	Professor and Chair, Department of Life Sciences, Imperial College, London
30	Antonella De Matteis	Telethon Institute of Genetics and Medicine
31	Tracey DePellegrin	Executive Editor, GENETICS and G3: Genes/Genomes/Genetics
32	Michel Desarménien	Research Director, CNRS-France
33	Danny Dolev	Scientific Council, ERC; School of Engineering and Computer Science, The Hebrew
		University of Jerusalem
34	Athene M. Donald	Cavendish Laboratory, Cambridge, UK
35	David Drubin	Editor-in-Chief, <i>Molecular Biology of the Cell;</i> Professor, University of California,
		Berkeley
36	Barbara Ensoli	Director, National AIDS Center
37		Executive Coordinator, Initiative for Science in Europe (ISE)
38	Daniel Esteve	Quantronics group, SPEC-CEA Saclay

39	Pavel Exner	Scientific Director, Doppler Institute for Mathematical Physics and Applied
		Mathematics Prague, Czech Republic
40	Adam P. Fagen	Executive Director, Genetics Society of America
41	Sir Alan Fersht, FRS	Associate Editor, PNAS
42	László Fésüs	Chairman of Publications Committee, Federation of European Biochemical Societies
43	Marty Frank	Executive Director, The American Physiological Society
44	Toni Gabaldón	Centre for Genomic Regulation, Barcelona, Spain
45	Santiago Garcia-Granda	Professor, Physical Chemistry, University of Oviedo; Immediate Past-President,
		European Crystallographic Association
46	Juan Manuel García-Ruiz	Research Professor at the Consejo Superior de Investigaciones Científicas and
		University of Granada
47	Fernando Garzon	President, ECS – The Electrochemical Society
48	Marina Gebert	Group Leader Aquatic Cell Technology, Fraunhofer Institution for Marine
		Biotechnology, Luebeck, Germany
49	James Gentile	Dean, Natural & Applied Sciences, Hope College; Past President, Research
		Corporation for Science Advancement; former Editor-in-Chief, Mutation Research
50	Alexander Gerber	Managing Director, German Research Center for Science & Innovation
		Communication (INNOKOMM)
51	Christian Gericke	Chief Executive, The Wesley Research Institute, Brisbane
52	Paul A. Gleeson	Head, Department of Biochemistry and Molecular Biology, The University of
		Melbourne
53	Bruce L. Goode	Editor, Cytoskeleton; Professor, Biology Rosenstiel Basic Medical Sciences Research
		Center, Brandeis University
54	Sharona Gordon	Incoming Editor, Journal of General Physiology
55	Robert M. Graham	Executive Director, Victor Chang Cardiac Research Institute, Sydney, Australia
56	Peter Gunning	President, Australian Society for Biochemistry and Molecular Biology; Editor-In-Chief,
		BioArchitecture, University of New South Wales
57	John Gurdon	Former Chairman, Company of Biologists
58	Lisa Hannan	Managing Editor, Traffic
59	Richard W. Hartel	Editor-in-Chief, Journal of the American Oil Chemists' Society
60	Carl-Henrik Heldin	Ludwig Institute for Cancer Research, Uppsala University, Sweden
61	Etienne Herzog	Interdisciplinary Institute for NeuroScience, Bordeaux University, France
62	Dennis W. Hess	Editor, ECS Journal of Solid State Science & Technology and ECS Solid State Letters
63	Heribert Hirt	President, European Plant Sciences Organisation (EPSO)
64	Brian Hoal	Executive Director, Society of Economic Geologists
65	Jason Hoyt	Co-Founder and CEO, PeerJ
66	Fabian Huettig	Assistant Medical Director, Department for Prosthodontics with Section "Medical
		Materials & Technology, " Center for Dentistry and Oral Medicine, Tuebingen
		University Hospital
67	Steve Humphries	Editor-in-Chief, Atherosclerosi, Official Journal of the European Atherosclerosis
60	Time I launt	Society Follow of the Devel Society Chain The Component of Dialogists
68 60	Tim Hunt	Fellow of the Royal Society; Chair, The Company of Biologists.
69 70	Howy Jacobs	Chief Editor, EMBO Reports
70	Reinhard Jahn	Department of Neurobiology, MPI for Biophysical Chemistry; EMBO Publications
		Advisory Committee (chair); EMBL Scientific Advisory Board (vice chair); Dean,
71	David Jamas	Göttingen Graduate School for Neurosciences, Biophysics, and Molecular Biosciences
71	David James	Director, Diabetes and Obesity Program, Garvan Institute of Medical Research;
72	Mark Johnston	Fellow, Australian Academy of Science
72	Mark Johnston	Editor-in-Chief of <i>GENETICS</i> ; Professor and Chair, Department of Biochemistry and Molecular Constitutions, the University of Colorado School of Medicine
72	Richard A.L. Jones	Molecular Genetics, the University of Colorado School of Medicine ex-Editor-in-Chief, <i>European Physical Journal</i>
73 74	Richard A.L. Jones Kozo Kaibuchi	Editor-in-Chief of <i>Cell Structures and Functions</i> (the official journal of the Japanese
74		Society for Cell Biology)
75	Alan Kraut	Executive Director, Association for Psychological Science
, ,	, aut muut	Execute Directory resolution for resperiological Science

76	Karl Kuchler	Medical University Vienna, Max F. Perutz Laboratories
77	Laurent Ladépêche	Interdisciplinary Institute for NeuroScience, Bordeaux University, France
78	Fernando J. Lahoz	Director, Chemical Synthesis and Homogeneous Catalysis Research Institute, Spanish
		National Research Center - University of Zaragoza, Zaragoza, Spain
79	Pekka Lappalainen	Executive Editor, Cytoskeleton; Research Director, Institute of Biotechnology,
		University of Helsinki
80	Rebecca Laurence	Publisher, F1000Research and F1000Posters
81	W. Mark Leader	Publications Director, American Society for Cell Biology
82	Thomas Lemberger	Chief Editor, Molecular Systems Biology
83	Maria Leptin	Director, EMBO
84	Anthony Linden	University of Zurich
85	Daniel Louvard	Director of the Research Centre Institut Curie
86	Michael Lynch	President, Genetics Society of America
87	Michael Marks	Co-editor, Traffic; Professor, University of Pennsylvania
88	Mark Marsh	Co-editor, <i>Traffic</i> ; Director, Medical Research Council Laboratory for Molecular Cell Biology
89	Marc A. Marti-Renom	Associate Editor at PLOS Computational Biology; National Center for Genomic
		Analysis and Centre for Genomic Regulation, Barcelona, Spain
90	Thomas Marwick	Director, Menzies Research Institute Tasmania
91	Paul Matsudaira	Head, Department of Biological Sciences, National University of Singapore
92	lain Mattaj	EMBL Director General
93	Satyajit Mayor	Director, National Centre for Biological Science, Bangalore, India
94	Tom Misteli	Editor-in-Chief, The Journal of Cell Biology
95	Thor Moeller	Researcher, Institut de Génomique Fonctionnelle (IGF), CNRS
96	Lucia Monaco	Chief Scientific Officer, Fondazione Telethon, Italy
97	Eric Murphy	Editor-in-Chief, Lipids, a Journal of the American Oil Chemists' Society
98	Valery Nakariakov	President, European Solar Physics Division; Physics Department, University of Warwick, UK
99	Susana Narotzky	Professor, Cultural Anthropology, University of Barcelona, Spain
100	Helga Nowotny	President, European Research Council; WWTF Vienna Science and Technology Fund
101	Paul Nurse	President, The Royal Society
102	Henk Ottens	President, Association of Geographical Societies in Europe EUGEO
103	Mark Patterson	Executive Director, eLife
104	Eva Pebay-Peyroula	Professor, Joseph Fourier University, Grenoble Member of the French Academy of Science
105	Pedro Pereira	Associate Researcher, IBMC - Instituto de Biologia Molecular e Celular, Portugal
106	Richard N. Perham	Editor-in-Chief, FEBS Journal
107	Alaine Peyraube	Director of Research at the CNRS (France)
108	Olivier Pironneau	Professor, LJLL - Analyse Numérique, Université Pierre et Marie Curie (Paris VI)
109	Heather Piwowar	Cofounder, ImpactStory
110	Olivier Pourquié	Editor-in-Chief, Development
111	Jacques Pouyssegur	Research Director at CNRS, Member of French & Europea Academy, Nice
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113	Jason Priem	Co-founder, ImpactStory
114	Edward N. Pugh, Jr.	Editor, Journal of General Physiology
115	Bernd Pulverer	Chief Editor, The EMBO Journal; Head of Scientific Publications, EMBO
116	Marianne Quiquandon	Researcher, CNRS-France
117	Jordan Raff	President, British Society of Cell Biology; Editor-in-Chief, Biology Open; Professor,
		Cancer Cell Biology, University of Oxford.
118	Francisco X. Real	Spanish National Cancer Research Center and Universitat Pompeu Fabra
119	Alyson Reed	Executive Director, Linguistic Society of America
120	Kari Rissanen	Academy Professor, Department of Chemisty, University of Jyväskylä, Finland
121	Phillip J. Robinson	Head, Cell Signalling Unit, Children's Medical Research Institute
122	Mike Rossner	Executive Director, The Rockefeller University Press

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125	Sanara Sennia	Chair, Department of Cell Biology, University of Texas Southwestern Medical Center
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131	Ulrich Schubert	Professor, Institute of Material Chemistry, Vienna University of Technology
132	Jörg Schulz	Editor-in-Chief, Journal of Neurochemistry; Chair and Full Professor, Department of
152		Neurology, RWTH Aachen University, Germany
133	André Sentenac	Member of the French Academy of Sciences; Former Director of a Department of
155		Biology at the CEA (Atomic Energy Commission)
134	Robert Shepherd	Director, Bionics Institute, University of Melbourne
135	Stuart Shieber	Harvard University
136	Tom Stevens	Co-editor, <i>Traffic</i> ; Professor, University of Oregon
137	Jennifer L. Stow	Professor and Deputy Director, Research, Institute for Molecular Bioscience, The
207		University of Queensland
138	Sona Strbanova	Associate Professor, Centre for the History of Sciences and Humanities, Institute for
200		Contemporary History, Academy of Sciences of the Czech Republic
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145	, Heiner Weber	Dean, Center for Dentistry and Oral Medicine; Chairman, Department of
		Prosthodontics, University of Tuebingen, Germany
146	Eric Westhof	Directeur, Institut de biologie moléculaire et cellulaire du CNRS, Strasbourg, France
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151	Alpha Yap	Head, Division of Molecular Cell Biology, Institute for Molecular Bioscience, The
		University of Queensland
152	Mary Yess	Deputy Executive Director and Publisher, ECS - The Electrochemical Society
153	Marino Zerial	Max Planck Director, Max Planck Institute of Molecular Cell Biology and Genetics,
		Dresden
154	Ya-ping Zhang	Vice-President, Chinese Academy of Sciences

List of Original Signers (Organizations)

- 1 Academy of Sciences of the Czech Republic (AS CR)
- 2 Altmetric LLP
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- 57 Molecular Biology of the Cell
- 58 Nacional de Analisis Genomico (CNAG), Barcelona, Spain
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