

Polar Science and Data Journal by “Elsevier Publisher”

Takashi Yamanouchi

Editor in Chief for Polar Science

(National Institute of Polar Research, ROIS) and

Emilie Wang

(Elsevier, Beijing)

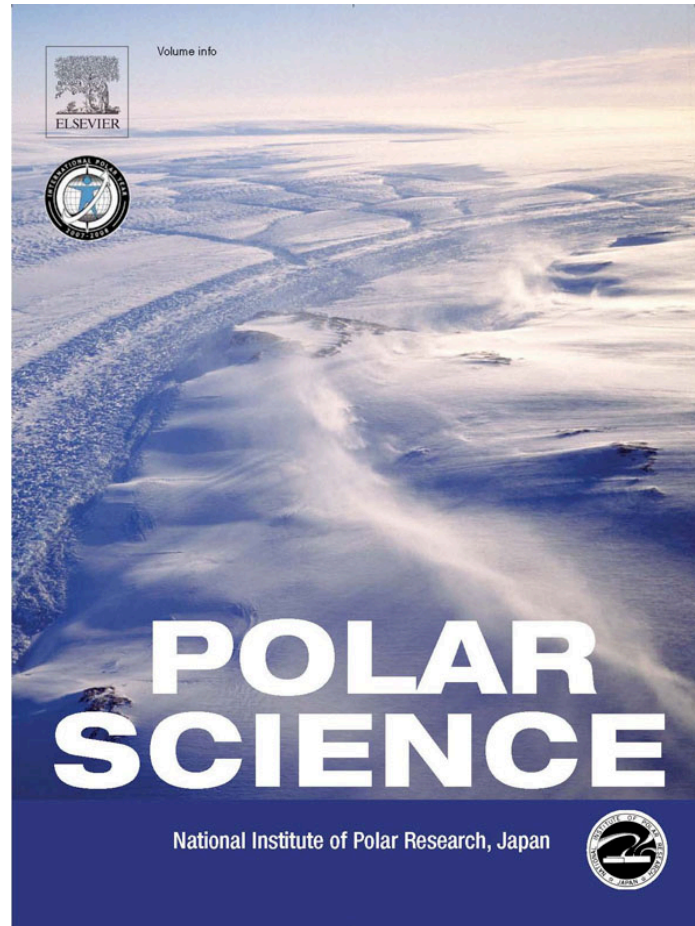
Today's talk:

Polar Science

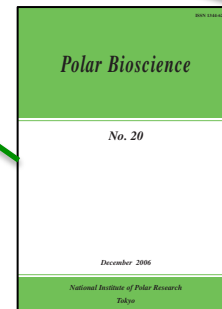
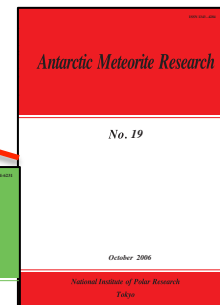
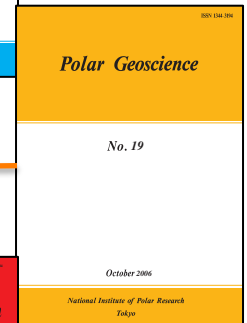
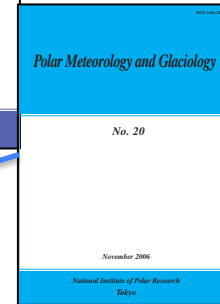
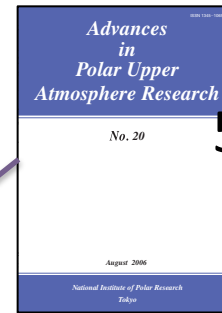
Data in Brief

Polar Science

Polar Science is an international, peer-reviewed quarterly journal published by the National Institute of Polar Research (NIPR) and Elsevier.



Original 5 proceedings series



August 2007

The first Editor-in-Chief, Prof. Kazuo Shibuya (NIPR), decided to integrate these five proceedings series to one and to publish new international scientific journal.

Polar Science-Aims and scope

Articles relating to the polar regions of the Earth and other planets. *Polar Science* aims to cover 13 disciplines in physical, geo and life sciences.

Attract the interest of broad polar science communities, and not be limited to the interests of those who work under specific research subjects.

- 1 Space and upper atmosphere physics
- 2 Atmospheric science/climatology
- 3 Glaciology
- 4 Oceanography/sea ice studies
- 5 Geology/petrology
- 6 Solid earth geophysics/seismology
- 7 Marine Earth science
- 8 Geomorphology/Cenozoic-Quaternary geology
- 9 Meteoritics
- 10 Terrestrial biology
- 11 Marine biology
- 12 Animal ecology
- 13 Environment

- Restructuring of the disciplines is planned -

- Polar engineering
- Social/ humanity sciences

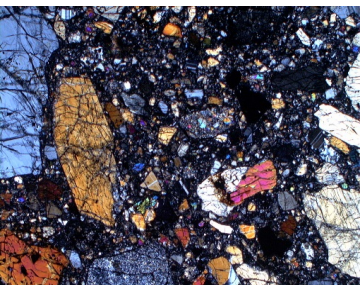
Polar Science-Editors

Editorial Board

Editor in Chief: Takashi Yamanouchi (National Institute of Polar Research: NIPR)

Associate Editors:

- 1 Akira Sessai Yukimatsu (NIPR), Brian James Fraser (Univ. of Newcastle)
- 2 Jun Inoue (NIPR), Young Jun Yoon (Korean Polar Res. Inst.)
- 3 Hideaki Motoyama (NIPR), Takao Kameda (Kitami Inst. of Tech.)
- 4 Shuki Ushio (NIPR), Yasushi Fukamachi (Hokkaido Univ.)
- 5 Tomokazu Hokada (NIPR), Madhusoodhan Satish-Kumar (Niigata Univ.)
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- 12 Akinori Takahashi (NIPR), Yutaka Watanuki (Hokkaido Univ.)
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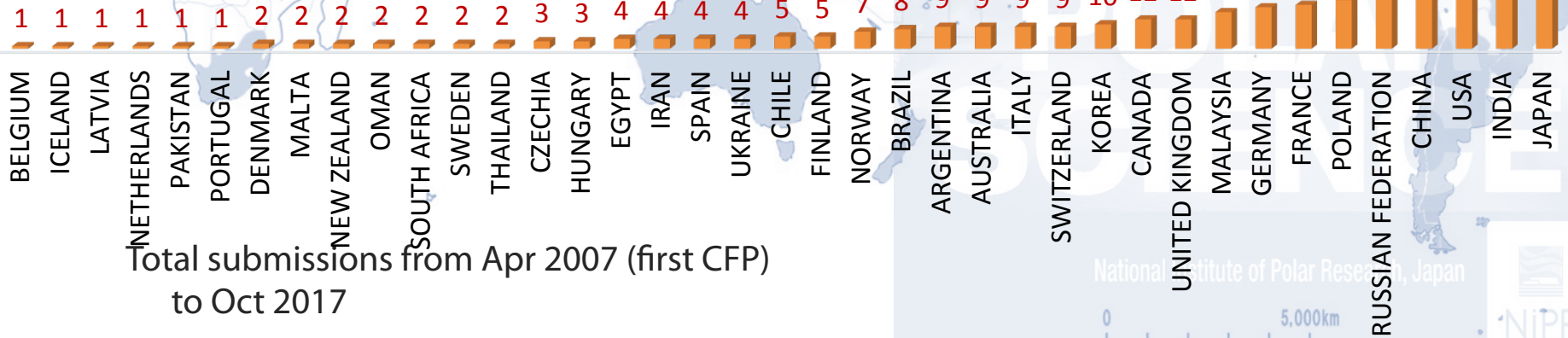


Advisory Board

Asgeir Brekke (UiT The Arctic University of Norway), Ian Allison (University of Tasmania), Rob Massom (University of Tasmania), Simon L. Harley (University of Edinburgh), Kazuo Shibuya (NIPR), Junmeng Zhao (Chinese Academy of Sciences), Jong Ik Lee (Korea Polar Research Institute), Peter Barrett (Victoria University of Wellington), Timothy Fagan (Waseda University), Dana Bergstrom (Australian Government), Harvey Marchant (Australian National University), Phil Trathan (British Antarctic Survey)

Polar Science - Submissions from all over the world

632 Submissions
in Total
2007-2017



Total submissions from Apr 2007 (first CFP)
to Oct 2017

National Institute of Polar Research, Japan

0 5,000km
1:50,000,000



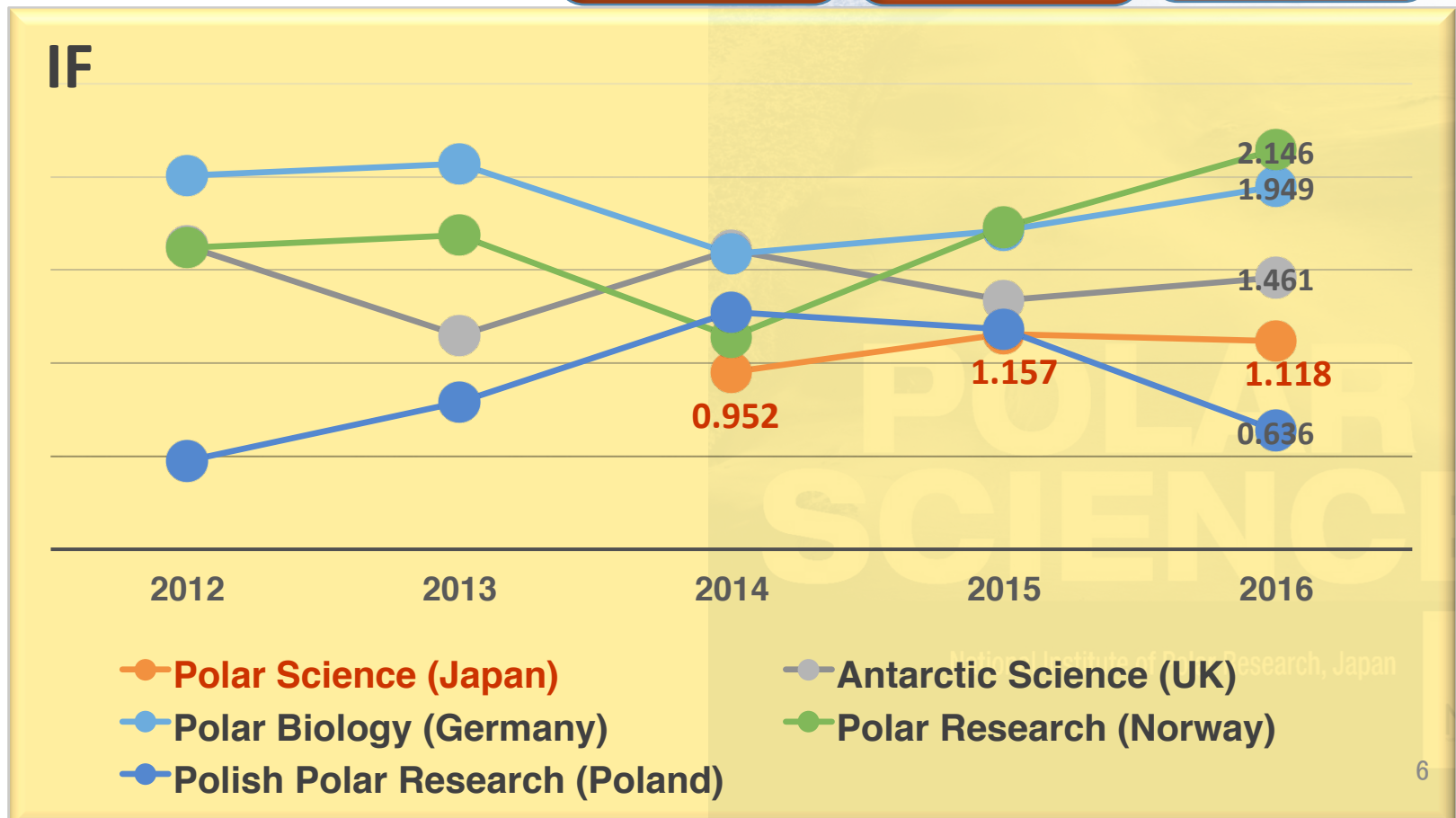
Polar Science - Impact Factor

Polar Science was accepted for Impact Factor from 2014.

IF 2014:
0.952

IF 2015:
1.157

IF 2016:
1.118



Polar Science - Special issues

- 2010 Antarctic Biology in the 21st Century - Advances in and beyond **IPY**
- 2011 **CEAMARC** - The Collaborative East Antarctic Marine Census for the Census of Antarctic Marine Life
- 2012 The Second International Symposium on the Arctic Research (**ISAR-2**)
- 2014 The Third International Symposium on the Arctic Research (**ISAR-3**)
- 2015 Recent Advance in **Polar Seismology**: Global Impact of the International Polar Year
The Asian Forum for Polar Sciences (**AFoPS**)
- 2016 **ISAR-4/ICARPIII**, Science Symposium of **ASSW2015**
- 2017 Ecosystem Studies in the Indian Ocean Sector of the Southern Ocean undertaken by the training vessel **Umitaka-maru**



How Elsevier supports data publication

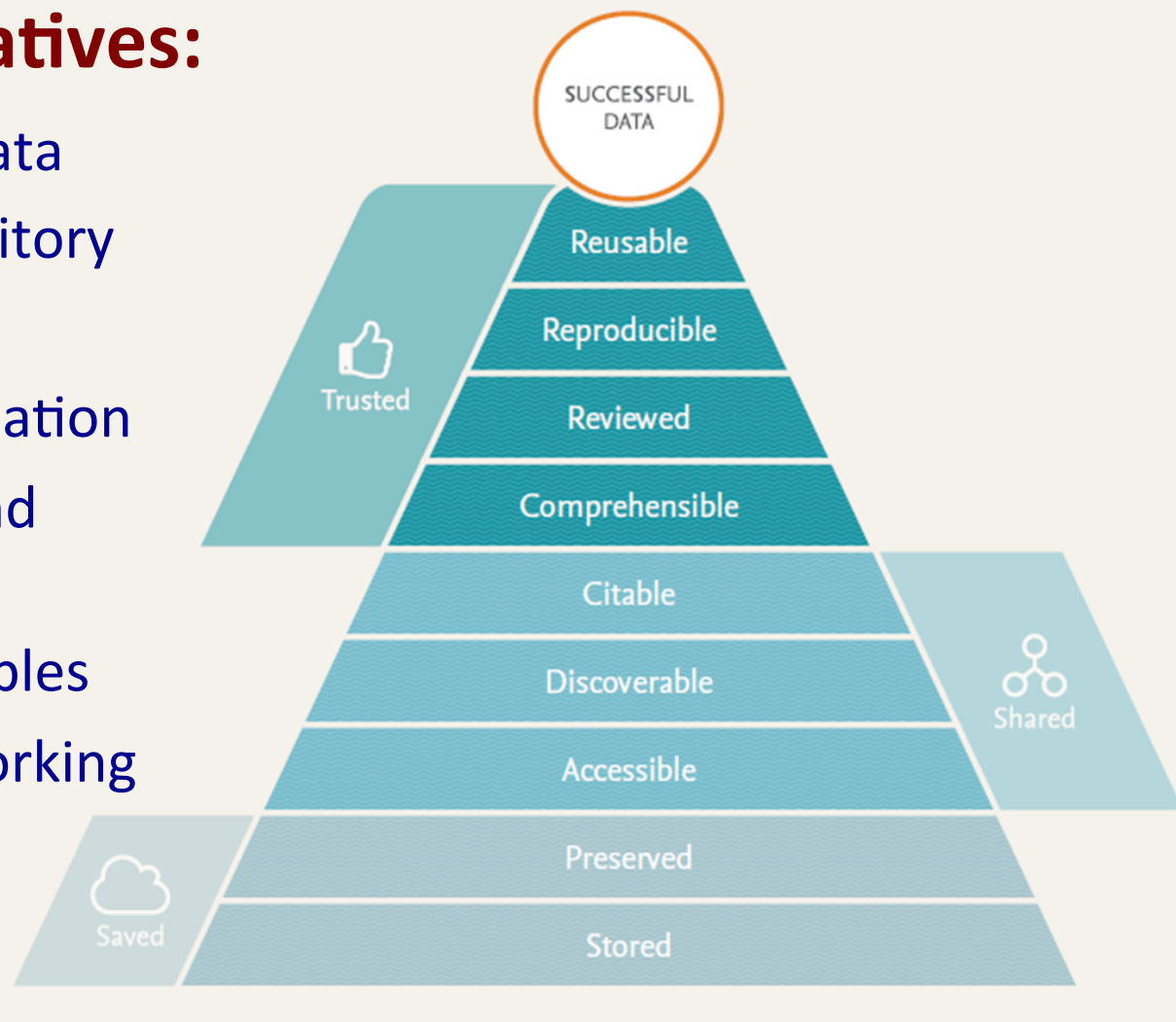


ELSEVIER



Elsevier data initiatives:

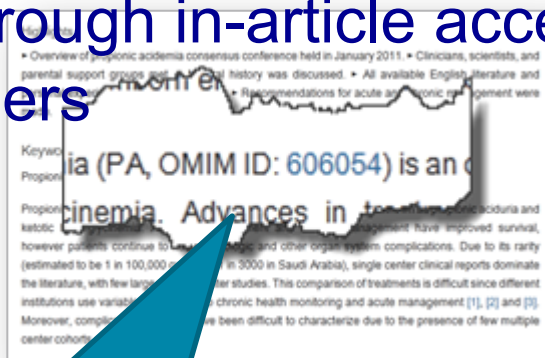
- Linking articles and data
- Mendeley Data repository
- Data journals
- In-article data visualization
- Community efforts and standards
 - Data Citation principles
 - RDA / ICSU-WDS working groups



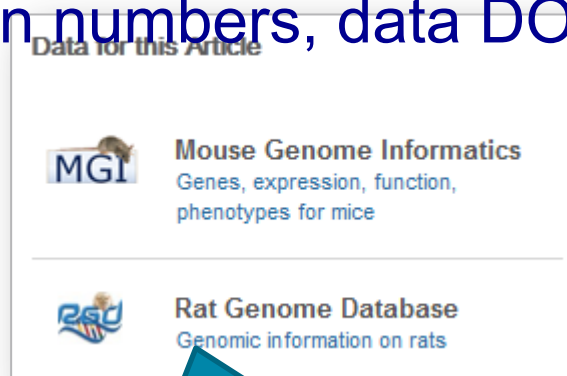
More at: <http://www.elsevier.com/about/research-data>

Data-linking at Elsevier

- Elsevier has an extensive program with 40+ leading domain-specific data repositories to interlink articles and data
- Makes it easier to find relevant data and place data into the right context
- Linking through in-article accession numbers, data DOI's, or data banners



Linking through in-article data accession numbers

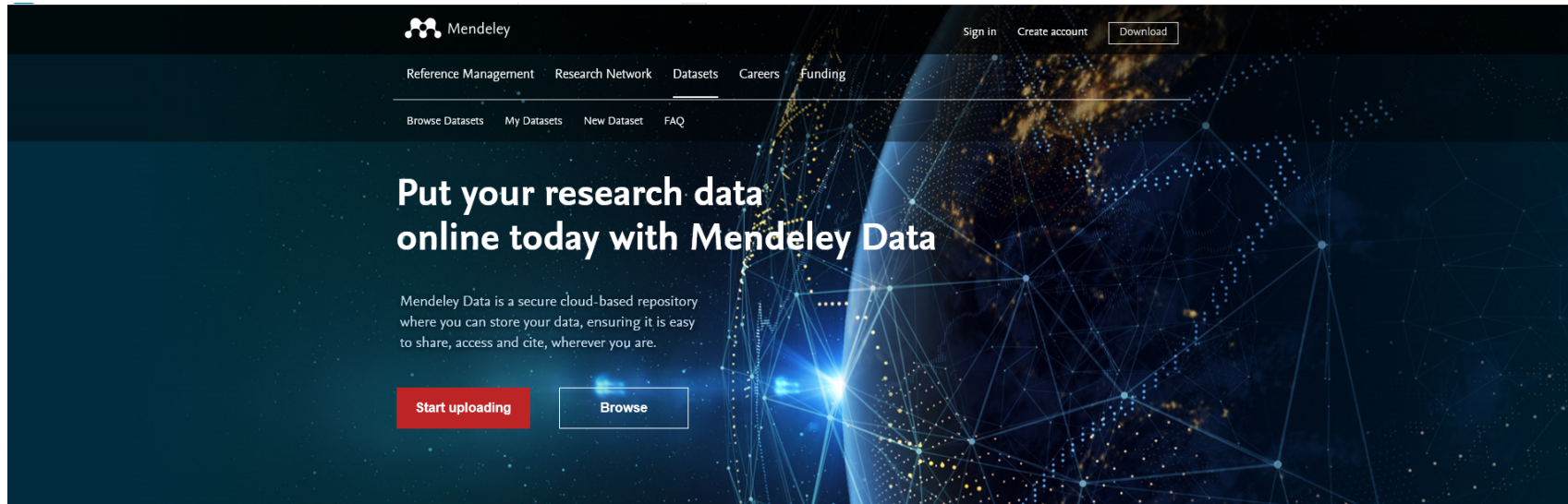


Database banners shown next to the article on ScienceDirect

See <http://www.elsevier.com/databaselinking>

Mendeley Data > Elsevier's new data repository

- Mendeley Data enables:
- Deposition of research data
 - Sharing of research data
 - Citation of research data
 - Rendering of research data



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<http://data.mendeley.com/>



Data in Brief: open access data journal at Elsevier

Overview

- Place to describe datasets in any scientific discipline.
- Data articles are purely descriptive and do not provide functional data nor interpretation.
- Data articles are intended to facilitate data reuse and reproducibility
- All data described must be made publicly available, either with the **article** or in a public **repository**
- All authors fill in a standard data article template available at: <https://www.elsevier.com/dib-template>
- Specifications table with direct link to data
 - Value of the Data
 - Materials and Methods
- All *Data in Brief* articles receive the CC-BY license
- Open access fee is \$500
 - Authors may submit multiple Data in Brief at the same time, up to 10 co-submitted articles may be published for the price of 1



Data in Brief article template

Abstract

[Briefly describe the contents of this Data article (this should not be the same as a research article abstract). Tell the reader the repository name and reference number for the data here. If data is supplied in the article instead of a repository, please explicitly state this. If the data is related to a published research article, please also directly mention the article in the abstract]

Specifications Table *[please fill in right-hand column of the table below]*

Subject area	<i>Physics, Chemistry, Biology, Economics, Psychology</i>
More specific subject area	<i>Describe narrower subject area</i>
Type of data	<i>Table, image (x-ray, microscopy, etc), text file, graph, figure</i>
How data was acquired	<i>Microscope, survey, SEM, NMR, mass spectroscopy, etc. If an instrument was used, please provide the model and make of the instrument</i>
Data format	<i>Raw, filtered, analyzed, etc</i>
Experimental factors	<i>Brief description of any pretreatment of samples</i>
Experimental features	<i>Very brief experimental description</i>
Data source location	<i>City, Country and/or Latitude & Longitude (& GPS coordinates) for collected samples/data if applicable</i>
Data accessibility	<i>State if data is with this article or in public repository. If public repository, please explicitly name repository and data identification number and provide a direct URL to data</i>

Value of the data *[describe in 3-5 bulleted points why this data is of value to the scientific community]*

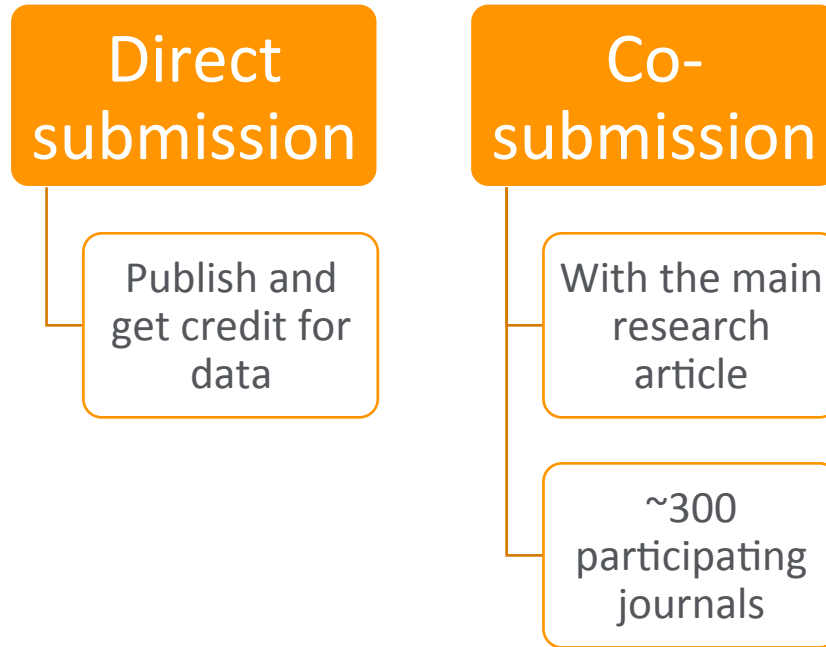
-

Data, Experimental Design, Materials and Methods

[Thoroughly describe your data here. Provide a description of the Experimental design and methods used to acquire or perform base level analysis of the data presented with this article and where applicable. Include any relevant figures/tables needed to fully understand the data. Please also attach, where applicable, any code files used to provide base-level analysis or filtering of the data.]

References *[please include all references relevant to the data described here; references are not limited]*

Data articles can be in addition to original research papers



How? Authors can submit a brief article describing their data alongside their main research article to a dedicated OA journal *Data in Brief* for peer review and publication.

Why? This enables authors to get more exposure and credit for their work that otherwise can't be published in a traditional article format, and readers to get much more value out of the data, methods and software.



Two ways to publish in *Data in Brief*

Direct submission

For authors who have stand-alone data

- Authors fill in the *Data in Brief* template and either directly supply data files with the article, or link to the files in a public repository
- The data article is sent for external peer review:
 - Compliance to the template
 - Is the data adequate? Does it make sense? Why is it useful?
 - Is the protocol for generating data adequate?
 - Data format (is it standard for the field? potentially re-usable?)
 - Are sufficient captions/labels provided? Is the data well documented?
- Additional checks (prior to peer review)
 - Data and text duplication
 - Completeness of metadata
 - File format consistency

Co-submission

For Participating journals at Elsevier:

(*Polar Science*)

- During the submission process, the author has the opportunity to co-submit a data article for *Data in Brief*. Information is available in the Guide for Authors.
- Interested authors complete a *Data in Brief* template and submit it directly with their manuscript (so it is available for peer review as support to the manuscript)
- For those that have not, in the manuscript revision letter, Authors are invited to convert their supplementary material into a data article for *Data in Brief*.
- If the manuscript is accepted, their data article is sent directly to *Data in Brief* for peer review; any necessary revisions are requested of the authors

Find out more at: <http://www.journals.elsevier.com/data-in-brief>

Research Article and data article are interlinked on Science Direct





Data in Brief
Volume 11, April 2017, Pages 15–18



Open Access

Data Article

Data supporting the effects of lysozyme on mRNA and protein expression in a colonic epithelial scratch wound model

Sarah K. Abey^a, Yuana Yuana^b, Paule V. Joseph^a, Natnael D. Kenea^a, Nicolaas H. Fourie^a, LeeAnne B. Sherwin^a, Gregory E. Gonye^c, Paul A. Smyser^d, Erin S. Stempinski^e, Christina M. Boulineaux^a, Kristen R. Weaver^a, Christopher K.E. Bleck^e, Wendy A. Henderson^a.  

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<http://dx.doi.org/10.1016/j.dib.2016.12.043>

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Refers To

Sarah K. Abey, Yuana Yuana, Paule V. Joseph, Natnael D. Kenea, Nicolaas H. Fourie, LeeAnne B. Sherwin, Gregory E. Gonye, Paul A. Smyser, Erin S. Stempinski, Christina M. Boulineaux, Kristen R. Weaver, Christopher K.E. Bleck, Wendy A. Henderson

Lysozyme association with circulating RNA, extracellular vesicles, and chronic stress

BBA Clinical, Volume 7, June 2017, Pages 23-35

 PDF (3168 K) | [Supplementary content](#)

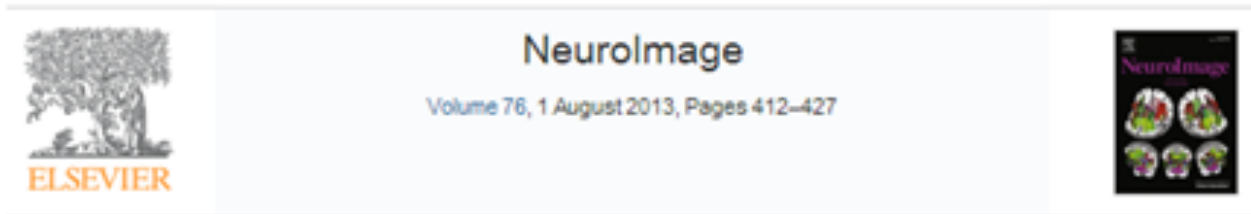
Data in Brief clearly links back to related research article

Both articles cite each other in the reference list.

Abstract

Colonic epithelial health is implicated in a host of gastrointestinal (GI) diseases and disorders. Lysozyme is suspected to play a role in the ability of the epithelium to recover from injury (Abey et al., in press; Gallo, 2012; Rubio, 2014) [1], [2] and [3]. Disrupted

Data visualization: in-article data viewers to allow data exploration with the article



The valuation system: A coordinate-based meta-analysis of BOLD fMRI experiments examining neural correlates of subjective value

Oscar Bartra¹, Joseph T. McGuire¹, Joseph W. Kable¹

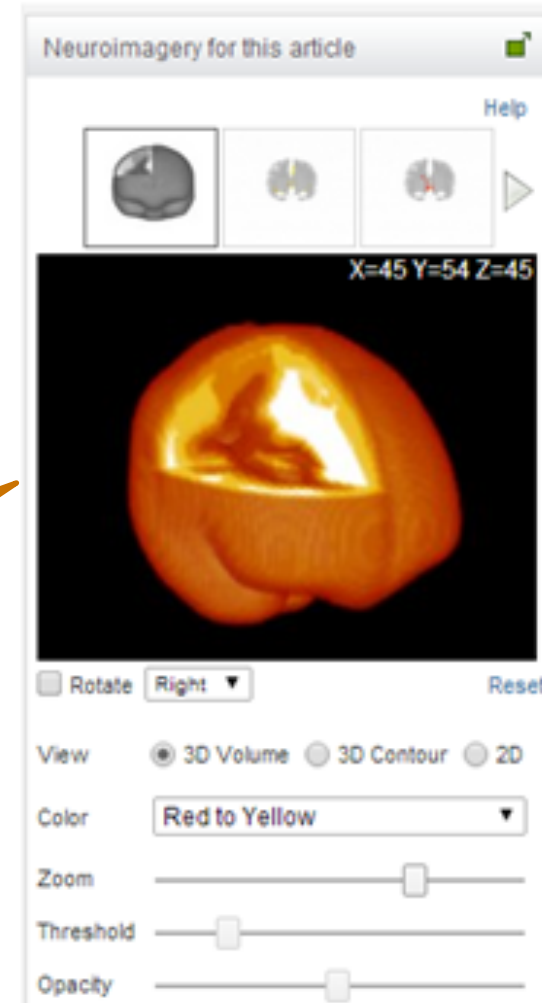
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<http://dx.doi.org/10.1016/j.neuroimage.2013.02.063>

Highlights

- Theories of decision making p
- Numerous fMRI studies have
- We quantitatively meta-analy
- We identify a "valuation system" in ventromedial PFC and ventral striatum.
- Other regions show a mixture of positive and negative effects across experiments.

In-article data visualization tools for 3D brain imagery data (e.g. fMRI)



Working Groups and Industry Standards

- **Joint Declaration of Data Citation Principles:** best-practices to cite data in articles for better linking and credit
- **Research Data Alliance & ICSU World Data System:** Tackling a broad range of interconnected issues around Data Publication (workflows, bibliometrics, cost recovery, services)



Summary

Polar Science – Scientific Article -

Welcome your new submission of original research paper



Data in the article

[Open science/data]

- Data repository -

→ Mendeley Data, ADS, -----



- Data journal -

→ *Data in Brief* (Elsevier)

→ *Polar Data Journal* (NIPR)