

Journal of Young Investigators

Celebrating Ten Years of Undergraduate Peer-Reviewed Science Publishing



BASIC FACTS ABOUT JYI

The Journal of Young Investigators (JYI) is an independent, non-profit, peer-reviewed, online science journal. JYI is managed entirely by and for undergraduate students from across the United States and abroad.

Recognizing the importance of science communication among scientists and with the general public, JYI believes that training in effective communication should be integral to science education. As the first national, hands-on attempt to provide such training for undergraduates, JYI is dedicated to publishing only undergraduate research and science feature articles and to involving undergraduates in every step of the writing, editing, and peer-review processes.

Since its founding in 1997, JYI has received financial and other support from the National Science Foundation, the Burroughs Wellcome Fund, Glaxo Wellcome Inc., Science Magazine, Science's Next Wave, Swarthmore College, Duke University, Georgetown University, and others. JYI's unique approach that supplements traditional undergraduate science education has been recognized in Science, Nature, EurekAlert!, Chemical Engineering News, The Chronicle on Higher Education, and The New York Times.

MISSION AND PURPOSE

JYI's mission complements current higher education initiatives that aim to make students' science education more experiential and research-oriented. JYI addresses the remainder of the research process: communicating one's research, reviewing and being reviewed by peers, writing about science for the general public, and other aspects of publishing and disseminating scientific information.

SCOPE

JYI publishes research and review articles in the biological & biomedical sciences, physical sciences & mathematics, engineering & applied sciences, and psychology & social sciences. Additionally, all published news and feature articles must also involve these fields in some manner.

STAFF

JYI is managed by a student Board of Directors, which directs the daily operations of the journal and runs JYI. The Board of Directors is advised by former alumni and the Board of Trustees, with representatives from academia, business, publishing, and the non-profit sector.

CONTACT INFORMATION

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FACTS & FIGURES *

Journal Founded: February 1997

Publication Frequency: Monthly

Research Manuscripts Published: 162

Feature Articles Published: 269

Volumes Published: 19

Issues Published: 103

Over 60,000 unique visits per month

Over 400,000 page views per month

Number of JYI Staff: 75

JYI Staff Institutions Represented: >50

Number of Countries Represented: 10
 (Australia, Canada, China, Ghana, India, Indonesia, Nepal, Singapore, UK, USA)

*as of 09/11/2009

JYI is a 501(c)(3) not-for-profit organization that is committed to the fundamental principle of equal opportunity and equal treatment for every prospective and current staff member, affiliate, author, or mentor. JYI does not discriminate on the basis of sex, gender identity, age, religion, race, color, national, or ethnic origin, disability, status of a disabled veteran or status of a covered-veteran in the administration of its policies, procedures, and operations of the organization, including and not strictly limited to article submission, journal publication, employment, or partnerships.

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PEER-REVIEW AND TECHNICAL WRITING PROGRAM

JYI provides the opportunity for students to write and review original research articles under the guidance of their faculty advisors. Although many students conduct research, few are co-authors of a published manuscript and even fewer participate in writing the manuscript. JYI actively encourages undergraduate authors to work with their research advisors to assemble, write, and submit a manuscript to JYI.

After submission, manuscripts enter JYI's peer-review process and are read by at least two undergraduate editors, who have been trained in how to review research articles and are required to work closely with their faculty advisors. Each student writes a standard review report, which is sent back to the author. The entire process promotes student-to-student and student-to-professor interactions, teaches students how to read and review research manuscripts, and improves science writing and communication for all students involved through feedback from JYI's editorial staff and their faculty advisors.

SCIENCE JOURNALISM PROGRAM

In 2001, JYI initiated a science journalism program, which has developed into a writing-intensive immersion into effective science writing for the general public. Students in the program compose a diverse array of articles on topics from science policy to recent discoveries.

To complement their writing experience, the undergraduates also edit news and feature articles written by other students in the program. Professional science writers from places such as The Howard Hughes Medical Institute, Lawrence Livermore National Laboratory, and the Journal of the American Medical Association serve as mentors to these undergraduate science journalists by reviewing articles and providing detailed, constructive feedback. The combined experience of writing and reviewing non-technical science writing prepares students for careers in science writing and as future contributors to a scientifically-literate public.

SAMPLE PUBLICATIONS**Research Articles:**

Computer Modeling of Physiological Conditions for Better Understanding of Intracranial Blood Pressure and Brain Vasculature
<http://www.jyi.org/research/re.php?id=1607>

Beta-catenin Mediated Wnt Signaling as a Marker for Characterization of Human Bone Marrow-Derived Connective Tissue Progenitor Cells
<http://www.jyi.org/research/re.php?id=190>

News & Features:

fMRI Lie Detection: Is there Science Behind Deception?
<http://www.jyi.org/features/ft.php?id=3510>

New Mathematical Formula Could Prevent Devastation from Tsunamis
<http://www.jyi.org/news/nb.php?id=3497>