



Genes | Genomes | Genetics

About G3

G3: Genes | Genomes | Genetics (ISSN 2160-1836) is an open-access, peer-reviewed and peer-edited journal published monthly by the Genetics Society of America (GSA). The journal seeks to serve the genetics community by providing an outlet for dissemination of findings and experimental resources in genetics and genomics—an outlet unrestricted by subjective editorial criteria of perceived significance or predicted breadth of interest. G3 is interested in publishing papers that describe useful, well-executed and lucidly-interpreted genetic studies of all kinds, from those involving microbes to humans, from individuals to populations, and from classic “wet lab” experimentation to the most recent innovations in bioinformatics.

Through a fair and rapid peer-review and publication process, G3 seeks to provide a unified home for reporting genome sequences, genetic and physical maps of organisms, mutant screens, QTL mapping, genome wide association studies, as well as many other important and useful datasets. The GSA through G3 recognizes its responsibility to enable documentation of reagents and resources, descriptions of high-quality foundational work in developing areas of genetics, and datasets for meta-analysis, to name a few.

Publication is open equally to members and nonmembers of the GSA. G3's articles are distributed under the terms of the Creative Commons Attribution 4.0 International License (<http://creativecommons.org/licenses/by/4.0/>), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited. For more information, please refer to our Instructions for Authors or contact the Editorial Office.

Submit manuscripts at
<http://submit.g3journal.org>

Website:
www.g3journal.org
ISSN 2160-1836

GSA Journals Editorial Office
Genetics Society of America
6120 Executive Blvd #550,
Rockville, MD 20852

Telephone:
(412) 226-5930

Fax:
(412) 226-5931

E-mail:
g3-gsa@thegsajournals.org

About the Cover

Confocal scan of the head of a *Drosophila simulans* Tana10 strain fly. Image: Pedro Gaspar. See Gaspar et al., pp 1005–1018.

Editor-in-Chief
Brenda Andrews
University of Toronto

Deputy Editor
Dirk-Jan de Koning
Swedish University of Agricultural
Sciences

Executive Editor
Tracey DePellegrin

Board of Senior Editors
Eduard Akhunov
Kansas State University

Editorial Board

Robert R. H. Anholt
Clemson University
Michelle Arbeitman
Florida State University
David A. Baltus
The University of Arizona
Danika L. Bannasch
University of California, Davis
Arash Bashirullah
University of Wisconsin-Madison
Judith Berman
University of Minnesota & Tel Aviv
University
Esther Betrán
University of Texas at Arlington
James A. Birchler
University of Missouri
Charles Boone
University of Toronto
Michael Boutros
DKFZ & Heidelberg University
Grant W. Brown
University of Toronto
Patrick J. Brown
University of California, Davis
Rita M. Cantor
University of California, Los Angeles
Susan E. Celniker
Lawrence Berkeley National
Laboratory
J. Michael Cherry
Stanford University
Barak A. Cohen
Washington University School of
Medicine
Josep M. Comeron
University of Iowa
Gloria M. Coruzzi
New York University
Kelly Dawe
University of Georgia
Gustavo A. de los Campos
Michigan State University
Job Dekker
University of Massachusetts
Medical School
Rebecca W. Doerge
Carnegie Mellon University
Andrew Doust
Oklahoma State University
Aimée M. Dudley
Pacific Northwest Research
Institute
Jay C. Dunlap
Dartmouth Medical School
Andrew Eckert
Virginia Commonwealth University
Mark Estelle
University of California, San Diego
Marie-Anne Félix
IBENS
Elizabeth R. Gavis
Princeton University
Cayetano Gonzalez
IRB Barcelona
Brian D. Gregory
University of Pennsylvania
David J. Gresham
New York University
Kris Gunsalus
New York University
Ryan Hernandez
University of California,
San Francisco
Jay R. Hesselberth
University of Colorado School of
Medicine

Charles S. Hoffman
Boston College
Ross Houston
The Roslin Institute
Emma Huang
Janssen Pharma R & D
Matthew Hufford
Iowa State University
Timothy R. Hughes
University of Toronto
Pär K. Ingvarsson
Swedish University of Agricultural
Sciences
Mattias Jakobsson
Uppsala University
Jean-Luc Jannink
USDA-ARS
Sue L. Jaspersen
Stowers Institute for
Medical Research
Andrew Kern
University of Oregon
John K. Kim
Johns Hopkins University
Yuseob Kim
Ewha Womans University
Éric Lécuyer
IRCM
Siu Sylvia Lee
Cornell University
Alexander E. Lipka
University of Illinois at Urbana-
Champaign
Susan Lott
University of California, Davis
Jianxin Ma
Purdue University
Jun Ma
Zhejiang University
Stuart J. Macdonald
The University of Kansas
Trudy Mackay
Clemson University
Daniel Macqueen
The Roslin Institute
Christian R. Marshall
The Hospital for Sick Children
Sarah Mathews
CSIRO
Tara C. Matise
Rutgers University
Andrew S. McCallion
Johns Hopkins University School
of Medicine
Kim S. McKim
Rutgers University
Todd Mockler
Donald Danforth Plant Science
Center
Peter L. Morrell
University of Minnesota
Geoffrey Morris
Kansas State University
Chad L. Myers
University of Minnesota
Brian Oliver
NIDDK, National Institutes of
Health
Fernando Pardo-Manuel de
Villena
University of North Carolina,
Chapel Hill
Isobel Parkin
Agriculture and Agri-Food Canada
Andrew H. Paterson
University of Georgia

David S. Fay
University of Wyoming
Susan L. Forsburg
University of Southern California
James B. Holland
USDA & North Carolina State University
Rob J. Kulathinal
Temple University
Howard D. Lipshitz
University of Toronto
Jeffrey Ross-Ibarra
University of California, Davis

Stephen Pearce
Colorado State University
James Prendergast
University of Edinburgh
Tanja Pyhäjärvi
University of Oulu
Bruce Reed
University of Waterloo
Nick Rhind
University of Massachusetts
Medical School
Jasper Rine
University of California, Berkeley
Matthew Rockman
New York University
Antonis Rokas
Vanderbilt University
Matthew S. Sachs
Texas A&M University
Helen K. Salz
Case Western Reserve University
David S. Schneider
Stanford University
Steve Scofield
USDA-ARS
Arun Sethuraman
California State University San Marcos
Shavannor M. Smith
University of Georgia
Marcus B. Smolka
Cornell University
Dina A. St. Clair
University of California, Davis
Lars M. Steinmetz
European Molecular Biology
Laboratory & Stanford University
Hidenori Tachida
Kyushu University
Jason Tennessee
Indiana University
Kevin R. Thornton
University of California, Irvine
David W. Threadgill
Texas A&M University
Sarah A. Tishkoff
University of Pennsylvania
Richard Todd
Kansas State University
Olga Troyanskaya
Princeton University
Mike Tyers
Université de Montréal
Joshua Udall
USDA-ARS
Marian Walhout
University of Massachusetts
Medical School
Mick Watson
University of Edinburgh
Jonathan F. Wendel
Iowa State University
Andrew Whitehead
University of California, Davis
Randall Wissler
University of Delaware
Alex Wong
Carleton University
José Manuel Yáñez
University of Chile
Monique Zetka
McGill University