



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
9650 Rockville Pike
Bethesda, MD 20814-3998

Telephone:
(412) 226-5930
Fax:
(412) 226-5931
E-mail:
g3-gsa@thegsajournals.org

About the Cover

Adult female *Ceratitidis capitata*, an economically important agricultural fruit pest. See Sim *et al.* 3637–3647. Image: Sheina Sim.

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

Katrien M. Devos
University of Georgia

Editorial Board

Eduard Akhunov
Kansas State University
Robert R. H. Anholt
North Carolina State University
Michael J. Axtell
Penn State University
Danika L. Bannasch
University of California, Davis
Arash Bashirullah
University of Wisconsin-Madison
Judith Berman
University of Minnesota & Tel Aviv University
James A. Birchler
University of Missouri
Charles Boone
University of Toronto
Michael Boutros
DKFZ & University of Heidelberg
Patrick J. Brown
University of Illinois at Urbana-Champaign
Rita M. Cantor
University of California, Los Angeles
Susan E. Celniker
Lawrence Berkeley National Laboratory
Aravinda Chakravarti
Johns Hopkins University School of Medicine
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
William S. Davidson
Simon Fraser University
Kelly Dawe
University of Georgia
Gustavo A. de los Campos
Michigan State University
Job Dekker
University of Massachusetts Medical School
Rebecca W. Doerge
Purdue University
Aimée M. Dudley
Pacific Northwest Diabetes Research Institute
Jay C. Dunlap
Dartmouth Medical School
Mark Estelle
University of California, San Diego
Justin D. Faris
USDA-ARS Cereal Crops Research Unit
David S. Fay
University of Wyoming
Justin C. Fay
Washington University in St. Louis

Elizabeth R. Gavis
Princeton University
Cayetano Gonzalez
IRB Barcelona
Brian D. Gregory
University of Pennsylvania
David J. Gresham
New York University
David J. Grunwald
The University of Utah
Kris Gunsalus
New York University
Jay R. Hesselberth
University of Colorado School of Medicine
Charles S. Hoffman
Boston College
James B. Holland
USDA & North Carolina State University
Ross Houston
The Roslin Institute
Emma Huang
Janssen Pharma R & D
Timothy R. Hughes
University of Toronto
Scott A. Jackson
University of Georgia
Mattias Jakobsson
Uppsala University
Jean-Luc Jannink
USDA ARS
Sue L. Jaspersen
Stowers Institute for Medical Research
Nicholas Katsanis
Duke University
John K. Kim
Johns Hopkins University
Yuseob Kim
Ewha Womans University
Siu Sylvia Lee
Cornell University
Jianxin Ma
Purdue University
Trudy Mackay
North Carolina State University
Christian R. Marshall
The Hospital for Sick Children
Andrew S. McCallion
Johns Hopkins University School of Medicine
Kim S. McKim
Rutgers 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

Susan L. Forsburg
University of Southern California

Rob J. Kulathinal
Temple University

Howard D. Lipshitz
University of Toronto

Jeffrey Ross-Ibarra
University of California, Davis

Series Editor

Lauren M. McIntyre
University of Florida

Isobel Parkin
Agriculture and Agri-Food Canada
Andrew H. Paterson
University of Georgia
Craig S. Pikaard
Indiana University
James Prendergast
University of Edinburgh
Bruce Reed
University of Waterloo
Jasper Rine
University of California, Berkeley
Antonios Rokas
Vanderbilt University
Matthew S. Sachs
Texas A&M University
Helen K. Salz
Case Western Reserve University
Michael J. Scanlon
Cornell University
David S. Schneider
Stanford University
Robert A. Sclafani
University of Colorado School of Medicine
Steve Scofield
USDA-ARS
Tanja Slotte
University of Stockholm
Shavannor M. Smith
University of Georgia
Marcus B. Smolka
Cornell University
Lars M. Steinmetz
European Molecular Biology Laboratory & Stanford University
Hidenori Tachida
Kyushu University
Kevin Thornton
University of California, Irvine
David W. Threadgill
Texas A&M University
Sarah A. Tishkoff
University of Pennsylvania
Olga Troyanskaya
Princeton University
Mike Tyers
Université de Montréal
Joshua Udall
Brigham Young University
Marian Walhout
University of Massachusetts Medical School
Mick Watson
University of Edinburgh
Jonathan F. Wendel
Iowa State University
Randall Wisser
University of Delaware
Monique Zetka
McGill University