



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](http://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](mailto:g3-gsa@thegsajournals.org)

## About the Cover

Testis histology of three extinct Collaborative Cross lines. The left column represents false-colored images learned from a neural network that is trained on 18 common textures appearing in testis, which are displayed in the middle column. The right column is a histology illustration with only one of these textures colored in white. See Shorter et al., GENETICS 557-572 for the related work, and explore the multiparental populations issue of GENETICS and G3 at [http://www.genetics.org/content/multiparental\\_populations](http://www.genetics.org/content/multiparental_populations). Image: Chia-Yu Kao for false coloring and John Shorter for concept and image selection.

### 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  
Susan L. Forsburg  
University of Southern California  
Howard D. Lipshitz  
University of Toronto  
Jeffrey Ross-Ibarra  
University of California, Davis

### Series Editor

Lauren M. McIntyre  
University of Florida

### Editorial Board

Eduard Akhunov Kansas State University	Cayetano Gonzalez IRB Barcelona	Isobel Parkin Agriculture and Agri-Food Canada
Michael J. Axtell Penn State University	Brian D. Gregory University of Pennsylvania	Andrew H. Paterson University of Georgia
Danika L. Bannasch University of California, Davis	David J. Gresham New York University	Craig S. Pikaard Indiana University
Arash Bashirullah University of Wisconsin-Madison	Erich Grotewold The Ohio State University	James Prendergast University of Edinburgh
Judith Berman University of Minnesota & Tel Aviv University	David J. Grunwald The University of Utah	Bruce Reed University of Waterloo
James A. Birchler University of Missouri	Kris Gunsalus New York University	Jasper Rine University of California, Berkeley
Charles Boone University of Toronto	Jay R. Hesselberth University of Colorado School of Medicine	Antonios Rokas Vanderbilt University
Michael Boutros DKFZ & University of Heidelberg	Charles S. Hoffman Boston College	Matthew S. Sachs Texas A&M University
Patrick J. Brown University of Illinois at Urbana-Champaign	James B. Holland USDA & North Carolina State University	Helen K. Salz Case Western Reserve University
Rita M. Cantor University of California, Los Angeles	Ross Houston The Roslin Institute	Michael J. Scanlon Cornell University
Susan E. Celniker Lawrence Berkeley National Laboratory	Emma Huang Janssen Pharma R & D	David S. Schneider Stanford University
Aravinda Chakravarti Johns Hopkins University School of Medicine	Timothy R. Hughes University of Toronto	Robert A. Schafani University of Colorado School of Medicine
J. Michael Cherry Stanford University	Scott A. Jackson University of Georgia	Steve Scofield USDA-ARS
Timothy J. Close University of California, Riverside	Mattias Jakobsson Uppsala University	Tanja Slotte University of Stockholm
Barak A. Cohen Washington University School of Medicine	Jean-Luc Jannink USDA-ARS	Shavannor M. Smith University of Georgia
Josep M. Comeron University of Iowa	Sue L. Jaspersen Stowers Institute for Medical Research	Marcus B. Smolka Cornell University
Gloria M. Coruzzi New York University	Stephen L. Johnson Washington University School of Medicine	Lars M. Steinmetz European Molecular Biology Laboratory & Stanford University
William S. Davidson Simon Fraser University	Nicholas Katsanis Duke University	Hidegori Tachida Kyushu University
Kelly Dawe University of Georgia	John K. Kim Johns Hopkins University	Kevin Thornton University of California, Irvine
Gustavo A. de los Campos Michigan State University	Yuseob Kim Ewha Womans University	David W. Threadgill Texas A&M University
Job Dekker University of Massachusetts Medical School	Rob J. Kulathinal Temple University	Sarah A. Tishkoff University of Pennsylvania
Rebecca W. Doerge Purdue University	Siu Sylvia Lee Cornell University	Olga Troyanskaya Princeton University
Aimée M. Dudley Pacific Northwest Diabetes Research Institute	Jianxin Ma Purdue University	Mike Tyers Université de Montréal
Jay C. Dunlap Dartmouth Medical School	Christian R. Marshall The Hospital for Sick Children	Joshua Udall Bringham Young University
Mark Estelle University of California, San Diego	Andrew S. McCallion Johns Hopkins University School of Medicine	Marian Walhout University of Massachusetts Medical School
Justin D. Faris USDA-ARS Cereal Crops Research Unit	Kim S. McKim Rutgers University	Mick Watson University of Edinburgh
David S. Fay University of Wyoming	Chad L. Myers University of Minnesota	Jonathan F. Wendel Iowa State University
Justin C. Fay Washington University in St. Louis	Brian Oliver NIDDK, National Institutes of Health	Randall Wisser University of Delaware
Elizabeth R. Gavis Princeton University	Fernando Pardo-Manuel de Villena University of North Carolina, Chapel Hill	Dani Zamir The Hebrew University of Jerusalem
		Monique Zetka McGill University