

Dominique C. Bergmann, PhD
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Howard Hughes Medical Institute Investigator

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PROFESSIONAL PREPARATION

U. California, Berkeley	Molecular and Cellular Biology	B.A. 1993
U. Colorado, Boulder	MCD Biology	PhD, 2000
Carnegie Institution	Plant Biology	postdoc 2000-2004

APPOINTMENTS

2015-present Professor of Biology, Stanford University
(2005-2011, Assistant professor; 2011-2015 Associate professor)

2013-present Stanford Cancer Institute member, Cancer Stem Cell Division

2011-present Investigator, Howard Hughes Medical Institute

2011-present Adjunct staff member, Carnegie Institution for Science, DPB

2011-present Affiliated faculty Stanford Institute for Stem Cell Biology and Regenerative Medicine

HONORS

2017 Elected to U.S. National Academy of Sciences

2016 Capital Science lecture, Washington D.C.

2011 Appointed GBMF-Howard Hughes Investigator

2010 Charles Albert Shull Award (American Society for Plant biology)

2010-2015 Presidential Early Career Award (PECASE)

2009-2014 NSF CAREER Award

2007 Hellman Faculty fellowship

2006-2011 Terman fellowship, Stanford University

Publications (10 selected from 60+)

Raissig, MT, Matos JL, Anleu Gil MX, Kornfeld A, Bettadapur A, Abrash E, Allison HR, Badgley G, Vogel JP, Berry JA, Bergmann DC (2017) Mobile MUTE specifies subsidiary cells to build physiologically improved grass stomata, **Science**, 355:1215-18 doi: 10.1126/science.aal3254

Bringmann M and DC Bergmann (2017) Tissue-wide mechanical forces influence the polarity of stomatal stem cells in Arabidopsis, **Current Biology**, 27:1-7 doi:10-1016/j.cub.2017.01.059

Ho, CMK, T Paciorek, E Abrash and DC Bergmann (2016) New regulators of stomatal lineage signal transduction alter membrane contact sites and reveal specialization among ERECTA kinases. **Developmental Cell**, 38(4):345-57. doi: 10.1016/j.devcel.2016.07.016

Raissig MT[†], Abrash E[†], Bettadapur A, Vogel JG, DC Bergmann (2016) Grasses use an alternatively wired BHLH network for stomatal development, **PNAS**, 113(29):8326-31. Doi: 10.1073/pnas.1606728113

Adrian, J, J. Chang, CE. Ballenger, BOR Bargmann J. Alassimone, KA Davies, OS Lau, JL Matos, C Hachez, A Lanctot, A. Vaten, KD Birnbaum and DC Bergmann (2015) Transcriptome dynamics of the stomatal lineage: birth, amplification and termination of a self-renewing population **Developmental Cell**, 33(1):107-18.

Lau, OS, KA. Davies, J. Chang, J. Adrian, MH Rowe, K. Ballenger and DC Bergmann (2014) Direct roles of SPEECHLESS in the specification of stomatal self-renewing cells. **Science**, 345:1605-9.

Matos, JD[†], C Hachez[†], OS Lau[†] and DC Bergmann (2014) FAMA provides stomatal lineage specificity to RETINOBLASTOMA RELATED-mediated division and differentiation programs in Arabidopsis, **eLIFE** 10.7554/eLife.03271

Dong J, CA MacAlister and DC Bergmann (2009) BASL controls asymmetric cell division in Arabidopsis. **Cell** 137(7):1320-30.

Lampard GR[†], CA MacAlister[†] and DC Bergmann (2008) Arabidopsis stomatal initiation is controlled by MAPK-mediated regulation of the bHLH SPEECHLESS. **Science** 322(5904):1113-6. [†]equal contribution

MacAlister CA, K Ohashi-Ito and DC Bergmann (2007) Transcription factor control of asymmetric cell divisions that establish the stomatal lineage. **Nature** 445:537-540.

SYNERGISTIC ACTIVITIES

2007-2010	Board of Directors, Society for Developmental Biology,
2010-2014	Board, North American Arabidopsis Steering Committee (President, 2014)
2015-2019	Scientific Advisory Board, Gregor Mendel Institute, Vienna, Austria
2012-present	Board of reviewing editors, ELife
2014-present	Editorial Board: Annual reviews in Genetics
2016-present	Editorial Board: Journal of Cell Biology
2007-present	Peer reviewer for NIH, NSF, DOE, USDA, ERC, BARD, BBSRC and other funding agencies (ad hoc and panels)
2017-2019	GRC Developmental Biology meeting organizer (co-Chair 2017; chair 2019)
2015	Organizer, FASEB Mechanisms in Plant Development, Saxton's River, VT

Supervised 12 PhD students (co-advised 6) and 20 postdocs at Stanford University (2005-2017)
Primary lecturer in Bio41 (2006-16) and Bio82 (2017), the largest courses in Stanford's Biology major.

Outreach to the broader community: Involved in numerous outreach projects with local schools (high school and undergraduate summer research interns), created materials for and advised San Jose's Tech museum and San Francisco's Exploratorium, designed materials used in rural high school "citizen science".

iBiology lectures (3 part series online link below)

<http://www.ibiology.org/ibioseminars/dominique-bergmann-part-1.html>

Public lectures at Lehigh University and Carnegie Capital lectures (Washington, DC) (online link)

http://library.fora.tv/2016/03/02/Making_a_Difference_How_to_Create_Stem_Cells_and_Have_their_Products_Change_the_World