

Biographical Sketch — Jeffrey Ross-Ibarra

(a) Professional Preparation

Institution	Area	Degree / Training	Dates
University of California Irvine	Genetics	Postdoctoral Research	2008
University of Georgia	Genetics	PhD	2006
University of California Riverside	Botany	BA, MS	1998, 2000

(b) Professional Appointments

Position	Institution	Dates
Professor	University of California Davis	2016-present
Associate Professor	University of California Davis	2012-2016
Assistant Professor	University of California Davis	2009-2012
Profesor de Asignatura	Universidad Nacional Autónoma de México	2001

(c) Products

Most Relevant to the Proposed Research

- **Gates DJ[§]**, Runcie D, Janzen GM, Romero Navarro A, Willcox M, Sonder K, Snodgrass SJ, Rodríguez-Zapata F, Sawers RJH, Rubén Rellín-Álvarez, Buckler ES, Hearne S, Hufford MB, **Ross-Ibarra J[§]**. Single-gene resolution of locally adaptive genetic variation in Mexican maize. doi: 10.1101/706739
- Anderson SN*, **Stitzer MC***, Brohammer A*, Zhou P, Noshay JM, Hirsch C, Hirsch C, Springer NM. (2019) Transposable elements contribute to dynamic genome content in maize. PLANT JOURNAL. doi: 10.1111/tpj.14489
- **Avila L**, May MR, **Ross-Ibarra J** (2018) DPP: Software to identify inversions from genotyping data. <https://cran.r-project.org/web/packages/DPP/index.html>
- **Yang J[§]**, **Mezmouk S***, Baumgarten A, Buckler ES, Guill KE, McMullen MD, Mumm RH, **Ross-Ibarra J[§]** (2017) Incomplete dominance of deleterious alleles contribute substantially to trait variation and heterosis in maize. PLOS GENETICS 13:e1007019
- **Renny-Byfield S[§]**, Rodgers-Melnick E, **Ross-Ibarra J[§]** (2017) Gene fractionation and function in the ancient subgenomes of maize. MBE 34:1825-1832

Additional Products

- **Mei W**, **Stetter MG**, **Gates DJ**, **Stitzer MC**, **Ross-Ibarra J[§]** (2018) Adaptation in plant genomes: bigger is different. AMERICAN JOURNAL OF BOTANY 105: 16-19
- Jiao Y, Peluso P, Shi J, Liang T, **Stitzer MC**, Wang B, Campbell M, Stein JC, Wei X, Chin C-S, Guill K, Regulski M, Kumari S, Olson A, Gent J, Schneider KL, Wolfgruber TK, May MR, Springer N, Antoniou E, McCombie R, Presting GG, McMullen M, **Ross-Ibarra J**, Dawe RK, Hastie A, Rank DR, Ware D (2017) Improved maize reference genome with single-molecule technologies. NATURE 546:524-527
- **Mezmouk S**, **Ross-Ibarra J[§]** (2014) The pattern and distribution of deleterious mutations in maize. (2014). G3 4:163-171
- Fang Z, **Pyhäjärvi T**, Weber AL, Dawe RK, Glaubitz JC, Sánchez González J, **Ross-Ibarra C**, Doebley J, Morrell PL[§], **Ross-Ibarra J[§]** (2012) Megabase-scale inversion polymorphism in the wild ancestor of maize. GENETICS 191:883-894
- Hollister JD, **Ross-Ibarra J**, Gaut BS (2010) Indel-associated mutation rate varies with mating system in flowering plants. MOLECULAR BIOLOGY AND EVOLUTION 27: 409-416.

(d) Synergistic Activities

- Stadler Mid-Career Award in Maize Genetics, 2016
- Senior Editor, G3
- Faculty Development Award in recognition of university service, 2015
- DuPont Young Professor 2012-2014 and faculty advisor DuPont Pioneer graduate student symposium in plant breeding 2012-present
- Presidential Early Career Award for Scientists and Engineers 2009