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

- **Stitzer MC**[§], Anderson SN, Springer NM, **Ross-Ibarra J** (2019) The Genomic Ecosystem of Transposable Elements in Maize. bioRxiv. doi: 10.1101/559922
- 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. bioRxiv. doi: 10.1101/547398
- 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
- Tenaillon MI, **Hufford MB**, Gaut BS, **Ross-Ibarra J**[§] (2011) Genome size and TE content as determined by high-throughput sequencing in maize and *Zea luxurians*. GENOME BIOLOGY AND EVOLUTION 3: 219-229
- Lockton S, **Ross-Ibarra J**, Gaut BS (2008) Demography and weak selection drive patterns of transposable element diversity in natural populations of *Arabidopsis lyrata*. PNAS 105: 13965-13970.

Additional Products

- Wei X, Anderson SN, Wang X, Yang L, Crisp PA, Li Q, Noshay J, Albert PS, Birchler JA, **Bilinski MC**, **Stitzer MC**, **Ross-Ibarra J**, Flint-Garcia S, Chen X, Springer NM, Doebley JF (2019) Hybrid decay: a transgenerational epigenetic decline in vigor and viability triggered in backcross populations of teosinte with maize. bioRxiv. doi: doi.org/10.1101/588715
- **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
- **Bilinski P**[§], Albert P, Berg JJ, Birchler JA, Grote M, **Lorant A**, **Quezada J**[‡], Swarts, K, **Yang J**, **Ross-Ibarra J**[§] (2018) Parallel altitudinal clines reveal adaptive evolution of genome size in *Zea mays*. PLOS GENETICS 14: e1007162
- Muñoz Diez C, Vitte C, **Ross-Ibarra J**, Gaut BS, Tenaillon MI (2012) Using nextgen sequencing to investigate genome size variation and transposable element content. *In* Grandbastien M-A, Casacuberta JM, editors. TOPICS IN CURRENT GENETICS v24: Plant Transposable Elements - Impact on Genome Structure & Function. pp. 41-58
- Studer A, Zhao Q, **Ross-Ibarra J**, Doebley J (2011) Identification of a functional transposon insertion in the maize domestication gene *tb1*. NATURE GENETICS 43:1160-1163.

(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