BIOGRAPHICAL SKETCH — JEFFREY ROSS-IBARRA

(a) Professional Preparation

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

(b) Professional Appointments

Position	Institution	Dates
Associate Professor	University of California Davis	2012-present
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

- Hufford MB, Lubinsky P, Pyhäjärvi T, Devengenzo MT, Ellstrand NC, **Ross-Ibarra J** (2013) The genomic signature of crop-wild introgression in maize. PLoS GENETICS 9(5): e1003477.
- Pyhäjärvi T, Hufford MB, Mezmouk S, **Ross-Ibarra J** (2013) Complex patterns of local adaptation in teosinte. GENOME BIOLOGY AND EVOLUTION 5: 1594-1609.
- Hufford MB, Xun X, van Heerwaarden J, Pyhäjärvi T, Chia J-M, Cartwright RA, Elshire RJ, Glaubitz JC, Guill KE, Kaeppler S, Lai J, Morrell PL, Shannon LM, Song C, Spinger NM, Swanson-Wagner RA, Tiffin P, Wang J, Zhang G, Doebley J, McMullen MD, Ware D, Buckler ES, Yang S, **Ross-Ibarra J** (2012) Comparative population genomics of maize domestication and improvement. NATURE GENETICS 44:808-811
- 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
- Hufford MB, Gepts P, **Ross-Ibarra J** (2011) Influence of cryptic population structure on observed mating patterns in the wild progenitor of maize (*Zea mays* ssp. *parviglumis*). MOLECULAR ECOLOGY 20: 46-55

Additional Products

- Chia J-M, Song C, Bradbury P, Costich D, de Leon N, Doebley JC, Elshire RJ, Gaut BS, Geller L, Glaubitz JC, Gore M, Guill KE, Holland J, Hufford MB, Lai J, Li M, Liu X, Lu Y, McCombie R, Nelson R, Poland J, Prasanna BM, Pyhäjärvi T, Rong T, Sekhon RS, Sun Q, Tenaillon M, Tian F, Wang J, Xu X, Zhang Z, Kaeppler S, **Ross-Ibarra J**, McMullen M, Buckler ES, Zhang G, Xu Y, Ware, D (2012) Maize HapMap2 identifies extant variation from a genome in flux. NATURE GENETICS 44:803-807
- van Heerwaarden J, **Ross-Ibarra J**, Doebley J, Glaubitz JC, Sánchez González J, Gaut BS, Eguiarte LE (2010) Fine scale genetic structure in the wild ancestor of maize (*Zea mays* ssp. *parviglumis*). MOLECULAR ECOLOGY 19: 1162-1173

- 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.
- **Ross-Ibarra J**, Tenaillon M, Gaut BS (2009) Historical divergence and gene flow in the genus Zea. GENETICS 181: 1399-1413.
- Gore MA, Chia JM, Elshire RJ, Sun Q, Ersoz ES, Hurwitz BL, Peiffer JA, McMullen MD, Grills GS, **Ross-Ibarra J**, Ware DH, Buckler ES (2009) A first-generation haplotype map of maize. SCIENCE 326: 1115-1117.

(d) Synergistic Activities

- DuPont Young Professor, 2012-2014
- Faculty advisor, Pioneer Hi-Bred graduate student symposium in plant breeding, 2012-present
- Functional Genetics of Maize Centromeres US-Mexico exchange program, 2011-present
- Presidential Early Career Award for Scientists and Engineers 2009
- Recent peer review:
  - Journals: Nature, Current Biology, Genetics, Scientific Reports, PNAS, Genome Research, Peerage of Science, PLoS ONE, PLoS Biology, PLoS Genetics, The Plant Journal, Nature Genetics
  - Grants: NSF BREAD, BARD, USDA-NIFA, USDA-DOE, UC MEXUS, NWO

(e) Coauthors, Advisees and Affiliations

Advisors

UC Riverside Norman Ellstrand; *U Georgia* James Hamrick; *UC Irvine* Brandon Gaut

Advisees

Postdoctoral: *Iowa State* Matthew Hufford; *Graduate U Advanced Studies* Shohei Takuno; *U Oulu* Tanja Pyhäjärvi, *KWS* Sofiane Mezmouk; Wageningen Joost van Heerwaarden; **Graduate:** Laura Vann, Dianne Velasco, Paul Bilinski, Anna O'Brien, Michelle Stitzer

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