

Jeffrey Ross-Ibarra

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Education

PhD Genetics, University of Georgia 2006
MS Botany, University of California Riverside 2000
BA Botany, University of California Riverside 1998

Academic Employment

Professor, Dept. Plant Sciences, University of California Davis 2016-present
Associate Professor, Dept. Plant Sciences, University of California Davis 2012-2016
Assistant Professor, Dept. Plant Sciences, University of California Davis 2009-2012
Postdoctoral Researcher (with BS Gaut), University of California Irvine 2006-2008
Profesor de Asignatura, Universidad Nacional Autónoma de México 2001

Selected Fellowships and Awards

Corn Pun Trophy, Genetics Society of America 2017
Stadler Mid-Career Excellence in Maize Genetics Award 2016
Faculty Development Award in recognition of university service 2015
DuPont Young Professor Award 2012
Presidential Early Career Award for Scientists and Engineers 2009
Dean's Award for Postdoctoral Excellence, UC Irvine 2008

Instruction and Advising

Current (total) advisees: 5 (16) postdoc, 4 (7) graduate, 2 (28) undergraduate
Instructor, Frontiers and Techniques in Plant Science, CSHL, July 2015
Genetics (UC Davis, BIS 101, undergraduate), 2013-present
Ecological Genomics (UC Davis, ECS243, graduate), 2014-present
Faculty advisor, Pioneer Hi-Bred/CAES graduate student symposium in plant breeding, 2012-present
Faculty advisor, US-Mexico graduate student exchange program, 2011-2015
Population and Quantitative Genetics (GGG 201D, graduate), 2010-2013
Plant Genetics (PLS 152, undergraduate), 2010-2011
Biología de Plantas I (undergraduate), UNAM, 2001

Service: selected from last 2 years

University

College review, NSF limited submission, 2018

Campus Disciplinary Peer Review Committee on sexual violence and sexual harassment, 2017-present

Campus Task Force on Bioinformatics, 2017-present

Campus High Performance Computing Advisory Committee, 2016-present

Section Chair for Agricultural Plant Biology, 2014-present

Plant Sciences executive committee, 2014-present

Maize Genetics awards committee (2017,2018)

Search committees: Dept. Chair of Plant Sciences (Chair, 2016), Climate Adaptation (2017-2018)

Dept. of Plant Sciences academic planning committee, 2010-2016, 2018-present

Professional

K-12 Outreach: Korematsu Elementary School, CA (2017); Shelburne Middle School, VA. (2017); Summit Hill Elementary, IL (2018); Espicencia, Spain (2018); Valleyview Middle School, NJ (2018)

Maize Genetics Awards Committee, 2017

External search committee, Dept. Plant Biology, Swedish University of Agricultural Sciences (2016)

Editorial Boards: Genes, Genomes, and Genetics (AE 2014-present, SE 2017-present), PLoS Genetics (2018-Present), PeerJ (2013-present, SE 2018-present), Axios Reviews (2013-2017), PNAS (Guest, 2018), eLife (Guest, 2016)

Journal peer review: Nature (4), Nature Genetics, eLife, Cell, Nature Communications, PNAS, PLoS Genetics, The Plant Cell, eLife, Current Biology, Genome Research, Trends in Plant Science (2), New Phytologist, Genome Biology & Evolution, Molecular Ecology (3), G3 (many), BMC Genomics (2), Plant Journal, Scientific Reports, Agriculture, Ecosystems and Environment

Proposal review: NSF (2016,2017 (2)), Swiss National Science Foundation (2016), GWIS (2016), Israeli Science Foundation (2016)

Current Funding

NSF Plant Genome Research Program: "The genetics of highland adaptation in maize" (PI), 2016-2021

NSF Plant Genome Research Program: "Biology of Rare Alleles" (Co-PI), 2013-2019

Invited Seminars: last 12 months

U. Georgia, Athens, Aug 2018

Science and Society public lecture, Woodland, Aug 2018

Fisher Biosciences, July 2018

Corteva Agriscience, Johnston, July 2018

Plenary Speaker, Maize Genetics Conference, Saint-Malo, France, Mar 2018

University of Paris-Saclay, Gif-sur-Yvette, France, Mar 2018

U. California, Davis, Mar 2018

Plant And Animal Genome Conference (two workshops), San Diego, Jan 2018

U. Nebraska, Lincoln, Nov 2017

U. Colorado, Boulder, Oct 2017

SMBE structural variation symposium, San Antonio, July 2017

Publications (lab members in bold, *equal contribution, †cover article, ‡undergraduate, §corresponding)

Preprints

O'Brien A[§], Sawers R, **Ross-Ibarra J**, Straus SY[§]. [Evolutionary responses to conditionality in species interactions across environmental gradients](#)

Stetter MG, Thornton K, **Ross-Ibarra J**. [Genetic architecture and selective sweeps after polygenic adaptation to distant trait optima](#)

In press or in print

75. **Stitzer MC**, **Ross-Ibarra J**. [Maize domestication and gene interaction](#) NEW PHYTOLOGIST
Citations: 0

74. Manchanda N, Snodgrass SJ, **Ross-Ibarra J**, Hufford MB (2018) Evolution and adaptation in the maize genome. *In THE ZEA MAYS GENOME*, Bennetzen, Flint-Garcia, Hirsch, Tuberosa (Eds.), Springer Nature Publishing *In Press*

73. Dawe RK, Lowry EG, Gent J, **Stitzer MC**, Higgins DM, **Ross-Ibarra J**, Wallace JG, Kanizay L, Alabady M, Wang N, Gao Z, Birchler J, Harkess AE, Hodges AL, Hiatt EN (2018) A novel maize kinesin causes neocentromere activity and meiotic drive, altering inheritance patterns across the genome. *CELL* 173: 839-850.
Citations: 0

72. Aburto-Oropeza O, Johnson A, Agha M, Allen E, Allen M, González JA, Arenas-Moreno DM, Beas R, Butterfield H, Caetano G, Caselle J, Casteñada Gaytán G, Castorani MCN, Anh Cat L, Cavanaugh K, Chambers JQ, Cooper RD, Arafeh-Dalmau N, Dawson T, Diaz de la Vega A, DiMento JFC, Domínguez S, Edwards M, Ennen J, Estrada-Medina H, Fierro N, Gadsden H, Galina-Tessaro P, Gibbons P, Goode EV, Gorris ME, Harmon T, Hecht SB, Heredia Frago MA, Hernández-Solano A, Hernández-Cortés D, Hernández-Carmona G, Hillard S, Huey RB, Hufford MB, Pàramo Figueroa VH, Jenerette D, Jiménez-Osornio J, López-Nava KJ, Lara R, Leslie H, Lopez-Feldman A, Luja V, Martínez-Méndez N, Mautz W, Medellín-Azuara J, Meléndez-Torres C, de la Cruz FRM, Micheli F, Miles D, Montagner G, Montañó-Moctezuma G, Müller J, Oliva P, Ortinez A, Ortiz Partida JP, Palleiro-Nayar J, Parnell PE, Raimondi P, Ramirez A, Randerson JT, Reed DC, Riquelme M, Torres TR, Rosen PC, **Ross-Ibarra J**, Sanchez-Cordero V, Sandoval-Solis S, Santos J, Sawers R, Sinervo B, Sites J, Sosa-Nishizaki O, Stanton T, Stapp J, Stewart J, Torre J, Torres-Moye G, Treseder KK, Valdez-Villavicencio JH, Jiménez FIV, Vaughn M, Welton L, Westphal MF, Woolrich-Piña G, Yunez-Naude A, Zertuche-González JA, Taylor JE (2018) Harnessing Cross-border Resources to Confront Climate Change. *ENVIRONMENTAL SCIENCE AND POLICY In Press*.
Citations: 0

71. **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(5): e1007162
Citations: 0

70. **Mei W, Stetter MG, Gates DJ, Stitzer MC, Ross-Ibarra J^S** (2018) Adaptation in plant genomes: bigger is different. *AMERICAN JOURNAL OF BOTANY* 105: 16-19
Citations: 0
69. Bukowski R, Guo X, Lu Y, Zou C, He B, Rong Z, Wang B, Xu D, Yang B, Xie C, Fan L, Gao S, Xu X, Zhang G, Li Y, Jiao Y, Doebley J, **Ross-Ibarra J, Lorant A, Buffalo V**, Romay MC, Buckler ES, Ware D, Lai J, Sun Q, Xu Y (2017) Construction of the third generation *Zea mays* haplotype map. *GIGASCIENCE* gix134
Citations: 11
68. Wang L, **Beissinger TM, Lorant A, Ross-Ibarra C, Ross-Ibarra J^S**, Hufford MB^S (2017) The interplay of demography and selection during maize domestication and diffusion. *GENOME BIOLOGY* 18:215
Citations: 5
67. **Yang J^S, Mezouk S***, Baumgarten A, Buckler ES, Guill KE, McMullen MD, Mumm RH, **Ross-Ibarra J^S** (2017) Incomplete dominance of deleterious alleles contribute substantially to trait variation and heterosis in maize. *PLoS GENETICS* 13:e1007019
Citations: 4
66. **Lorant A**, Pedersen S, Holst I, Hufford MB, Winter K, Piperno D, **Ross-Ibarra J^S** (2017) The potential role of genetic assimilation during maize domestication. *PLoS ONE* 12:e0184202
Citations: 1
65. Aguilar-Rangel MR, Chàvez Montes RA, Gonzalez-Segovia E, **Ross-Ibarra J**, Simpson JK, Sawers RJH (2017) Allele specific expression analysis identifies regulatory variation associated with stress-related genes in the Mexican highland maize landrace Palomero Toluqueño. *PEERJ* 5:e3737
Citations: 1
64. **Stetter MG^S, Gates DJ, Mei W, Ross-Ibarra J^S** (2017) How to make a domesticate. *CURRENT BIOLOGY* 27:R896-R900
Citations: 0
63. Swarts K, Gutaker RM, Schuenemann V, Benz B, Blake M, Bukowski R, Holland J, Kruse-Peeples M, Lepak N, Matson RG, Prim L, Romay C, **Ross-Ibarra J**, Sanchez J, Schmidt C, Sofro E, Krause J, Weigel D, Buckler ES, Burbano HA (2017) Genomic estimation of complex traits reveals ancient maize adaptation to temperate North America. *SCIENCE* 357:512-515
Citations: 5
62. **Bilinski P^S**, Han Y, Hufford MB, Lorant A, Zhang P, Jiang J, **Ross-Ibarra J^S** (2017) Diverse origins of high copy tandem repeats in grass genomes. *PLoS ONE* 12:e0177896
Citations: 0
61. 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
Citations: 39
60. **Renny-Byfield S^S**, Rodgers-Melnick E, **Ross-Ibarra J^S** (2017) Gene fractionation and function in the ancient subgenomes of maize. *MBE* 34:1825-1832

Citations: 4

59. **Velasco D**, Aradhya M, and **Ross-Ibarra J[§]** (2016) Evolutionary genomics of peach and almond domestication.. *G3* 6:3985-3993
Citations: 9
58. Ramos-Madrigal J, Smith BD, Moreno-Mayar JV, Gopalakrishnan S, **Ross-Ibarra J**, Gilbert MTP, Wales N (2016) Genome sequence of a 5310-year-old maize cob provides insights into the early stages of maize domestication. *CURRENT BIOLOGY* 26:3195-3201
Citations: 9
57. **Durvasula A^{‡*}**, Hoffman PJ*, **Kent TV[‡]**, Liu C, Kono TJY, Morrell PL[§], **Ross-Ibarra J[§]** (2016) ANGSD-wrapper. *MOLECULAR ECOLOGY RESOURCES* 16:1449-1454
Citations: 3
56. **Beissinger TM[§]**, Wang L, **Crosby K**, **Durvasula A[‡]**, Hufford MB, **Ross-Ibarra J[§]** (2016) Recent demography drives changes in linked selection across the maize genome. *NATURE PLANTS* 2:16084
Citations: 22
55. Wolfgruber TK, Nakashima MM, Schneider KL, Sharma A, Xie Z, Albert PS, Xu R, **Bilinski P**, Dawe RK, **Ross-Ibarra J**, Birchler JA, Presting G (2016) High quality maize centromere 10 sequence reveals evidence of frequent recombination events.. *FRONTIERS IN PLANT SCIENCE* 7
Citations: 9
54. Orozco-Ramírez Q, Santacruz-Varela A, **Ross-Ibarra J**, Brush B (2016) Maize diversity associated with social origin and environmental variation in southern Mexico.. *HEREDITY* 116:477-484.
Citations: 10
53. Gerke JP[§], Edwards JW, Guill KE, **Ross-Ibarra J[§]**, McMullen MD. The genomic impacts of drift and selection for hybrid performance in maize (2015). *GENETICS* 201: 1201âһ
Citations: 16
52. Sosso D, Luo D, Li Q-B, Sassse J, **Yang J**, Gendrot G, Suzuki M, Koch KE, McCarty DR, Chourey PS, Rogoswky PM, **Ross-Ibarra J**, Yang B, Frommer WB (2015) Seed filling in domesticated maize and rice depends on SWEET-mediated hexose transport.. *NATURE GENETICS* 47:1489-1493
Citations: 42
51. **Takuno S**, Ralph P, Swarts K, Elshire RJ, Glaubitz JC, Buckler ES, **Hufford MB**, **Ross-Ibarra J[§]** (2015) Independent molecular basis of convergent highland adaptation in maize.. *GENETICS* 200:1297-1312
Citations: 26
50. **Vann LE**, Kono T, **Pyhäjärvi T**, **Hufford MB[§]**, **Ross-Ibarra J[§]** (2015) Natural variation in teosinte at the domestication locus *teosinte branched1 (tb1)*.. *PEERJ* 3:e900
Citations: 4
49. Hake S, **Ross-Ibarra J** (2015) Genetic, evolutionary and plant breeding insights from the domestication of maize.. *eLIFE* 2015;4:e05861
Citations: 20
48. Fonseca RR, Smith B, Wales N, Cappellini E, Skoglund P, Fumagalli M, Samaniego JA, Caroe C, Avila-Arcos MC, Hufnagel D, Korneliussen TS, Vieira FG, Jakobsson M, Arriaza B, Willerslev E,

- Nielsen R, Hufford MB, Albrechtsen A, **Ross-Ibarra J**, Gilbert MT (2015) The origin and evolution of maize in the American Southwest.. *NATURE PLANTS* 1:14003
Citations: 50
47. Dyer GA, López-Feldman A, Yúnez-Naude A, Taylor JE, **Ross-Ibarra J** (2015) Reply to Brush *et al.*: A wake up call for crop conservation science. *PNAS* 112 (1), E2-E2 (letter).
Citations: 4
46. Makarevitch I, Waters M, West P, **Stitzer M**, **Ross-Ibarra J**, Springer NM (2015) Mobile elements contribute to activation of genes in response to abiotic stress.. *PLOS GENETICS* 11 (1): e1004915.
Citations: 106
45. Tiffin P, **Ross-Ibarra J** (2014) Advances and limits of using population genetics to understand local adaptation.. *TRENDS IN ECOLOGY AND EVOLUTION* 29:673-680
Citations: 108
44. **Bilinski P**, **Distor KD**, **Gutierrez-Lopez J**, **Mendoza Mendoza G**, Shi J, Dawe RK, **Ross-Ibarra J**[§] (2014) Diversity and evolution of centromere repeats in the maize genome.. *CHROMOSOMA* 0009-5915
Citations: 13
43. **Mezmouk S**, **Ross-Ibarra J**[§] (2014) The pattern and distribution of deleterious mutations in maize. (2014). *G3* 4:163-171
Citations: 26
42. Waters AJ, **Bilinski P**, Eichten SR, Vaughn MW, **Ross-Ibarra J**, Gehring M, Springer NM (2013) Comprehensive analysis of imprinted genes in maize reveals allelic variation for imprinting and limited conservation with other species.. *PNAS* 110:19639-19644
Citations: 46
41. **Pyhäjärvi T**, **Hufford MB**, **Mezmouk S**, **Ross-Ibarra J**[§] (2013) Complex patterns of local adaptation in teosinte.. *GENOME BIOLOGY AND EVOLUTION* 5: 1594-1609.[†]
Citations: 66
40. Wills DM, Whipple C, **Takuno S**, Kursel LE, Shannon LM, **Ross-Ibarra J**, Doebley JF (2013) From many, one: genetic control of prolificacy during maize domestication.. *PLOS GENETICS* 9(6): e1003604.
Citations: 42
39. McCouch S, Baute GJ, Bradeen J, Bramel P, Bretting PK, Buckler E, Burke JM, Charest D, Cloutier S, Cole G, Dempewolf H, Dingkuhn M, Feuillet C, Gepts P, Grattapaglia D, Guarino L, Jackson S, Knapp S, Langridge P, Lawton-Rauh A, Lijua Q, Lusty C, Michael T, Myles S, Naito K, Nelson RL, Pontarollo R, Richards CM, Rieseberg L, **Ross-Ibarra J**, Rounsley S, Hamilton RS, Schurr U, Stein N, Tomooka N, van der Knaap E, van Tassel D, Toll J, Valls J, Varshney RK, Ward J, Waugh R, Wenzl P, Zamir. (2013) Agriculture: Feeding the future.. *NATURE* 499:23-24
Citations: 203
38. **Hufford MB**, Lubinsky P, **Pyhäjärvi T**, **Devenganzo MT**[†], Ellstrand NC, **Ross-Ibarra J**[§] (2013) The genomic signature of crop-wild introgression in maize.. *PLOS GENETICS* 9(5): e1003477.
Citations: 119
37. **Provance MC**[§], Garcia Ruiz I, **Thommes C**[†], **Ross-Ibarra J** (2013) Population genetics and ethnobotany of cultivated *Diospyros riojae* Gómez Pompa (Ebenaceae), an endangered fruit crop from Mex-

ico.. GENETIC RESOURCES AND CROP EVOLUTION 60: 2171-2182.

Citations: 3

36. Melters DP*, Bradnam KR*, Young HA, Telis N, May MR, Ruby JG, Sebra R, Peluso P, Eid J, Rank D, Fernando Garcia J, DeRisi J, Smith T, Tobias C, **Ross-Ibarra J[§]**, Korf IF[§], Chan SW-L. (2013) Patterns of centromere tandem repeat evolution in 282 animal and plant genomes.. GENOME BIOLOGY 14:R10
Citations: 134
35. Kanizay LB, **Pyhäjärvi T**, Lowry E, **Hufford MB**, Peterson DG, **Ross-Ibarra J**, Dawe RK (2013) Diversity and abundance of the Abnormal chromosome 10 meiotic drive complex in *Zea mays*.. HEREDITY 110: 570-577.
Citations: 8
34. **Hufford MB**, Bilinski P, **Pyhäjärvi T**, **Ross-Ibarra J[§]** (2012) Teosinte as a model system for population and ecological genomics.. TRENDS IN GENETICS 12:606-615[†]
Citations: 32
33. 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
Citations: 12
32. **van Heerwaarden J[§]**, **Hufford MB**, **Ross-Ibarra J[§]** (2012) Historical genomics of North American maize.. PNAS 109: 12420-12425
Citations: 79
31. Swanson-Wagner R, Briskine R, Schaefer R, **Hufford MB**, **Ross-Ibarra J**, Myers CL, Tiffin P, Springer NM. Reshaping of the maize transcriptome by domestication. (2012). PNAS 109: 11878-11883
Citations: 68
30. **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, Springer 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[†]
Citations: 394
29. 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[†]
Citations: 362
28. 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
Citations: 40

27. Cook JP, McMullen MD, Holland JB, Tian F, Bradbury P, **Ross-Ibarra J**, Buckler ES, Flint-Garcia SA (2012) Genetic architecture of maize kernel composition in the Nested Association Mapping and Inbred Association panels. . *PLANT PHYSIOLOGY* 158: 824-834
Citations: 0
26. Morrell PL, Buckler ES, **Ross-Ibarra J**[§] (2012) Crop genomics: advances and applications. . *NATURE REVIEWS GENETICS* 13:85-96[†]
Citations: 287
25. 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.
Citations: 260
24. **van Heerwaarden J**[§], Doebley J, Briggs WH, Glaubitz JC, Goodman MM, Sánchez González JJ, **Ross-Ibarra J**[§] (2011) Genetic signals of origin, spread and introgression in a large sample of maize landraces. *PNAS* 108: 1088-1092
Citations: 220
23. **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
Citations: 11
22. 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
Citations: 115
21. Eckert AJ, **van Heerwaarden J**, Wegrzyn JL, Nelson CD, **Ross-Ibarra J**, González-Martínez SC, and Neale DB (2010) Patterns of population structure and environmental associations to aridity across the range of loblolly pine (*Pinus taeda* L, Pinaceae). . *GENETICS* 185: 969-982
Citations: 256
20. Fuchs EJ, **Ross-Ibarra J**[§], Barrantes G (2010) Reproductive biology of *Macleania rupestris*: a pollen-limited Neotropical cloud-forest species in Costa Rica. . *JOURNAL OF TROPICAL ECOLOGY* 26: 351-354
Citations: 5
19. Whitney KD, Baack EJ, Hamrick JL, Godt MJW, Barringer BC, Bennett MD, Eckert CG, Goodwillie C, Kalisz S, Leitch I, **Ross-Ibarra J** (2010) A role for nonadaptive processes in plant genome size evolution? . *EVOLUTION* 64: 2097-2109
Citations: 58
18. **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
Citations: 32
17. Shi J, Wolf S, Burke J, Presting G, **Ross-Ibarra J**, Dawe RK (2010) High frequency gene conversion in centromere cores. . *PLoS BIOLOGY* 8: e1000327
Citations: 76

16. 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.
Citations: 30
15. **van Heerwaarden J**, van Eeuwijk FA, **Ross-Ibarra J** (2010) Genetic diversity in a crop metapopulation. . *HEREDITY* 104: 28-39
Citations: 220
14. Gore MA*, Chia JM*, Elshire RJ, Sun Q, Ersoz ES, Hurwitz BL, Peiffer JA, McMullen MD, Grills GS, **Ross-Ibarra J**, Ware D, Buckler ES (2009) A first-generation haplotype map of maize. . *SCIENCE* 326: 1115-1117.
Citations: 561
13. **May MR[‡]**, **Provance MC**, Sanders AC, Ellstrand NC, **Ross-Ibarra J[§]** (2009) A pleistocene clone of Palmer's Oak persisting in Southern California. . *PLOS ONE* 4: e8346.
Citations: 22
12. Zhang LB, Zhu Q, Wu ZQ, **Ross-Ibarra J**, Gaut BS, Ge S, Sang T (2009) Selection on grain shattering genes and rates of rice domestication. . *NEW PHYTOLOGIST* 184: 708-720.
Citations: 97
11. **Ross-Ibarra J**, Tenaillon M, Gaut BS (2009) Historical divergence and gene flow in the genus *Zea*. . *GENETICS* 181: 1399-1413.
Citations: 111
10. **Ross-Ibarra J***, Wright SI*, Foxe JP, Kawabe A, DeRose-Wilson L, Gos G, Charlesworth D, Gaut BS (2008) Patterns of polymorphism and demographic history in natural populations of *Arabidopsis lyrata*. . *PLOS ONE* 3: e2411.
Citations: 140
9. 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.
Citations: 60
8. **Ross-Ibarra J[§]**, Gaut BS (2008) Multiple domestications do not appear monophyletic. *PNAS* 105: E105 (letter).
Citations: 18
7. Gaut BS, **Ross-Ibarra J** (2008) Selection on major components of angiosperm genomes. . *SCIENCE* 320: 484-486.
Citations: 65
6. **Ross-Ibarra J**, Morrell PL, Gaut BS (2007) Plant domestication, a unique opportunity to identify the genetic basis of adaptation. *PNAS* 104 Suppl 1: 8641-8648.
Citations: 249
5. **Ross-Ibarra J[§]** (2007) Genome size and recombination in angiosperms: a second look. . *JOURNAL OF EVOLUTIONARY BIOLOGY* 20: 800-806.
Citations: 29

4. Wares JP, Barber PH, **Ross-Ibarra J**, Sotka EE, Toonen RJ (2006) Mitochondrial DNA and population size. . *SCIENCE* 314: 1388-90 (letter).
Citations: 30
3. **Ross-Ibarra J**^S (2005) QTL and the study of plant domestication. . *GENETICA* 123: 197-204.
Citations: 28
2. **Ross-Ibarra J**^S (2004) The evolution of recombination under domestication: a test of two hypotheses. . *AMERICAN NATURALIST* 163: 105-112.
Citations: 67
1. **Ross-Ibarra J** (2003) Origin and domestication of chaya (*Cnidoscolus aconitifolius* Mill I. M. Johnst): Mayan spinach. . *MEXICAN STUDIES* 19: 287-302.
Citations: 9
- o. **Ross-Ibarra J**^S, Molina-Cruz A (2002) The ethnobotany of Chaya (*Cnidoscolus aconitifolius* ssp. *aconitifolius* Breckon): A nutritious Maya vegetable. . *ECONOMIC BOTANY* 56: 350-365.
Citations: 58
- o. Neel MC, **Ross-Ibarra J**, Ellstrand NC (2001) Implications of mating patterns for conservation of the endangered plant *Eriogonum ovalifolium* var. *vineum*. . *AMERICAN JOURNAL OF BOTANY* 88: 1214-1222.
Citations: 31