



American Association for the Advancement of Science  
Society for the Study of Evolution  
American Ornithologist's Society  
Wilson Ornithological Society  
Association of Field Ornithologists

## EXAMPLES OF SERVICE

- Meeting Co-Convenor-** "Second International Conference on Ancient DNA" (with N. Tuross, R. Fleischer and E. Bermingham). Three day meeting with 170 participants. 1993.
- Workshop Organizer-** "Collecting, Preserving and Accessioning Genetic Resources", 1999 meeting of the Society for the Preservation of Natural History Collections
- Course Faculty-** "Molecular Genetic Techniques for the Inventory and Characterization of Biodiversity" 1997-1999. A two-week intensive lecture and lab course, held annually at the Centro Internacional de Agricultura Tropical (CIAT) in Cali, Colombia. Sponsored by the Instituto von Humboldt.
- Workshop Panel-** National Science Foundation Workshop on Frozen Tissue Collections, 1983
- Grant Review-** National Science Foundation Programs in Systematic Biology, Population Biology, Anthropology, NERC, National Geographic Society, Smithsonian Scholarly Studies, Smithsonian Fellowships
- Paper Review-** Science, PNAS, Proceedings of the Royal Society, Evolution, Systematic Biology, Journal of Molecular Evolution, Molecular Ecology, Molecular Phylogenetics and Evolution, Journal of Heredity, Auk, Condor, Cotinga, numerous *ad hoc*, presubmission and tenure reviews
- Workshop Organizer-** "New Technological Developments for Field Ornithology", 1989 meeting of the American Ornithologist's Union
- Program Committee-** Fourth International Congress of Systematics and Evolutionary Biology, July 1990
- Editorial Board -** Molecular Phylogenetics and Evolution, 1992-2000
- Collections Committee-** American Ornithologist's Union, 1990-1995
- Councilor-** Association of Field Ornithologists, 2005-2010
- Lead-PI-** Frontiers in Phylogenetics Program, NMNH, 2010-2020.
- Chair, Steering Committee-** Smithsonian Initiative in Biodiversity Genomics, 2011-2012
- Coordinator-** "*Workshop on Sequence Capture for Next Generation Phylogenomics*" (with Brant Faircloth and Noor White). Five day workshop with 30 participants. 2012.
- Co-Organizer-** "*Next Generation DNA Sequencing: Transformative Technology for Biodiversity Science*" (with Marc Allard, FDA). Three day symposium with 120 participants. 2011.
- Co-Host-** "*Workshop on Comparative Genomics at the Smithsonian*" (with S. Brady, R. Fleischer, M. Cummings and S. Handley). Six day event with 85 participants. 2011.
- Co-Host-** "*Workshop on Molecular Evolution at the Smithsonian*" (with R. Fleischer, M. Cummings and S. Handley). A week long workshop with 80 participants. 2009.
- Co-Host-** "*Challenges for Large-scale Phylogeny and Alignment Estimation*" (with T. Warnow, R. Linder, M. Holder, E. Moriyama, J. Leebens-Mack). A 3-day workshop with 60 participants at the National Evolutionary Synthesis Center. 2011.
- Co-Host-** "*Sequence Alignment and Tree Estimation*" (with Tandy Warnow). A three-day symposium and workshop with 160 participants at NMNH. May 2012.
- Co-Organizer-** "*Genome-enabled Research on Manakins*" (with Bette Loiselle and 5 others). Three-day workshop with 25 participants, funded and hosted by the National Evolutionary Synthesis Center, Durham, NC. January 2013.

**Co-Organizer-** "*Genome-Scale Phylogenetics: Collecting the Data*" (with Charles Mitter, UMd). Two day symposium and workshop at NMNH with 230 participants. May 2013.  
**Co-Organizer-** "*Genome-scale Phylogenetics: Analysing the Data*" (with Guillermo Orti). One-day symposium at NMNH with seven invited speakers, 325 registrants, and over 1000 viewers tuning in to the live webcast or recorded podcast. Sept 2014.  
**Chair** - Senate of Scientists, National Museum of Natural History, 2016-2018.  
**Member-** Steering Committee, Smithsonian Conservation Commons, 2018-onward.

## FIELD RESEARCH

1977	Arizona - for Cornell Laboratory of Ornithology (1 month)
1979, 1981	Mexico - Research on speciation in towhees (2 months)
1979, 1980	Missouri, Louisiana - Research on speciation in chickadees (1 month)
1980 -1985	Peru, Panama, Costa Rica, Mexico (Total of 10 months)
1986	Australia (3 weeks)
1987	Peru (3 weeks)
1988	Texas (2 weeks)
1989	Mexico, Texas (1 month)
1990-2016	Panama, (12 research trips to study <i>Manacus</i> ; 6 months)
1992, 1993	Ecuador (2 trips; 3 weeks)
1994-2014	Guyana (10 general survey expeditions; 11 months)
1997-1999	Colombia (3 trips; 6 weeks)
2000-2014	Venezuela (6 trips, 11 weeks)
2008-2009	Mexico (10 weeks)
2013	Australia (4 weeks)

Total of 56 months on 62 trips to 10 countries

## MENTORSHIP

### Postdoctoral Fellows

Mara McDonald	1988-1989	Thomas Parsons	1989-1992
Jean Mariaux	1991-1992	Carey Krajewski	1989-1990
Patricia Gutierrez	1992-1993	Judith Rhymer	1989-1991
Kenneth Rosenberg	1993	Winston Hide	1991-1992
Kevin Winker	1994-1997	Scott Steppan	1996-1998
David McDonald	1994-1997	Andrew Mitchell	1998-1999
John Huelsenbeck	1997-1998	Nirmal Bhagabati	2000-2001
John Harshman	2000-2001	Wallace Holznagel	2001-2002
Tamaki Yuri	2002-2007	Brian Coyle	2012-2017
Haw Chuan Lim	2013-2017		

### Ph.D. Students

Patricia Sawaya	1988-1990	Gene Sattler	1988-1996
Travis Glenn	1991-1997	Robb Brumfield	1993-1999
Cindy Bronson	1995-2002	Sheila Reynolds	2002-2010
Sarah Kingston	2005-2012	Noor White	2011-2017
Kevin Bennett	2017-present	Shauna Rasband	2018-present

### M.S. Students

Karen Zeller	1988-1990	John Tschirky	1990-1993
Jon Bollback	1995-1998	Katherine Dryer	1998-2002
Kin-Lan Han	2003-2007	Brian Davidson	2006-2011

### Interns

Melissa Etheridge	1990	Rebecca Christie	1993
Meng-Keong Choo	1991	Ryan Ojerio	1993
Lawrence Lopez	1992	Ryan Bavis	1994-1995
Denise Waller	1993-1994	Dale Young	1997
Caryn Strupczewski	1998-1999	Heather Moncrief	2001
Meade Krosby	2002-2003	Huyen Nguyen	2008
Subir Shakya	2013	Elizabeth Reardon	2016

### RECENT GRANTS (\$25,000 and over)

**2002-2008** National Science Foundation. Early Bird: A collaborative project to resolve the deep nodes of avian phylogeny" (with S. Hackett, F. Sheldon, W. Moore, E. Braun, R. Kimball and D. Steadman). \$2.2 million total, \$312,000 to SI.

**2007-2009** Smithsonian Research Endowments. "Cryptic Gene Flow At Hybrid Zones: Patterns, Processes and Systematic Implications." \$25,000.

**2007-2011** National Science Foundation. "Collaborative Research: Large Scale Simultaneous Multiple Alignment and Phylogeny Estimation". With T. Warnow, R. Linder, and five others. \$124,301 to SI.

**2010-2013** NMNH Program Proposal Call. "Frontiers in Phylogenetics". **Braun** as lead PI, with co-PIs Ted Schultz, Jon Norenburg, Ken Wurdack, Sean Brady, Charles Mitter and Michael Cummings. \$150,000 over 3 years.

**2010** Smithsonian Grand Challenges Program. "Next generation sequencing: enabling transformative technology for biodiversity research and collections". **Michael Braun**, Seán Brady, Robert Fleischer, Owen McMillan, Kenneth Wurdack as lead PI's, with 19 co-PI's. \$70,000.

**2011** Smithsonian Scholarly Studies Program. "Adapting Next Generation Sequencing Technologies for Efficient Large-Scale Phylogenetics". **M. J. Braun**, P. Houde and E. Braun. \$65,000.

**2011** Smithsonian Grand Challenges Proposal Call. "Building the Framework of Biodiversity Science: Next Generation Phylogenomics". **M. J. Braun** as lead PI, with K. Wurdack, Jesus Maldonado, Kris Helgen, Bill Weislo, and Sean Brady as co-PI's. \$100,000 for 18 months.

**2012** National Evolutionary Synthesis Center (NESCent). "Genome-enabled Research on Manakins: A Catalysis Meeting". **Braun** as co-PI, with 6 others. ~\$60,000.

- 2013** Smithsonian Competitive Grants Program for Science. "Origins of the Tepui Highland Avifauna: a Comparative Phylogeographic Approach." **Braun** as PI, with Jorge Perez-Eman and Julie Hebert. \$100,000.
- 2014** Smithsonian Grand Challenges Proposal Call. " Comprehensive Recovery Planning for the Endangered Red Siskin ". **Braun** as Lead PI, with 7 co-PIs. \$25,000.
- 2014** Smithsonian Grand Challenges Proposal Call. "Biodiversity Genomics Exemplar Projects". **Braun** as co-PI, with 11 others. \$75,000.
- 2014** Smithsonian Competitive Grants Program for Science. " Genomic Architecture of Speciation in an Avian Hybrid Zone Characterized by Sexually-Selected Brilliant Male Plumage." **Braun** as Lead PI with H.C. Lim. \$100,000.
- 2014** Smithsonian Grand Challenges Proposal Call. " Coffee to the Rescue: Using Captive Breeding, Conservation Genomics and Sustainable Agroforestry to Recover an Endangered Bird". **Braun** as Lead PI with 8 co-PIs. \$65,000.
- 2015** NSF Division of Environmental Biology. "RCN: Enabling Comparative Studies of the Process and Products of Sexual Selection in a Genomic Context". **Braun** as co-PI with 5 others. **\$500,000** over 5 years.
- 2015** NSF Division of Environmental Biology. "DISSERTATION RESEARCH: Unraveling the Evolutionary History of Nocturnality on the Avian Tree of Life ". **Braun** as co-PI with 2 others. **\$16,375**.
- 2015** Smithsonian James Bond Fund. "Conservation of the highly endangered Red Siskin (*Sporagra cucullata*): Assessing the origin and status of "ghost" populations in the Caribbean." **Braun** as co-PI with 2 others. **\$70,837**.
- 2015** NMNH Program Call. "Frontiers in Phylogenetics Renewal." **Braun** as Lead PI with 9 co-PIs. **\$60,000**.
- 2015** BAND Foundation. "The Red Siskin Recovery Project". **Braun** as PI with 2 co-PIs. **\$40,000**.
- 2016** National Science Foundation. "Construction of Research Aviaries at the Smithsonian Tropical Research Institute." **Braun** as participant with 2 others. **\$114,427**.
- 2017** US Fish and Wildlife Service, International Programs. "*Evitar eliminación de cafetales que son "hábitats seguros" para aves migratorias y para futuras reintroducciones del Cardenalito (Sporagra cucullata).*" With Brian Coyle, Bob Rice at SCBI and colleagues from Provita in Venezuela. **\$32,780**.
- 2019** NMNH Research Grant Program for Science- "*Consequences of Sexual Selection on Trait Evolution in an Avian Hybrid Zone.*" **Braun as PI**, with Kevin Bennett as Co-PI. **\$138,292 awarded**.

**2019** USFWS Neotropical Bird Conservation Act Program- “Migratory Bird Conservation via Shade Crop Farming (II).” **Braun as Key Individual** with 14 others. **\$123,392 awarded from USFWS, \$70,000 matching from SI Provost’s Office**, total project budget ~\$500K with matching from other units and organizations.

**2010-2017** Eleven other small grants ranging from \$1000-\$25,000.

### PEER-REVIEWED PUBLICATIONS

**According to Google Scholar, my publications have been cited 3600 times in the last 5 years and 9542 times in my career. My h-index is 42 and my i10-index is 74.**

**Submitted.** H. C. Lim, S. B. Shakya, M. G. Harvey, R. G. Moyle, R. C. Fleischer, **M. J. Braun** and F. H. Sheldon. Opening the door to greater phylogeographic inference in continental Southeast Asia: Comparative study of five co-distributed rainforest bird species using target capture and historical DNA. Submitted to *Molecular Ecology* 23 July 2019.

**2019** N. D. White and **M. J. Braun**. Extracting Phylogenetic Signal from Phylogenomic Data: Higher-Level Relationships of the Nightbirds (Strisores). *Molecular Phylogenetics and Evolution* 141: 15 pp. <https://doi.org/10.1016/j.ympev.2019.106611>.

**2019** A. Chen, N. D. White, R. B. J. Benson, **M. J. Braun** and D. J. Field. Total-evidence framework reveals complex morphological evolution in nightbirds (Strisores). *Diversity*: 11 (9), 143: 34 pp. <https://www.mdpi.com/1424-2818/11/9/143>.

**2019** Kimball, R. T., C. H. Oliveros, N. Wang, N. D. White, F. K. Barker, D. J. Field, D. T. Ksepka, R. T. Chesser, R. G. Moyle, **M. J. Braun**, R.T. Brumfield, B. C. Faircloth, B. T. Smith, and E. L. Braun. A phylogenomic super tree of birds. *Diversity* 11:109: 35 pp. <https://www.mdpi.com/1424-2818/11/7/109>.

**2019** Oliveros C. H., D. J. Field, D. T. Ksepka, F. K. Barker, A. Aleixo, M. J. Andersen, P. Alström, B. W. Benz, E. L. Braun, **M. J. Braun**, G. A. Bravo, R. T. Brumfield, R. T. Chesser, S. Claramunt, J. Cracraft, A. M. Cuervo, E. P. Derryberry, T. C. Glenn, M. G. Harvey, P. A. Hosner, L. Joseph, R. T. Kimball, A. L. Mack, C. M. Miskelly, A. T. Peterson, M. B. Robbins, F. H. Sheldon, L. F. Silveira, B. T. Smith, N. D. White, R. G. Moyle, and B. C. Faircloth. Earth history and the passerine superradiation. *PNAS* 116:7916-7925. <https://www.pnas.org/content/pnas/116/16/7916.full.pdf>.

**2019** Sánchez-Mercado, A., A. Cardozo-Urdaneta, L. Moran, L. Ovalle, M. Á. Arvelo, J. Morales-Campos, B. Coyle, M. J. Braun, K. M. Rodríguez-Clark. Social network analysis reveals specialized trade in an Endangered songbird. *Animal Conservation* 2019: 13 pp. <https://zslpublications.onlinelibrary.wiley.com/doi/epdf/10.1111/acv.12514>.

**2019** Tamashiro, R., N. D. White, **M. J. Braun**, B. Faircloth, E. L. Braun and R. Kimball. What are the roles of taxon sampling and model fit in tests of cyto-nuclear discordance using avian mitogenomic data? *Molecular Phylogenetics and Evolution* 130:132-142.

**2018** Rodríguez-Clark, K. M., B. Davidson, S. Kingston, B. J. Coyle, C. Huddleston, P. Duchesne and **M. J. Braun**. Evaluating potential founders for *ex situ* conservation

- efforts: the case of Red Siskins (*Spinus cucullatus*). *Endangered Species Research* 36:183-196. <https://doi.org/10.3354/esr00898>.
- 2018** Sánchez-Mercado, A., K. M. Rodríguez-Clark, J. Miranda, J.R. Ferrer-Paris, B. Coyle, S. Toro, A. Cardozo-Urdaneta and **M. J. Braun**. How to deal with ground truthing affected by human-induced habitat change? Identifying high-quality habitats for the Critically Endangered Red Siskin. *Ecology and Evolution* 8:841-851. DOI: 10.1002/ece3.3628
- 2018** Costa, T. V. V., B. M. Whitney, **M. J. Braun**, N. D. White, L. F. Silveira, and N. Cleere. A systematic reappraisal of the Rufous Potoo (*Nyctibius bracteatus* Gould, 1846) (Nyctibiidae) and description of a new genus. *Journal of Ornithology* 159:367-377. doi.org/10.1007/s10336-017-1511-2.
- 2017** Reddy, S., R. T. Kimball, A. Pandey, P. A. Hosner, **M. J. Braun**, K.-L. Han, J. Harshman, S. J. Hackett, C. J. Huddleston, S. Kingston, B. D. Marks, K. J. Miglia, W. S. Moore, F. H. Sheldon, C. C. Witt, T. Yuri, and E. L. Braun. Why do phylogenomic data sets yield conflicting trees? Data type influences the avian tree of life more than taxon sampling. *Systematic Biology* 66(4):857–879.
- 2017** Kingston, S. E., T. L. Parchman, Z. Gompert, C. A. Buerkle, and **M. J. Braun**. Heterogeneity and concordance in locus-specific differentiation and introgression between species of towhees. *Journal of Evolutionary Biology* 30: 474-485 (doi: 10.1111/jeb.13033).
- 2017** White, N. D., C. W. Mitter and **M. J. Braun**. Ultraconserved Elements Resolve the Phylogeny of Potoos (Aves: Nyctibiidae). *Journal of Avian Biology* 48: 872-880 (doi: 10.1111/jav.01313).
- 2017** Arvelo, M., **M. J. Braun**, B. J. Coyle, S. Davis, Z. Diaz, J. Fink, W. Lynch, P. Hansen, P. Marinari, J. Miranda, S. Monfort, L. Ovalle-Moleiro, J. P. Rodríguez, K. M. Rodríguez-Clark, A. Rodríguez-Ferraro, E. Royer, A. Y. Sánchez-Mercado, B. Sucre. The Red Siskin Initiative: Saving an endangered finch in partnership with aviculturists. Pp. 45-66 in *Finches '17: White Papers from the Sixth International Finch Convention*. Queensland Finch Society, Ltd., Brisbane.
- 2016** White, N. D., G. F. Barrowclough, J. G. Groth and **M. J. Braun**. A multi-gene estimate of higher-level phylogenetic relationships among nightjars (Aves: Caprimulgidae). *Ornitología Neotropical* 27:223-236.
- 2016** Lim, H. C. and **M. J. Braun**. High-throughput SNP genotyping of historical and modern samples of five bird species via sequence capture of ultraconserved elements. *Molecular Ecology Resources* 16:1204-1223 (doi: 10.1111/1755-0998.12568).
- 2014** Jarvis, E. D., and 104 others including **M. J. Braun**. Whole Genome Analyses Resolve Early Branches in the Tree of Life of Modern Birds. *Science* 346:1320-1331.
- 2014** Reynolds, S. M., J. A. C. Uy, G. Patricelli, S. Coleman, **M. J. Braun** and G. Borgia. Tests of the kin selection model of mate choice and inbreeding avoidance in satin bowerbirds. *Behavioral Ecology* 25:1005-1014 (doi:10.1093/beheco/aru065).
- 2014** Kingston, S. E., A. G. Navarro-Sigüenza, E. A. García-Trejo, H. Vázquez-Miranda, W. F.

- Fagan, and **M. J. Braun**. Genetic differentiation and habitat connectivity across towhee hybrid zones in Mexico. *Evolutionary Ecology* 28: 277-297.
- 2013** Davidson, B. S., G. D. Sattler, S. Via and **M. J. Braun**. Reproductive isolation and cryptic introgression in a sky island enclave of Appalachian birds. *Ecology and Evolution* 3(8): 2485– 2496.
- 2013** Parchman, T. L., Z. Gompert, **M. J. Braun**, R. Brumfield, D. B. McDonald, J. A. C. Uy, G. Zhang, E. D. Jarvis, B. A. Schlinger and C. A. Buerkle. The genomic consequences of adaptive divergence and reproductive isolation between species of manakins. *Molecular Ecology* 22: 3304-3317.
- See also the related News and Views commentary:** Yeaman, S. 2013. Hybridization and the porous genome: patterns of isolation and introgression in manakins. *Molecular Ecology* 22:3195-3197.
- 2013** Yuri, T., R. Kimball, J. Harshman, R. Bowie, **M. J. Braun**, J. Chojnowski, K-L. Han, S. Hackett, C. Huddleston, W. Moore, S. Reddy, F. Sheldon, D. Steadman, C. Witt & E. Braun. Parsimony and model-based analyses of indels in avian nuclear genes reveal congruent and incongruent phylogenetic signals. *Biology* 2(1): 419–444.
- 2012** Pravosudov, V. V., T. C. Roth II, M.L. Forister, L. D. LaDage, T. M. Burg, **M. J. Braun**, B. S. Davidson. Population genetic structure and its implications for adaptive variation in memory and the hippocampus on a continental scale in food-caching black-capped chickadees. *Molecular Ecology* 21: 4486-4497.
- 2012** Kingston, S. E., R. W. Jernigan W. F. Fagan, D. Braun and **M. J. Braun**. Genomic variation in cline shape across a hybrid zone. *Ecology and Evolution* 2(11): 2737-2748 (doi: 10.1002/ece3.375).
- 2011** Braun, E. L., R. T. Kimball, K.-L. Han, N. R. Iuhasz, A. J. Bonilla, J. L. Chojnowski, J. V. Smith, R. C. K. Bowie, **M. J. Braun**, S.J. Hackett, J. Harshman, C. J. Huddleston, B. D. Marks, K. J. Miglia, W. S. Moore, S. Reddy, F. H. Sheldon, C. C. Witt, T. Yuri. Homoplastic microinversions and the avian tree of life. *BMC Evolutionary Biology* 11:141 (10 pages). <http://www.biomedcentral.com/1471-2148/11/141>.  
**Recognized by BioMed Central as a "Highly Accessed" article in Sept 2011.**
- 2011** Han K. L., E. L. Braun, R. T. Kimball, S. Reddy, R. C. K. Bowie, **M. J. Braun**, J. L. Chojnowski, S. J. Hackett, J. Harshman, C. J. Huddleston, B. D. Marks, K. J. Miglia, W. S. Moore, F. H. Sheldon, D. W. Steadman, C. C. Witt, and T. Yuri. Are Transposable Element Insertions Homoplasmy Free? An Examination Using the Avian Tree of Life. *Systematic Biology* 60(3): 375-86.
- 2010** Han, K.-L., M. B. Robbins and **M. J. Braun**. A multi-gene estimate of phylogeny in the nightjars and nighthawks (Caprimulgidae). *Molecular Phylogenetics and Evolution* 55: 443-453.
- 2010** **Braun, M. J.**, and C. J. Huddleston. Response to Mayr and Manegold. *Molecular Phylogenetics and Evolution* 55: 345-346.

- 2010** Olson, J. R., S. J. Cooper, D. L. Swanson, **M. J. Braun**, and J. B. Williams. The relationship of metabolic performance and distribution in Black-capped and Carolina Chickadees. *Physiological and Biochemical Zoology* 83: 263-275.
- 2009** Yuri, T., R. W. Jernigan, R. T. Brumfield, N. K. Bhagabati, and **M. J. Braun**. The effect of marker choice on estimated levels of introgression across an avian (Pipridae: *Manacus*) hybrid zone. *Molecular Ecology* 18: 4888-4903.
- 2009** **Braun, M. J.**, and C. J. Huddleston. A molecular phylogenetic survey of caprimulgiform nightbirds illustrates the utility of non-coding sequences. *Molecular Phylogenetics and Evolution* 53: 948-960.
- 2009** Kimball, R. T., E. L. Braun, F. K. Barker, R. C. K. Bowie, **M. J. Braun**, J. L. Chojnowski, S. J. Hackett, K.-L. Han, J. Harshman, V. Heimer-Torres, W. Holznagel, C. J. Huddleston, B. D. Marks, K. J. Miglia, W. S. Moore, S. Reddy, F. H. Sheldon, J. V. Smith, C. C. Witt, and T. Yuri. A well-tested set of primers to amplify regions spread across the avian genome. *Molecular Phylogenetics and Evolution* 50: 654-660.
- 2009** Reynolds, S. M., M. C. Christman, J. A. C. Uy, G. L. Patricelli, **M. J. Braun**, and G. Borgia. Lekking satin bowerbird males aggregate with relatives to mitigate aggression. *Behavioral Ecology* 20(2): 410-415.
- 2009** Meares, K., D. A. Dawson, G. J. Horsburgh, T. C. Glenn, K. L. Jones, **M. J. Braun**, M. R. Perrin and T. D. Taylor. Microsatellite loci characterized in three African crane species (Gruidae, Aves). *Molecular Ecology Resources* 9: 308–311.
- 2008** Harshman, J.\* , E. L. Braun\*, **M. J. Braun\***, C. J. Huddleston, R. C. K. Bowie, J. L. Chojnowski, S. J. Hackett, K.L. Han, R. T. Kimball, B. D. Marks, K. J. Miglia, W. S. Moore, S. Reddy, F. H. Sheldon, D. W. Steadman, S. J. Steppan, C. C. Witt, T. Yuri. Phylogenomic evidence for multiple losses of flight in ratite birds. *Proceedings of the National Academy of Science USA* 105: 13462-13467.
- \*These authors contributed equally to the production of the manuscript.
- 2008** Hackett, S.J., Kimball, R.T., Reddy, S., Bowie, R.C.K., Braun, E.L., **Braun, M.J.**, Chojnowski, J.L., Cox, W.A., Han, K., Harshman, J., Huddleston, C.J., Marks, B.D., Miglia, K.J., Moore, W.S., Sheldon, F.H., Steadman, D.W., Witt, C.C. and Yuri, T. A phylogenomic study of birds reveals their evolutionary history. *Science* 320: 1763-1768.
- 2008** Yuri, T., R. T. Kimball, E. L. Braun and **M. J. Braun**. Duplication and accelerated evolution of growth hormone gene in passerine birds. *Molecular Biology and Evolution* 25: 352-361.
- 2007** Robbins, M. B., **M. J. Braun**, C. M. Milensky, B. K. Schmidt, W. Prince, N. H. Rice, D. W. Finch and B. J. O’Shea. Avifauna of the upper Essequibo River and Acary Mountains, Southern Guyana. *Ornitologia Neotropical* 18: 339-368.
- 2007** Reynolds, S. M., K. Dryer, J. Bollback, J. A. C. Uy, G. L. Patricelli, T. Robson, G. Borgia and **M. J. Braun**. Behavioral paternity predicts genetic paternity in Satin

- Bowerbirds (*Ptilonorhynchus violaceus*), a species with a non-resource-based mating system. *Auk* 124(3): 857-867.
- 2007** **Braun, M. J.**, D. W. Finch, M. B. Robbins and B. K. Schmidt. *A Field Checklist of the Birds of Guyana, 2nd Ed.* Smithsonian Institution, Washington, D.C.
- 2007** Cleere, N., A. W. Kratter, D. W. Steadman, **M. J. Braun**, C. J. Huddleston and C. E. Filardi. A new genus of frogmouth (Podargidae) from the Solomon Islands – results from a taxonomic review of *Podargus ocellatus inexpectatus* Hartert 1901. *Ibis* 149: 271-286.
- 2007** Sattler, G. D., P. Sawaya and **M. J. Braun**. An assessment of song admixture as an indicator of hybridization in Black-capped Chickadees (*Poecile atricapillus*) and Carolina Chickadees (*P. carolinensis*). *Auk* 124: 926-944.
- 2005** Bronson, C. L., T. C. Grubb, Jr., G. D. Sattler, and **M. J. Braun**. Reproductive success across the Black-capped (*Poecile atricapillus*) and Carolina chickadee (*P. carolinensis*) hybrid zone in Ohio. *Auk* 122: 759-772.
- 2005** Helbig, A. J., A. Kocum, I. Seibold and **M. J. Braun**. A multi-gene phylogeny of Aquiline eagles (Aves: Accipitriformes) reveals extensive paraphyly at the genus level. *Molecular Phylogenetics and Evolution* 35:147-164.
- 2005** **Braun, M. J.**, M. L. Isler, P. R. Isler, J. M. Bates and M. B. Robbins. Avian speciation in the Pantepui: The case of the Roraiman Antbird (*Percnostola*[*Schistocichla*] "*leucostigma*" *saturata*). *Condor* 107: 329-343.
- 2005** Robbins, M. B., **M. J. Braun**, Christopher J. Huddleston, Davis W. Finch, & Christopher M. Milensky. First Guyana records, natural history, and systematics of the White-naped Seedeater (*Dolospingus fringilloides*). *Ibis* 147: 334-341.
- 2004** Robbins, M. B., **M. J. Braun** and D. W. Finch. Avifauna of the Guyana southern Rupununi, with comparisons to other savannas of northern South America. *Ornitologia Neotropical* 15:173-200.
- 2004** Cracraft, J., F. K. Barker, **M. J. Braun**, J. Harshman, G. Dyke, J. Feinstein, S. Stanley, A. Cibois, P. Schikler, P. Beresford, J. García-Moreno, M. D. Sorenson, T. Yuri, and D. P. Mindell. "Phylogenetic relationships among modern birds (Neornithes): Toward an avian tree of life", Chap. 27 in *Assembling the Tree of Life*, Cracraft, J. and M. J. Donoghue (eds.). Oxford Univ. Press, New York. Pp. 468-489.
- 2003** Robbins, M. B., **M. J. Braun** and D. W. Finch. Discovery of a population of the endangered Red Siskin (*Carduelis cucullata*) in Guyana. *Auk* 120: 291-298.
- 2003** Harshman, J., C. J. Huddleston, J. P. Bollback, T. J. Parsons, and **M. J. Braun**. True and false gharials: a nuclear gene phylogeny of Crocodylia. *Systematic Biology* 52: 386-402.
- 2003** **Braun, M. J.**, M. B. Robbins, C. M. Milensky, B. J. O'Shea, B. R. Barber, W. Hinds and W. S. Prince. New birds for Guyana from Mts. Roraima and Ayanganna. *Bull. Brit. Orn. Club* 123: 24-33.

- 2003a** Bronson, C. L., T. C. Grubb, Jr., and **M. J. Braun**. A test of the endogenous and exogenous selection hypotheses for the maintenance of a narrow avian hybrid zone. *Evolution* 57:630-637.
- 2003b** Bronson, C. L., T. C. Grubb, Jr., G. D. Sattler and **M. J. Braun**. Mate preference: A possible causal mechanism for a moving hybrid zone. *Animal Behaviour* 65: 489-500.
- 2003** Brumfield, R. T., R. W. Jernigan, D.B. McDonald and **M. J. Braun**. Erratum correcting “Evolutionary implications of divergent clines in a manakin (*Manacus*; Aves) hybrid zone.” *Evolution* 57: 2919.
- 2001** Brumfield, R. T., R. W. Jernigan, D.B. McDonald and **M. J. Braun**. Evolutionary implications of divergent clines in a manakin (*Manacus*; Aves) hybrid zone. *Evolution* 55: 2070-2087.
- 2001** McDonald, D. B., R. P. Clay, R. T. Brumfield and **M. J. Braun**. Sexual selection on plumage and behavior in an avian hybrid zone: experimental tests of male-male interactions. *Evolution* 55:1443--1451.
- 2001** Brumfield, R. T. and **M. J. Braun**. Phylogenetic relationships in bearded manakins (Pipridae:*Manacus* ) indicate that male plumage color is a misleading taxonomic marker. *Condor* 103:248-258.
- 2000** **Braun, M. J.**, D. W. Finch, M. B. Robbins and B. K. Schmidt. *A Field Checklist of the Birds of Guyana*. Smithsonian Institution, Washington , D.C.
- 2000** Sattler, G. D. and **M. J. Braun**. Morphometric variation as an indicator of genetic interactions between Black-capped and Carolina chickadees at their contact zone in the Appalachian Mountains. *Auk* 117:427-444.
- 2000** Winker, K., G. R. Graves and **M. J. Braun**. Population genetic differentiation in a migratory songbird: *Limnothlypis swainsonii*. *J. Avian Biology* 31: 319-328.
- 1999** Steppan, S. J., M. R. Akhverdyan, E. A. Lyapunova, D. G. Fraser, N. N. Vorontsov, R. S. Hoffmann, and **M. J. Braun**. Molecular phylogeny of the marmots (Rodentia:Sciuridae): Tests of evolutionary and biogeographic hypotheses. *Systematic Biology* 48(4): 715-734.
- 1999** Glenn, T. C., W. Stephan, and **M. J. Braun**. Effect of a population bottleneck on mitochondrial DNA variation in Whooping Cranes. *Conservation Biology* 13(5):1097-1107.
- 1999** **Braun, M. J.** “The Mockingbird”. Pp. 82-83 in “Fifty Great Birds of Texas” by J. P. O’Neill. S. Winckler, ed. University of Texas Press.
- 1998** Glenn, T. C., H. C. Dessauer, and **M. J. Braun**. Characterization of microsatellite DNA loci in American alligators. *Copeia* 1998(3): 591-601.
- 1998** **Braun, M. J.** and R. T. Brumfield. Enigmatic phylogeny of skuas: an alternative hypothesis. *Proc. R. Soc. Lond. B* 265: 995-999.

- 1997 Brumfield, R. T., D. L. Swofford, and **M. J. Braun**. Evolutionary relationships among the potoos (Nyctibiidae) based on isozymes. *Ornithological Monographs* 48:129-145.
- 1997 Glenn, T. C., R. S. Ojerio, W. Stephan, and **M. J. Braun**. Microsatellite DNA loci for genetic studies of cranes. Pp. 36-45 in "Proceedings of the 7th North American Crane Workshop", R.P. Urbanek and D.W. Stahlecker (eds.). North American Crane Working Group.
- 1996 Glenn, T. C., W. Stephan, H. C. Dessauer, and **M. J. Braun**. Allelic diversity in alligator microsatellite loci is negatively correlated with GC content of flanking sequences and evolutionary conservation of PCR amplifiability. *Molecular Biology and Evolution* 13:1151-1154.
- 1996 Mariaux, J. and **M. J. Braun**. A molecular phylogenetic survey of the nightjars and allies (Caprimulgiformes) with special emphasis on the potoos (Nyctibiidae). *Molecular Phylogenetics and Evolution* 6: 228-244.
- 1996 Winker, K., G. Graves and **M.J. Braun**. Voucher specimens and quality control in avian molecular studies. *Ibis* 138: 345-346.
- 1994 Rhymer, J. M., M. J. Williams and **M. J. Braun**. Mitochondrial DNA analysis of gene flow between New Zealand Mallards (*Anas platyrhynchos*) and Grey Ducks (*A. superciliosa*). *Auk*: 111: 970-978.
- 1994 Parsons, T. J., S. L. Olson, and **M. J. Braun**. Hybrid zones and sexual selection. *Science* 265:122-123.
- 1994 Glenn, T. C., D. R. Waller and **M. J. Braun**. Increasing proportions of uracil in DNA substrates increases inhibition of restriction enzyme digests. *Biotechniques* 17: 1086-1090.
- 1993 Parsons, T. J., S. L. Olson, and **M. J. Braun**. Unidirectional spread of secondary sexual plumage traits across an avian hybrid zone. *Science* 260: 1643-1646.
- 1993 Wilkerson, R. C., T. J. Parsons, D. G. Albright, T. A. Klein, **M. J. Braun**. Random amplified polymorphic DNA (RAPD) markers readily distinguish cryptic mosquito species (Diptera:Culicidae: *Anopheles*). *Insect Molecular Biology* 1:205-211.
- 1993 Suh, Y. B., J. A. Blake, and **M. J. Braun**. Equipping and organizing a molecular systematics laboratory. Pp. 3-22 in "Molecular Evolution: Producing the Biochemical Data", E. A. Zimmer, T. J. White, R. L. Cann, and A.C. Wilson (eds.). *Methods in Enzymology* 224. Academic Press, San Diego.
- 1993 Bowditch, B. M., D. G. Albright, J. G. K. Williams, and **M. J. Braun**. The use of randomly amplified polymorphic DNA markers in comparative genome studies. Pp. 294-309 in "Molecular Evolution: Producing the Biochemical Data", E. A. Zimmer, T. J. White, R. L. Cann, and A. C. Wilson (eds.). *Methods in Enzymology* 224. Academic Press, San Diego.
- 1992 Krajewski, C., A. C. Driskell, P. R. Baverstock, and **M. J. Braun**. Phylogenetic

- relationships of the thylacine (Mammalia: Thylacinidae) among dasyuroid marsupials: evidence from cytochrome *b* DNA sequences. *Proceedings of the Royal Society (London): Series B* 250:19-27.
- 1990** Morton, E. S., L. Forman, and **M. J. Braun**. Extra pair fertilizations and the evolution of colonial breeding in purple martins. *Auk* 107:275-283.
- 1990** Garvey, K. J., M. S. Oberste, J. E. Elser, **M. J. Braun**, and M. A. Gonda. Nucleotide sequence and genome organization of biologically active proviruses of the bovine immunodeficiency-like virus. *Virology* 175:391-409.
- 1988** **Braun, M. J.**, S. Lahn, A. L. Boyd, T. A. Kost, K. Nagashima, and M. A. Gonda. Molecular cloning of biologically active proviruses of bovine immunodeficiency-like virus. *Virology* 167:515-523.
- 1988** Houde, P., and **M. J. Braun**. Museum collections as a source of DNA for studies of avian phylogeny. *Auk* 105:773-776.
- 1988** Le, S.-Y., J.-H. Chen, **M. J. Braun**, M. A. Gonda, and J. V. Maizel. Stability of RNA Stem-loop structure and distribution of non-random structure in the human immunodeficiency virus (HIV-I). *Nucleic Acids Research* 16:5153-5168.
- 1987** **Braun, M. J.**, M. A. Gonda, D. G. George, J. F. Bazan, R. J. Fletterick, and S. B. Prusiner. The burden of proof in linking AIDS to scrapie. *Nature* 330:525-526.
- 1987** Gonda, M. A., **M. J. Braun**, S. G. Carter, T. A. Kost, J. W. Bess, Jr., L. O. Arthur, and M. J. Van Der Maaten. Characterization and molecular cloning of a bovine lentivirus related to human immunodeficiency virus. *Nature* 330:388-391.
- 1987** Park, M., M. Dean, K. Kaul, **M. J. Braun**, M. A. Gonda, and G. Vande Woude. Sequence of the *MET* proto-oncogene cDNA has features characteristic of the tyrosine kinase family of growth-factor receptors. *Proc. Natl. Acad. Sci. USA* 84:6379-6383.
- 1987** **Braun, M. J.**, J. E. Clements, and M. A. Gonda. The visna virus genome: evidence for a hypervariable site in the *env* gene and sequence homology between lentivirus envelope proteins. *Journal of Virology* 61:4046-4054.
- 1987** **Braun, M. J.**, and M. A. Gonda. Is scrapie PrP 27-30 related to the AIDS virus? *Nature* 325:113-114.
- 1987** **Braun, M. J.**, and D. E. Wolf. Recent records of vagrant South American land birds in Panama. *Bulletin of the British Ornithologist's Club* 107:115-117.
- 1987** Baker, C. C., W. C. Phelps, V. Lindgren, **M. J. Braun**, M. A. Gonda and P. M. Howley. Structural and transcriptional analysis of human papilloma virus type16 sequences in cervical carcinoma cell lines. *Journal of Virology* 61:962-971.
- 1986** **Braun, M. J.**, and M. B. Robbins. Extensive protein similarity of the hybridizing chickadees *Parus atricapillus* and *P. carolinensis*. *Auk* 103:667-675.

- 1986** Robbins, M. B., **M. J. Braun**, and E. A. Tobey. Morphological and vocal variation across a contact zone between the chickadees *Parus atricapillus* and *P. carolinensis*. *Auk* 103:655-666.
- 1986** Gonda, M. A., **M. J. Braun**, J. E. Clements, J. M. Pyper, F. Wong-Staal, R. C. Gallo, and R. V. Gilden. Human T-cell lymphotropic virus type III shares sequence homology with a family of pathogenic lentiviruses. *Proc. Natl. Acad. Sci. USA* 83:4007-4011.
- 1986** **Braun, M. J.**, D. D. Braun, and S. B. Terrill. Winter records of the Golden-cheeked Warbler (*Dendroica chrysoparia*) from Mexico. *American Birds* 10:564-566.
- 1985** **Braun, M. J.**, P. L. Deininger, and J. W. Casey. Nucleotide sequence of a transduced *myc* gene from a defective feline leukemia provirus. *Journal of Virology* 55:177-183.
- 1985** **Braun, M. J.**, and T. A. Parker, III. Molecular, morphological, and behavioral evidence concerning the taxonomic relationships of "*Synallaxis gularis*" and other synallaxines. Pp. 333-346 in "Neotropical Ornithology", P. A. Buckley, M. S. Foster, E. S. Morton, R. S. Ridgely, and F. G. Buckley (eds.). *Ornithological Monographs*, No. 36.
- 1985** Parker, T. A., T. S. Schulenberg, G. R. Graves, and **M. J. Braun**. The avifauna of the Huancabamba region, northern Peru. Pp. 169-197 in "Neotropical Ornithology", P. A. Buckley, M. S. Foster, E. S. Morton, R. S. Ridgely, and F. G. Buckley (eds.). *Ornithological Monographs*, No. 36.
- 1984** Braun, D., G. B. Kitto, and **M. J. Braun**. Molecular population genetics of Tufted and Black-crested forms of *Parus bicolor*. *Auk* 101:170-173.
- 1982** **Braun, M.J.**, and V.L. Emanuel. Records of the Crimson-collared Grosbeak (*Rhodothraupis celaeno*) from Texas. *Auk* 99:787.

#### OTHER PUBLICATIONS

- 2013** Coyle B.J., M.J. Braun, K.M. Rodriguez-Clark, L. Ovalle-Moleiro. Recovering the Red Siskin. *Journal of the National Finch and Softbill Society*. July/August 2013: 30-38.
- 2011** Rodríguez-Clark, K. M., J. E. Maldonado, D. Ascanio, E. Gamero, L. Ovalle, J. Pérez-Emán and **M. J. Braun**. Using genetics to understand and conserve the Red Siskin (*Carduelis cucullata*). *Journal of the National Finch and Softbill Society* July/August 2011: 25-30.
- 1992** Graves, G. and **M.J. Braun**. Museums: Storehouses of DNA? *Science* 255:1335.
- 1992** Glenn, T. C. and **M. J. Braun**. Toward the elimination of contamination from ancient DNA amplicons: use of 2'-deoxyuridine-5'-triphosphate and uracil DNA glycosylase to eliminate carryover PCR products. *Ancient DNA Newsletter* 1(2):28-31.
- 1991** **Braun, M. J.** The flowering of molecular systematics. Review of "Molecular Systematics", D. M. Hillis and C. Moritz (eds.). *Systematic Zoology* 40:111-114.

- 1988 Braun, M. J.** Northern Gannet on I-65: Second record for Kentucky, first record for Tennessee. *Kentucky Warbler* 64:34-36.
- 1988** Dessauer, H. C., and **M. J. Braun.** Species conservation of substrate requirements for peptidases. *Isozyme Bulletin* 21:188.
- 1983** Dessauer, H. C., **M. J. Braun,** and S. Neville. A simple hand centrifuge for field use. *Isozyme Bulletin* 16:91-92.
- 1981 Braun, M. J.** Hybridization and high protein variability in finches of the genus *Pipilo*. *Isozyme Bulletin* 14:90.

### RECENT LECTURES AND PRESENTATIONS

\* Invited presentation

\*\*Speaker

- 2019** Annual Meeting of the Society for the Study of Evolution. "*The Genetic Basis of Sexually Selected Traits in an Avian Hybrid Zone.*" K.F.P. Bennett\*\*, H.C. Lim, R. Dikow, P. Frandsen, M. Fuxjager, S. Kingston, B. Schlinger, and **M. J. Braun.**
- 2019** Association of Zoos and Aquaria, Annual Meeting, September 2019. "*The Power of Social Network Analysis: Understanding how the Endangered Red Siskin is Trafficked in Venezuela and Beyond.*" K. M. Rodriguez-Clark\*\*, A. Cardozo-Urdaneta, L. Moran, L.Ovalle, M.A. Arvelo,, J. Morales-Campo, B. J. Coyle, **M. J. Braun,** and A. Sanchez-Mercado.
- 2018\*** Embassy of Guyana, January 2018. "*Smithsonian Ornithological Research and Conservation work in Guyana*". **M. J. Braun\*\*.**
- 2018\*** Guyana Republic Day, February 2018. "*Smithsonian Biodiversity Research and Conservation work in Guyana*". **M. J. Braun\*\*.** Invited talk during a celebration of Guyana's Republic Day at the Smithsonian Castle attended by 150 diplomats, dignitaries and friends of Guyana.
- 2018\*** Smithsonian-Mason School of Conservation Biogenomics Course, October 10, 2018. "*Bird on the Brink: Saving the Red Siskin.*" **M. J. Braun\*\*.**
- 2018\*** Arkansas Executive Forum. "Genomics, Entrepreneurship and Bird-Friendly Coffee: Saving the Red Siskin." **M. J. Braun\*\*.**
- 2018\*** University of Arkansas Entrepreneurship Hub. "Bird on the Brink: Saving the Red Siskin with Social Entrepreneurship." **M. J. Braun\*\*.**
- 2018\*** Augusta County Bird Club. "Bird on the Brink: Saving the Red Siskin." **M. J. Braun\*\*.**
- 2018\*** Anne Arundel Bird Club. "Progress in Resolving the Avian Tree of Life; or Why Geese Now Come Before Loons on Your Checklist." **M. J. Braun\*\*.**

- 2017** SI Biogenomics Conference Feb 2017. "Conservation genomics of the highly endangered Red Siskin." H. C. Lim\*\*, R. Dikow, B. Coyle, P. Frandsen, W. Johnson and **M. J. Braun**.
- 2017** Society for the Study of Evolution Annual Meeting. "Testing the limits of phylogenomics for resolving the bird tree of life." S. Reddy\*\*, R. T. Kimball, A. Pandey, P. A. Hosner, **M. J. Braun**, S. J. Hackett, K-L. Han, J. Harshman, C. J. Huddleston, S. Kingston, B. D. Marks, K. J. Miglia, W. S. Moore, F. H. Sheldon, C. C. Witt, T. Yuri and E. L. Braun.
- 2017\*** Finches '17- Annual Convention of the Queensland Finch Society. "The Red Siskin Initiative: Saving an endangered finch in partnership with aviculturists." J. Fink\*\*, M. Arvelo, **M. J. Braun**, B. J. Coyle, S. Davis, Z. Diaz, , W. Lynch, P. Hansen, P. Marinari, J. Miranda, S. Monfort, L. Ovalle-Moleiro, J. P. Rodríguez, K. M. Rodríguez-Clark, A. Rodríguez-Ferraro, E. Royer, A. Y. Sánchez-Mercado and B. Sucre.
- 2016** Society for the Study of Evolution Annual Meeting. Poster on "Progress in Resolving the Avian Tree of Life." N. D. White\*\*, E. L. Braun, B. C. Faircloth and **M. J. Braun**.
- 2016\*** Hampshire Bird Club, Amherst MA. "Bird on the Brink: Saving the Red Siskin." **M. J. Braun\*\***
- 2015** Society for Systematic Biology Annual Meeting. "Resolving the Avian Tree of Life using Ultraconserved Elements." N. D. White\*\*, B. C. Faircloth, E. L. Braun, J. E. McCormack, D. L. Swofford, R. T. Brumfield, T. C. Glenn, and **M. J. Braun**.
- NOTE: White won the Ernst Mayr Award for Best Student Paper given at this meeting.***
- 2015\*** Graduate School Recruiting Event, University of Maryland. "Avian Evolutionary Genomics." **M. J. Braun\*\***
- 2015\*** National Zoological Park, Wildlife Trafficking Awareness Day. "The Red Siskin Initiative." **M. J. Braun\*\*** and B. J. Coyle.
- 2014\*** Programa Integral de Conservación del Cardenalito, Bararida Zoo, Barquisimeto, Venezuela. "El Cardenalito en Guyana." **M. J. Braun\*\*** (Given in Spanish).
- 2014** Society for the Study of Evolution Annual Meeting. "Characterizing Avian UCEs and Inference of Nightbird (*Strisores*) Phylogeny." N.D. White\*\*, B. C. Faircloth and **M. J. Braun**.
- 2014\*** SI-Illinois IGERT Training Course in Panama. "Sexual Selection, Hybridization and the Genomic Architecture of Speciation in Manakins." **M. J. Braun.\*\***
- 2013\*** National Cage Bird Show. "Bird on the Brink: Saving the Red Siskin." **M. J. Braun\*\***
- 2013\*** Australia National University. "Early Bird: Assembling the Avian Tree of Life." **M. J. Braun.\*\***

- 2013** Society for the Study of Evolution Annual Meeting. "Hybridization, Introgression and Differentiation on a Continental Scale: Genome-Wide Sequence Analysis." S. E. Kingston\*\*, T. L. Parchman, Z. Gompert, C. A. Buerkle, C. Cicero, J. Klicka and **M. J. Braun**.
- 2013** Society for the Study of Evolution Annual Meeting. "Unraveling the Evolutionary History of Nocturnal Vision in the Nightbirds." N. D. White\*\*, B. C. Faircloth, E. L. Braun, J. McCormack, and **M. J. Braun**.
- 2012\*** Northern Virginia Bird Club. "Bird on the Brink: Saving the Red Siskin". **M. J. Braun\*\***.
- 2012** North American Ornithological Conference. "Hybridization, gene flow, and differentiation among towhees in Mexico: genome-wide sequence analysis." S. E. Kingston\*\*, T. L. Parchman, and **M. J. Braun**.
- 2012** North American Ornithological Conference. "Early Bird Update: The Avian Tree of Life Based on 28 Genes and 203 Taxa". **M. J. Braun\*\***, S. Mirarab, T. Warnow and E. L. Braun.
- 2012\*** Northern Virginia Bird Club. "Species and species concepts". **M. J. Braun\*\***.
- 2012\*** SI Biodiversity Genomics Open Forum. "Building the Framework of Biodiversity Science: Next Generation Phylogenomics". **M. J. Braun\*\***.
- 2012** Senate of Scientists Lightning Talks. "Continental convergences: Lessons from the avian tree of life". **M. J. Braun\*\***.
- 2011** American Ornithologists Union Annual Meeting. "The impact of DNA sequence alignment methods on estimates of the avian tree of life". **M. J. Braun\*\***, K. Liu, T. Warnow, C. R. Linder and E. L. Braun.
- 2011\*** Smithsonian Congress of Scholars Annual Symposium. "Next generation DNA sequencing: transformative technology for biodiversity science". **M. J. Braun\*\***
- 2011** Challenges for Large-scale Phylogeny and Alignment Estimation, A Workshop at the National Evolutionary Synthesis Center. "The impact of DNA sequence alignment methods on estimates of the avian tree of life". **M. J. Braun\*\***, K. Liu, T. Warnow, C. R. Linder and E. L. Braun.
- 2011\*** Molecular Evolution Course, St. Mary's College. "Molecular Population Genetics of Birds." **M. J. Braun\*\***.
- 2010** 40<sup>th</sup> Anniversary Symposium of Instituto Venezolano de Investigaciones Cientificas, Caracas, Venezuela. De bases filogeográficas a herramientas diagnósticas moleculares: la genética evolutiva y de conservación del Cardenalito (*Carduelis cucullata*). K. M. Rodríguez-Clark\*, D. Ascanio, **M. J. Braun**, E. Gamero, J. Maldonado, L. Ovalle, J. Pérez-Emán.

- 2010** Association of Field Ornithologist's Annual Meeting. "The impact of DNA sequence alignment methods on estimates of the avian tree of life". **M. J. Braun\*\***, K. Liu, T. Warnow, C. R. Linder and E. L. Braun.
- 2010\*** Gulf Coast Bird Observatory, Texas. "Bird on the Brink: The Story of the Red Siskin". **M. J. Braun\*\***
- 2009\*** Molecular Evolution Course, St. Mary's College. "Molecular Systematics of Birds." **M. J. Braun\*\***.
- 2009** Association of Field Ornithologist's Annual Meeting. "Genome-wide levels of introgression and divergence across Mexican towhee hybrid zones." S. E. Kingston\*\*, William Fagan, **M. J. Braun**.
- 2009** Association of Field Ornithologist's Annual Meeting. "Genome-wide survey of differentiation and introgression between hybridizing Appalachian chickadees." B. S. Davidson\*\* and **M. J. Braun**.
- 2009** CIPRES All Hands Mtg, University of California, Berkeley. "Eight billion years of shrinkage in avian introns." J. Harshman\*\*, E. L. Braun, **M. J. Braun**, R. C. K. Bowie, S. J. Hackett, K.-L. Han, C. J. Huddleston, R. T. Kimball, B. D. Marks, K. J. Miglia, W. S. Moore, S. Reddy, F. H. Sheldon, D. W. Steadman, C. C. Witt, and T. Yuri.