

PROFESSIONAL SOCIETIES

American Association for the Advancement of Science
Society for the Study of Evolution
American Ornithologist's Union
Cooper Ornithological 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, 2010-2014.

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 intensive workshop 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" (with Charles Mitter, UMd). Two day symposium and workshop at NMNH with 230 participants. May 2013.

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)
1990-2014	Panama, (10 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)
2000-2012	Venezuela (5 trips, 8 weeks)
2008-2009	Mexico (10 weeks)
2013	Australia (4 weeks)

Total of 54 months on 60 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-present
Haw Chuan Lim	2013-present		

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-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		

GRANTS (Past 5 years)

- 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** Anonymous Donation from Private Foundation. "Fieldwork on the conservation genetics of the Red Siskin." \$10,000.
- 2010** NMNH Small Grants Program. "A Next-Generation Sequencing Study of Introgression Across an Avian Hybrid Zone". \$5,000.
- 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** NMNH Small Grants Call. "From phylogeographic foundations to a diagnostic molecular toolkit: Evolutionary and conservation genetics of the endangered Red Siskin". J. E. Maldonado, **M. J. Braun** and K. M. Rodriguez-Clark. \$4895.

- 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.
- 2011** Next Generation Sequencing Small Grants Call. "Phylogenetic Utility of Ultra-conserved Elements for the Avian Tree of Life" **Braun** as lead PI, with 7 co-PIs. \$10,000.
- 2012** NMNH Small Grants Program. "Adaptations to Nocturnality in the Visual Systems of Caprimuliform Nightbirds". **Braun** as PI, Noor White, co-PI. \$5,000.
- 2012** National Evolutionary Synthesis Center (NESCent). "Genome-enabled Research on Manakins: A Catalysis Meeting". **Braun** as co-PI, with 6 others. ~\$60,000.
- 2012** 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.
- 2013** NMNH Small Grants Program. "Adaptations to Nocturnality in the Visual Systems of Caprimuliform Nightbirds II". **Mike Braun**, PI, Noor White, co-PI. \$5,000.
- 2013** Scion Natural Science Association. "Saving the Critically Endangered Red Siskin, *Carduelis cucullata*: Understanding Habitat Requirements, Assessing Potential Reintroduction Sites, and Supporting Conservation Genomics." **Braun** as co-PI, with 3 others. \$1500.
- 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.

PEER-REVIEWED PUBLICATIONS

In Press. Jarvis, E. D. Siavash Mirarab^{2*}, Andre J. Aberer³, Bo Li^{4,5,6}, Peter Houde⁷, Cai Li^{4,6}, Simon Y. W. Ho⁸, Brant C. Faircloth⁹, Benoit Nabholz¹⁰, Jason T. Howard¹, Alexander Suh¹¹, Claudia C. Weber¹¹, Rute R. da Fonseca⁶, Jianwen Li⁴, Fang Zhang⁴, Hui Li⁴, Long Zhou⁴, Nitish Narula^{7,12}, Liang Liu¹³, Ganesh Ganapathy¹, Bastien Boussau¹⁴, Md. Shamsuzzoha Bayzid², Volodymyr Zavidovych¹, Sankar Subramanian¹⁵, Toni Gabaldón^{16,17,18}, Salvador Capella-Gutiérrez^{16,17}, Jaime Huerta-Cepas^{16,17}, Bhanu Rekepalli¹⁹, Kasper Munch²⁰, Mikkel Schierup²⁰, Bent Lindow⁶, Wesley C. Warren²¹, David Ray^{22,23,24}, Richard E. Green²⁵, Michael Bruford²⁶, Xiangjiang Zhan^{26,27}, Andrew Dixon²⁸, Shengbin Li²⁹, Ning Li³⁰, Yinhua Huang³⁰, Elizabeth P. Derryberry^{31,32}, Mads Frost Bertelsen³³, Frederick H. Sheldon³², Robb T. Brumfield³², Claudio V. Mello^{34,35}, Peter V. Lovell³⁴, Morgan Wirthlin³⁴, Maria Paula Cruz Schneider^{35,36}, Francisco Prosdocimi^{35,37}, José Alfredo Samaniego⁶, Amhed Missael Vargas Velazquez⁶, Alonzo Alfaro-Núñez⁶, Paula F. Campos⁶, Bent Petersen³⁸, Thomas Sicheritz-Ponten³⁸, An Pas³⁹, Tom Bailey⁴⁰, Paul Scofield⁴¹, Michael Bunce⁴², David M. Lambert¹⁵, Qi Zhou⁴³, Polina Perelman⁴⁴, Amy C. Driskell⁴⁵, Beth Shapiro²⁵, Zijun Xiong⁴, Yongli Zeng⁴, Shiping Liu⁴, Zhenyu Li⁴, Binghang Liu⁴, Kui Wu⁴, Jin Xiao⁴, Xiong Yinqi⁴, Qiuemei Zheng⁴, Yong Zhang⁴, Huanming Yang⁴⁶, Jian Wang⁴⁶, Linnea Smeds¹¹, Frank E. Rheindt⁴⁷, **Michael Braun**⁴⁸, Jon Fjeldsa⁴⁹, Ludovic Orlando⁶, Keith Barker⁵⁰, Knud Andreas Jønsson^{49,51,52}, Warren Johnson⁵³, Klaus-Peter Koepfli⁵⁴, Stephen O'Brien^{55,54}, David Haussler⁵⁷, Oliver A. Ryder⁵⁸, Carsten Rahbek^{49,59}, Eske Willerslev⁶, Gary R. Graves^{49,60}, Travis C. Glenn⁶¹, John McCormack⁶², Dave Burt⁶³, Hans Ellegren¹¹, Per Alström^{64,65}, Scott V. Edwards⁶⁶, Alexandros Stamatakis^{3,67}, David P. Mindell⁶⁸, Joel

Cracraft⁶⁹, Edward L. Braun⁷⁰, Tandy Warnow^{2#}, Wang Jun^{46,71,71,73,74#}, M Thomas P Gilbert^{6,49#}, Guojie Zhang. Whole Genome Analyses Resolve Early Branches in the Tree of Life of Modern Birds. *Science*.

- 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*. doi:10.1093/beheco/aru065.
- 2013** 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* (DOI 10.1007/s10682-013-9673-8).
- 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, **MJ 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** 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* 28 (4): 25-30.
- 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.

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 Homoplasy 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.
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RECENT LECTURES AND PRESENTATIONS (Past 5 years)

* Invited presentation

**Speaker

- 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** 40th 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.