Curriculum Vitae

Lynn Bloxom (Marty) Martin II

Current position

Professor
Department of Global Health
University of South Florida
4202 East Fowler Avenue
Tampa FL 33620-5200
Webpage: http://organismalbiology.weebly.com

Phone: (813) 974-0157
Fax: (813) 974-
Email: lbmartin@health.usf.edu
Office: IDRB 331
Labs: IDRB 419/437

Education and training

1992 - 1996	B.S. Biology, Virginia Commonwealth University Supervisor: Dr. Charles Blem (emeritus)
1997 - 1999	M.S. Biology, Virginia Commonwealth University Supervisor: Dr. Charles Blem (emeritus)
1999 - 2001	M.A. Ecology and Evolutionary Biology, Princeton University Supervisor: Dr. Martin Wikelski
2001 - 2004	Ph.D. Ecology and Evolutionary Biology, Princeton University Supervisor: Dr. Martin Wikelski
2004 - 2007	Post-doctoral, Psychology/Neuroscience, Ohio State University Supervisor: Dr. Randy J. Nelson

Honors and awards

2018	University of South Florida, Outstanding Faculty Award
2017	Elected Fellow, American Academy for the Advancement of Science
2017	Early promotion to Professor, University of South Florida
2016	Editor, *Integrative and Comparative Biology*
2015	Fulbright Specialist, Argentina (Santa Fe, Bariloche, Esperanza)
2015	University of South Florida, Outstanding Faculty Award
2012	Early tenure, promotion to Associate Professor, University of South Florida
2010	University of South Florida, University Outstanding Research Award
2009	George A. Bartholomew Young Investigator Award, Society for Integrative and Comparative Biology
2009	Elective Member, American Ornithologist's Union
2007	Ned K. Johnson Young Investigator Award, American Ornithologists Union
2007	Young Investigator Award, Society for Behavioral Neuroendocrinology

PUBLICATIONS (h-index: 42, 5694 total citations as of 5/25/2018)

Edited books

1. **LB Martin**, CK Ghalambor, and HK Woods (editors). 2015. Integrative Organismal Biology, Wiley Press.

Peer-reviewed articles (*undergraduate collaborator; **graduate collaborator):

In review or revision:

126. **Brace, AJ, MD McCue, and **LB Martin**. Costs of immunity predict protection from malaria parasites in brown anole lizards.
125. **Kernbach, ME, *JM Miller, RJ Hall, TR Unnasch, ND Burkett-Cadena, and **LB Martin**. Light pollution increases West Nile virus competence in a ubiquitous

reservoir species.

124. **Kilvitis, HJ, **A Berrio, S Phelps, AW Schrey, and **LB Martin**. DNA methylation predicts TLR-4 expression in Kenyan house sparrows.
123. **Kilvitis, HJ, DR Ardia, M Thiam, and **LB Martin**. Corticosterone predicts mediators of epigenetic potential and neural plasticity in the hippocampus of introduced house sparrows
122. **Martin, LB**, JW Donald, **T Flock, MJ Fuxjager, LZ Garamszegi, W Goymann, M Hau, JF Husak, MA Johnson, **B Kircher, R Knapp, ET Miller, LA Schoenle, MN Vitousek, TD Williams, and CD Francis. IUCN status does not predict glucocorticoid concentrations in reptiles and birds.
121. **Martin, LB**, **H Hanson, *L Hebert, TR Unnasch, N Burkett-Cadena, and SS Gervasi. Avian stress hormone levels predict mosquito vector reproductive success.
120. **Martin, LB**, **M Kernbach, TR Unnasch, and SS Gervasi. Distinct effects of acute versus chronic corticosterone exposure on zebra finch competence for West Nile virus.
120. Uysal AK, **LB Martin**, ND Burkett-Cadena, D Barron, and T Shimizu. Simulated viral infection in early-life alters brain morphology, activity and behavior in zebra finches (*Taeniopygia guttata*)

2018

119. Adelman, JS and **LB Martin**. 2018. Behavioral Endocrinology: immune systems and sickness behaviour. Encyclopedia of Animal Behavior, second edition. Elsevier.
118. Altizer, SM, **DJ Becker, JH Epstein, KM Forbes, TR Gillespie, RJ Hall, DM Hawley, SM Hernandez, **LB Martin**, RK Plowright, **DA Satterfield, and DG Streicker. 2018. Food for contagion: synthesis and future directions for studying host–parasite responses to resource shifts in anthropogenic environments. Philosophical Transactions of the Royal Society 373:10.198/rtsb.2017.0102
117. **Burgan, SC, SS Gervasi, and **LB Martin**. Parasite tolerance and host competence in avian host defense to West Nile virus. Ecohealth, in press.
116. Casagrande, S, LZ Garamszegi, W Goymann, J Donald, CD Francis, MJ Fuxjager, JF Husak, MA Johnson, B Kircher, R Knapp, **LB Martin**, ET Miller, LA Schoenle, MN Vitousek, TD Williams, JC Wingfield, and M Hau. 2018. Do seasonal glucocorticoid changes depend on reproductive investment? A comparative approach in birds. Integrative and Comparative Biology, in press.
115. Francis, CD, JW Donald, CJ Downs, MJ Fuxjager, LZ Garamszegi, W Goymann, M Hau, JF Husak, MA Johnson, **B Kircher, R Knapp, **LB Martin**, ET Miller, LA Schoenle, MN Vitousek, and TD Williams. Metabolic scaling of stress hormones in vertebrate animals. Integrative and Comparative Biology, in press.
114. Garamszegi, LZ, JW Donald, CD Francis, MJ Fuxjager, W Goymann, M Hau, JF Husak, MA Johnson, **B Kircher, R Knapp, **LB Martin**, ET Miller, LA Schoenle, MN Vitousek, TD Williams, and JC Wingfield. Levels of glucocorticoid hormones and speciation rates in birds. Integrative and Comparative Biology, in press.
113. **Kernbach, ME, RJ Hall, ND Burkett-Cadena, TR Unnasch, and **LB Martin**. Dim light at night: physiological effects and ecological consequences for infectious disease. Integrative and Comparative Biology, in press.
112. **Kernbach, M, **C Ramsay, JR, Rohr, and **LB Martin**. Ecoimmunology: past, present and future. In Encyclopedia of Ecology, second edition, in press.
111. Miles, MC, JF Husak, MA Johnson, **LB Martin**, MN Vitousek, TD Williams, and MJ Fuxjager. Inter-Individual variability in circulating steroid hormones: quantitative analysis among populations and species. Integrative and Comparative Biology, in press.

110. Schoenle, LA, CJ Downs, and **LB Martin**. An introduction to ecoimmunology. In Comparative Immunology, EL Cooper, ed., Springer, in press.
109. Vitousek, MN, MA Johnson, JW Donald, CD Francis, MJ Fuxjager, W Goymann, M Hau, JF Husak, **BK Kircher, R Knapp, **LB Martin**, ET Miller, LA Schoenle, and TD Williams. 2018. HormoneBase: a population-level database of steroid hormone levels across vertebrates. Scientific Data, in press.

2017

108. **Brace, AJ, K Buchanan, JS Adelman, M LaJeunesse, DM Hawley, DR Ardia, KD Matson, JM Fair, and **LB Martin**. 2017. Life history and body mass drive costs of immune responses. *Journal of Experimental Zoology A* 10.1002/jez.2084.
107. Gervasi, SS, **SC Burgan, E Hofmeister, H Hassan, TR Unnasch, and **LB Martin**. 2017. Stress hormones predict a superspreader phenotype in the West Nile virus system. *Proceedings of the Royal Society of London B: Biological Sciences* 284: 20171090.
106. **Kilvitis, HJ, H Hanson, AW Schrey, and **LB Martin**. 2017. Epigenetic potential as a mechanism of phenotypic plasticity in vertebrate range expansions. *Integrative and Comparative Biology* 57: 385-395.
105. **Martin, LB**, **HJ Kilvitis, M Thiam, and DR Ardia. 2017. Stress hormone responses in house sparrows invading Senegal. *General and Comparative Endocrinology* 250: 15-20.
104. **Martin, LB**, **HJ Kilvitis, **AJ Brace, *L Cooper, MF Haussmann, A Mutati, *V Fasanello, S O'Brien, and DR Ardia. 2017. Costs of immunity and their role in the range expansion of the house sparrow in Kenya. *Journal of Experimental Biology* 220: 2228-2235.
103. **McMahon, TA, RK Boughton, **LB Martin,** and JR Rohr. 2017. Exposure to the herbicide, atrazine, nonlinearly affects corticosterone in tadpoles. *Journal of Herpetology* 51: 270-273.

2016

102. **Borniger, JC, **YM Cisse, RJ Nelson and **LB Martin**. 2016. Seasonal variation in stress responses. Encyclopedia of Stress.
101. **Coon, CAC **L Garcia-Longoria, **LB Martin**, **S Magallanes, F de Lope, and A Marzal. 2016. Malaria infection negatively affects feather growth rate in the house sparrow. *Journal of Avian Biology* DOI: 10.1111/jav.00942.
100. Ezenwa, V, EA Archie, ME Craft, DM Hawley, **LB Martin**, J Moore, and **L White. 2016. Host behaviour-parasite feedback: an essential link between animal behaviour and disease ecology. *Proceedings of the Royal Society of London B: Biological Sciences* 283: 20153078. (invited)
99. Gervasi, SS, **SC Burgan, N Burkett-Cadena, AW Schrey, H Hassan, TR Unnasch, and **LB Martin**. 2016. Host stress hormones increase vector preference, feeding success, and subsequent productivity. *Proceedings of the Royal Society of London B: Biological Sciences* DOI: 10.1098/rspb.2016.1278.
98. **Martin, LB**, **SA Burgan, JS Adelman, and SS Gervasi. 2016. Host competence: an organismal trait for integrating immunology and epidemiology. *Integrative and Comparative Biology* 56 (6): 1225-1237. (invited)
97. **Martin**, **LB,** **AJ Brace, SS Gervasi, and **HJ Kilvitis. 2016. Invader endocrinology: how to regulate a pesky phenotype. *In* JS Weis and D Sol, Biological Invasions and Behavior. Cambridge UP.

2015

96. Barron, DG, SS Gervasi, JN Pruitt, and **LB Martin**. 2015. Behavioral competence: how host behaviors interact to influence potential for parasite transmission. *Current Opinion in Behavioral Sciences* 6: 35-40.
95. **Brace, AJ, *S Shiekali, and **LB Martin**. 2015. Highway to the danger zone: exposure-dependent costs of immunity in a vertebrate ectotherm. *Functional Ecology,* 29: 924-930.
94. Gervasi, SS, DJ Civitello, **HJ Kilvitis, and **LB Martin**. 2015. The context of host competence: a role for plasticity in host-parasite dynamics. *Trends in Parasitology*, in press 31: 419-425.
93. Ghalambor, CK, **LB Martin**, and HA Woods. 2015. Plasticity, complexity, and the individual: towards a truly integrative organismal biology. *In* Integrative Organismal Biology. **LB Martin**, CK Ghalambor, and HA Woods, eds, Wiley Press
92. Hellgren, O, C Atkinson, S Bensch, T Albayrak, D Dimitrov, J Ewen, KS Kim, MR Lima, **LB Martin**, V Palinauskas, RE Ricklefs, R Seghal, G Valkiunas, Y Tsuda, and A Marzal. 2015. Global phylogeography of the invasive avian malaria parasite *Plasmodium relictum* based on MSP1 allelic diversity. *Ecography* 38: 001-009.
91. **Martin, LB** and AA Cohen. 2015. Physiological regulatory networks: the orchestra of life? *In* Integrative Organismal Biology, **LB Martin**, CK Ghalambor, and HA Woods, editors. Wiley Press.
90. **Martin, LB,** **AL Liebl and **HJ Kilvitis**.** 2015. Covariation in stress an immune gene expression in a range-expanding bird. *General and Comparative Endocrinology* 211: 14-19.
89. Romero, LM, SH Platts, SJ Schoech, H Wada, **LB Martin**, and CL Buck. 2015. Understanding stress in the healthy animal: potential paths for progress. *Stress* 18:491-497.
88. Woods, HA, CK Ghalambor, and **LB Martin**. 2015. The central role of the individual in biology. *In* Integrative Organismal Biology, **LB Martin**, CK Ghalambor, and HA Woods, editors, Wiley Press.

2014

87. Brock, P, C Murdock and **LB Martin**. 2014. A history of ecological immunology and its integration with disease ecology. *Integrative and Comparative Biology* 54: 353-362.
86. **Coon, CAC, **AJ Brace, SR McWilliams, MD McCue, and **LB Martin**. 2014. Introduced and native congeners use different resource strategies to maintain performance during infections. *Physiological and Biochemical Zoology* 87: 559-567.
85. **Coon, CAC and **LB Martin**. 2014. Patterns of haemosporidian prevalence along a range expansion in introduced Kenyan House Sparrows (*Passer domesticus*). *Journal of Avian Biology* 45: 34-42.
84. **Liebl, AL and **LB Martin**. Living on the edge: range edge birds consume novel foods faster than established ones. *Behavioral Ecology* 25: 1089-1096.
83. **Martin, LB,** RK Boughton and DR Ardia. A new division of ecoimmunology and disease ecology. *Integrative and Comparative Biology* 54: 338-339.
82. **Martin, LB**, and **AL Liebl. Physiological plasticity in an avian range expansion. *General and Comparative Endocrinology* 206: 227-234.
81. **Martin, LB** and **M Boruta. 2014. The impacts of urbanization on avian disease transmission and emergence. In Avian Urban Ecology. D Gil and H Brumm, editors
80. **Martin, LB**, **CAC Coon, AW Schrey, and **AL Liebl. 2014. Surveillance for microbes and range expansion in house sparrows. *Proceedings of the Royal Society of London B: Biological Sciences* 281: 20132690.

79. Ostfeld, RS, **T Levi, A Jolles, **LB Martin**, PR Hosseini, and F Keesing. 2014. Life history and demographic drivers of reservoir competence for three tick-borne zoonotic pathogens. *PLOS One* DOI: 10.137/journal.pone.1017387.
78. Rivers, JW, **AL Liebl, **LB Martin,** and MG Betts. 2014. Corticosterone in Swainson's Thrushes varies relative to forest age but not vegetative cover. *Journal of Ornithology* 155: 539-548.
77. Schrey, AW, **AL Liebl, CL Richards, and **LB Martin**. 2014. Range expansion of house sparrows (*Passer domesticus*) in Kenya: evidence of genetic admixture and human-mediated dispersal. *Journal of Heredity* 105: 60-69.

2013

76. Ledon-Retting, CC, CL Richards, and **LB Martin**. 2013. A place for behaviour in ecological epigenetics. *Behavioral Ecology* 24: 329-330. (invited)
75. Ledon-Retting, C, CL Richards, and **LB Martin**. 2013. Behavioural epigenetics for ecologists. *Behavioral Ecology* 24: 311-324. (invited)
74. **Liebl, AL and **LB Martin**. 2013. Stress hormone receptors change as range expansion progresses in house sparrows. *Biology Letters* 9 (3) 20130181.
73. **Liebl, AL, T Shimizu, and **LB Martin**. 2013. Covariation among glucocorticoid regulatory elements varies seasonally in house sparrows (*Passer domesticus*). *General and Comparative Endocrinology* 183: 32-37.
72. **Liebl, AL, AW Schrey, CL Richards, and **LB Martin.** 2013. Epigenetic variation: a mechanism to overcome reduced diversity in novel environments? *Integrative and Comparative Biology* 53: 351-358.
71. Parker, JD, ME Torchin, RA Hufbauer, NP Lemoine, C Alba, DM Blumenthal, O Bossdorf, JE Byers, AM Dunn, RW Heckman, H Hedja, V Jarošík, AR Kanarek, **LB Martin**, SE Perkins, P Pyšek, K Schierenbeck, C Schlöder, R van Klineken, KJ Vaughn, W Williams, and LM Wolfe. 2013. World's worst plant and animal invaders perform better abroad than at home. *Ecology* 94: 985-994.
70. Rohr, JR, TR Raffel, **NT Halstead, S Johnson, **TA McMahon, and **LB Martin**. 2013. Early-life exposure to an herbicide increases disease-induced mortality later in life. *Proceedings of the Royal Society of London B: Biological Sciences* 280: 20131502.
69. Schrey, AW, **M Alvarez, **C Foust, **H Kilvitis, **AL Liebl, **LB Martin**, CL Richards, and **M Robertson. 2013. Ecological epigenetics: beyond MS-AFLP. *Integrative and Comparative Biology* 53: 340-350.

2012

68. Cohen, AA, **LB Martin,** JC Wingfield, SR McWilliams, and JA Dunne. 2012. Physiological regulatory networks: ecological roles and evolutionary constraints. *Trends in Ecology and Evolution* 27: 428-435.
67. **Liebl, AL and **LB Martin**. 2012. Exploratory behaviour and stressor hyper-responsiveness facilitate range expansion of an introduced songbird. *Proceedings of the Royal Society of London B: Biological Sciences* 1746: 4375-4381.
66. **Lima, MR, RH Macedo, T Martins, AW Schrey, **LB Martin**, and S Bensch. 2012. Genetic and morphometric divergence of an invasive bird: the introduced house sparrow (*Passer domesticus*) in Brazil. *PLOS One* 7 (12) e53332.
65. **Martin, LB**, **AJ Brace, *A Urban, **CAC Coon, and ** AL Liebl. 2012. Does immune suppression to stressors occur to promote physical performance? *Journal of Experimental Biology* 215: 4097-4103.
64. **Martin, LB,** and **CAC Coon. 2012. Photoperiod-driven variation in an allergic response is independent of allergen exposure. *Canadian Journal of Zoology* 90: 1086-1093.

63. Owen, JC, **A. Nakamura, **CAC Coon, and **LB Martin**. 2012. The effect of exogenous corticosterone on West Nile virus infection in Northern Cardinals (*Cardinalis cardinalis*). *Veterinary Research* 43: 34-40.
62. Previtali, MA, RS Ostfeld**,** F Keesing, AE Jolles, **R Hanselmann, and **LB Martin**. 2012. Relationship between pace of life and immune response in wild rodents. *Oikos* 121: 1483-1492.
61. Rivers, JW, **AL Liebl, JC Owen, **LB Martin**, and MG Betts. 2012. Baseline corticosterone in nestlings predicts juvenile survival in a migrant songbird. *Functional Ecology* 26: 1127-1134.
60. Rohr, JR and **LB Martin**. 2012. Type I error is unlikely to hinder review recycling: a response to Montesino. *Trends in Ecology and Evolution* 27: 312-313.
59. Rohr, JR and **LB Martin**. 2012. Reduce, reuse, recycle scientific reviews. *Trends in Ecology and Evolution* 27: 192-193.
58. Schrey, AW, **CAC Coon, *MT Grispo, *M Awad, T Imboma, ED McCoy, CL Richards, HR Mushinsky, and **LB Martin**. 2012. Epigenetic variation may compensate for decreased genetic variation with introductions: a case study using house sparrows (*Passer domesticus*) on two continents. *Genetic Research International*, Article ID 979751.

2011

57. **Coon, CA, RW Warne, and **LB Martin**. Acute phase responses vary with pathogen identity in house sparrows. *American Journal of Physiology: Regulatory, Integrative, and Comparative Physiology* 300: R1418-R1425.
56. **Martin, LB**, *L Kidd, **AL Liebl, and **CAC Coon. 2011. Captivity induces hyperinflammation in house sparrows. *Journal of Experimental Biology* 214: 2579-2585.
55. **Martin, LB**, DM Hawley, and DR Ardia. 2011. An introduction to ecoimmunology. *Functional Ecology* 25: 1-4.
54. **Martin, LB**, **AL Liebl, **JH Trotter, CL Richards, K McCoy, and MW McCoy. 2011. Integrator networks: illuminating the black box linking genotype and phenotype. *Integrative and Comparative Biology* 51: 514-527.
53. **Martin, LB, ***E Andreassi, *W Watson, **CAC Coon. 2011. Stress and animal health: physiological mechanisms and ecological consequences. *Nature Education Knowledge* 2:11.
52. Marzal, A, RE Ricklefs, G Valkiūnas, T Albayrak, E Arriero, C Bonneaud, GA Czirják, J Ewen, O Hellgren, TA Iezhova, H Jensen, A Križanauskienė, MR Lima, F de Lope, E Magnussen, **LB Martin**, AP Møller, P Munclinger, V Palinauskas, PL Pap, J Pérez-Tris, R Sehgal, M Soler, E Szöllösi, H Westerdahl, P Zetindjiev, and S Bensch. 2011. Diversity, loss and gain of malarial parasites in a globally invasive bird. *PLOS One* 6 (7) e21905.
51. **McMahon, T, **N Halstead, S Johnson, TR Raffel, JM Romansic, PW Crumrine, RK Boughton, **LB Martin**, and JR Rohr. 2011. The fungicide chlorothalonil is nonlinearly associated with corticosterone levels, immunity and mortality in amphibians. *Environmental Health Perspectives* 119: 1098-1103.
50. Rivers, JW, **LB Martin**, **AL Liebl, and MG Betts. Parental alarm calls of the white-crowned sparrow fail to stimulate corticosterone production in their nest-bound offspring. *Ethology* 117: 374-384.
49. Schrey, AW, *M Grispo, *M Awad, *MB Cook, ED McCoy, HR Mushinsky, T Albayrak, S Bensch, L Butler, HB Fokidis, H Jensen, T Imboma, MM Kessler-Rios, A Marzal, IRK Stewart, H Westerdahl, DF Westneat, P Zehtindjiev, and **LB Martin**. Broad scale latitudinal patterns of genetic diversity among native European and

introduced house sparrow (*Passer domesticus*) populations. *Molecular Ecology* 20: 1133-1143.

48. **Sears, BF, JR Rohr, JE Allen, and **LB Martin**. 2011. The economy of inflammation: when is less more? *Trends in Parasitology* 27: 382-387.
47. **Trotter, JH, **AL Liebl, and ED Weeber, **LB Martin**. 2011. Linking ecological immunology and evolutionary medicine: the case for apolipoprotein E. *Functional Ecology* 25: 40-47.

2010

46. **Adelman, JS and **LB Martin**. 2010. Behavioral Endocrinology: immune systems and sickness behaviour. Encyclopedia of Animal Behavior. Chapter 263, Elsevier. (invited)
45. **Adelman, JS, GE Bentley, JC Wingfield, **LB Martin**, and M Hau. 2010. Population differences in fever and sickness behavior in a wild vertebrate: a role for cytokines. *Journal of Experimental Biology* 213: 4099-4109.
44. Cox, RM, EU Parker, DM Cheney, **AL Liebl, **LB Martin**, and R Calsbeek. 2010. Experimental evidence for physiological costs underlying the trade-off between reproduction and survival. *Functional Ecology* 24: 1262-1269.
43. **Kuhlman, JR, and **LB Martin**. 2010. Captivity affects immune redistribution to skin in a wild bird. *Functional Ecology* 24: 830-837.
42. **Martin, LB**, *JL Alam, T Imboma, and **AL Liebl. 2010. Variation in inflammation as a mediator of range expansion in Kenyan house sparrows. *Oecologia* 164:339-347.
41. **Martin, LB**, WA Hopkins, LD Mydlarz, and JR Rohr. 2010. The effects of anthropogenic global changes on immune functions and disease resistance. *Annals of the New York Academy of Sciences. The Year in Ecology and Conservation Biology* 1195: 129-148.
40. **Martin, LB** and CAC Coon. 2010. Infection protection and natural selection. *Science* 330: 602-603

2009

39. **Adelman, JS and **LB Martin**. 2009. Vertebrate sickness behavior: an adaptive and integrated neuroendocrine immune response. *Integrative and Comparative Biology* 49: 202-214. (invited)
38. **Liebl, AL and **LB Martin**. 2009. Simple quantification of antimicrobial capacity of blood using spectrophotometry. *Functional Ecology* 23: 1091-1096.
37, **Martin, LB**. 2009. Stress and immunity in wild vertebrates: timing is everything. *General and Comparative Endocrinology* 163: 70-76. (invited)
36. **Workman, JL, *E Johnson, **LB Martin**, and RJ Nelson. 2009. Butyric acid suppresses palatable food consumption in Siberian hamsters (*Phodopus sungorus*) housed in winter-, but not summer-like, conditions. *Canadian Journal of Zoology* 86: 749-754.

2008

35. **Martin, LB**, KJ Navara, MT Bailey, *CR Hutch, ND Powell, JF Sheridan, and RJ Nelson. 2008. Food restriction compromises immune memory in deer mice (*Peromyscus maniculatus*) by decreasing antibody-secreting splenic B-cells. *Physiological and Biochemical Zoology* 81: 366-372.
34. **Martin, LB**, **ZM Weil, SL Bowers, and RJ Nelson. 2008. Sex-specific effects of glucose deprivation on cell-mediated immunity and reproduction in Siberian hamsters (*Phodopus sungorus*). *Journal of Comparative Physiology B* 178: 623-628.
33. **Martin, LB**, and DR Rubenstein. 2008. Stress hormones in tropical birds: patterns and predictions, *Ornithologia Neotropical* 19: 207-218. (invited)

32. **Martin, LB,** **ZM Weil, and RJ Nelson. 2008. Fever and sickness behavior vary among congeneric rodents. *Functional Ecology* 22: 68-77.
31. **Martin, LB**, **ZM Weil, and RJ Nelson. 2008. Seasonal changes in vertebrate immune activity: mediation by physiological trade-offs. *Philosophical Transactions of the Royal Society of London B: Biological Sciences* 363: 321-339. (invited)
30. **Martin, LB**, *EM Johnson, *CR Hutch, and RJ Nelson. 2008. 6MBOA affects reproductive tissue, but not cutaneous immune activity, in white-footed mice (*Peromyscus leucopus*). *Comparative Biochemistry and Physiology A*149: 181-187
29. Raffel, TR, **LB Martin**, and JR Rohr. 2008. Parasites as predators: unifying natural enemy ecology. *Trends in Ecology and Evolution* 23: 610-618. (invited)
28. Rubenstein, DR, AF Parlow, *CR Hutch, and **LB Martin**. 2008. Environmental and hormonal correlates of immune activity in a cooperatively breeding tropical bird. *General and Comparative Endocrinology* 159: 10-15.
27. Wikelski, M, **LB Martin**, *MT Robinson, *ND Robinson, A Scheuerlein, M Hau, and E Gwinner. 2008. Avian circannual clocks: adaptive significance and possible proximate control by energy turnover. *Philosophical Transactions of the Royal Society of London B: Biological Sciences* 363: 411-423. (invited)

2007

26. **Martin, LB**, **ZM Weil, and RJ Nelson. 2007. Immune defense and reproductive pace of life in *Peromyscus* mice. *Ecology* 88: 2516-2528.
25. **Martin, LB**, KJ Navara, **ZM Weil, and RJ Nelson. 2007. Immunological memory is compromised by food restriction in deer mice, *Peromyscus maniculatus*. *American Journal of Physiology: Regulatory, Integrative, and Comparative Physiology* 292: R316-320.
24. **Martin, LB**, *MI Pless, and M Wikelski. 2007. Greater seasonal variation in blood and ectoparasite infections in a temperate than a tropical population of House Sparrows in North America. *Ibis* 149: 419-423.
23. **Martin, LB**, BC Trainor, *MS Finy, and RJ Nelson. 2007. HPA activity and neotic and anxiety-like behavior vary among *Peromyscus* species. *General and Comparative Endocrinology* 141: 342-350.
22. Nelson, RJ and **LB Martin**. 2007. Seasonal changes in stress responses. In: *Encyclopedia of Stress*. Vol.3 Edited by George Fink. Academic Press: New York. (invited)

2006

21. **Lee, KA, **LB Martin**, D Hasselquist, RE Ricklefs, and M Wikelski. 2006. Contrasting adaptive immune defenses and blood parasite prevalence in closely related *Passer* sparrows. *Oecologia* 150: 383-392.
20. **Martin, LB**, *P Han, *J Kwong, and M. Hau. 2006. Cutaneous immune activity varies with physiological state in female house sparrows (*Passer domesticus*). *Physiological and Biochemical Zoology* 79: 775-783.
19. **Martin, LB**, **ZM Weil, *JR Kuhlman, and RJ Nelson. 2006. Trade-offs within the immune system of female white-footed mice (*Peromyscus leucopus*). *Functional Ecology* 20: 630-636.
18. **Martin, LB,** *P Han, *J Lewittes, *JR Kuhlman, KC Klasing, and M Wikelski. 2006. Phytohemagglutinin (PHA) induced skin swelling in birds: histological support for a classic immunoecological technique. *Functional Ecology* 20: 290-300.
17. **Martin, LB,** **ER Glasper, RJ Nelson, and AC DeVries. 2006. Prolonged separation delays wound healing in monogamous California mice, *Peromyscus californicus*, but not in polygynous white-footed mice, *P. leucopus*. *Physiology and Behavior.* 87: 836-841.

16. **Martin, LB**, D Hasselquist, and M Wikelski. 2006. Investment in immune defense is linked to pace of life in house sparrows. *Oecologia* 147: 565-575.
15. **Martin, LB**, **ZM Weil, and RJ Nelson. 2006. Refining approaches and diversifying directions in ecoimmunology. *Integrative and Comparative Biology* 46: 1030-1039. (invited)
14. Trainor, BC, **LB Martin**, *KM Greiwe, *JR Kuhlman, and RJ Nelson. 2006. Social and photoperiod effects on reproduction in 5 *Peromyscus* species. *General and Comparative Endocrinology* 148: 252-259.
13. **Weil, ZM, **LM Pyter, **LB Martin**, and RJ Nelson. 2006. Perinatal photoperiod organizes adult immune responses in Siberian hamsters (*Phodopus sungorus*). *American Journal of Physiology: Regulatory, Integrative and Comparative Physiology* 290: R1714-1719.
12. **Weil, ZM, **LB Martin**, and RJ Nelson. 2006. Photoperiod differentially affects immune function and reproduction in collared lemmings (*Dicrostonyx groenlandicus*). *Journal of Biological Rhythms* 21: 384-393.
11. **Weil, ZM, **LB Martin**, **JL Workman, and RJ Nelson. 2006. Immune challenge retards seasonal reproductive regression: evidence for terminal investment. *Biology Letters* 2: 393-396.
10. **Weil, ZM, **LB Martin**, and RJ Nelson. 2006. Interactions among immune, endocrine, and brain in response to infection. In: *Macroparasites and Micromammals: from Evolutionary Ecology to Management*. Edited by Serge Morand, Boris Krasnov, and Robert Poulin. Springer-Verlag: New York. (invited)

2005

9. **Berger, S, **LB Martin**, M Wikelski, LM Romero, EKV Kalko, **MN Vitousek, and T. Rödl. 2005. Corticosterone, but not testosterone, suppresses immune activity in territorial Galápagos marine iguanas. *Hormones and Behavior* 47: 419-429.
8. *Greenman, CG, **LB Martin**, and M Hau. 2005. Reproductive state but not testosterone reduces immune function in male house sparrows (*Passer domesticus*). *Physiological and Biochemical Zoology* 78: 60-68.
7. **Lee, KA, **LB Martin**, and M. Wikelski. 2005. Responding to inflammatory challenges is less costly for a successful avian invader, the house sparrow (*Passer domesticus*), than its less invasive congener. *Oecologia* 145: 244-251.
6. **Martin, LB.** 2005. Trade-offs between molt and immune activity in two populations of house sparrows (*Passer domesticus*). *Canadian Journal of Zoology* 83: 780-787.
5. **Martin, LB,** and *L. Fitzgerald. 2005. A taste for novelty in invading house sparrows. *Behavioral Ecology* 16: 702-707.
4. **Martin, LB,** *J Gilliam, *P Han, **KA Lee, and M Wikelski. 2005. Corticosterone suppresses immune function in temperate but not tropical house sparrows (*Passer domesticus*). *General and Comparative Endocrinology* 140: 126-135.

2004

3. **Martin, LB,** *MI Pless, *J Svoboda, and M Wikelski. 2004. Immune activity in temperate and tropical house sparrows: a common garden experiment. *Ecology* 85: 2323-2331.

2003

2. **Martin, LB,** A Scheuerlein, and M Wikelski. 2003. Immune activity elevates energy expenditure of House Sparrows: a link between direct and indirect costs. *Proceedings of the Royal Society of London B Biological Sciences* 270: 153-158.

1. Hayden, TJ, RH Melton, B Willis, **LB Martin**, and T Beaty. 2003. Assessment of maneuver training activities on Red-Cockaded Woodpecker populations on Fort Stewart, GA. Construction Engineering Research Laboratory, ERDC/CERL TR-02-17.

Invited book reviews

1. **Martin, LB.** 2007. Invited review of Biology of the Ubiquitous House Sparrow: from Genes to Populations by Ted R. Anderson. *Journal of Field Ornithology* 78: 225-226.

GRANTS

Awarded

2017	NSF-IOS 1656618 (Cynthia Downs, PI; share to Martin lab: $517,695) *Collaborative Research: Constraints of biomass on innate immunity across terrestrial mammals*
2015	NSF-IOS 1257773 REU ($6000) *Stress hormone effects on disease resistance, tolerance and transmission*
2014	USF-CAS Internal Award ($1500) *Biomarkers for vertebrate pests: sparrows in Senegal*
2013-2018	NSF-IOS 1257773 (Tom Unnasch, co-PI: share to Martin lab $604,000) *Stress hormone effects on disease resistance, tolerance and transmission*
2012 -2104	NSF-DDIG 1209747 (Andrea Liebl, co-PI; $14,923) *Adaptive physiological and behavioral changes among populations undergoing range expansions*
2011	USF-CAS seed grant ($3,150)
2010-2015	NSF-IOS 0947177, Research Coordination Network, (Dan Ardia and Dana Hawley, co-PIs; share to Martin lab, $493,341) *Redefining and diversifying ecological immunology*
2009-2014	NSF-IOS 0920475 (sole PI, $434,059) *Physiological mediation of vertebrate invasions*
Prior to 2008	NSF-IOS symposium ($23,340) *Psychoneuroimmunology meets Integrative Biology*, symposium Scott's Company, *Project Blackbird* ($2,000) Scott's company, *Project Blackbird II* ($10,000) USF New Researcher Grant ($3,120)

Served as consultant

2014-2017	Agencia Nacional de Promocion Cientifica y Tecnologica (Argentina; Pablo Beldomenico, PI; ~$183,000 *Stress, host susceptibility and infection dynamics in wild rodents: unpacking the immune system*
2014-2017	NSF Postdoctoral Fellowship (Leone Brown, PI)

Invited full proposals

2017	NSF-DEB (role = senior personnel) *Hosts as heterogeneous landscapes: interspecific competition between ticks and its effects on tick-borne disease dynamics*
2016	NSF-IOS, pre-proposal (role = co-PI) *Constraints of body mass on innate immunity among terrestrial mammals.*
2015	NSF-IOS, pre-proposal (role = PI) *Invasiveness via developmental plasticity in the house sparrow*
2014	NSF-IOS, pre-proposal (role = collaborator; Kim Rosvall, PI) *Testing hypotheses of social priming without testosterone modulation*
2012	NSF-IOS, BSF Bi-national Integrative Organismal Systems pre-proposal

Invasiveness via phenotypic plasticity in house sparrows
NSF-IOS, pre-proposal
Stress hormone effects on resistance, tolerance, and competency
NSF-DEB, pre-proposal
Effects of past population fragmentation on genetic diversity and disease resistance in the Aegean lizard, Podarcis erhadii

Submitted proposals

2017
NSF-EEID (role = PI)
Light pollution effects on West Nile virus dynamics via heterogeneity in host competence
NSF-EEID (role = co-PI)
Forecasting the influences of drought, demography, physiology and host-vector aggregation on vector borne disease
NSF-IOS (role = collaborator)
Winging It: neurogenomics, immunity, and the stress response of single parents in a biparental system
USF Proposal Enhancement Grant
Using an introduced species to reveal how parasite surveillance evolves
NSF-DEB (role = co-PI)
Hosts as heterogeneous landscapes: interspecific competition between ticks and its effects on tick-borne disease dynamics

2016
NSF-EEID (role = PI)
Light pollution effects on West Nile virus dynamics via heterogeneity in host competence
NSF-IOS, pre-proposal (role = co-PI)
Using an introduced species to reveal how parasite surveillance evolves
NSF-IOS, pre-proposal (role = co-PI)
Constraints of body mass on innate immunity among terrestrial mammals.

2015
Morris Animal Foundation (role = co-PI)
What's size got to do with it? Scaling of immune function across four vertebrate class and seven orders of magnitude.
NSF-IOS, DDIG (role = PI; Co-PI, HJ Kilvitis)
Assessing whether individual covariation among flexible phenotypes facilitates success in a range expanding bird
NSF-IOS, full proposal (role = PI)
Invasiveness via developmental plasticity in the house sparrow
NSF-IOS, pre-proposal (role = co-PI)
What's size got to do with it? Scaling of immune function across four vertebrate class and seven orders of magnitude.
NSF-IOS, pre-proposal (role = PI)
Invasiveness via developmental plasticity in the house sparrow
NSF-DEB, pre-proposal (role = PI)
Developmental effects on disease dynamics via host competency
NSF-DEB, pre-proposal (role = co-PI)
Using an introduced species to reveal how parasite surveillance evolves
NSF-IOS, pre-proposal (role = collaborator)

Testing hypotheses of social priming without testosterone modulation

2014 NSF-IOS, pre-proposal (role = co-PI)
From hummingbirds to hippos: scaling of immune functions across four vertebrate classes.
NSF-IOS, pre-proposal (role = PI)
Invasiveness via developmental plasticity in the house sparrow
NSF-IOS, pre-proposal (role = collaborator)
Testing hypotheses of social priming without testosterone modulation
US-Israel Binational Science Foundation (role = co-PI)
Invasiveness via phenotypic plasticity in house sparrows

2013 American Asthma Foundation (role = co-PI)
Chronic social stress during development and impacts on asthma
Christine Stevens Wildlife Award (role = PI)
Effects of bird feeders on avian health and disease
Morris Animal Foundation (role = co-PI)
From hummingbirds to hippos: scaling of immune functions across four vertebrate classes.
NSF-Ecology of Emerging and Infectious Disease (role = co-PI)
An ecological framework to predict disease dynamics resulting from parasite interactions
NSF-DEB, pre-proposal (role = co-PI)
Host immune-mediated parasite interactions in an arbovirus system: helminthes, West Nile virus and avian hosts
NSF-IOS, pre-proposal (role = PI)
Stress hormone effects on resistance, tolerance, and competency
NSF-IOS (ICOB), full proposal (role = PI)
Invasiveness via phenotypic plasticity in house sparrows
US-Israel Bi-national Science Foundation (role = co-PI)
Role of genes and plasticity in invasiveness in Israeli house sparrows

2012 NSF-Ecology of Emerging and Infectious Disease
Trait-based disease ecology
NSF-IOS, EAGER
Costs of vertebrate immunity: do big animals pay more?
NSF-IOS, BSF Bi-national Integrative Organismal Systems pre-proposal
Invasiveness via phenotypic plasticity in house sparrows
NSF- Integrative Organismal Systems
Stress hormone effects on resistance, tolerance, and competency
NSF- Integrative Organismal Systems, pre-proposal
Stress hormone effects on resistance, tolerance, and competency
Christine Stevens Wildlife Award
Effects of bird feeders on avian health and disease
NESCent Catalysis meeting
A cross-species, evolution-based system for characterizing disease
Agencia Nacional de Promocion Cientifica y Tecnologica
Stress, host susceptibility and infection dynamics in wild rodents

2011 NSF-Ecology of Infectious Disease
Trait-based disease ecology
NSF, Integrative Organismal Systems (resubmission)
CAREER: *Stress-immune interactions in wild songbirds*

	NESCent Working Group *Development of an Integrated Curriculum for Evolutionary Medicine*
	NSF-IOS, ROA supplement, with Sara O'Brien, Marian University *Physiological mediation of vertebrate invasions*
	NESCent Catalysis Meeting *Physiological Regulatory Networks*
2010	NSF-Ecology of Infectious Disease *The mechanistic basis of the dilution effect*
	Morris Animal Foundation, Established Researcher *Captivity effects on wild animal immunity*
	NSF, Integrative Organismal Systems (resubmission) CAREER: *Stress-immune interactions in wild songbirds*
	NIH, R01: National Institute of Environmental Health Sciences *Do pesticides permanently reduce infectious disease resistance?*
2009	NIH, Challenge grant, National Institute of Environmental Health Sciences *Do pesticides permanently reduce infectious disease resistance?*
	NIH, R15: National Institute of Environmental Health Sciences *Do pesticides permanently reduce infectious disease resistance?*
	NSF, Integrative Organismal Systems CAREER: *Stress-immune interactions in wild songbirds*
	NSF, Research Collaborative Networks program (resubmission) *Redefining and diversifying ecological immunology*
	Oregon State University (co-PI) *How does increased temperature variability impact breeding birds and their offspring?*
	USF Interdisciplinary Research Grant *Development of novel immune assays for wild birds*
	National Geographic Explorer's Program (co-PI) *Population genetics of introduced house sparrows in Brazil*
2008	Beckman Young Investigator's Program *Urbanization and West Nile virus in house sparrows*
	NSF, Research Collaborative Networks program *Redefining and diversifying ecological immunology*
	NSF, Integrative Organismal Systems *The physiological basis of invasiveness in the House Sparrow*
	National Geographic Explorer's Program (co-PI) *Stress endocrinology of African songbirds*
	American Association of Veterinarians Small Grants program
2007	National Geographic Explorer's Program *The physiological basis of invasiveness in the House Sparrow*
	USF Internal: New Researcher Award *The physiological basis of invasiveness in the House Sparrow*

Fellowships

2004 – 2001	Pew Charitable Trusts, Training Program in Biocomplexity
2004 – 2001	US Environmental Protection Agency, Science to Achieve Results (STAR)

Travel awards

2018	Center for Integrative Ecology, Deakin University, Australia
2012	USF International Faculty Travel Grant
2007	University of South Florida, Patel Center
	Society of Behavioral Neuroendocrinology

2004 Society of Integrative and Comparative Biology
2001 Princeton Association of Graduate Alumni
2000 Ecology and Evolutionary Biology, University of Illinois
Graduate College Conference, University of Illinois
Association of Field Ornithologists
1999 Virginia Society of Ornithology

Other awards

2000 Top 5% of Teaching Assistants university-wide, University of Illinois
Inductee, Alpha Phi Alpha Honor Society
Biology Graduate Student of the Year, VCU
Best Talk in Evolution, University of Illinois Graduate Student Symposium
1997 Governor's Fellowship, Office of Governor George Allen, Virginia

PRESS COVERAGE

2016 Extensive coverage for *Proceedings B* article on stress hormones:
http://wildlife.org/more-stress-for-birds-means-higher-chances-of-west-nil
http://www.wtsp.com/mb/news/local/stress-and-mosquito-bites/295456336#
https://www.sciencedaily.com/releases/2016/08/160810084631.htm
http://phys.org/news/2016-08-stress-mosquitobird-interactions.html
2016 'Immunology Gone Wild' article in *Bioscience*, February issue
2013 LA Times, Sacramento Bee, Science Daily; atrazine and chytridiomycosis
2012 Phys Org. Behavioral epigenetics in ecology
Phys Org. Stress hormones and behavior in Kenyan sparrows.
2011 *Frontiers in Ecology and the Environment* article on ecoimmunology
2010 *Faculty of 1000, Biology* review of article in *Functional Ecology*
The Scientist magazine, http://www.the-scientist.com/news/display/57921/
2008 "Biologist Saves Sparrows for Study," Tampa Bay's News 10, 4/2/2008
Physiological and Biochemical Zoology article (Vol. 81, pp. 366-372)
AMP, AOL, Bio-medicine.org, Biology News Net, CBS 2, Daily India, Dr. Koop.com, EurekAlert, Florida Today, Forbes, GenNews, Grand Junction Daily Sentinel, Health Day News, Health Central, Health Scout, Huliq, IBNLive, Innovations Report, KAIT, KATC, KCAU, KFVS-12, KHNL, KLFY, KLKN, KLTV, KMPH Fox 26, KNVA, KOTA, KPLC, KRDO, KRIS, KRON4, KTRV, KVBC, KVOA, KXAN, KXLY, Labspaces.net, LEX18, Medical News Today, MedicineNet.com, MSN.com, New Kerala, NetIndia 123, News-Medical-Net, Phys Org, Poughkeepsie Journal, Red Orbit, Salt Institute, Scott and White, Science Centric, Science Daily, Science Ticker, Scientist Live, Springfield News Sun, SurfWax, The Naked Scientists, Times of India, US News and World Report, WAAY, WALB, WALD, WAND, WANE, Washington Post, WATE, WAVE, WECT, WHBF, WFIE, WFLX, WLFI, WIS, WKRN, WMC, WOI, Women's Health.gov, WRIC, WTEN News, Yahoo News
2007 *Functional Ecology* article (Vol. 22, pp. 68-77)
Nature Reviews Microbiology, The Post Chronicle, Spektrumdirekt, Medi-Lexicon, Innovations Report, Medical News Today, EurekAlert, United Press International, Earth Times, News-Medical.Net, Science Daily, Science Now, VetsCite.Org
Functional Ecology article (Vol. 20, pp. 290-300)
Thomson Essential Science Indicators "hot-paper" in Ecology
2006 *Research focus* paper in *Trends in Ecology and Evolution* for *Functional Ecology* article (Vol. 20, pp. 290-300). Kennedy, MW, and RG Nager. 2006. The perils and prospects of using phytohemagglutinin in evolutionary

ecology. *TREE* 21, pp. 653-655

2005 *Faculty of 1000, Biology* review of article in *General and Comparative Endocrinology* (Vol. 140, pp. 126-135)
Faculty of 1000, Biology review of article in *Physiological and Biochemical Zoology* (Vol. 78, pp. 60-68)

2004 Spotlight on Science at the Smithsonian for article in *Ecology* (Vol. 85, pp. 2323-2331)

2003 Lead article for home page of *Proc Roy Soc Lond B* (Vol. 270, Issue 1511)

TEXTBOOK HIGHLIGHTS OF RESEARCH

2009 Avian Invasions. Blackburn, Lockwood, and Cassey, eds. Highlight of Martin and Fitzgerald, 2005, Behavioral Ecology.

2008 Avian immunology, Davison, Kaspers, and Schat, eds. Highlight of Martin et al., 2004, Ecology

INVITED SEMINARS, SYMPOSIA, AND WORKSHOPS

2018 Deakin University
Monash University
University of Tasmania
University of Woolongong

SICB, San Francisco, CA, *HormoneBase*
SICB, San Francisco, CA, *Anthropogenic effects on wildlife performance*

2017 SICB, New Orleans, LA, *Integrative Life History and Performance* symposium
Florida Fish and Wildlife, Southwest Regional meeting

2016 SICB, Portland, OR, *Integrative Animal Behavior* symposium
ESA, Ft. Lauderdale, *Resource Provisioning and Human-Pathogen Interactions in Human Modified Habitats* symposium
North Dakota State University, Biology
HormoneBase meeting, Kochel, Germany
Northern Arizona University, NSF-RCN workshop

2015 Cary Institute for Ecosystems Studies, Millbrook NY
University of Florida, Biology
University of Alabama, Biology
University of Wisconsin, Zoology
University of Montana, OEB
SICB, West Palm Beach, FL, *Cognition in a changing world* symposium
2nd Workshop on Ecological and Behavioral Physiology, Bariloche, Argentina (plenary speaker)

2014 American Physiological Society, Comparative Physiology, San Diego, CA
Animal Behavior Society, *Behavior and Disease Ecology*, Princeton, NJ
NSF/NASA workshop, Stress in the Healthy Organism, Arlington, VA
NSF workshop, Integrative Animal Behavior, New York Genome Center
Colorado State University, Department of Biology
XIX International Course on Behavior, University of Guanajato, Mexico
NSF-RCNE workshop in Ecoimmunology, Woods Hole, MA
University of Memphis, Department of Biological Sciences

2013 Duke University, Univ. Prog. in Ecology (Graduate Student invited speaker)
The Wildlife Society, 'Urbanization' symposium, Milwaukee, WI
University of South Florida, Global Health
Western Michigan University, Biological Sciences (endowed lecture series)
University of Virginia, Biology

2012 National Museums of Kenya, Nairobi, Kenya
Bucknell University, Biology (Darwin Day speaker)
International Society for Avian Endocrinology, Gifu, Japan
University of Florida, Animal Molecular and Cellular Biology Program

2011 University of Tartu (Estonia)
University of Georgia, Ecology
Oregon State University, Veterinary Science
Penn State University, Center for Infectious Disease Dynamics

2010 University of Edinburgh (Scotland)
Tufts University (Graduate Student invited speaker)
University of North Carolina (Graduate Student invited speaker)
Wake Forest University

2009 Archbold Biological Station, Venus, FL
George A. Bartholomew Award lecture, Society for Integrative and Comparative Biology, Boston MA
University of Kentucky, Department of Biology

2008 Cary Institute for Ecosystems Studies, Millbrook NY
University of Central Florida, Department of Biology
NSF Research Collaborative Network: Integrating the Ecology and Evolution of Invasions, Prague, Czech Republic
University of South Florida, Department of Psychology
University of Tampa, Department of Biology

2007 Auburn University, Department of Biological Sciences
Society for Behavioral Neuroendocrinology, Pacific Grove, CA
VIII Neotropical Ornithological Conference, Maturín, Venezuela
UNC Wilmington, Department of Biology and Marine Biology
Oklahoma State University, Department of Zoology
Boise State University, Department of Biology
University of South Florida, Department of Biology
University at Albany, Department of Biological Sciences
University of South Carolina, Department of Biological Sciences
Kansas State University, Division of Biology

2006 University of Buffalo, Department of Biological Sciences
North American Ornithological Congress, Veracruz, Mexico
Constraints of the Evolutionary Diversification of the Life Histories of Temperate and Tropical Birds symposium
College of Wooster, Department of Biology
Society of Integrative and Comparative Biology, Orlando, FL.
Ecological Immunology: Recent Advances and Applications for Conservation and Public Health symposium

2005 University of Montana, Division of Biological Sciences
Eastern Michigan University, Department of Biology
Ohio State University, Behavioral Neuroscience Program

2003 121st meeting of the American Ornithologist's Union, Champaign, IL
S. Charles Kendeigh, Symposium

SYMPOSIA ORGANIZED

2019 Society for Integrative and Comparative Biology, Tampa, FL
The scale of sickness (with Cynthia Downs)

2018 Deakin University Center for Integrative Ecology
Host competence (with Kate Buchanan)

2014 American Physiological Society, San Diego, CA
Ecology and evolution of homeostasis (with Art Woods)

2013 RCN Ecoimmunology, Berlin, Germany

2011 RCN Ecoimmunology, Edinburgh, Scotland

2010 RCN Ecoimmunology, Tampa, FL

2009 Society for Integrative and Comparative Biology, Boston, MA.
Psychoneuroimmunology Meets Integrative Biology.

2008 American Ornithologist's Union, Young Investigator Symposium

2006 XXIV International Ornithological Congress, Hamburg, Germany.
Comparative avian immunology: from poultry to passerine (with Dennis Hasselquist)

CONFERENCE PRESENTATIONS

1) Hanson, HE, HJ Kilvitis, DR Ardia, and **LB Martin**. Behavioral traits influential to range expansions: evidence from Senegalese house sparrows. 2017 Society of Integrative and Comparative Biology, New Orleans, LA.
2) **Martin, LB**, AW Schrey, HE Hanson, and HJ Kilvitis. The role of corticosterone as an integrator in avian range expansions. 2017 Society of Integrative and Comparative Biology, New Orleans, LA.
3) **Martin, LB**, DG Barron, ND Burkett-Cadena, SC Burgan, SS Gervasi, AK Uysal, and T Shimizu. Individual variation and covariation in vector-borne disease directed behaviors. 2016 Society of Integrative and Comparative Biology, Portland, OR.
4) Uysal, AK, DG Barron, **LB Martin**, and T Shimizu. Effects of early life challenges on adult life success in zebra finches. International Comparative Cognition Conference, Melbourne Beach, FL.
5) Kilvitis, HJ, AW Schrey, and **LB Martin**. Epigenetic regulation of Toll-like receptor 4 expression as a facilitator of invasiveness in Kenyan house sparrows. 2016 Society of Integrative and Comparative Biology, Portland, OR.
6) Bautista, TR, CJ Downs, R Ball, NA Dochtermann, S Murphy, and **LB Martin**. Immunity scales with body mass among terrestrial mammals. 2016 Society of Integrative and Comparative Biology, Portland, OR.
7) Gervasi, SS, SC Burgan, ND Burkett-Cadena, TR Unnasch, and **LB Martin**. Vector consequences of feeding preferences in the West Nile virus system. 2016 Society of Integrative and Comparative Biology, Portland, OR.
8) Burgan, SC, SS Gervasi, and **LB Martin**. From tolerance to transmission: the implications of repeated West Nile virus exposure. 2016 Society of Integrative and Comparative Biology, Portland, OR.
9) Gervasi, SS, SC Burgan, ND Burkett-Cadena, AW Schrey, H Hassan, TR Unnasch, and **LB Martin**. Vector preferences and host defenses in the West Nile virus system: a role for avian stress hormones? 2016 Society of Integrative and Comparative Biology, Portland, OR.
10) Gervasi, SS, SC Burgan, ND Burkett-Cadena, AW Schrey, H Hassan, TR Unnasch, and **LB Martin**. The role of stress hormones on avian competence to transmit West Nile virus. 14th Annual Ecology and Evolution of Infectious Disease meeting, Ithaca, NY.
11) **Martin, LB**, Gervasi, SS, SC Burgan, ND Burkett-Cadena, AW Schrey, H Hassan, and TR Unnasch. The role of stress hormones on avian host competence for West Nile virus. Ecological Society of America, Ft. Lauderdale, FL.

12) Barron, DG, T Shimizu, ND Burkett-Cadena, and **LB Martin**. Behavioral and neurological correlates of avian vector avoidance strategies. 13th Annual Ecology and Evolution of Infectious Disease meeting, Athens, GA.
13) Burgan, SC, SS Gervasi, and **LB Martin**. Age-dependency of avian cytokine balances in response to West Nile virus. 2015 Society of Integrative and Comparative Biology, West Palm Beach, FL.
14) Burgan, SC, SS Gervasi, and **LB Martin**. Cytokines: mediators of defense and drivers of variation in host competence. 13th Annual Ecology and Evolution of Infectious Disease meeting, Athens, GA.
15) Kilvitis, HJ, M Boruta, L Mole, N Perez, CL Richards, and **LB Martin**. Effects of early-life stressors on sickness behaviors in adulthood in zebra finches. 2015 Society of Integrative and Comparative Biology, West Palm Beach, FL.
16) Gervasi, SS, AM Bingham, SC Burgan, TR Unnasch, and **LB Martin**. Age-dependency of avian responses to West Nile virus. 2015 Society of Integrative and Comparative Biology, West Palm Beach, FL.
17) Gervasi, SS, N Burkett-Cadena, AW Schrey, H Hassan, TR Unnasch, and **LB Martin**. Vector preferences and host defenses in the West Nile virus system: a role for avian stress hormones? 13th Annual Ecology and Evolution of Infectious Disease meeting, Athens, GA.
18) **Martin, LB** and AL Liebl. 2015. The role of glucocorticoids on range expansion behaviors in Kenyan house sparrows. 2015 Society of Integrative and Comparative Biology, West Palm Beach, FL.
19) Schrey, AW and **LB Martin**. 2015. Toll-like receptor 4 sequence variation and range expansion in house sparrows. 2015 Society of Integrative and Comparative Biology, West Palm Beach, FL.
20) Boruta, M, HJ Kilvitis, S Kelp, B Everett, and **LB Martin**. Impacts of different developmental stressors on adult traits in zebra finches. 2014 Society of Integrative and Comparative Biology, Austin, TX.
21) Brace, AJ, S Sheikali, and **LB Martin**. Infection and temperature affect resource allocation in an introduced ectotherm. 2014 Society of Integrative and Comparative Biology, Austin, TX.
22) Kilvitis, HJ, AL Liebl and **LB Martin**. Stress-immune interactions in a range-expanding bird: covariation in stress hormone and Toll-like receptor expression. 2014 Society of Integrative and Comparative Biology, Austin, TX.
23) Liebl, AL and **LB Martin**. Plasticity in response to novelty: changes throughout a range expansion. 2014 Society of Integrative and Comparative Biology, Austin, TX.
24) **Martin, LB** and AL Liebl. Individual physiological plasticity in an avian range expansion. 2014 Society of Integrative and Comparative Biology, Austin, TX.
25) **Martin, LB** and AA Cohen. Physiological regulatory networks: the music of life? 2014 APS Comparative meeting, San Diego, CA.
26) **Martin, LB**. Physiological heterogeneity and disease in an avian range expansion. 2014 Animal Behavior Society, Princeton, NJ.
27) **Martin, LB**. Physiological heterogeneity and disease in an avian range expansion. 2014. 19th annual international course on behavior. Guanajuato, Mexico.
28) Brace, AJ, CAC Coon, MD McCue, SR McWilliams, and **LB Martin**. Resource allocation and range expansion in the Kenyan house sparrow. 2013 Society of Integrative and Comparative Biology, San Francisco, CA.
29) Coon, CAC, AJ Brace, and **LB Martin**. Resistance and tolerance in invasive and native songbirds: evidence of parasite spillback? 2013 Society of Integrative and Comparative Biology, San Francisco, CA.

30) Kilvitis, HJ, M Boruta, CL Richards, and **LB Martin**. Does early-life exposure to bacteria have enduring effects on the immune system of zebra finches? 2013 Society of Integrative and Comparative Biology, San Francisco, CA.
31) Liebl, AL, JH Trotter, SL Kellogg, T Fiorelli, and **LB Martin**. Variation in hippocampal-dependent behaviors and neurogenesis during a range expansion. 2013 Society of Integrative and Comparative Biology, San Francisco, CA.
32) Liebl, AL, AW Schrey, CL Richards, and **LB Martin**. Epigenetic variation: a mechanism to overcome reduced genetic diversity in novel environments? 2013 Society of Integrative and Comparative Biology, San Francisco, CA. (invited).
33) **Martin, LB**. Physiological mechanisms of range expansion. 2013. The Wildlife Society, Milwaukee, WI.
34) **Martin, LB**, DR Ardia, and DM Hawley. A Research Coordination Network in Ecological Immunology. 15th International Congress of Immunology, Milan, Itlay.
35) **Martin, LB** and AL Liebl. Plasticity in physiological plasticity in an avian range expansion. Ecological Society of America, Minneapolis, MN.
36) Richards, CL, M Boruta, O Bossdorf, CAC Coon, C Foust, R Hughes, H Kilvitis, AL Liebl, **LB Martin**, A Nicotra, M Robertson, and AW Schrey. Epigenetic mechanisms of phenotypic plasticity. 2013 Society of Integrative and Comparative Biology, San Francisco, CA. (invited)
37) Schrey, AW, M Alvarez, C Faust, H Kilvitis, AL Liebl, **LB Martin**, CL Richards, and M Robertson. Ecological epigenetics: beyond MS-AFLP. 2013 Society of Integrative and Comparative Biology, San Francisco, CA. (invited)
38) Boruta, M, and **LB Martin**. 2012. Does variation in host physiology occur in urban-rural habitat types? Society for Integrative and Comparative Biology, Charleston, SC.
39) Brace, AJ, M Boruta, AL Liebl and **LB Martin**. 2012. The effects of captivity on immune function and physical performance in house sparrows. Society for Integrative and Comparative Biology, Charleston, SC.
40) Coon, CAC and **LB Martin**. 2012. Are invasive house sparrows released from avian malaria over small spatiotemporal scales? Ecology and Evolution of Infectious Disease Annual Meeting. Ann Arbor, MI.
41) Coon, CAC and **LB Martin**. 2012. Are invasive house sparrows released from avian malaria over small spatiotemporal scales? Research Coordination Network workshop in Ecological Immunology. Ann Arbor, MI.
42) Coon, CAC and **LB Martin**. 2012. Do changes in parasite prevalence facilitate range expansion of Kenyan house sparrows (*Passer domesticus*)? Society for Integrative and Comparative Biology, Charleston, SC.
43) Liebl, AL, A Garringer, AS Sierra, D Wiley, and **LB Martin**. Variation in glucocorticoid stress response and behavior along a gradient of invasive house sparrows (*Passer domesticus*). Society for Integrative and Comparative Biology, Charleston, SC.
44) Liebl, AL, and **LB Martin**. Seasonal variation in glucocorticoid regulation in house sparrows (*Passer domesticus*). Society for Integrative and Comparative Biology, Charleston, SC.
45) **Martin, LB**, DR Ardia, and DM Hawley. A Research Coordination Network in Ecological Immunology. Society for Integrative and Comparative Biology, Charleston, SC.
46) **Martin, LB**, CAC Coon, AW Schrey, CL Richards, and AL Liebl. Physiological mechanisms of range expansion in the house sparrow. International society of avian Endocrinology, Gifu, Japan (invited symposium talk).
47) Schrey, AW, AL Liebl, CL Richards, and **LB Martin**. The relative significance of genetic and epigenetic diversity for house sparrow colonization of Kenya. Society for Integrative and Comparative Biology, Charleston, SC.

48) Coon, CAC, C Caruana, E Andreassi, S McLaughlin, AL Liebl, T Imboma, and **LB Martin**. Preliminary examination of parasites in invasive Kenyan house sparrow. 9th annual Ecology and evolution of infectious disease meeting, Santa Barbara, CA.
49) Coon, CAC, C Caruana, E Andreassi, S McLaughlin, AL Liebl, T Imboma, and **LB Martin**. Preliminary examination of parasites in invasive Kenyan house sparrow. MalariaRCN workshop, Shepherdstown, WV.
50) Kidd, L, CAC Coon, and **LB Martin**. Captivity affects acute phase responses in house sparrows. Society for Integrative and Comparative Biology, Salt Lake City, UT.
51) Liebl, AL, CAC Coon, CC Ledon-Rettig, and **LB Martin**. Variation in glucocorticoid regulation among invasive Kenyan house sparrows (*Passer domesticus*). North American Society of Comparative Endocrinology, Ann Arbor, MI.
52) **Martin, LB,** CAC Coon, A Brace, and AL Liebl. Variation in the regulation of inflammation along a house sparrow range expansion. North American Society of Comparative Endocrinology, Ann Arbor, MI.
53) **Martin**, **LB,** AL Liebl, CAC Coon, CL Richards, and AW Schrey. Physiological mechanisms of range expansion in Kenyan house sparrows. Society for Integrative and Comparative Biology, Salt Lake City, UT.
54) Rohr, JR, RK Boughton, NT Halstead, SA Johnson, TR Raffel, T McMahon, and **LB Martin**. Pesticide exposure during development increases mortality to infections in adulthood. Society for Integrative and Comparative Biology, Salt Lake City, UT.
55) Rohr, JR, T McMahon, **LB Martin**, S Johnson, and TR Raffel, Amphibian and reptile ecotoxicology: interactions among contaminants and other stressors. 32nd annual SETAC meeting, Boston, MA.
56) Rohr, JR, T McMahon, N Halstead, **LB Martin**, TR Raffel, JM Romansic, RK Boughton, PW Crumrine, and S Johnson. Fungicide-induced dclines of freshwater biodiversity modify ecosystem functions and services. 32nd annual SETAC meeting, Boston, MA.
57) Sears, BF, JR Rohr, and **LB Martin**. The contribution of anti-parasite behavior to resistance and tolerance of trematode infections in larval anurans. Society for Integrative and Comparative Biology, Salt Lake City, UT.
58) Sears, BF, JR Rohr, and **LB Martin**. Resistance to trematode parasites carries a developmental cost in anuran tadpoles. American Society of Parasitologists, Anchorage, AK.
59) Urban, AM, CAC Coon, AL Liebl, and **LB Martin**. Does immune suppression occur to free resources for other physiological processes? Society for Integrative and
60) Liebl, AL, E Schmidt, and **LB Martin**. Physiological correlates of neophobic behavior: Is regulation of the hypothalamic-pituitary-adrenal axis correlated to responses to novelty? Society for Integrative and Comparative Biology, Seattle, WA.
61) Liebl, AL, and **LB Martin**. Hypothalamic-pituitary-adrenal regulation and neophilia in captive house sparrows. International Ornithological Congress, Campo de Jordao, Brazil.
62) **Martin, LB,** AL Liebl, JL Alam, LK Butler, B Faivre, T Imboma, JR Kuhlman, LM Romero, I Stewart, G Sorci, DF Westneat, and KA Lee. Altered inflammatory responses as facilitators of introductions in the house sparrow. Society for Integrative and Comparative Biology, Seattle, WA.
63) **Martin, LB,** AL Liebl, JL Alam, LK Butler, B Faivre, T Imboma, JR Kuhlman, LM Romero, I Stewart, G Sorci, DF Westneat, and KA Lee. Global variation in house sparrow immune functions. International Ornithological Congress, Campo de Jordao, Brazil.
64) Owen, JC, A Nakamura, CA Coon, and **LB Martin**. The effect of corticosterone on resistance to West Nile virus in an avian reservoir. International Ornithological Congress, Campo de Jordao, Brazil.

65) Previtali, A, R Hanselmann, RS Ostfeld, F Keesing, AE Jolles, **LB Martin**. Does variation in host immune function explain differences in reservoir competence among small mammals? Ecological Society of America, Pittsburgh, PA.
66) Rivers, JW, MG Betts, AL Liebl, JC Owen, and **LB Martin**. Assessing whether the corticosterone stress response predicts post-fledging survival in a temperate passerine. 128th American Ornithologists Union, San Deigo, CA.
67) Schrey, AW, M Grispo, M Awad, ED McCoy, HR Mushinsky, T Albayrak, S Bensch, H Jensen, A Reynolds, H Westerdahl, P Zehtindjiev, and **LB Martin**. Microsatellite analysis of population structure in the house sparrow. 127th American Ornithologists Union, Philadelphia, PA.
68) Schrey, AW, CAC Coon, ED McCoy, HR Mushinsky, and **LB Martin**. Epigenetic variation in two populations of house sparrows. 127th American Ornithologists Union, Philadelphia, PA.
69) Rivers, JW, **LB Martin**, AL Liebl, and MG Betts. 2009. Alarm calls of white-crowned sparrow parents fail to stimulate corticosterone production in their offspring. 127th American Ornithologists Union, Philadelphia, PA.
70) Owen, JC, **LB Martin**, and A Nakamura. 2009. Reservoir competence of Northern Cardinals for West Nile Virus: the role of stress hormones. Michigan State University Veterinary Medicine conference, East Lansing, MI.
71) Coon, CA, RW Warne, and **LB Martin**. 2009. Unconventional sickness behaviors after immune activation in a wild passerine. Society for Behavioral Neuroendocrinology, East Lansing, MI.
72) Liebl, AL, N Tu, CAC Coon, and **LB Martin**. 2009. Development of quantitative real-time PCR tools for ecological immunologists: surmounting technological limitations in the field. Society for Behavioral Neuroendocrinology, East Lansing, MI.
73) Alam, JL, AL Leibl, H. Bobby Fokidis, and **LB Martin**. 2009. Are the immune systems of tropical birds glucocorticoid resistant? Society for Integrative and Comparative Biology, Boston, MA.
74) Kuhlman, JR and **LB Martin**. 2009. Stress effects on immunity in house sparrows. Society for Integrative and Comparative Biology, Boston, MA.
75) Leibl, AL, JL Alam, and **LB Martin**. 2009. Rapid quantification of bactericidal capacity of avian plasma. Society for Integrative and Comparative Biology, Boston, MA.
76) Coon, C, JS Adelman, and **LB Martin**. 2009. Development of a simple assay to measure an integral pro-inflammatory cytokine in songbird blood. Society for Integrative and Comparative Biology, Boston, MA.
77) Kuhlman, JR and **LB Martin**. Acute stress effects on immunity in the house sparrow. 2008. 126th American Ornithologists Union, Portland, OR.
78) Kuhlman, JR and **LB Martin**. Acute stress effects on immunity in the house sparrow. 2008. International Society of Avian Endocrinology, Leuven, Belgium.
79) **Martin, LB**, ZM Weil, and RJ Nelson. 2008. Fever and sickness behavior vary among congeneric rodents. Psychoneuroimmunology Research Society, Madison, WI.
80) **Martin, LB**, ZM Weil, KJ Navara, CR Hutch, C Tuthill, I Zucker, and RJ Nelson. 2008. Melatonin organizes the immune system of Siberian hamsters. Society for Integrative and Comparative Biology, San Antonio, TX (poster).
81) **Martin, LB**, ZM Weil, and RJ Nelson. 2008. Fever and sickness behavior vary among congeneric rodents. Society for Integrative and Comparative Biology, San Antonio, TX.
82) **Martin, LB**, J Gilliam, P Han, KA Lee, and M Wikelski. 2007. Corticosterone suppresses immune activity in temperate, but not tropical, house sparrows. Neotropical Ornithological Congress, Maturín, Venezuela.

83) **Martin, LB**, M Wikelski, and RJ Nelson. 2007. Geographic variation in glucocorticoids: influences on immunity and behavior. Society for Behavioral Neuroendocrinology, Young Investigator Symposium, Pacific Grove, CA.
84) Lee, KA, KC Klasing, **LB Martin** , L. Fusani, G. Sorci, B. Faivre, and M Wikelski. 2007. Immune defense strategies differ between invasive New World House Sparrows and their Old World ancestors. Evolutionary change in human altered environments: an international summit, UCLA.
85) Lee, KA, KC Klasing, WD Robinson, **LB Martin**, and M Wikelski. 2007. Ecological and life history correlates of immune defenses in tropical birds. Ecological Society of America, Symposium 21: Epidemics, Ecological Immunology, and Environmental Change: Insights from Theory and Field Systems, San Jose, CA.
86) Navara, KJ, **LB Martin**, ZM Weil, and RJ Nelson. 2007. Immunological memory is compromised by food restriction in male deer mice, *Peromyscus maniculatus*. Society of Integrative and Comparative Biology, Phoenix AZ (poster).
87) **Martin, LB** and M Wikelski. 2006. Life history and immune activity in house sparrows. North American Ornithological Congress, Veracruz, Mexico.
88) **Martin, LB** and M Wikelski. 2006. Life history and immune activity in house sparrows. XXIV International Ornithological Congress, Hamburg, Germany.
89) **Martin LB** and RJ Nelson. 2006. Fever and sickness behavior in fast- and slow-living *Peromyscus*. Society of Behavioral Neuroendocrinology, Pittsburgh, PA. (poster).
90) **Martin, LB**, ZM Weil, and RJ Nelson. 2006. The immune defenses of wild rodents: model systems for bridging conservation, medicine, and ecophysiology. Society of Integrative and Comparative Biology, Orlando, FL.
91) Lee, KA, **LB Martin**, and M Wikelski. 2005. Do immune defense strategies differ between invasive New World populations of the House Sparrow and their Old World ancestors? Society of Integrative and Comparative Biology, San Diego, CA.
92) **Martin, LB,** AK Hotchkiss, ZM Weil, and RJ Nelson. 2005. Fitness costs of induced immune activity in Siberian hamsters. Society of Integrative and Comparative Biology, San Diego, CA.
93) **Martin, LB**, BC Trainor, K Greiwe, JR Kuhlman, and RJ Nelson. 2005. Social and photoperiod effects on reproduction in species of *Peromyscus*. Society for Neuroscience, Washington, DC. (poster).
94) **Martin, LB,** LM Pyter, K Tsutsui, K Ukena, RJ Nelson, and GE Bentley. 2005. Effects of GnIH on immunity in Siberian hamsters. Society of Behavioral Neuroendocrinology, Austin TX. (poster).
95) Berger, S, **LB Martin**, M Wikelski, EKV Kalko, and T Rödl. 2003. Immune function, steroid hormones, and male reproductive strategies in the Galápagos marine iguana, *Amblyrynchus cristatus.* Animal Behavior Society Meeting, Boise, ID. (poster).
96) Lee, KA, **LB Martin**, and M Wikelski. 2004. Sex influences immune responses differently in the House Sparrow and a monomorphic congener, the Eurasian Tree Sparrow. Society of Integrative and Comparative Biology, New Orleans, LA.
97) **Martin, LB**, and M Wikelski. 2004. Tropical house sparrows use more costly immune defenses than their temperate counterparts. Society of Integrative and Comparative Biology, New Orleans, LA.
98) **Martin, LB**, J Lewittes, KC Klasing, and M Wikelski. 2004. Neotropical house sparrows use more costly immune defenses than their North-temperate counterparts. Society of Integrative and Comparative Biology, New Orleans, LA. (poster).
99) Hayden, TJ, RH Melton, B Willis, **LB Martin**, and T Beaty. 2003. Effects of maneuver training activities on the Red-cockaded Woodpecker population on Fort Stewart, GA. 121st Meeting of the American Ornithologists Union, Champaign, IL.

100) Lee, KA, **LB Martin**, and M Wikelski. 2003. A role for the immune system in biological invasions? 121st Meeting of the American Ornithologists Union, Champaign, IL.
101) **Martin, LB**, MI Pless, J Svoboda, and M Wikelski. 2003. Climatic seasonality influences life history traits and immune function in tropical and temperate House Sparrows: a common garden experiment. 121st Meeting of the American Ornithologists Union, Champaign, IL.
102) **Martin, LB.** Trade-offs between molt and immune activity in North-temperate and Neotropical House Sparrows (*Passer domesticus*). 2003. 121st Meeting of the American Ornithologists Union, Champaign, IL. (poster).
103) Pless, MI, **LB Martin**, and M Wikelski. 2003. Parasite load in House Sparrows from two latitudes. 121st Meeting of the American Ornithologists Union, Champaign, IL (poster).
104) **Martin, LB**, and M Wikelski. 2002. Do long-lived passerines have greater immunological competence? Cell-mediated immune activity in tropical and temperate House Sparrows (*Passer domesticus*). XXIII International Ornithological Conference, Beijing, China.
105) **Martin, LB,** A Raim, L Pater, and M Wikelski. 2002. Examining foraging behavior of Bicolored Antbirds using microphone-assisted telemetry. 119th Meeting of the American Ornithologists Union, Seattle, WA. (poster).
106) **Martin, LB**, and M Wikelski. 2000. Effects of testosterone on interaction between immunocompetence and basal metabolic rate in the House Sparrow, *Passer domesticus*. VIII International Conference on Behavioral Ecology, Zurich, Switzerland.
107) **Martin, LB.** 2000. Woodpecker abundance and distribution in a managed hardwood forest. Combined Meeting of the Wilson Society and Association of Field Ornithologists, Galveston, TX.
108) **Martin, LB**. 1998. Snags preferred for foraging and excavating by eastern North American woodpeckers. Annual Meeting of the Virginia Society of Ornithology, Reston, VA.

TEACHING and MENTORING

2017	University of South Florida, The Extended Synthesis (BSC 4933)
	University of South Florida, Evolutionary Medicine (BSC 4933)
	University of South Florida, Stress in Wildlife (BSC 6932)
	University of South Florida, Disease Biology (BSC 4933; 6932)
2016	University of South Florida, Evolutionary Medicine (BSC 4933)
	University of South Florida, Evolution in 4 Dimensions (BSC 6932)
	University of South Florida, Disease Biology (BSC 4933; 6932)
2015	University of South Florida, Evolutionary Medicine (BSC 4933)
	University of South Florida, Disease Biology (BSC 4933; 6932)
	University of South Florida, Int Org Biology (BSC 6932)
2014	University of South Florida, Lectures in Contemporary Bio (BSC 6933)
	University of South Florida, Introduction to Biodiversity (BSC 2011)
	University of South Florida, Disease Biology (BSC 4933; 6932)
2013	University of South Florida, Physiological Ecology (BSC 4933)
	University of South Florida, Evolutionary Medicine (BSC 4933)
2012	University of South Florida, Ecoimmunology (BSC 4933)
	University of South Florida, Introduction to Biodiversity (BSC 2011)
	University of South Florida, Evolutionary Medicine (BSC 4933)
2011	University of South Florida, Lectures in Contemporary Bio (BSC 4933)
	University of South Florida, Lectures in Contemporary Bio (BSC 4933)
	University of South Florida, Introduction to Biodiversity (BSC 2011)

	University of South Florida, The Extended Synthesis (BSC 4933)
	University of South Florida, Physiological Ecology (BSC 4933)
2010	University of South Florida, Ecoimmunology (BSC 4933)
	University of South Florida, Evolutionary Medicine (BSC 4933)
2009	University of South Florida, Immunology in Context (BSC 4933)
	University of South Florida, Introduction to Biodiversity (BSC 2011)
	University of South Florida, Evolutionary Medicine (BSC 4933)
	University of South Florida, Advanced Vertebrate Ecophysiology (2x)
2008	University of South Florida, Physiological Ecology (BSC 4933/6932)
	University of South Florida, Evolutionary Medicine (BSC 4933)
2003	Princeton University, Guest lecturer, Comparative Physiology
2002	Princeton University, Teaching Assistant, Introductory Biology
2001	Princeton University, Teaching Assistant, Tropical Ecology
1999	University of Illinois, Teaching Assistant, Introductory Biology
1997 – 1999	Virginia Commonwealth University, Teaching Assistant, Intro. Biology

Postdoc advisees

2017 – present	Laura Schoenle, PhD, 2017, Virginia Tech

Alumni

2014-2017	Leone Brown, PhD, 2012
2014-2015	Steph Gervasi, PhD; current: Postdoc, Monell Center, PA
2014	Doug Barron, PhD; current: Visiting Asst Professor, Arkansas State U.
2011	Cris Ledon-Rettig, PhD; current: postdoc, Indiana U

Graduate advisees

Complete

2017	Holly Kilvitis, PhD; current: teaching assistant, USF IB
2016	Amber Brace, PhD, current: TBD.
2016	Sarah Burgan, MS, current: seeking new employment
2014	Martyna Boruta, MS, current: adjunct instructor, HCC
2014	Courtney Coon, PhD, current: wildlife biologist, Felidae Conservation Fund
2013	Andrea Liebl, PhD, current: Assistant Professor, U. South Dakota
2010	Joshua Kuhlman, MS, current: SWFMD

In progress

Haley Hanson, PhD expected, May 2021
Meredith Kernbach, PhD expected, May 2021

Undergraduate honors theses

2015	Samantha Murphy
2014	Lisette Mole
2013	Chloe Josefson (PhD student, Auburn, Hood lab)
2012	Allesandra Araujo (MS student, Indiana State, Warne lab), Brittany Leigh (PhD student, USF Marine Sciences, Breitbart lab), Desirae Wiley
2011	Alexandra Urban (Vet student, U Florida)
2010	Laura Kidd (Med student, USF), Jaymin Patel (Med student, USF)
2009	Sean Argo, Nerlyne Desravines, Elaine Rindfuss (MS, Lund University, Sweden), Nhan Tu (PhD student, USF Medicine)

Undergraduate honors thesis committee

2009	Andrea Schlunk

Undergraduate research advisees

2017	Kiley Chernicky, Thomas Daniel, Natasha Infante, Alexandra Johncola, Lauren Kenney, Kate Kleiber, Urszula Komenda, Natale Maycock, Ben Meyer, Jeanette Miller, Eric Presley, Shawn Zamani, Jaime Zolik
2016	Haley Hanson, Laura Hebert, Jeanette Miller, Samantha Murphy
2015	Travis Bautista, Laura Hebert, Shadi Homayoun, Ian Ford, Jeanette Miller, Lisette Mole, Samantha Murphy
2014	Travis Bautista, Ian Ford, Lisette Mole, Steffanie Munguia, Nicole Perez
2013	Travis Bautista, Bo Everett, Ryan Holbrook, Chloe Josefson, Sarah Kelp, Jen Marvin, Lisette Mole, Steffanie Munguia, Nicole Perez, Shreenath Rajendran, Amanda Rigney, Sam Sheikali
2012	Allesandra Araujo, Travis Bautista, Yuya Burkhart, Bo Everett, Ryan Holbrook, Chloe Josefson, Sarah Kelp, Brittany Leigh, Cristina Ruiz Lorenzo, Sara McLaughlin, Steffanie Munguia, Ahn-My Nguyen, Sasha Sierra, Victoria Simenson, Desirae Wiley
2011	Allesandra Araujo, Amber Brace, Chris Caruana, Celina Diego, Ashley Garringer, Melinda Fang, Brittany Leigh, Cristina Ruiz Lorenzo, Holly Kilvitis, Sara McLaughlin, Ahn-My Nguyen, Jennie Nwokoye, Staci Reed, Roanak Shah, Sasha Sierra, Victoria Simenson, Alex Urban, Desirae Wiley
2010	Elizabeth Andreassi, Amber Brace, Chris Caruana, Melinda Fang, Ashley Garringer, Laura Kidd, Brittany Leigh, Sara McLaughlin, David Nicholson, Jaymin Patel, Evelyn Schmidt, Roanak Shah, Alexandra Urban, Will Watson
2009	Jen Alam, Said Awad, Mohammed Awad, Patrick Blackburn, Matthew Cook, Nerlyne Desravines, Ashley Garringer, Laura Kidd, Brittany Leigh, Neel Nabar, David Nicholson, Jaymin Patel, Chad Ponce, Evelyn Schmidt, Justin Trotter, Alexandra Urban, Will Watson
2008	Ohio State: Eric Johnson, Brandon Pollak USF: Jen Alam, Sean Argo, Said Awad, Mohammed Awad, Patrick Blackburn, Jonathan Dawson, Laura Kidd, Max Miller, Tri Nguyen, Trina Patel, Shauna Pittman, Elaine Rindfuss, Ed Thrombley, Nahn Tu
2005 – 2007	Ohio State: Mike Hamway, Chelsea Hutch, Josh Kuhlman, Eric Johnson, Brandon Pollak
2002 – 2003	Princeton: Jessica Gilliam, Chris Greenman, Peggy Han, Jason Lewittes, Monica Pless, Julia Svoboda

Graduate thesis committee membership

2017-present	Alexandra Kenkins (Global Health) Kristi Miley (Global Health)
2016 – present	Chloe Ramsay (IB)
2013-2014	Blaire O'Neal (Env Sci Policy)
2012-2017	Ahmet Kerim Uysal (Psychology)
2011-2017	Anna Rivara (Anthropology)
2010-2012	Christina Kobasa (IB)
2014-present	Erin Sauer (IB)
2007 – 2013	Chris Anderson, Lance Arvidson, Kerry Bohl, Jayne Gardiner, Taeghan McMahon, Nick Osman

Post-doctoral fellowship application sponsorships

2015	John Eimes, Marie Curie Fellowship
2014	Leone Brown, NSF Biomathematics Fellowship (awarded)

2012	Roi Dor, Marie Curie Career Re-integration Grant (Israel, U Tel Aviv)
	Leone Brown, NIH Ruth Kirchstein Fellowship
2011	Leone Brown, Life Sciences Research Foundation
2009	Cris Ledon-Rettig, NSF Minority Post-doctoral Fellowship (awarded)
	Peter Pap, Marie Curie Fellowship application
2008	Jim Rivers, Smith Fellowship, Society for Conservation Biology
2008	Dustin Rubenstein, eBIRD travel grant awardee (NSF-RCN, awarded)
2007	Jim Rivers, Co-PI for NSF International Post-doctoral Fellowship

External PhD thesis examiner:

2016	Ntaki Senoge, University of Kawazulu-Natal, South Africa (Downs lab)
2014	Laurentian University (Ontario), Darryl Edwards (Schulte-Hostedde lab)
2011	University of Tartu (Estonia), Elin Sild (Horak lab)

SERVICE

Founder and co-host

2017-present *Big Biology* podcast (https://www.bigbiology.org)

Founder

2014 Division of Ecological Immunology and Disease Ecology, Society for Integrative and Comparative Biology

Chair

2014-2015 Division of Ecological Immunology and Disease Ecology, Society for Integrative and Comparative Biology

Editorial service

2015-present	Editor-in-Chief, *Integrative and Comparative Biology*
2017-2020	Editorial Advisory Board, *Journal of Experimental Biology*
2016-2019	Editorial Board, *Biology Letters*
2010 – 2015	Editorial Board, *Functional Ecology*
2010 – present	Editorial Board, *Proceedings of the Royal Society of London, B*
2009 - 2011	Guest Editor, *Functional Ecology*, Ecological Immunology Issue

Professional organizations

2007 – 2009	Member, Psychoneuroimmunological Research Society
2005 – 2014	Member, Society of Behavioral Neuroendocrinology
2004 – 2006	Member, Ecological Society of America
2001 – present	Member, Society for Integrative and Comparative Biology
2001 – present	Full member, Sigma Xi Scientific Honor Society
2000 – 2007	Member, Alpha Phi Alpha Honor Society
1999 – present	Member, American Ornithologists Union
1996 – 1997	President, Graduate Organization of Biology Students, VCU

Professional committees

2014-present	SICB Executive Council
2013 – 2017	George Bartholomew Award committee, SICB-DCPB
2011 – 2012	Student Award Committee, American Ornithologists Union
2009 – 2010	Chair, Awards Committee, American Ornithologists Union
2007 – 2009	Awards Committee, American Ornithologists Union

2007 – 2009 Early Professional Committee, American Ornithologists Union

University of South Florida

2011 – 2013 Graduate Council (and Curriculum subcommittee member)

University of South Florida, College of Arts and Sciences

2014-2015 Graduate Committee
2010-2012 Instructor Promotion Committee

University of South Florida, School of Natural Sciences and Mathematics

2014-2015 Tenure and Promotion Committee
2012-2013 Search Committee, Computational Science cluster hire

University of South Florida, College of Public Health

2017 Eukaryotic pathogen faculty search
2017-2018 Genomics faculty search

University of South Florida Integrative Biology service

2015-2016 USF-IB Disease Biologist Search Committee (chair)
2014 USF-IB Graduate Admissions and Policy Committee (chair)
2012-2014 USF-IB Visibility Committee
2011 USF-IB Internal Chair Search Committee
2013 – 2014 USF-IB Faculty Advisory Committee
2010 – 2013 USF-IB Faculty Advisory Committee
2008 – 2010 USF-IB Graduate Admissions and Policy Committee
2008 – 2010 USF-IB Seminar Committee
2009 USF-IB Instructor Search Committee
2009 USF-IB Disease Biologist Search Committee

Panel service

2018 National Science Foundation, Committee of Visitors, Integrative Organismal Systems
2016 National Science Foundation, IEP (full proposals)
2016 National Science Foundation, Self-Defense and Symbiosis (pre-proposals)
2015 National Science Foundation, Animal Behavior (full proposals)
2015 National Science Foundation, Animal Behavior (pre-proposals)
2013 National Science Foundation, Animal Behavior (pre-proposals)
2012 National Science Foundation, Animal Behavior (pre-proposals)
2010 National Science Foundation, Organism-Environment Interactions

Ad hoc peer review

Journals: Acta Zoologica Sinica, Aging Cell, American Journal of Physiology, American Naturalist, Animal Conservation, Auk, Behavioral Ecology, Behavioral Ecology and Sociobiology, Biology Letters, Brain, Behavior, and Immunity, Canadian Journal of Zoology, Cancer Immunology and Immunotherapy, Comparative Biochemistry and Physiology A, Current Biology, Current Medical Research and Opinion, Developmental and Comparative Immunology, General and Comparative Endocrinology, Ecography, Ecological Monographs, Ecology, Ecology Letters, Environmental Science and Technology, Ethology, Evolution, Evolutionary Ecology, Frontiers in Molecular Innate Immunity. Functional Ecology, Herpetologica, Ibis, Integrative and Comparative Biology, Journal of Avian Biology, Journal of Experimental Biology, Journal of Evolutionary Medicine, Journal of Heredity, Journal of Neuroendocrinology, Journal of Ornithology,

Molecular Ecology, Oecologia, Physiological and Biochemical Zoology, PLOS One, Polar Biology, Proceedings of the Royal Society of London B: Biological Sciences, Science, Studies in Avian Biology, Trends in Ecology and Evolution, Trends in Parasitology, Wilson Journal of Ornithology

Grantors: The US - Israel Bi-national Agricultural Research and Development Fund (BARD); Polish Narodowe Centrum Nauki; Netherlands Organisation for Scientific Research; NSF IOS Functional and Regulatory Systems; National Environmental Research Council; Wolfson College (Cambridge U.) Junior Research Fellow competition

Book publishers: Princeton University Press, Elsevier, Sinauer

Journal quality control: Nature reader panel

PUBLIC OUTREACH

2014-2017	*Science Works Theater*: Pick Your Brain, with Museum of Science and Industry, Tampa, FL
2014	Judge, Hillsborough County Science Fair, 3-5 grades, Tampa Convention Center, February
	Judge, 59th State Science and Engineering Fair of Florida, Lakeland, April
2008	Judge, Student Presentations, Society for Integrative and Comparative Biology (2 divisions)
2006	Judge, Student Presentations, North American Ornithological Congress
	Judge, Ohio Academy of Sciences, State Science Day
2005	Judge, Denman Undergraduate Research Forum, Ohio State University
	Speaker, Career Day, Mansion Day School, Columbus OH
	Interpreter, Brain Awareness Week, COSI Science Center, Columbus OH
2004	Contributor, National Institute of Invasive Species Science Database
	Advocate, New York Bird Monitoring, Wildlife Conservation Society

RESEARCH NETWORK MEMBERSHIPS:

2017-present: G2P2POP (https://nau.edu/cbi-rcn-g2p2pop)
Steering Committee member

2010-2014: GIN-RCN: Integrating the Ecology and Evolution of Invasions (http://invasionsrcn.si.edu/)

2009-present: HOSPnet: a network of 23 domestic and international house sparrow researchers

2012 – present: MalariaRCN (http://malariarcn.org/)