

## Travis Cole Glenn

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### EDUCATION

- Ph.D. 1997. Zoology -- ecology, evolution, and behavior emphasis, University of Maryland, College Park, MD. Dissertation Title: *Genetic bottlenecks in long-lived vertebrates*.  
M.S. 1990. Natural Resources -- wildlife science emphasis, School of Natural Resources, University of Michigan, Ann Arbor, MI. Thesis Title: *Genetic variation in Michigan elk (*Cervus elaphus*)*.  
B.S. 1989. Animal Ecology with Honors & Distinction -- biotechnology emphasis, Iowa State University, Ames, IA.

### PROFESSIONAL EMPLOYMENT

- 2016-present Associate Director, Institute of Bioinformatics, University of Georgia  
2007-present Associate Professor, Environmental Health Science, University of Georgia  
2007-2012 Georgia Genomics Facility Faculty Director, University of Georgia  
2002-2007 Assoc. Director, Institute for Biol. Research and Training, Univ. of South Carolina  
1998-2007 Adjunct Asst./Assoc. Professor, Dept. of Biological Sciences, Univ. of South Carolina  
1998-2007 Asst./Assoc. Research Scientist, Savannah River Ecology Lab, University of Georgia  
1997-1998 Post-doctoral Researcher, Dept. of Biology, University of South Carolina  
1992-1996 Pre-doctoral Research Fellow, Smithsonian Institution, Washington, DC

### Adjunct Faculty Appointments and Affiliations (unpaid)

Current: Anhui Normal University, Wuhu, China, Dept. of Biol. Sci, Univ. of Alabama, UGA: Dept. of Genetics, Institute of Bioinformatics, Odum School of Ecology, Center for Contextual Genetics and Prevention Science, Center for the Collaborative Study of Gene- Social Environment Transactions, Faculty of Infectious Diseases, Biomedical & Health Sciences Institute, Savannah River Ecology Lab, Interdisciplinary Toxicology Program

Previous: School of Forestry & Natural Resources, UGA, School of the Environment, Univ. of South Carolina

### PUBLICATIONS (numbered chronologically in each category – Articles, Notes, Books, etc.)

7313 citations, h-index = 37, i10-index = 102 at Google Scholar, as of 6/29/2017

For updated citation count, see: <http://scholar.google.com/citations?hl=en&user=UdTPdOUAAAAJ>

*postdoctoral*, *graduate student* and *undergraduate or high school student* authors are indicated

### Peer-reviewed Articles (genetic resource notes are numbered & listed separately):

#### Manuscripts Accepted, In Press, or On-line Early

107. **Glenn, T. C.**, R. Nilsen, T. J. Kieran, J. W. Finger Jr., T. W. Pierson, K. E. Bentley, S. L. Hoffberg, S. Louha, F. J. García-De León, M. A. D. R. Portilla, K. D. Reed, J. L. Anderson, J. K. Meece, S. E. Aggrey, R. Rekaya, M. Alabady, M. Bélanger, K. Winker, B. C. Faircloth. Adapterama I: Universal stubs and primers for thousands of dual-indexed Illumina libraries (iTru & iNext). Accepted at Molecular Ecology Resources, pending minor revisions, available at <http://biorxiv.org/content/early/2016/06/15/049114>

#### Publications In Print (or final on-line version is available for on-line only publications)

106. Crowshaw, D., J. Pechmann, and **T.C. Glenn**. 2017. Multiple paternity benefits female marbled salamanders by increasing survival of progeny to metamorphosis. *Ethology* 123:307-315. doi: 10.1111/eth.12597
105. Finger, J.W., M.T. Hamilton, T.C. Glenn, and T.D. Tuberville. 2017. Dietary selenomethionine administration in the American alligator (*Alligator mississippiensis*): hepatic and renal Se accumulation and its effects on growth and body condition. *Archives of Environmental Contamination and Toxicology* 72(3):439-448. doi 10.1007/s00244-017-0370-4. PMID: 28150020
104. Gilbert, G.S., J. O. Ballesteros, C. A. Barrios-Rodriguez, E. F. Bonadies, M. L. Cedeño-Sánchez, N. J. Fossatti-Caballero, M. M. Trejos-Rodríguez, J. M. Pérez-Suñiga, K. S. Holub-Young, L. A.W. Henn, J. B. Thompson, C. G. García-López, A. C. Romo, D. C. Johnston, P. P. Barrick, F. A. Jordan, S. Hershovich, N. Russo, J. D. Sánchez, J. P. Fábrega, R. Lumpkin, H. A. McWilliams, K. N. Chester, A. C. Burgos, E. B. Wong, J. H. Diab, S. A Renteria, J. T. Harrower, D. A. Hooton, T. C. Glenn, B. C. Faircloth, S. P. Hubbell. 2016. Use of sonic tomography to detect and quantify wood decay in living trees. *Applications in Plant Sciences* 4(12):1600060. doi: 10.3732/apps.1600060
103. Finger, J.W., M.T. Hamilton, B.S. Metts, T.C. Glenn, and T.D. Tuberville. 2016. Chronic ingestion of coal fly-ash contaminated prey and its effects on health and immune parameters in juvenile American alligators (*Alligator mississippiensis*). *Archives of Environmental Contamination and Toxicology* 71(3): 347-358. doi:[10.1007/s00244-016-0301-9](https://doi.org/10.1007/s00244-016-0301-9)
102. Scholpa, N. E., R. T. Kolli, M. Moore, R. D. Arnold, T. C. Glenn, and B. S. Cummings. 2016. Nephrotoxicity of epigenetic inhibitors used for the treatment of cancer. *Chem Biol Interact* 258:21-29. doi: 10.1016/j.cbi.2016.08.010
101. Rothrock, M. J. Jr., A. Locatelli, **T. C. Glenn**, J. C. Thomas, A. C. Caudill, B. H. Kiepper, and K. L. Hiatt. 2016. Assessing the microbiomes of scalding and chiller tank waters throughout a typical commercial poultry processing day. *Poultry Science* 95(10):2372-2382. doi:10.3382/ps/pew234
100. Harvey, M. G., B. T. Smith, T. C. Glenn, B. C. Faircloth, and R. T. Brumfield. (2016) Sequence capture versus restriction site associated DNA sequencing for shallow systematics. *Systematic Biology* 65(5):910-24. doi: 10.1093/sysbio/syw036
99. **Glenn, T. C.**, B. C. Faircloth. 2016. Capturing Darwin's dream. *Molecular Ecology Resources* 16(5):1051-1058. doi: 10.1111/1755-0998.12574, PMID: 27543423
98. Hoffberg, S. L., T. J. Kieran, J. M. Catchen, A. Devault, B. C. Faircloth, R. Mauricio, T. C. Glenn. 2016. RADcap: Sequence capture of dual-digest RADseq libraries with identifiable duplicates and reduced missing data. *Molecular Ecology Resources* 16(5):1264-1278. doi: 10.1111/1755-0998.12566, PMID:27416967
97. Meiklejohn, K. A., B. C. Faircloth, **T. C. Glenn**, R. T. Kimball, and E. L. Braun. 2016. Analysis of a rapid evolutionary radiation using ultraconserved elements (UCEs): Evidence for a bias in some multispecies coalescent methods. *Systematic Biology* 65(4): 612-627. doi: 10.1093/sysbio/syw014
96. Pierson, T. W., A. M. McKee, S. F. Spear, J. C. Maerz, C. Camp, and T. C. Glenn. 2016. Detection of an enigmatic plethodontid salamander using environmental DNA. *Copeia* 104(1):78-82.
95. Wong, K., T. I. Shaw, A. Oladiende, T. C. Glenn, B. Oakley, and M. Molina. 2016. Rapid microbiome changes in freshly deposited cow feces under field conditions. *Frontiers in Microbiology* 7:500 doi: 10.3389/fmicb.2016.00500
94. Bréchnignac, F., D. Oughton, C. Mays, L. Barnhouse, J. C. Beasley, A. Bonisoli-Alquati, C. Bradshaw, J. Brown, S. Dray, S. Geras'kin, **T. Glenn**, K. Higley, K. Ishida, L. Kapustka, U. Kautsky, W. Kuhne, M. Lynch, T. Mappes, S. Mihok, A. Moller, C. Mothersill, T. Mousseau, J. Otaki, E. Pryakhin, O. E. Rhodes Jr., B. Salbu, P. Strand, H. Tsukada. 2016. Addressing ecological effects of radiation on populations and ecosystems to improve protection of the environment against radiation: Agreed statements from a Consensus Symposium. *Journal of Environmental Radioactivity* 158-159:21-29.

93. Hosner, P. A., B. C. Faircloth, **T. C. Glenn**, E. L. Braun, and R. T. Kimball. 2016. Avoiding missing data biases in phylogenomic inference: an empirical study in the landfowl (Aves: Galliformes). *Molecular Biology and Evolution* 33(4):1110-1125. doi:10.1093/molbev/msv347, online 12/29/2015
92. Wang, J., L. Tang, **T. Glenn**, and J.S. Wang. 2016. Aflatoxin B1 induced compositional changes in gut microbial communities of male F344 rats. *Toxicological Sciences*. 150(1): 54-63. doi:[10.1093/toxsci/kfv259](https://doi.org/10.1093/toxsci/kfv259) online 25 Nov. 2015
91. Edwards, S. V., Z. Xi, A. Janke, B. C. Faircloth, J. E. McCormack, **T. C. Glenn**, B. Zhong, S. Wu, E. M. Lemmon, A. R. Lemmon, A. D. Leaché, L. Liu, and C. C. Davis. 2016. Implementing and testing the multispecies coalescent model: A valuable paradigm for phylogenomics. *Molecular Phylogenetics and Evolution* 94:447-462. doi:10.1016/j.ympev.2015.10.027 online 27 Oct. 2015
90. Rushmore, J., A. B. Allison, E. E. Edwards, U. Bagal, S. Altizer, M. R. Cranfield, **T. C. Glenn**, H. Liu, A. Mudakikwa, L. Mugisha, M. N. Muller, R. M. Stumpf, M. E. Thompson, R. Wrangham, and M. J. Yabsley. 2015. Screening wild and semi-free ranging great apes for putative sexually transmitted diseases: Evidence of Trichomonadidae infections. *American Journal of Primatology* 77(10):1075-1085. doi: 10.1002/ajp.22442 online 26 June 2015 PMID: 26119266
89. McKee, A. M., D. L. Calhoun, W. J. Barichivich, S. F. Spear, C. S. Goldberg, and **T. C. Glenn**. 2015. Assessment of environmental DNA for detecting presence of imperiled aquatic amphibian species in isolated wetlands. *Journal of Fish and Wildlife Management* 6(2):498-510. doi: 10.3996/042014-JFWM-034
88. Graham, C. F., **T. C. Glenn**, A. McArthur, D. R. Boreham, T. Kieran, S. Lance, R. G. Manzon, J. A. Martino, T. Pierson, S. M. Rogers, J. Wilson, C. M. Somers. 2015. Impacts of degraded DNA on Restriction enzyme Associated DNA Sequencing (RADSeq). *Molecular Ecology Resources* 15:1304-1315. doi: 10.1111/1755-0998.12404
87. Stephens, J.D., W.L. Rogers, K. Heyduk, J. M. Cruse-Sanders, R. O. Determann, **T. C. Glenn**, and R. L. Malmberg. 2015. Resolving phylogenetic relationships of the recently radiated carnivorous plant genus *Sarracenia* using target enrichment. *Molecular Phylogenetics and Evolution* 85:76-87.
86. Crawford, N. G., J. F. Parham, A. B. Sellas, B. C. Faircloth, **T. C. Glenn**, T. J. Papenfuss, and W. B. Simison. 2015. A phylogenomic analysis of turtles. *Molecular Phylogenetics and Evolution* 83:250-257. doi: 10.1016/j.ympev.2014.10.021
85. Temple, B. L., J. W. Finger Jr., C. A. Jones, J. D. Gabbard, T. Jelesijevic, E. W. Uhl, R. J. Hogan, **T. C. Glenn**, and S. M. Tompkins. 2015. *In ovo* and *in vitro* susceptibility of American alligators to avian influenza virus infection. *Journal of Wildlife Diseases* 51(1):187-198. doi: [10.7589/2013-12-321](https://doi.org/10.7589/2013-12-321)
84. Green, R.E., E.L. Braun, J. Armstrong, D. Earl, N. Nguyen, G. Hickey, M.W. Vandewege, J.A. St John, S. Capella-Gutiérrez, T.A. Castoe, C. Kern, M.K. Fujita, J.C. Opazo, J. Jurka, K.K. Kojima, J. Caballero, R.M. Hubley, A.F. Smit, R.N. Platt, C.A. Lavoie, M.P. Ramakodi, J.W. Finger Jr., A. Suh, S.R. Isberg, L. Miles, A.Y. Chong, W. Jaratlerdsiri, J. Gongora, C. Moran, A. Iriarte, J. McCormack, S.C. Burgess, S.V. Edwards, E. Lyons, C. Williams, M. Breen, J.T. Howard, C.R. Gresham, D.G. Peterson, J. Schmitz, D.D. Pollock, D. Haussler, E.W. Triplett, G. Zhang, N. Irie, E.D. Jarvis, C.A. Brochu, C.J. Schmidt, F.M. McCarthy, B.C. Faircloth, F.G. Hoffmann, **T.C. Glenn**, T. Gabaldón, B. Paten, and D.A. Ray. 2014. Three crocodylian genomes reveal ancestral patterns of evolution among archosaurs. *Science* 346:1335. DOI: 10.1126/science.1254449
83. Jarvis, E.D., S. Mirarab, A.J. Aberer, B. Li, P. Houde, C. Li, S.Y.W. Ho, B.C. Faircloth, B. Nabholz, J.T. Howard, A. Suh, C.C. Weber, R.R. da Fonseca, J. Li, F. Zhang, H. Li, L. Zhou, N. Narula, L. Liu, G. Ganapathy, B. Boussau, M.S. Bayzid, V. Zavidovych, S. Subramanian, T. Gabaldón, S. Capella-Gutiérrez, J. Huerta-Cepas, B. Rekepalli, K. Munch, M. Schierup, B. Lindow, W.C. Warren, D. Ray, R.E. Green, M. Bruford, X. Zhan, A. Dixon, S. Li, N. Li, Y. Huang, E.P. Derryberry, M. F. Bertelsen, F.H. Sheldon, R.T. Brumfield, C.V. Mello, P.V. Lovell, M. Wirthlin, M.P.C. Schneider, F. Prosdocimi, J.A. Samaniego, A.M.V. Velazquez, A. Alfaro-Núñez, P.F. Campos, B. Petersen, T. Sicheritz-Ponten, A. Pas, T. Bailey, P. Scofield, M. Bunce, D.M. Lambert, Q. Zhou, P. Perelman, A.C. Driskell, B. Shapiro, Z. Xiong, Y. Zeng, S. Liu, Z. Li, B. Liu, K. Wu, J. Xiao, X. Yinqi, Q. Zheng, Y. Zhang, H. Yang, J. Wang, L. Smeds, F.E. Rheindt, M. Braun, J. Fjeldsa, L. Orlando, K. Barker, K. Andreas Jønsson, W. Johnson, K.-P. Koepfli, S.

- O'Brien, D. Haussler, O.A. Ryder, C. Rahbek, E. Willerslev, G.R. Graves, **T.C. Glenn**, J. McCormack, D. Burt, H. Ellegren, P. Alström, S.V. Edwards, A. Stamatakis, D.P. Mindell, J. Cracraft, E. L. Braun, T. Warnow, W. Jun, M.T.P. Gilbert, G. Zhang. 2014. Whole genome analyses resolve early branches in the tree of life of modern birds. *Science* 346:1320-1331. DOI: 10.1126/science.1253451
82. Jaratlerdsiri, W., J. Deakin, R. Godinez, X. Shan, D. G. Peterson, S. Marthey, E. Lyons, F. M. McCarthy, S. R. Isberg, D. P. Higgins, A. Y. Chong, J. St John, **T. C. Glenn**, D.A. Ray, and J. Gongora. 2014. Comparative genome analyses reveal distinct structural variation in the saltwater crocodile MHC. *PLoS ONE* 9(12):e114631. doi:10.1371/journal.pone.0114631
81. Smith, B. T., J. E. McCormack, A. M. Cuervo, M. Hickerson, A. Aleixo, C. D. Cadena, J. Pérez-Emán, C. W. Burney, X. Xia, M. G. Harvey, B. C. Faircloth, **T. C. Glenn**, E. P. Derryberry, J. Prejean, S. Fields, and R. T. Brumfield. 2014. The drivers of tropical speciation. *Nature* 515:406-409. (20 Nov., 2014) doi:10.1038/nature13687 (online 10 September 2014) PMID: 25209666
80. Sun, K., K. A. Meiklejohn, B. Faircloth, **T. Glenn**, E. L. Braun, and R. T. Kimball. 2014. The evolution of peafowl and other taxa with ocelli (eyespot): a phylogenomic approach. *Royal Society B: Biological Sciences* 281:20140823. doi: 10.1098/rspb.2014.0823
79. Meiklejohn, K. A., M. J. Danielson, B. C. Faircloth, **T. C. Glenn**, E. L. Braun, and R. T. Kimball. 2014. Incongruence among different mitochondrial regions: A case study using complete mitogenomes. *Molecular Phylogenetics and Evolution* 78:314-323.
78. Kenney-Hunt, J., A. Lewandowski, **T. C. Glenn**, J. L. Glenn, O. V. Tsyusko, R. J. O'Neill, J. Brown, C. M. Ramsdell, Q. Nguyen, T. Phan, K. S. Shorter, M. J. Dewey, G. Szalai, P. B. Vrana, and M. R. Felder. 2014. A genetic map of *Peromyscus* with chromosomal assignment of linkage groups (a *Peromyscus* genetic map). *Mammalian Genome* 25(3-4):160-179. DOI: 10.1007/s00335-014-9500-8 PMID: 24445420
77. Smith, B.T., M. G. Harvey, B. C. Faircloth, **T. C. Glenn**, and R. T. Brumfield. 2014. Target capture and massively parallel sequencing of ultraconserved elements (UCEs) for comparative studies at shallow evolutionary time scales. *Systematic Biology* 63(1):83-95. doi: 10.1093/sysbio/syt061
76. **Glenn, T. C.**, S. L. Lance, A. M. McKee, B. L. Webster, A. M. Emery, A. Zerlotini, G. Oliveira, D. Rollinson, and B. C. Faircloth. 2013. Significant variance in genetic diversity among populations of *Schistosoma haematobium* detected using microsatellite DNA loci from a genome-wide database. *Parasites and Vectors* 6:300. DOI: 10.1186/1756-3305-6-300
75. Finger, J. W. Jr., A. L. Adams, P. C. Thompson, C. M. Shilton, G. P. Brown, C. Moran, L. G. Miles, **T. C. Glenn**, and S. R. Isberg. 2013. Using phytohemagglutinin to determine immune responsiveness in saltwater crocodiles (*Crocodylus porosus*). *Australian Journal of Zoology* 61:301-311. doi: 10.1071/ZO13041
74. Weber, J. J., S. G. Weller, A. K. Sakai, O. V. Tsyusko, **T. C. Glenn**, C. A. Domínguez, F. E. Molina-Freaner, J. Fornoni, M. Tran, N. Nguyen, K. Nguyen, L.-K. Tran, G. Joice, and E. Harding. 2013. The role of inbreeding depression and mating system in the evolution of heterostyly. *Evolution* 67(8): 2309-2322. DOI: 10.1111/evo.12123
73. Shaw, T., Z. Ruan, **T. Glenn**, and L. Liu. 2013. STRAW: Species Tree Analysis Web server. *Nucleic Acids Research* 41(WebServer Issue): W238-241. doi:10.1093/nar/gkt377 PMID: 23661681
72. Wu, P., X. Wu, T.-X. Jiang, R. Elsey, B. L. Temple, S. J. Divers, **T. C. Glenn**, K. Yuan, M.-H. Chen, R. Widelitz, C.-M. Chuong. 2013. Specialized stem cell niche enables repetitive renewal of alligator teeth. *Proceedings of the National Academy of Sciences, USA* 110(22):E2009-18. PMID: 23671090.
71. Schountz, T., T. Shaw, **T. Glenn**, H. Feldmann, and J. Prescott. 2013. Expression profiling of lymph node cells from deer mice infected with Andes Virus. *BMC Immunology* 14:18. doi:10.1186/1471-2172-14-18. PMID: 23570545
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66. *Crawford, N. G., B. C. Faircloth, J. E. McCormack, R. T. Brumfield, K. Winker and T. C. Glenn.* 2012. More than 1000 ultraconserved elements provide evidence that turtles are the sister group of archosaurs. Biology Letters 8(5):783-6, PMID: 22593086. doi: 10.1098/rsbl.2012.0331
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64. *Faircloth, B. C., and T. C. Glenn.* 2012. Not all sequence tags are created equal: Designing and validating sequence identification tags robust to indels. PLoS ONE 7(8):e42543, doi: 10.1371/journal.pone.0042543, PMID: 22900027
63. *Everhart, S. E., A. Askew, L. Seymour, T. C. Glenn, and H. Scherm.* 2012. Spatial patterns of brown rot epidemics and development of microsatellite markers for analyzing fine-scale genetic structure of *Monilinia fructicola* populations within peach tree canopies. Online. Plant Health Progress. doi:10.1094/PHP-2012-0723-04-RS.
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61. *Beal, M. A., T. C. Glenn, and C. M Somers.* 2012. Whole genome sequencing for quantifying germline mutation frequency in humans and model species: cautious optimism. Mutation Research: Reviews 750(2):96-106. PMID 22178956. doi:10.1016/j.mrrev.2011.11.002
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- N9. Fokidis, H.B., N. A. Schable, C. Hagen, **T. C. Glenn**, and T. S. Risch. 2003. Characterization of microsatellite DNA loci for the southern flying squirrel (*Glaucomys volans*). *Molecular Ecology Notes* 3:616-618.
- N8. Tsyusko-Omelchenko, O. V., N. A. Schable, M. H. Smith and **T. C. Glenn**. 2003. Microsatellite loci isolated from narrow-leaved cattail *Typha angustifolia*. *Molecular Ecology Notes* 3:535-538.
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- N6. Hauswaldt, J. S. and **T. C. Glenn**. 2003. Microsatellite DNA loci from the Diamondback terrapin (*Malaclemys terrapin*). *Molecular Ecology Notes* 3:174-176.
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#### Books or Journal Special Issues

4. **Glenn, T. C.**, A. Moussalli, B. C. Faircloth (guest eds). 2016. Special Issue: Sequence Capture. *Molecular Ecology Resources* Vol. 16, Issue No. 5, September, 2016.
3. Densmore, L. D. and **T. C. Glenn** (guest eds). 2008. Special Issue: Crocodylian Genetics and Biology. *Journal of Experimental Zoology (Ecological Genetics and Physiology)* Vol. 310A, Issue No. 10.
2. Densmore, L. D. and **T. C. Glenn** (guest eds). 2002. Special Issue: Molecular Evolution of the Crocodylia. *Journal of Experimental Zoology (Molecular and Developmental Evolution)* Vol. 295, Issue No. 4.
1. Andrews, R. D., N. Bock, W. Funke, **T. Glenn**, R. Goode, M. Long, M. O'Connor, M. Sells, and D. Sievers. 1993. Iowa fur harvester education: student manual. Iowa Department of Natural Resources, Des Moines, IA. 147pp.

#### Proceedings, Book Chapters, and Other publications (\* = rigorous peer review, equivalent to journal publication)

13. Heyduk K., J. D. Stephens, B. C. Faircloth, and **T. C. Glenn**. 2016. Targeted DNA Region Re-sequencing. Pages 43-68 in *Field Guidelines for Genetic Experimental Designs in High-Throughput Sequencing* (Aransay AM and JLL Trueba, eds.). Springer International Publishing, Switzerland. doi: 10.1007/978-3-319-31350-4\_3.
12. Finger Jr., J. W., P. C. Thomson, U. R. Bagal, C. Moran, **T. C. Glenn**, L. G. Miles, M. S. Khatkar, J. Gongora, A. L. Adams, S. Benedict, T. J. Kieran and S. R. Isberg. 2015. Extending crocodile genetic selection tools. Rural Industries Research and Development Corporation Publication No. 15/051.

11. Hinton, T. G., D. Coughlin, Y. Yi, **T. Glenn**, and J. Zimbrick. 2011. Reproductive effects from chronic, multigenerational, low dose rate exposures to radiation. Chapter 19, pages 219-232 in: Mothersill C. E., V. Korogodina, and C. B. Seymour (eds.), *Radiobiology and Environmental Security*, NATO Science for Peace and Security Series C: Environmental Security, Pp 219-232. DOI 10.1007/978-94-007-1939-2\_19, Springer Science+Business Media B.V.
10. Densmore, L. D. III and **T. C. Glenn**. 2008. 3<sup>rd</sup> International workshop on crocodylian genetics and genomics. *Journal of Experimental Zoology Part A: Ecological Genetics and Physiology* 310A(10):569-570.
9. Dueck, L. A., J. A. Fowler, C. S. Hagen, and **T. C. Glenn**. 2005. Genetic discrimination of *Spiranthes cernua* species complex in South Carolina. Proceedings of the 2<sup>nd</sup> International Orchid Conservation Congress, Sarasota, Florida. *Selbyana* 26(1,2): 145-154.
8. **Glenn, T. C.** 2002. DNA tools and resources for crocodylian research. P211 *In* Proceedings of the 16<sup>th</sup> Working Meeting of the Crocodile Specialist Group of the Species Survival Commission of IUCN – The World Conservation Union, Gland, Switzerland.
7. Oleksyk T.K., M. H. Smith, **T. C. Glenn**, J. R. Purdue, C. H. Jagoe, and M. W. Smith. 2002. Radioactivity and Genetic Diversity. *In* Populations of *Apodemus flavicollis* from Chernobyl, Ukraine. International Radioactivity Conference, Monaco.
6. Jagoe, C. H., A. J. Majeske, T. K. Oleksyk, **T. C. Glenn**, and M. H. Smith. Radiocesium concentrations and DNA strand breakage in two species of amphibians from the Chernobyl exclusion zone. Proceedings of the International Congress on the Radioecology and Ecotoxicology of Continental and Estuarine Environments, September, 2001, Aix en Provence, France.
5. Oleksyk, T., S. Gashchak, **T. Glenn**, C. Jagoe, J. Purdue, O. Tsyusko, O. Zalisky, and M. Smith. 2001. Distribution of <sup>137</sup>Cs among individuals in fish and mammal populations in Chernobyl. Pp. 431-440. *In*: V. Glygalo and A. Nosovsky (eds.). Scientific and Technical Aspects of International Cooperation in Chernobyl. Vyscha shkola, Kyiv.
- \*4. Davis, L. M., **T. C. Glenn**, R. M. Elsey, I. L. Brisbin Jr., W. E. Rhodes, H. C. Dessauer and R. H. Sawyer. 2001. Genetic structure of six populations of American alligators: A microsatellite analysis. Pages 38-50 *In* *Crocodylian Biology and Evolution*, G. C. Grigg, F. Seebacher, and C. E. Franklin (eds.), Surrey Beatty and Sons, Australia.
- \*3. **Glenn, T. C.**, R. S. Ojerio, W. Stephan, and M. J. Braun. 1997. Microsatellite DNA loci for genetic studies of cranes. pages 36-45 *In* Proceedings of the 7<sup>th</sup> North American Crane Workshop. R. P. Urbanek and D.W. Stahlecker, eds. North American Crane Working Group, Grand Island, Nebraska. 262pp.
2. **Glenn, T. C.** and M. J. Braun. 1992. Toward the elimination of contamination from ancient DNA amplifications: use of 2'-Deoxyuridine-5'-triphosphate and Uracil DNA Glycosylase to eliminate carryover PCR products. *Ancient DNA Newsletter*. 1(2):28-31.
1. **Glenn, T. C.** 1991. Animal rights and animal welfare are not equivalent. *Conservation Biology* 5(4):436-437.

## PATENTS

Glenn T.C., K. L. Jones, S. L. Lance, G. J. Szalai, & M. R. Felder. 2008. Source tagging and normalization of DNA for parallel DNA sequencing, and direct measurement of mutation rates using the same. U.S. Patent Filed March 31, 2008. Incorporates Provisional Patents 60/909,010 & 60/909,003 filed March 30, 2007. Patent abandoned June 2010, due to commercial limitations & other time commitments.

## RESEARCH GRANTS AND CONTRACTS (\*\* = PI, \* = UGA/EHS subaward PI)

### Active Contracts and Grants

\**Dimensions: Testing the potential of pathogenic fungi to control the diversity, distribution, and abundance of tree species in a neotropical forest community.* National Science Foundation. S. Hubbell, B. Faircloth, G. Gilbert, M. Saunders, and T. Glenn. DEB-1136626 03/2012 – 02/2017. \$1,941,923. Role – Co-PI (PI of UGA subaward)



- \**Functional interactions between the gut microbiome and arsenic exposure*. National Institutes of Health, K. Lu (PI), T. Glenn, and R. Fry. NIH – R01 ES024950. 05/2015 – 11/2019. \$2,281,375. Role – Co-PI (PI of UGA subaward)
- \**Next-Generation DNA sequencing training for biomedical researchers in Alaska*. Subcontract of *Alaska INBRE3: Environmental Agents and Disease*, NIH P20 GM103395. T. Glenn, K. Winker, and B. Faircloth. 05/2015 – 05/2019. \$189,000 for UGA subcontract. Role: PI of training subcontract.
- \**Development of a Next Generation Sequencing Assay for Detecting and Genotyping Tick-borne Disease Pathogens*. Marshfield Clinic Research Foundation. A. Schotthoefer, T. Fritsche, J. Meece, S. Shukla, T. Glenn, B. Faircloth. \$50,000. Role – Co-PI (PI of UGA subaward).
- \*\**Single Nucleotide Polymorphism Genotyping*. Departamento de Acuicultura, CICESE, Ensenada, Baja California, Mexico. T. Glenn. 11/10/16 – 07/10/17. \$15,000. Role – PI.
- \*\**Mitochondrial DNA, Microsatellite Loci and SNPs from *Seriola ialandi**. CICESE, Baja California, Mexico. T. Glenn. 11/31/16 – 11/10/17. \$12,000. Role – PI.
- \*\**Mitochondrial DNA, Microsatellite Loci and SNPs from *Seriola rivoliana**. CIBNOR, La Paz, Baja California, Mexico. T. Glenn. 11/15/16 – 11/10/17. \$13,250. Role – PI.
- \*\**Ultraconserved elements of fish and snakes*. Southeastern Louisiana University. T. Glenn. -3/15/17 – 05/14/18. \$22,289.40. Role - PI

### Current Service Center Funding

\**The EHS DNA lab genotyping and marker development services* are available to collaborators and the scientific community on a cost-reimbursement basis [similar to small subcontracts, but uses a different accounting mechanism]. Since being established in 2008, the EHS DNA lab has conducted >\$600k in reimbursed research services, averaging >\$130k/yr. since FY13. Funding allows not only completion of specific service but also research and development of new services. Students are frequently employed by these projects. Additional services have been directly billed to the Georgia Genomics Facility, thus bypassing the EHS service center.

### Previous Research Awards (while at UGA-EHS)

- \*\*EAGER Collaborative Research: Using ultraconserved elements (UCEs) as genomic markers to study shallow levels of evolutionary divergence. National Science Foundation, DEB-1242241. T. Glenn. 06/15/2012 – 06/14/2014. \$15,670 to UGA (\$42,830 total of collaborative research with K. Winker and B. Faircloth). Role – UGA PI.
- Building the Framework of Biodiversity Science: Next Generation Phylogenomics. Smithsonian Institution Grand Challenge Awards. M. Braun, K. Wurdack, W. Wcislo, J. Maldonado, K. Helgen, S. Brady, M. Cummings, T. Glenn, B. Faircloth, R. Brumfield, E. Braun, J. McCormack, N. Crawford, N. White. \$100,000. 01/2012 – 07/2014. Role – Co-PI.
- PIRE: Genetics of invasive species exchanged between the Southeastern U.S. and China, Taiwan & Hong Kong*. National Science Foundation (OISE-0730218) R. Mauricio, K. Myhre, T. Glenn, R. Walcott. Role – Co-PI. \$1,499,772, 2009 – 08/2014 (total project \$2,498,016, 09/2007 – 08/2014)
- The crocodylian triumvirate: a genome draft for the Indian Gharial*. Ray, Green, Glenn, McCarthy, Schmidt, Peterson, Densmore, Brochu, Braun, Pollock, Jarvis, Hoffmann, Sawyer, Gongora, Abzhanov. National Science Foundation. MCB-052500. \$40k Role: Senior Personnel.
- \**Schistosoma haematobium genome sequencing to develop DNA markers in support of the SCORE program*. SCORE program (funded by the Bill and Melinda Gates Foundation). PI - T. C. Glenn \$15,820, 12/2008 – 12/2013.
- Phylogenetic utility of ultra-conserved elements for the avian tree of life*. Smithsonian Next Generation Sequencing Small Grants Program. M. Braun, N. White, T. Glenn, B. Faircloth, R. Brumfield, E. Braun, J. McCormack, N. Crawford. 10/2011 – 06/2013. \$10,000. Role – Co-PI.
- Species tree prediction in the cloud*. Amazon Web Services in Education Research Grant. NG Crawford, BC Faircloth, **TC Glenn**. 2010. \$7,500.

Previous Research Awards (while at UGA-EHS, initiated at UGA-SREL)

- \*\**Effects of Low Dose Radiation on Gene Expression in Medaka Fish*. US Department of Energy Joint Genome Institute Laboratory Sequencing Program. **TC Glenn**, OV Tsyusko, TG Hinton, D Grigoriev, OV Moskalenko, and J Zimbrick. 90,000 ESTs and >1,200,000 454 sequences approved. June 07- Sept 10.
- \*\**Collaborative Research: The Evolution of Heterostylous Breeding Systems in Populations of Oxalis alpina in the Sky Islands of the United States and Mexico*. National Science Foundation (DEB 0614208 – Pop & Evol cluster), **PI - T. C. Glenn** (O. Tsyusko added as co-PI after award), \$140,363, 10/06 – 08/11, in collaboration with S. Weller & A. Sakai, separately funded for \$357,920
- The bioavailability, toxicity, and trophic transfer of manufactured ZnO nanoparticles: a view from the bottom*. USEPA-NCER and NSF-NIOSH Nanotechnology Research Grants Investigating Environmental and Human Health Effects of Manufactured Nanomaterials B. Jackson, A. Neal, T. Glenn, P. Williams, and P. Bertsch. \$363,380. 10/05 – 02/09.
- \*\**Genetic Effects of Radiation Exposure on Amphibian Populations from Chornobyl Exclusion Zone*, U.S. Civilian Research and Development Foundation, Cooperative Grants Program. ~\$59,000 (\$7,500 to US collaborators). M. Bondarkov, O. Tsyusko, & T. C. Glenn. (T Glenn = PI on US portion of grant, linked to Ukrainian project but funds administered separately). 09/07-09/09.
- \*\**Gene Expression Resources for Peromyscus*. US Department of Energy Joint Genome Institute Laboratory Sequencing Program. T Glenn, G Szalai, J Glenn, M Felder, et al. 100,000 ESTs approved. June 07- Dec. 08. 2 Million additional ESTs approved – June 08 – May 09.
- Transgenerational Effects of Chronic Low-Dose Irradiation in a Medaka Fish Model System*, U.S. Dept. of Energy Low Dose Program. JD Zimbrick, TG Hinton, TC Glenn, H. Mitani, R Ullrich, J Bedford, and M Weil. \$1,033,705.00 total Direct Costs, \$365,846 UGA subcontract, 8/05 – 12/08.
- \**Development of Peromyscus (Deer Mouse) Genomics*. National Institutes of Health. MJ Dewey, TC Glenn, R Bullard-Dillard, and J Chen. \$1,180,000, UGA subcontract PI \$399,563. 8/1/04-7/30/08.
- Bioavailability of Metals in Two Former Ash Settling Basins from Coal-fired Power Plants: Capping vs. Natural Attenuation*. Georgia Power. PL Williams, B Jackson, C Jagoe, and T Glenn. \$300,000, 01/05 – 12/07.

Previous Research Awards (while at UGA-SREL)

- The role of metal contamination in the proliferation of antibiotic resistance in coastal water-borne pathogens*. NOAA – Oceans and Human Health Program, R Stepanauskus, JV McArthur, TC Glenn, CH Jagoe, ME Frischer JA Gooch, and C Tuckfield. \$534,311, 10/04 – 9/07.
- Species Identification and Conservation Genetics of Moxostoma robustum : Molecular Genetic Protocol Development and Application*. Georgia Power Co. C.J. Nairn & T. C. Glenn. \$48,970. 3/06 – 02/07.
- Radioactive Contaminants, Antioxidants, and Mutation: A Comparative Analysis of Birds, Flies and Humans of Chernobyl*. University of South Carolina Environmental Research Initiative Committee, TA Mousseau et al. \$39,776.
- \*\**DNA research to support management of American alligators in Louisiana*. Louisiana Department of Wildlife and Fisheries, Fur and Refuge Division, TC Glenn (PI). \$30,000. 7/1/03-6/30/06.
- Molecular Phylogeny of North American Spiranthes Orchids*. American Orchid Society. L Dueck, TC Glenn and C Hagen. \$6,450, 01/04-12/05.
- \**Peromyscus Laboratory Models for Biomedical Research*. National Institutes of Health, MJ Dewey, W Dawson, and T Glenn. \$541,875, 7/02 – 6/05, renewed through 04/06.
- \**Development and Use of Transgenic Caenorhabditis elegans to Measure Bioavailability of Metals and Mutagenicity in Contaminated Media*. Idaho National Environmental and Engineering Laboratory, LDRD program. A Stormberg, PL Williams, CH Jagoe and TC Glenn, UGA subcontract \$22,100, 01/01/04 – 9/31/04.
- BAC Library Resource Proposal – Peromyscus maniculatus*. National Institutes of Health, MJ Dewey and TC Glenn. Assigned High Priority, 9/03, BAC Library - CHORI-233.
- \*\**Use of the Diamondback Terrapin (Malaclemys terrapin) as a biological indicator for chemical pollution of South Carolina estuaries*. National Oceanic and Atmospheric Administration – T Glenn and SJ Hauswaldt \$49,500, 6/01 – 9/04.

*The Peromyscus Genome Project: Development of a Core Research Group.* South Carolina Biomedical Research Infrastructure Network- Collaborative Research Program, MJ Dewey, R Bullard-Dillard, and T Glenn. \$75,000, 5/03 – 8/04.

\*\**Developing a cDNA Library for American Alligators.* University of Georgia Research Foundation, Faculty Research Grant. TC Glenn \$7,128. 1/03 – 1/04.

*A quantitative approach to risk assessment: analysis of genetic changes in organisms inhabiting contaminated environments.* PI - R. Sawyer, Department of Energy - \$228,387, 1997 – 2002.

*Development of Bioindicators of Environmental Mutagens.* South Carolina Commission on Higher Education. PI - Beth Krizek, Co-investigators – T. Glenn. & C. Jagoe. \$85,010 funded. Jan. 2000 – June 2001.

\*\**Investigation of Sandhill Crane subspecies.* Texas A&M Kingsville - \$16,500. 1997-2001. T. Glenn PI

*A proposal to determine contaminant burdens and DNA strand-breakage in clapper rails inhabiting the Troup Creek and LCP salt marsh systems, Brunswick, GA,* funded at \$56,325 by the US Fish and Wildlife Service, with PI - I. Lehr Brisbin, UGA.

*Development of a Bioindicator of Environmental Mutagens.* University of South Carolina - Carolina Venture Fund. With B. Krizek as P.I. \$9,000. May 1999 - August 2000.

Laboratory for the Genetic Diagnosis and Control of Mosquitoes. PI – R. Vogt, Co-PI's J. Quattro, T. Glenn, R. Wilkerson. Department of Defense - \$500,000, 1997 – 2000.

9 additional awards prior to employment at UGA, including a National Science Foundation Dissertation Improvement Grant.

### Previous Service Center Funding

\*\**The SREL DNA lab genotyping and marker development services* were available to collaborators and the scientific community on a cost-reimbursement basis [similar to small subcontracts, but uses a different accounting mechanism] had ~\$485k of income from 2002-2008.

The Georgia Genomics Laboratory is a core sequencing facility at UGA and had income of ~\$325k in FY08 when Dr. Glenn joined as faculty director, and concluded with income of >\$860k in FY12 (Dr. Glenn's last year as faculty director).

### **SYMPOSIA & WORKSHOPS**

Illumina DNA Sequence Analysis Workshop – Generating and analyzing NGS data for biomedical research. University of Alaska, Anchorage. May 2017. Travis Glenn & Brant Faircloth, instructors.

Illumina DNA Sequencing and Sequence Analysis Workshops – Hands on wet-labs making amplicon, genomic, and RADseq libraries (week 1), computational labs to analyze data from the week 1.

University of Alaska, Fairbanks. July-August 2015. Travis Glenn & Brant Faircloth, instructors.

Next-Generation DNA Sequencing Workshop – Background, Project Design, & Data Analysis. University of Alaska, Fairbanks. May 2013. K. Winker (organizer) Travis Glenn & Brant Faircloth, instructors.

Next-Generation DNA Sequence Analysis. University of Georgia, Institute of Bioinformatics State-of-the-Art Symposium. April, 2013. T. Glenn and J. Kissinger (primary organizers).

Next-Generation DNA Sequencing Workshop: Project Design, Platform Choice, and Data Analysis Overview. Smithsonian Institution, July, 2011. Travis Glenn & Brant Faircloth, instructors.

2<sup>nd</sup> Georgia Genomics Facility and Roche 454 Bioinformatics workshop. University of Georgia, March, 2011. My-Hanh Nguyen and Travis Glenn, instructors.

Center for Contextual Genetics & Prevention Science symposium, Athens, GA. June, 2010. Travis Glenn, instructor (6 modules), plus additional keynote speakers.

Georgia Genomics Facility and Roche 454 Bioinformatics workshop. University of Georgia, May, 2010. My-Hanh Nguyen, Ken Jones, and Travis Glenn, instructors.

3<sup>rd</sup> International Crocodylian Genetics & Genomics Workshop. Smithsonian Tropical Research Institute, Panama City, Panama, April 2007. Miriam Venegas, Llewellyn D. Densmore, and Travis C. Glenn, organizers.

International workshop – “Exploring Potential Collaborative Research in Human Health and Ecotoxicology Risks Using Medaka as a Model Organism”, 24-27 March 2004, University of Georgia, T. G. Hinton, T. C. Glenn, and R. N. Winn, organizers.

2<sup>nd</sup> International Crocodylian DNA workshop, 7-9 November, 2001. San Diego Zoo, San Diego, CA.  
Valentine A. Lance, Llewellyn D. Densmore, Lisa M. Davis, and Travis C. Glenn, organizers.

## PRESENTATIONS

### Invited Talks (since joining EHS)

1. *Glenn, T.C.* Bioinformatics challenges and opportunities from sequence capture of pathogens and conserved elements. Institute of Bioinformatics, UGA, Athens, GA. April, 2017.
2. *Glenn, T.C., et al.* Reducing sequence capture costs with universal library preparation methods (Adapterama) and Ultraconserved Element (UCE) bait sets. Plant and Animal Genomes. January, 2017. San Diego, CA.
3. *Glenn, T.C., et al.* Easy low-cost Illumina libraries that promote sharing via hierarchical combinatorial tagging. Western Carolina University Big Data workshop. August, 2016. Cullowhee, NC.
4. *Glenn, T.C.* Solving Practical Problems in Public Health with Next-Generation DNA Sequencing. Marshfield Clinic Research Foundation, Marshfield, WI. April 2015.
5. *Glenn, T.C.* Adapterama I: An Integrated Approach for Double-Quadruple Indexed Illumina Libraries for Amplicons, RADseq, and Whole Genomes. Association of Biomolecular Resource Facilities, St. Louis, MO. March 2015.
6. *Glenn, T.C.* Adapterama – Flexible Hierarchical Combinatorial NGS Approaches To Solve Practical Problems in Public Health Using DNA Sequencing. CDC, Atlanta, GA. February 2015.
7. *Glenn, T.C., B.C. Faircloth, J.E. McCormack, D.A. Ray, E.L. Braun, and R.E. Green.* Ultraconserved Elements Provide Orthologous Portals into Tetrapod Genomes Illuminating the Remarkably Slow Evolution of Crocodylian Genomes. Crocodylian Biology Symposium, Society of Integrative & Comparative Biology, Miami, FL. January 2015.
8. *Glenn, T.C.* Adapterama on BadDNA.org – Next-Generation DNA Sequencing Tools for Biologists. College of Charleston, SC. March 2014.
9. *Glenn, T. C.* Crocophylomics: Lessons of the Toothy Sort. Ohio State University, Columbus, OH. October, 2013.
10. *Glenn, T. C.* Scalable DNA Capture and Next Generation DNA Sequencing Approaches to Assess Microbes & Vectors. Colorado State University, Fort Collins, CO. September, 2013.
11. *Glenn, T. C.* New Flexible Approaches for Next-Generation DNA Assays & the Opportunities They Create for New Statistical Tests of Genomic Data. Univ. Alabama, Birmingham, AL. May 2013.
12. *Glenn, T. C.* Scalable Approaches to Transition DNA Assays to Next Generation Sequencing. Promega Corporation, Madison, WI. November, 2012
13. *Glenn, T. C.* Next-Generation DNA Sequencing Tools. 4<sup>th</sup> International Workshop on Crocodylian Genetics and Genomics, Darwin, Australia, May, 2012.
14. *Glenn, T. C.* Field Survival Guide to Next-Generation DNA Sequencers. Poultry Diagnostics Research Center, Athens, GA, Feb., 2012
15. *Glenn, T. C.* Novel Mammalian Genomic Tools for Biomedical Research Discovered by Sequencing the Lizard Genome. Greenwood Genetics Center, Greenwood, SC. August, 2011.
16. *Glenn, T. C.* Field Guide to Next-Generation DNA Sequencers. Keynote talk, Next Generation Sequencing: Transformative Technology for Biodiversity Science, National Museum of Natural History, Washington, DC. Co-sponsored by the Food and Drug Administration. April, 2011.
17. *Glenn, T. C.* Crocophylomics: from Faithful Alligators to Alligator Influenza & Beyond. University of Regina, Regina, Saskatchewan, Canada. September, 2010.
18. *Glenn, T. C.* Building on China's Leadership in Genomics: Partnerships & Opportunities. Nanjing University, Nanjing, China. July, 2010.
19. *Glenn, T. C.* Alligator and Crocodile Genome Projects: Using the Panda Blueprint. Anhui Normal University, Wuhu, China. June, 2010.
20. *Glenn, T. C.* Molecular Ecology of Faithful Alligators to Environmental Genomics of Reptiles. Odum School of Ecology, University of Georgia, Athens, GA. January, 2010.
21. *Glenn, T. C.* Lessons in cooperative genomics from alligators, crocodiles, and lizards. Clemson University, Clemson, SC. September, 2009.

22. *Glenn, T. C.* New instruments, paradigms and opportunities in ecological genomics. Anhui Normal University, Wuhu, China. August, 2009.
  23. *Glenn, T. C.* New instruments, paradigms and opportunities for comparative and ecological genomics. Department of Genetics, University of Georgia, Athens, GA. January, 2009.
  24. *Glenn, T. C.* Bioinformatics opportunities for genomic studies of non-traditional biomedical and environmental model organisms. Institute of Bioinformatics seminar. University of Georgia, Athens, GA. October 2008.
  25. *Glenn, T. C.* New opportunities for massively parallel comparative genomics. Ying Xu bioinformatics research group seminar. University of Georgia, Athens, GA. October 2008.
  26. *Glenn, T. C.* Tribute to Herb Dessauer: Reptilian Genomics and Biomedical Research. Stowers Institute for Medical Research, Kansas City, Missouri. June 2008.
  27. *Glenn, T. C.* A universal approach to leverage comparative full genome information to efficiently elucidate conserved sequence elements. Broad Institute, Boston, Massachusetts. March 2008.
  28. *Glenn, T. C., K. Jones, and R. Sawyer.* Challenges and Opportunities in Comparative Reptilian Genomics. Society Integrative & Comparative Biology, San Antonio, Texas. January 2008.
- 25 additional invited presentations while working for UGA at SREL (1998-2007), available upon request.

#### Representative Presentations & Posters at Meetings (presenter in italics)

- Kolli, R.T., T.C. Glenn* and B.S. Cummings. Bromate Induced Alterations in the Expression of Cyclin-Dependent Kinase Inhibitors via Epigenetic mechanisms. Poster submitted for the 55<sup>th</sup> Annual meeting of the Society of Toxicology, New Orleans, LA, March, 2016.
- Kanine, J. M., N. P. Nibbelink, M. T. Mengak, S. B. Castleberry, and T. C. Glenn.* 2015. Individual-based landscape genetics resistance surface analysis of Allegheny woodrats (*Neotoma magister*) in Virginia. Poster Presentation – 22<sup>nd</sup> Annual Conference, The Wildlife Society, Winnipeg, Manitoba, Canada. October 18-20, 2015.
- Glenn, T. C.,* B. Faircloth, R. Nilsen, J. Finger, T. Kieran, and T. Pierson. Adapterama @ BadDNA.org – DNA sequencing sample prep for Illumina instruments made easy (amplicons, RADseq, SeqCap & Genomes). Society for the Study of Evolution, Raleigh, NC, June 2014.
- Glenn, T. C.* Conserved DNA elements as tools for understanding crocodylian biology. 4<sup>th</sup> International Meeting of the Crocodylian Specialist Group, Lake Charles, LA. May, 2014.
- Glenn, T. C.* and B. Faircloth. BadDNA.org: An online field guide to transitional and transformative NGS tools. Society for the Study of Evolution, Snowbird, UT, June 2013.
- Glenn, T. C.* Finding and using genetic variation to assemble the genome and provide markers for artificial selection: RNA-Seq vs. RAD-Seq vs. Seq Cap vs. Genome Seq. 4<sup>th</sup> International Workshop on Crocodylian Genetics and Genomics, Darwin, Australia. May, 2012.
- Glenn, T.,* S.L. Lance, A.M. McKee, B.L. Webster, A.M. Emery, A. Zerlotini, G. Oliveira, D. Rollinson, and B.C. Faircloth. Microsatellite DNA loci from a genome-wide database show significant variance in genetic diversity among populations of *Schistosoma haematobium*. 2012 International Conference on Emerging and Infectious Diseases. Atlanta, GA. March, 2012.
- Glenn, T.,* R. Nilsen, M. Belanger, M. G. Harvey, J. McCormack, K. Winker, C. Locklear, R. Brumfield, and B. C. Faircloth. Direct comparison of adapters and in-solution sequence capture methods. Advances in Genome Biology and Technologies. San Marco Island, Florida. February, 2012.
- Finger, J.W. Jr.,* S.R. Isberg, C. Moran, **T.C. Glenn**, C.A. Jones, and S.M. Tompkins. Immunity in crocodylians: androgen and viral immunomodulation. 4<sup>th</sup> International Workshop on Crocodylian Genetics and Genomics. Darwin, Australia. May 2012.
- Finger, J.W. Jr.,* C. A. Jones, **T.C. Glenn**, and S.M. Tompkins. Innate immunity in crocodylians: toxicant and viral immunomodulation. Interdisciplinary Toxicology Program Retreat. UGA, Athens, GA. April 2012
- Finger, J. W. Jr.,* B.L. Temple, C.A. Jones, T. Jelesijevic, E.W. Uhl, R.J. Hogan, **T.C. Glenn**, S.M. Tompkins. Susceptibility of American Alligators to Avian and Human Influenza. 2012 International Conference on Emerging and Infectious Diseases. Atlanta, GA. March, 2012.
- >>100 additional presentations and/or posters have been given or co-authored. This information is not routinely collected or updated anymore.

## Representative Media & Outreach

Over the past 2 decades, we have used alligators for a variety of classroom and outreach activities, reaching people from pre-school through retiree. Three young alligators are currently available for outreach at UGA and Athens via collaboration with Dr. Robert Bringolf in Forestry and Natural Resources.

Animal Diversity presentation with J. L. Glenn (alligator, crocodile, fox, raccoon, beaver, & lion skins, claws &/or skulls, porcupine quills, bat skeletons, live baby alligators) – seven presentations at Oconee Elementary School, May, 2016, standing annual return invitation

Media stories about turtle phylogeny paper (Pub #66):

ABC Science news online, Yahoo News, eScienceNews, Phys.org, topNewsToday, oneNewsPage.com & dozens of others: AFP. May 15<sup>th</sup>, 2012. Scientists lift the lid on turtle evolution.

<http://news.yahoo.com/scientists-lift-lid-turtle-evolution-230956824.html>

Nature – News Feature: Dolgin, E. 2012. Phylogeny: Rewriting evolution. Nature 486: 460-462.

<http://www.nature.com/news/phylogeny-rewriting-evolution-1.10885>

Science Friday – Rogers, K. June 5<sup>th</sup>, 2012. The Molecular Secrets of Turtles.

<http://www.sciencefriday.com/blogs/06/05/2012/the-molecular-secrets-of-turtles.html>

Science Daily – Turtles More Closely Related to Birds Than Lizards and Snakes, Genetic Evidence Shows. <http://www.sciencedaily.com/releases/2012/05/120523200301.htm>

Elements – Jones, G. May 17<sup>th</sup>, 2012. Turtle origins uncovered. <http://www.elements-science.co.uk/2012/05/turtle-origins-uncovered/>

Reasons to Believe – Turtle Origins Challenge Evolution. Misinterpreted, but entertaining podcast - <http://www.reasons.org/podcasts/science-news-flash/turtle-origins-challenge-evolution>

Outreach presentation: DNA Sequencing for Human Health. Sidney Senior Center, June 2012.

What everyone needs to know about graduate school, but no one ever tells them. Presentation with J. Glenn. October, 2011, EHS Club, similar presentations to Infectious Diseases REU program students, summer 2014, 2015 and NSF Fungal Dimensions training students, summer 2013, 2014.

The *Anolis* genome press release (Nature, doi:10.1038/news.2011.512) was picked up by many media outlets, including Scientific American (August, 2011): <http://www.scientificamerican.com/article.cfm?id=lizard-genome-unveiled>

The Georgia Genomics Facility was featured in multiple UGA outlets including (2010, 2011):

<http://columns.uga.edu/news/article/georgia-genomics-facility-offerings-to-researchers/>

<http://columns.uga.edu/news/article/new-ggf-site-offers-info-about-its-services/>

Mate fidelity of American alligators was picked by many media outlets, including Wired (October, 2009):

<http://www.wired.com/wiredscience/2009/10/alligator-mates/>

Many additional media and outreach activities have been and continue to be undertaken. Some additional information is available upon request, but this information is not systematically collected or archived anymore.

## **PROFESSIONAL SERVICE**

### UGA Committees

- 2017 – present University Safety Committee (CPH representative)
- 2017 – present College of Public Health eCourse Committee
- 2012 – present Georgia Genomics Facility Faculty Advisory Committee
- 2009 – present Dept. of Environmental Health Science MPH Admissions Committee
- 2009 – present Dept. of Environmental Health Science Graduate Admissions Committee
- 2017 UGA Office of Research Review of UGA Plant Center, chair
- 2016 – 2017 College of Public Health 7010 Core Course Implementation Committee
- 2015 – 2017 College of Public Health 7010 Core Course Redesign Committee
- 2015 – 2016 UGA Program Review & Assessment Committee (PRAC) & PRAC procedures subcommittee
- 2013 – 2015 Institute of BioInformatics Symposium Committee
- 2013 (fall) Dept. of Environmental Health Science Assistant Research Scientist Search (Chair)
- 2011 – 2013 Institute of BioInformatics Seminar & Program Committee
- 2011 – 2013 James L. Carmon Scholarship Selection Committee (VP of Research Award)
- 2010 – 2013 University Council Faculty Affairs Committee



2011 – 2013 College of Public Health DrPH Committee  
 2011 – 2012 College of Public Health Professional Degrees Committee  
 2010 – 2012 Interdisciplinary Toxicology Program - Curriculum Committee Chair  
 2010 – 2011 College of Public Health Bylaws Committee  
 2010 – 2011 Disease Ecology Seminar Committee  
 2010 – 2011 Contextual Genetics Faculty Search Committee (Psychology Dept., UGA)  
 2010 – 2011 *Ad hoc* Research Computing Strategic Planning Thinktank  
 2009 – 2011 College of Public Health Curriculum Committee, chair (2010-2011 academic year)  
 2009 – 2011 Institute of Bioinformatics Curriculum Committee  
 2009 – 2010 Interdisciplinary Toxicology Program Strategic Planning Committee  
 2008 – 2011 Univ. Council & UC Executive Committee (College of Public Health, elected rep.)  
 2008 (spring) Environmental Health Science Department Chair Search Committee  
 2006 – 2009 Interdisciplinary Toxicology Program Executive Committee  
 7 additional committees at SREL, including Strategic Planning & Educational Committee (Chair), additional information available upon request.

#### Multi-User Facilities

2007 – 2012 Faculty Director, Georgia Genomics Facility, University of Georgia  
 2002 – 2007 Associate Director, Univ. of South Carolina Institute for Biological Research & Training  
 2002 Integrated multi-user DNA laboratory and USC Institute for Biological Research & Training  
 2001 Established a multi-user DNA laboratory at University of South Carolina  
 1999 Established a multi-user DNA laboratory at UGA's Savannah River Ecology Lab

#### Manuscript and *ad hoc* Proposal Reviews

African Journal of Biotechnology	Medical Research Council (MRC) – UK
American Zoologist	Molecular Biology and Evolution
Axios	Molecular Development and Evolution
BioTechniques	Molecular Ecology
BioMed Research International	Molecular Ecology Resources
BMC Genomics	Mutation Research – Genetic Toxicology & Environmental Mutagenesis
Canadian Journal of Zoology	NSF – Biology (DEB), Dimensions in Diversity
Copeia	National Geographic Society
Comparative Biochemistry & Physiology	Parasites and Vectors
Conservation Biology	PeerJ
Conservation Genetics	PLoS ONE
Ecology and Evolution	Proceedings of the National Acad Sci., USA
Environmental Toxicology and Chemistry	Smithsonian
Evolution	The Auk
EPSCoR	The Condor
Gene	Trends in Genetics
Graduate Women in Science	US Army Engineer Research & Development Center
Journal of Experimental Zoology A	UGA Internal Grants – UGA-GRU, Infectious Disease Program
Journal of Heredity	Waterbirds
Journal of Wildlife Management	
Infectious Diseases of Poverty	
Marine and Freshwater Research	

#### Journal Activities

2009 – present Associate Editor, Molecular Ecology Resources

#### Society Activities (membership, committee membership in italics)

Environmental Mutagenesis and Genomics Society  
 IUCN - *Crocodilian Specialist Group*  
 Society for the Study of Evolution

**Other Service & Professional Activities**

- 2017 – present Tick Genome Assembly Collaboratorium (founding member)  
 2017 – present Taxonomy, Identification, and Phylogenetics subgroup of the CSG  
 Spring 2016 CDC Special Emphasis Panel, Public Health Research in Kenya  
 2011 – 2014 Smithsonian Next Generation DNA Sequencing Advisory Committee  
 Spring 2013 Smithsonian Global Genomics Initiative Workshop Participant  
 Fall 2011 Smithsonian Proposal Review Panel for Next-Gen Pilot Projects  
 Fall 2011 National Science Foundation IGERT Review Panel, Alexandria, VA.  
 Fall 2010 US Dept. of Energy, Joint Genome Institute Low Dose Program Proposal Review Panel  
 2006 – 2007 Ruth Patrick Science Education Center Advisory Committee  
 2005 – present Reptile Genomics Working Group (founding member)

**TEACHING****Full Courses**

- Environmental Genomics (formerly Empirical Genomics)*, EHSC 8460/8460L, University of Georgia, 3 credits (modular). Lecture & lab course emphasizing the acquisition and analysis of genomic data. Fall 2012, 2013, 2014, 2015, 2016.
- Fundamentals of Environmental Health Science*, EHSC 7010, University of Georgia, 3 credits. Core lecture course for Master of Public Health students. Spring 2013, 2014, 2015, 2016, May 2015; Fall 2016, additional semesters team taught (see below).
- Proseminar in Environmental Health Science*, EHSC 6010/8050, UGA, 1 credit hour, spring 2009, 2012, 2013, 2014, 2015.
- Freshman Seminar: Good DNA, BadDNA and Your Mean Genes*, FYOS 1001, UGA, 1 credit. Discussion of modern genetics and genomics with weekly assigned reading and writing activities, student presentations, community events, and an introduction to UGA. Fall 2014, 2015, 2016.
- Freshman Seminar: BadDNA*, FYOS 1001, UGA, 1 credit. Discussion of modern genetics and genomics with weekly assigned reading and writing activities, multiple presentations, and group projects. Also gives an introduction to UGA. Fall 2011, 2012, 2013.
- Genome Technologies*, EHSC 8450, University of Georgia, 3 credits. Lecture & discussion with occasional labs, emphasizing the acquisition, use, and limitation of instruments used to acquire genomic data. Spring 2009, 2012, 2013.
- Environmental Biotechnology*, EHSC 4710/6710, University of Georgia, 3 credits. Combined lecture and laboratory course emphasizing hands-on experience and practical information for use in the lab. Fall 2008. EHSC 6710, Fall 2009, 2010.
- Essential Genome Technologies*, EHSC 8800, University of Georgia, 1 credit. Lecture & discussion emphasizing the use and limitations of instruments used to acquire genomic data. Spring 2010.
- Applied Ecological Genetics*, Ecology 8990 (problems in ecology), University of Georgia, 3 credits. Developing and leading a reading course for graduate students at SREL (4 students, ~16 additional people attending/auditing), Spring 2004
- Microsatellite Workshop*, laboratory workshop on the development and use of microsatellite DNA loci, sponsored by the Plant Center, Center for Applied Genetic Technologies, Office of the Vice President of Research, Warnell School of Forest Resources, Department of Plant Biology, and Savannah River Ecology Laboratory, University of Georgia, July 2003.
- Graduate Research Instructor* (Biol 798), University of South Carolina, Spring, Summer, Fall 2003.
- Graduate Research Instructor* (Ecol 9000, 9300), University of Georgia, Summer, 2003, Summer & Fall 2004.
- Experimental Biotechnology*, Biology 656, 4 credits, graduate level laboratory course, University of South Carolina, summer 2000, spring 2001, 2002.
- Undergraduate Honors Research Instructor* (Biol 4990H), UGA, 3 credits, spring 2001.

### **Team Taught Courses** (since joining EHS)

*Advanced Topics in Environmental Health*, EHSC 8010, UGA, 3 credit course with four modules, one of four instructors. Lecture course, taught module on relevance of genomic studies to public health. Fall 2013.

*Chemical Toxicology*, VPHY/EHSC 8930, UGA, 3 lectures on Heavy Metals, spring 2008, 2010, 2012.

*Epigenomics Seminar*, EHSC 8100, UGA, 1 credit. Journal club format co-taught with Dr. Mary Alice Smith. Fall 2011.

*Fundamentals of Environmental Health Science*, EHSC 7010, University of Georgia, 3 credits. Core lecture course for Master of Public Health students. Spring 2017, May 2017.

*Fundamentals of Physiology for Environmental Health Scientists*, EHSC 2100, UGA, 3 credits, co-taught with Dr. Julie Glenn. Lecture course covering human and comparative anatomy and physiology, with examples of relevance in public health. Summer 2011. Guest lecture on radionuclide incorporation into muscle and bone given during all subsequent courses, Spring 2012-2016.

### **Short Courses (non-credit)**

*Fungal Dimensions: Integration of Molecular and Field Approaches to Ecology*, Smithsonian Tropical Research Institute, Gamboa & Parque Nacional Sobrianía, Republic of Panama. Team taught with G. Gilbert (UCSC) & B. Faircloth (UCLA). Lecture & Field course for undergraduate students, high school students and high school teachers. July 2013, 2014.

### **Guest Lectures**

*Orientation to Environmental Health Science*, EHSC 2020, UGA, 1 guest lecture each semester since spring 2008.

*Fundamentals of Environmental Health Science*, EHSC 7060, now EHSC 7010, UGA, 1 guest lecture on genetics in environmental health, each semester (when not teaching the course) since Fall 2008, 1 guest lecture on radioactivity, each semester Spring 2009-2012, 1 guest lecture on Heavy Metals, each spring semester 2010-2012.

*Advanced Methods for Biological Data Analyses*, BINF 8211, Bioinformatics Program, UGA, 1 guest lecture, spring 2012 - 2016.

*Advanced Molecular Techniques*, IDIS 8080L, Department of Infectious Diseases, UGA, full day guest lecture, May 2012, half day lectures 2014, 2016.

#### Additional Examples of Individual Guest Lectures given at UGA:

*Environmental Microbiology*, EHSC 4310/6310 - next-generation DNA sequencing, spring 2013.

*Genome Analysis*, GENE 8940, Genetics Department spring 2011, 2012.

*CURO-BHSI Gateway Seminar*, BHSI 3070, fall 2011.

*Developmental Epigenetics for Behavioral Scientists*, PSYC 9100, Psychology Department, fall 2010.

*Biomarkers: Public Health, Clinical & Environmental Toxicology Applications*, EHSC 8250, Spring 2009.

*Genetic and Epigenetic Processes in Preventive Intervention*, PSYC 8000, Psychology Dept., fall 2009.

*Introduction to Bioinformatics*, BINF 6001, fall 2009, 2010.

*Introduction to Research in Genetics*, GENE 8000, Department of Genetics, UGA, 1 guest lecture, fall 2009.

*Chemistry in Society*, Chem 105, University of South Carolina-Aiken, fall 2001, spring 2002, fall 2002, fall 2003.

*Human Molecular Genetics*, University of South Carolina, Spring semester 1998

#### Teaching Assistantships:

Biology Program, University of Maryland

Introductory Genetics, University of Maryland

Introductory Biology Lab, University of Maryland

Molecular Biology Lab, University of Michigan

*Freshman Honors Leader*, Iowa State University, Fall semesters 1986 and 1988

*Design, research, and development of seminar* on contemporary issues in Animal Rights with Dr. William Franklin, Iowa State University, 1988-89.

## STUDENT SUPERVISION

<b>Number of Students Mentored Since Joining UGA</b> (August 1998 - May 2016), categories are summarized with numbers of students: current, finished 2016-2008, and finished 2007-1998						
Students Mentored	EHS & Tox	Other UGA	Univ. S. Carolina	Other	Total	Grand Total
graduate advised or co-advised	3, 4, 0	1, 2, 0	0, 0, 5	-	4, 6, 5	15
graduate committee member or external reader	12, 2, 4	6, 16, 6	0, 2, 6	1, 2, 2	19, 22, 18	59
visiting graduate students	0, 0, 2	0, 2, 3	0, 0, 0	0, 2, 10	0, 4, 13	17
Undergraduates (other = visiting)	0, 5, 0	1, 3, 2	0, 0, 5	0, 4, 14	1, 12, 21	34
high school	-	-	-	0, 0, 4	0, 0, 4	4

**Details are presented only for student mentorship since joining EHS in Dec. 2007.** Details of previous students are available upon request.

<b>Current Graduate Student Summary</b>					
Name	TCG lab <sup>1</sup>	Department	University	Degree	Year
<b>Advisor or Co-advisor</b>					
Troy Kieran	Yes	Environmental Health Sci.	UGA	Ph.D.	2
Swarnali Louha	Yes	Bioinformatics	UGA	Ph.D.	3
Jesse Thomas	Yes	Environmental Health Sci.	UGA	Ph.D.	4
Patrick Watson	Yes	Environmental Health Sci.	UGA	Ph.D.	2
<b>Committee Member</b>					
Shubham Basu	No	Bioinformatics	UGA	Ph.D.	3
Karen Bobier	No	Genetics	UGA	Ph.D.	1
David Brew	No	Environmental Health Sci.	UGA	Ph.D.	5
Maite Ghazaleh	No	Environmental Health Sci.	UGA	Ph.D.	2
Pooja Gupta	No	Forestry, Natural Resources	UGA	Ph.D.	1
David Haskins	No	Toxicology	UGA	Ph.D.	1
Guannan Huang	No	Environmental Health Sci.	UGA	Ph.D.	4
Caitlin Ishibashi	No	Plant Biology	UGA	Ph.D.	6
Jiyoung Kim	No	Food and Nutrition	UGA	Ph.D.	1
Ramya Kolli	Yes	Toxicology	UGA	Ph.D.	5
Shenxuan Liang	No <sup>2</sup>	Environmental Health Sci.	UGA	Ph.D.	4
Scott Rozier	No	Environmental Health Sci.	UGA	Ph.D.	2
<b>Undergraduate Students</b>					
Lily Wang	Yes	Microbiology	UGA	B.S.	3

<sup>1</sup> Conducting Experiments in the Glenn Lab in EHS, UGA

<sup>2</sup> Student's original advisor left UGA

<b>Former Graduate Students while at EHS (2008-2016)</b>					
Name	TCG lab <sup>1</sup>	Department	University	Degree	Graduated
<b>Advisor or Co-advisor</b>					
Xiaoming Bian	Yes <sup>2</sup>	Environmental Health Sci.	UGA	Ph.D.	Spring, 2017

Bei Gao	Yes <sup>2</sup>	Environmental Health Sci.	UGA	Ph.D.	Fall, 2016
W. Glenn Ballard	Yes	Environmental Health Sci.	UGA	M.S.	Spring 2016
John Finger Jr.	Yes	Environmental Health Sci.	UGA	Ph.D.	Fall 2014
Cory Gresham	No <sup>2</sup>	Toxicology	UGA	Ph.D.	Fall 2013
Anna McKee	Yes	Forestry & Nat. Resources	UGA	Ph.D.	Fall 2012
Brad Temple	Yes	Environmental Health Sci.	UGA	M.S.	Summer 2010
Ellen Breazel	Yes <sup>2</sup>	Statistics	UGA	Ph.D.	Summer 2008
5 additional students graduated from the University of South Carolina from 2001 – 2004					
<b>Committee Member</b>					
Jessica Stephens	Yes	Plant Biology	UGA	Ph.D.	Spring, 2017
Jincheng Wang	Yes	Environmental Health Sci.	UGA	Ph.D.	Spring, 2017
Keri Lydon	No	Environmental Health Sci.	UGA	Ph.D.	Spring, 2017
Ade Oladeinde	Yes	Environmental Health Sci.	UGA	Ph.D.	Spring, 2017
Sandra Hoffberg	Yes	Genetics	UGA	Ph.D.	Spring, 2017
Peter Scott	Yes	Biological Sciences	Alabama	Ph.D.	Fall 2016
Cara McElroy	Yes	Ecology	UGA	M.S.	Fall 2016
Nicholas Troendle	Yes	Genetics	UGA	Ph.D.	Summer 2016
Rahat Desai	Yes	Toxicology	UGA	Ph.D.	Summer 2016
David Haskins	No	Forestry & Nat. Resources	UGA	M.S.	Summer 2016
Matt Hamilton	No	Forestry & Nat. Resources	UGA	M.S.	Spring 2016
Kerin Bentley	Yes	Genetics	UGA	Ph.D.	Fall 2015
Katie Bockrath	No	Genetics	UGA	Ph.D.	Fall 2015
Jenna Hamlin	No	Genetics	UGA	Ph.D.	Spring 2015
Deli Liu	No	Bioinformatics	UGA	Ph.D.	Fall 2014
Fei Zhao	No	Toxicology	UGA	Ph.D.	Summer 2014
Jared Lee	Yes	Genetics	UGA	Ph.D.	Summer 2014
Matt Hawkins	No	Microbiology	UGA	Ph.D.	Spring 2014
Jennifer Kanine	Yes	Forestry & Nat. Resources	UGA	Ph.D.	Fall 2013
Beck Frydenborg	No	Environmental Health Sci.	UGA	M.S.	Fall 2013
Christina Zakas	No	Genetics	UGA	Ph.D.	Fall 2011
Brian Shamblin	No	Forestry & Nat. Resources	UGA	Ph.D.	Spring 2011
Matthew Greenwold	No	Biological Sciences	S. Carolina	Ph.D.	Spring 2011
Ma Hongbo	Yes	Environmental Health Sci.	UGA	Ph.D.	Fall 2009
Lee Miles	Yes	Genetics	U. Sydney	Ph.D.	Fall 2009
Jeffrey French	No	Biological Sciences	S. Carolina	Ph.D.	Fall 2008
Michelle Norris	No	Forestry & Nat. Resources	UGA	M.S.	Summer 2008
Tracey Tuberville	Yes	Forestry & Nat. Resources	UGA	Ph.D.	Spring 2008
Brant Faircloth	Yes	Forestry & Nat. Resources	UGA	Ph.D.	Spring 2008
18 additional students graduating from 2000 to summer 2007, additional details available upon request					
<b>External Reader</b>					
Meganathan P. R.	No	Life Science	Jadavpur U.	Ph.D.	Spring 2011
<b>Visiting Students</b>					
Amanda Chong	Yes	Genetics	U. Sydney	Ph.D.	2015
Ujwal Bagal	Yes	Bioinformatics	UGA	Ph.D.	2015
Tyler Kartzinel	Yes	Ecology	UGA	Ph.D.	2012
Laura Vary	Yes	Plant Ecology	UC Irvine	Ph.D.	2011
16 additional students from 1999 – 2007, additional details available upon request					

<sup>1</sup>Worked in the Glenn Lab in EHS, UGA<sup>2</sup>Student's original advisor left UGA

### **Additional Details for Current and Recent Students**

#### **Current Students**

### Advisor

Troy Kieran, UGA, Department of Environmental Health Science, PhD student working on the ecology of infectious diseases, focusing on kissing bugs and their mammalian hosts in Panama.

Swarnali Louha, UGA, Institute of Bioinformatics, PhD student working with Zaid Abdo at Colorado State & Rick Meinersmann at USDA, working on methods to identify bacteria of interest in microbial surveys (focusing on *Listeria*) and developing pipelines for a broad array of NGS analysis tools.

Patrick Watson, UGA, Department of Environmental Health Science, PhD student working on the ecology of infectious diseases, focusing on ticks in the USA.

### Co- Advisor

Jesse Thomas, UGA, Department of Environmental Health Science, PhD student, co-advised with Gene Rhodes, SREL, investigating the effects of metal contaminants on microbial communities on the Savannah River Site.

### Committee Member

1. Shubham Basu, UGA, Bioinformatics, PhD student working with Jessica Kissinger on genome assembly of *Toxoplasma gondii* and multi-copy gene family assembly methods.
2. Rahat Desai, UGA, Toxicology, PhD student working with Mary Alice Smith.
3. Maite Nunes Ghazaleh, UGA, EHS, PhD student working with Erin Lipp on coral diseases.
4. David Haskins, UGA, Forestry & Natural Resources, MS student working with Tracey Tuberville on selenium toxicology in red-eared sliders.
5. Sandra Hoffberg, UGA, Genetics, PhD student working with Rodney Mauricio on the genetics of kudzu & wisteria.
6. Guannan (Bela) Huang, UGA, EHS, PhD student working with Tai Guo on the effects of toxins on the mammalian gut microbiome.
7. Caitlin Ishibashi, UGA, Plant Biology, PhD student working with John Burke on the genetics of composites.
8. Ramya Kolli, UGA, Toxicology, PhD student working with Brian Cummings on effects of bromate on epigenetics.
9. Shenxuan Liang, UGA, EHS, PhD student working with John Yu on Cd toxicology and male reproductive effects.
10. Scott Rozier, UGA, EHS, PhD student working with Erin Lipp on microbial pathogens in the environment.

### Undergraduate

Lily Wang, UGA, Microbiology – summer 2015 – current

### **Past Students (since joining EHS, Dec. 2007)**

#### Advisor

Xiaoming Bian, UGA, EHS, PhD student previously advised by and still working with Kun Lu on the effects of pesticides on the gut microbiome.

Bei Gao, UGA, EHS, PhD student previously advised by and still working with Kun Lu on the functional impacts of insecticides on the gut microbiome.

Willem Glenn Ballard, UGA, Department of Environmental Health Science, MS student working on next-generation stream impairment assessments.

John Finger, UGA, Toxicology, Department of Environmental Health Science, PhD Dec 2014, investigated influenza transmission in alligators and the effects of toxicants on alligator immune function (infectious diseases, toxicology, and environmental sentinels).



Brad Temple, UGA, Environmental Health Science, MS Aug 2010, Thesis: Avian influenza susceptibility in *Alligator mississippiensis*: A model for influenza replication in crocodilian species. Completed DVM at UGA, now a practicing DVM in Vermont.

### Co-advisor

Anna McKee, UGA (Presidential Fellow), School of Forestry & Natural Resources, PhD Dec 2012, co-advised with John Maerz, investigated the relationship of genetic diversity with land use patterns on amphibian communities (environmental sentinels). Dissertation: Correlations Between Community Diversity and Within-Species Genetic Diversity in an Amphibian Assemblage: Potential Processes and Implications for Conservation Management

Ellen Breazel, UGA, Statistics, PhD Aug 2008, co-advised with Paul Schliekelman, Dissertation: Effects of common errors in microsatellite data on estimates of population differentiation and Inferring genotypic structure of complex loci using genome-wide expression data. Currently working as an instructor at Clemson University (her dream job, she turned down tenure-track positions).

Cory Gresham, UGA, Toxicology, DVM & PhD student worked with Richard Winn on germ-line mutagenesis using transgenic medaka & mouse models. Dissertation: The oocyte as a transmitter and mediator of genetic damage to offspring. Graduated fall 2013 with TCG as signing advisor.

[5 additional students graduated from the University of South Carolina from 2001 – 2004]

### Committee Member or External Reader (\* conducted experiments in TCG labs)

1. Keri Lydon, UGA, EHS, PhD student working with Erin Lipp on *Vibrio* resistance and infections from raw oyster consumption.
2. Ade Oladeinde, UGA, EHS, PhD student working with Erin Lipp and Marirosa Molina (EPA) on the pathogen regrowth in surface waters impacted by agriculture, especially cattle feces.
3. Peter Scott, University of Alabama, PhD student working with Leslie Rissler on the spatial genetics of turtles and epigenetics of newts.
4. David Haskins, UGA, Forestry & Natural Resources, MS student working with Tracey Tuberville on selenium toxicology in red-eared sliders.
5. Jessica Stephens, UGA, ILS Plant Biology, PhD student working with Russell Malmberg on pitcher plants.
6. Nicholas Troendle, UGA, Genetics, PhD student working with Rodney Mauricio on mosquitofish genomics.
7. Jincheng Wang, UGA, EHS, PhD student working with J.S. Wang on the effects of green tea on the gut microbiome.
8. Matt Hamilton, UGA, Forestry & Natural Resources, MS worked with Tracey Tuberville (SREL) & Robert Bringolf to measure stress (corticosterone) in alligators. Graduated Spring 2016.
9. \*Kerin Bentley, UGA, Genetics, PhD student worked with Rodney Mauricio on invasive plant species in the US and China (kudzu). Graduated Fall 2015.
10. Katherine (Katie) Bockrath, UGA, Genetics, PhD student worked with John Wares on freshwater mussels. Graduated Fall 2015.
11. Jenna Hamlin, UGA, Genetics, PhD student worked with Michael Arnold on genetics and phylogeography of hybridizing iris species. Graduated Spring 2015.
12. Deli Liu, UGA, Bioinformatics, PhD student worked with Shaying Zhao on detecting amplifications and deletions in breast cancer genomes. Graduated Fall 2014.
13. Fei Zhao, UGA, Toxicology, PhD student worked with Xiaoqin Ye on reproductive toxicology. Graduated Summer 2014.
14. Jared Lee, UGA, Genetics, PhD student worked with Rodney Mauricio on mosquitofish, introduced from the US to pacific islands and China (an invasive species). Graduated Summer 2014.
15. Matt Hawkins, UGA, Microbiology, PhD student worked with Joy Peterson on genetic differentiation of yeast adapted ethanol production from pine wood. Graduated Spring 2014.
16. \*Jennifer Kanine, UGA, Forest Resources, PhD student worked with Mike Mengak and Steven Castleberry on Allegheny Woodrat conservation genetics. Graduated Fall 2013.

17. Beck Frydenborg, UGA, EHS, MS student worked with Erin Lipp on genetics of coral pathogens. Graduated Fall 2013.
  18. Christina Zakas, UGA, Genetics, PhD student worked with John Wares on breeding system and genetics of marine worms. Graduated fall 2011.
  19. Brian Shamblin, UGA, Forest Resources, PhD student worked with Joe Nairn on genetic structure of loggerheads using microsatellite DNA loci. Graduated spring 2011.
  20. Matthew Greenwold, USC, Biological Sciences, PhD student worked with Roger Sawyer on evolution of feather beta keratin genes in birds & reptiles. Graduated spring 2011.
  21. Meganathan P. R., Jadavpur University, India, External reader for PhD dissertation: Molecular Forensics and Phylogenetics of Crocodiles: Special Emphasis on Indian Crocodile Species. Spring 2011.
  22. \*Ma Hongbo, UGA, Environmental Health Sciences (Phil Williams, major advisor), PhD Dec 2009, worked on assaying toxicity of heavy metals and nanoparticles using transgenic *C. elegans* with GFP::mtl-2 construct. Currently a post-doc at U.S. EPA, Duluth, MN.
  23. \*Lee Miles, University of Sydney (Australia), PhD Dec 2009, with Chris Moran, Peter Thomson, and Sally Isberg, worked on a genetic map and QTLs in saltwater crocodiles. Currently works for Sigma, Australia.
  24. Jeffrey French, USC, PhD student with Austin Hughes, worked on codon bias, graduated fall 2008.
  25. Michelle Norris, UGA, School of Forestry & Natural Resources, MS student with Richard Winn, worked on mutational assays of medaka. Graduated summer 2008.
  26. \*Tracey Tuberville, UGA, Ecology, PhD student with Whit Gibbons, worked on gopher tortoise conservation. Graduated Spring 2008.
  27. Brant Faircloth, UGA, School of Forestry & Natural Resources, PhD student with John Carroll and Bill Palmer, worked on genetics, behavior and management of quail. Graduated Spring 2008.
- [18 additional students graduating between 2000 and summer 2007; list available upon request]

### Visiting Students

- Ujwal Bagal, UGA, Bioinformatics, PhD student, working on a variety of bioinformatics projects.
- Jennifer Kanine, UGA, Forest Resources, PhD student (see committee membership for details).
- Jessica Stephens, UGA, Plant Biology, PhD student (see committee membership for details).
- Peter Scott, University of Alabama, PhD student working with Leslie Rissler on the spatial genetics of turtles and epigenetics of newts. December 2012.
- Tyler Kartzinel, UGA, Ecology, PhD student working with Rich Shefferson on conservation genetics of orchids. Visited intermittently from 2009-2012
- Amanda Chong, Univ. of Sydney, Australia, PhD student of Jaimie Gongora, surveying ERV genetic elements in saltwater crocodile BACs, visiting to make 454 libraries of the BACs. June & July, 2011.
- Laura Vary, Univ. of California, Irvine, student of Steve Weller and Anne Sakai developing and genotyping microsatellites of a Malagasy plant. March, 2008.
- [16 additional students from 1999 – 2007; list available upon request]

### Undergraduate

- Kendra Barr, UGA, EHS – fall 2016
- Bryan Liang, UGA, Biology – fall 2016
- Tyler Moore, UGA, EHS – summer 2015
- Tucker Bond, UGA, Biology – summer 2014
- Nicholas Means, Oklahoma State, biochemistry – summer 2014
- Darlisha Owens, Grambling State – summer 2014
- Geeci Collins, UGA, EHS – summer & fall 2013
- Philip Pham, UGA, EHS – spring, summer, fall 2013
- Jamila Pham, UGA, EHS – summer 2012.
- Tanika Hood, UGA, EHS – spring 2010.
- Nicole Jozwiak, UGA, Warnell School of Forestry and Natural Resources. 2008-2010.
- Sheena Zhang, UGA, Ecology, 2008.

[21 additional students from 1998-2007; list available upon request]

## **POSTDOCTORAL MENTORING**

Natalia Bayona, 2016 – present

Kenneth L. Jones, 2007-2009, now an assistant research professor, Department of Biochemistry and Molecular Genetics, University of Colorado School of Medicine, Denver

Stacey Lance, 2007-2009, now an assistant research scientist, Savannah River Ecology Lab, UGA

Olga Tsyusko, 2004-2006, now a research assistant professor, Department of Plant and Soil Sciences, University of Kentucky

Julie Weston, 2002, now an instructor, University of North Georgia, Oconee campus

## **VISITING SCIENTISTS SPONSORED**

Anna McKee, US Geological Survey, Atlanta, GA, detecting endangered amphibians via environmental DNA sequencing and quantitative PCR, 2012 - ongoing

Stephen Spear, Orianne Society, Athens, GA, detecting amphibians via environmental DNA (shed DNA in water) and quantitative PCR – 2014 - 2016

John Carothers, Cabrillo College, Aptos, CA, NGS training for Fungal Dimensions project, June 2014.

Christopher Moran, University of Sydney, Australia, analyzing crocodile transcriptome data, Jan 2011.

Kevin Winker, University of Alaska, Fairbanks, analyzing transcriptome data, April 2010.

Christina Garcia, Fulbright Fellow, Dept. of Plant Science, UGA, developing and genotyping microsatellites in tropical trees, 2008-2010.

John McCormack, Louisiana State University, working on tetrapod UCEs, November 2009.

Elena Varela-Álvarez, CCMAR - Center for Marine Sciences, F.C.M.A., University of Algarve, Portugal, developing microsatellite DNA loci, 2007

Thierry Cadalen & Monika Morchen, Universite des Sciences et Technologies de Lille, France, developing microsatellite DNA loci, November 2004.

Dorset Trapnell, University of Georgia, developing microsatellite DNA loci, fall 2004.

Gary & Ann Fritz, Eastern Illinois University, developing microsatellite DNA loci, fall 2002.

Jennifer Dever, Lander University, working on mtDNA of red pandas, summer 2000.