

Adalgisa (Gisella) Caccone's Publications

September 2017

Submitted

- Gloria-Soria, A, W.A. Dunn, WA, X Yu, A Vigneron A, K-Y Lee, BL Weiss, H. Zhao , S. Aksoy, S., and A. CACCONE. Harnessing genomic data from closely related taxa to uncover gene-phenotype associations in non-model organisms: genomic regions associated with Trypanosoma infections in wild populations of the tsetse fly *Glossina fuscipes*. G3 (in review).
- Jensen, E.L, D.L. Edwards, R.C. Garrick, J. M. Miller, J. P. Gibbs, L.J. Cayot, W. Tapi, A. CACCONE and M.A. Russello. Population genomics through time corroborates bottleneck theory in Pinzón Galápagos giant tortoises. Nature (in review).
- Havill, N.P, S. Gaimari, and A. CACCONE. Cryptic east-west divergence and molecular diagnostics for two species of silver flies (Diptera: Chamaemyiidae: *Leucopis*) from North American being evaluated for biological control of hemlock woolly adelgid. Biological Invasions (submitted),
- Burak, M., N. Saarman, R. Opiro, C. Hyseni, R. Echodu, E. Opiyo, K. Dion, A. Dunn, S. Aksoy and A. CACCONE. A spatial genetics approach to inform vector control of tsetse flies (*Glossina fuscipes fuscipes*) in Northern Uganda. Scientific Reports (in review).
- Chiari, Y, A. van der Meijden, A. CACCONE, J. Claude, B. Gilles. Different performance in rolling – over may relate to shell shape evolution in Galápagos giant tortoises". Scientific reports (in review).
- Marshall, J.C., E. Bastiaans, A. CACCONE, A. Camargo, M. Moranda, M. Niemiller, M. Pabijan, M. Russello, B. Sinervo, J. W. Sites, Jr., M.Vences, J. J. Wiens, F. P. Werweck, K. C. Wollenberg Valero, S. Steinfartz. Inferring processes and mechanisms of speciation in reptiles and amphibians: a synopsis. Amphibia-Reptilia (submitted).
- Orr, A., J.E. Quagraine, P. Suwondo, F.P. Dornas, D. Humphries, L.M. Harrison, B. Evans, A. CACCONE, M. D. Wilson, M. Cappello. Genetic markers of benzimidazole resistance among human hookworms (*Necator americanus*) in Kintampo North Municipality, Ghana. J. of Infectious Diseases (submitted).

2017

216. Richardson, J., K.-Y. Lee, P. Mireji, J. Enyaru, M. Sstrom, S. Aksoy, H. Zhao, A. CACCONE. Genomic analyses of African *Trypanosoma* strains to assess evolutionary relationships and identify markers for strain identification. Plos NTD (in review)
215. Gaughran, S.J., M.C. Quinzin, J.M. Miller, R.C. Garrick, D.L. Edwards, M.A. Russello, N. Poulakakis, C. Ciofi⁷, L.B. Beheregaray, A. CACCONE. Theory, practice, and conservation in the age of genomics: the Galápagos giant tortoise as a case study. Evolutionary Application (in press).
214. Okeyo, W.O., N. P. Saarman, M. Mengual, K. Dion, R. Bateta, P. O. Mireji, S. Okoth, J. O. Ouma, C. Ouma, J. Ochieng, G. Murilla, S. Aksoy and A. CACCONE. Genetic diversity and temporal instability in *Glossina pallidipes* tsetse fly populations in Kenya. Parasites and vectors (in press).
213. Kotsakiozi, P., J. Richardson, G. Favia, A. J. Martins, S. Urbanelli, P. Armbruster, A.CACCONE. Population genomics of the Asian tiger mosquito, *Aedes albopictus*: insights into the recent worldwide invasion. Ecology and Evolution (in press)
212. Walter, K.S., G.Carpi, A, CACCONE*, M.A. Diuk-Wasser*. 2017. Genomic insights into the ancient spread of Lyme disease across North America. Nature genetics (in press).*authors contributed equally.
211. Miller, J.M, M.C. Quinzin, N. Poulakakis, L. B. Beheregaray, J.P. Gibbs, C. Garrick, M. A. Russello, C. Ciofi, D. L. Edwards, E. A. Hunter, W. Tapia, D. Rueda, J. Carrión, A.A. Valdivieso, A. Caccone. 2017. Identification of genetically important individuals of the rediscovered Floreana Galapagos Giant tortoises (*Chelonoidis elephantopus*) provides forunders for species restoration program. Scientific Reports (in press).
210. Kamidi, C.M, N.P. Saarman, K. Dion, P.O. Mireji, C. Ouma, G. Murilla, S. Aksoy, A. Schnauffer, A. CACCONE. 2017. Multiple evolutionary origins of *Trypanosoma evansi* in Kenya. Plos Neglected diseases (in press).
209. Kotsakiozi, P., A. Gloria-Soria, A. CACCONE, B. Evans, R. Schama, A. J. Martins and J. R. Powell. 2017. Tracking the return of *Aedes aegypti* to Brazil, the major vector of the dengue, chikungunya and Zika viruses. Plos NTD (in Press).
208. Opiro, R, N. P. Saarman, R. Echodu, E. A. Opiyo, K. Dion, A. Halyard, A. W. Dunn, S. Aksoy and A. CACCONE. 2017. Genetic Diversity and Population Structure of the Tsetse fly *Glossina fuscipes fuscipes* (Diptera: Glossinidae) in Northern Uganda: Implications for Vector Control. Plos Neglected

Diseases Apr 28;11(4):e0005485. doi: 10.1371/journal.pntd.0005485. [Epub ahead of print]. PMID: 28453513.

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206. Andersen, J.C., N. P. Havill A. CACCONI, and J. S. Elkinton. 2017. Post-glacial recolonization shaped the genetic diversity of the winter moth (*Operophtera brumata*) in Europe. *Ecology and Evolution* (2017). DOI: 10.1002/ece3.2860. PMID:28515868.
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203. Havill, N.P, J. Elkinton, J.C. Andersen, S.B. Hagen, H. J. Broadley, G.J. Boettner, A. CACCONI. Asymmetric hybridization between non-native winter moth, *Operophtera brumata* (Lepidoptera: Geometridae), and native Bruce spanworm, *O. bruceata*, in the northeastern United States, assessed with novel microsatellites and SNPs. *Bulletin of Entomological Research*, pp. 1–10. doi: 10.1017/S0007485316000857.
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201. Jensen E.L., A.Ø. Mooers, A. CACCONI, and M.A. Russello MA. (2016) I-HEDGE: determining the optimum complementary sets of taxa for conservation using evolutionary isolation. *PeerJ* 4:e2350 <https://doi.org/10.7717/peerj.2350>.
200. Walter, K. S., G. Carpi, B.R. Evans, A. CACCONI, M.A. Diuk-Wasser. Vectors as epidemiological sentinels: Patterns of within-tick *Borrellia burgdorferi* diversity. *PLoS Pathog* 12(7): e1005759. doi:10.1371/journal.ppat.1005759.
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198. Opiro, R., N.P. Saarman, R. Echodu, E. A. Opiyo, K. Dion, A. Haylard, S. Aksoy and A.Caccone. Evidence of temporal stability in allelic and mitochondrial haplotype diversity in populations of *Glossina fuscipes fuscipes* (Diptera: Glossinidae) in northern Uganda. *Parasites and Vectors*. 9:258.
197. Gloria-Soria, A, WA Dunn WA, EL Telleria, BR Evans, L. Okedi L, R. Echodu, WC Warren, S. Aksoy S, A. CACCONI. Patterns of genome-wide variation in *Glossina fuscipes fuscipes* tsetse flies from Uganda. G3: Genes|Genomes|Genetics Early Online, published on April 13, 2016 as doi:10.1534/g3.116.027235.
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