

BRADLEY J. WHITE

Cell: (574) 315-5999
Office: (951) 827-2626
Email: bwhite@ucr.edu
Web: mosquitogenomics.org

Department of Entomology
Center for Disease Vector Research
University of California
Riverside, CA 92521-0001 USA

EDUCATION

2010 Ph.D. Biological Sciences, University of Notre Dame, Notre Dame, IN
2004 B.A. Biology and English, Oberlin College, Oberlin, OH

PROFESSIONAL EXPERIENCE

2011- Assistant Professor, Department of Entomology, University of California
Riverside
2010-2011 Postdoctoral Associate, Department of Biological Sciences, University of
Notre Dame

TEACHING EXPERIENCE

Instructor, Natural History of Insects (4 times; mean class size ~300)
Instructor, Seminar in Entomology, (3 times; mean class size ~50)
Instructor, The Evidence for Evolution (3 times; mean class size ~40)

EXTERNAL GRANTS & FELLOWSHIPS (>\$5000)

Active

2015-2018 NSF-REU, "Research Experiences in Integrated Computation Entomology"
(\$389,550; co-PI)
2015-2017 NIH-R21, "Identification of Genes that Cause Sterility in Male Malaria
Mosquitoes" (\$403,938; sole-PI)
2014-2017 CDFA, "Management of insecticide resistance in GWSS populations using
toxicological, biochemical and genomic tools" (\$632,101; co-PI)
2014-2019 NIH-R01, "Fine Scale Recombination Rate Variation in *Anopheles gambiae*"
(\$1,812,125; sole-PI)

Expired

2013-2014 Mosquito Research Foundation "High Throughput Population Genomics of
West Nile Vectors in California" (\$27,661; sole PI).

PUBLICATIONS (*h-index* = 13)

1. Turissini, D.A., S. Gamez, and **B.J White** (2014). Genome-wide patterns of polymorphism in an inbred line of the African malaria mosquito *Anopheles gambiae*. *Genome Biology and Evolution* 6(11): 3094-3104.

2. **White, B.J.**, P.N. Kundert, D.A. Turissini, L. Van Ekeris, PJ Linser, and NJ Besnasky (2013). Dose and Developmental Response of *Anopheles merus* larvae to salinity. *J Exp Bio.* 216(18): 3433-3441.
 - *Commentary in Journal of Experimental Biology*
3. Cheng, C., **B.J. White**, C. Kamdem, K. Mockaitis, C. Costantini, M.W. Hahn, and N.J. Besansky (2012). Ecological genomics of *Anopheles gambiae* along a latitudinal cline in Cameroon: a population resequencing approach. *Genetics.* 190:1417-1432.
 - *Cover Article*
 - *Commentary in Genetics*
 - *Selected by Faculty of 1000*
4. Hahn, M.W., **B.J. White**, C.D. Muir, and N.J. Besansky (2012). No evidence for biased co-transmission of speciation islands in *Anopheles gambiae*. *Philosophical Transactions of the Royal Society B* 367: 374-384.
5. **White, B.J.**, F.H. Collins, and N.J. Besansky (2011). Evolution of *Anopheles gambiae* in relation to humans and malaria. *Annual Review in Ecology, Evolution, and Systematics* 42: 111-132.
6. Caputo, B., F. Santolomazzo, J.L. Vicente, D.C. Nwakanma, M. Jawara, K. Palsson, T. Jaenson, **B.J. White**, E. Mancini, V. Petrarca, D.J. Conway, N.J. Besansky, J. Pinto, and A. della Torre (2011). The "far-west" of *Anopheles gambiae* molecular forms. *PLoS One* 6(2): e16415.
7. **White, B.J.**, M.K.N. Lawnikzac, C. Cheng, M. Coulibaly, M.D. Wilson, N. Sagnon, C. Costantini, F. Simard, G. Christophides, and N.J. Besansky (2011). Adaptive divergence between incipient species of *Anopheles gambiae* increases resistance to Plasmodium. *PNAS* 108: 244-249.
 - *Selected by Faculty of 1000 (must read)*
8. Lawnikzac, M.K.N., S. Emrich, A.K. Halloway, A. Reiger, M. Olson, **B.J. White**, (23 others), and N.J. Besansky (2010). Widespread divergence between incipient *Anopheles gambiae* species revealed by whole genome sequencing. *Science* 330: 512-514.
 - *Featured in Scientific American*
 - *Featured in The Independent*
 - *Featured in USA Today*
9. **White, B.J.**, C. Cheng, F. Simard, C. Costantini and N.J. Besansky (2010). Genetic association of physically unlinked islands of genomic divergence between incipient species of *Anopheles gambiae*. *Molecular Ecology* 19: 925-939.
 - *Commentary in Molecular Ecology*

10. **White, B.J.**, C. Cheng, D. Sangare, N.F. Lobo, F. Collins, and N.J. Besansky (2009). Population genomics of trans-specific inversions in *Anopheles gambiae*. *Genetics* 183:275-288.
11. Cassone, B.J., K. Mouline M.W. Hahn, **B.J. White**, M. Pombi, F. Simard, C. Costantini, and N.J. Besansky (2008). Differential gene expression in incipient species of *Anopheles gambiae*. *Molecular Ecology* 17: 2491-2504.
12. **White, B.J.**, M.W. Hahn, M. Pombi, B.J. Cassone, N.F. Lobo, F. Simard, and N.J. Besansky (2007). Localization of candidate regions maintaining a common polymorphic inversion (2La) in *Anopheles gambiae*. *PLoS Genetics* 3: 2404-2414.
 - *Commentary in Nature Genetics*
 - *Covered in Oberlin Alumni Magazine*
13. **White, B.J.**, F. Santolamazza, (12 others), and N.J. Besansky (2007). Molecular karyotyping of the 2La inversion in *Anopheles gambiae*. *American Journal of Tropical Medicine and Hygiene* 76: 334-339.
14. **White, B.J.**, D.R. Andrew, N.Z. Mans, O.A. Ohajuruka, and M.C. Garvin (2006). West Nile virus in mosquitoes of northern Ohio. *American Journal of Tropical Medicine and Hygiene* 75: 346-349.
15. Sharakhov, I.V., **B.J. White**, M.V. Sharakhova, J. Kayondo, N.F. Lobo, F. Santolamazza, A. della Torre, F. Simard, F. H. Collins, and N.J. Besansky (2006). Breakpoint structure reveals the unique origin of a interspecific chromosomal inversion (2La) in the *Anopheles gambiae* complex. *PNAS* 103: 6258-6262.
 - Selected by Faculty of 1000
16. Scheidler, L.C., M.M. Dunphy-Daly, **B.J. White**, D.R. Andrew, N.Z. Mans, and M.C. Garvin (2006). Survey of *Aedes triseriatus* (Diptera: Culicidae) for Lacrosse Encephalitis Virus and West Nile Virus in Lorain County, Ohio. *Journal of Medical Entomology* 43:589-593