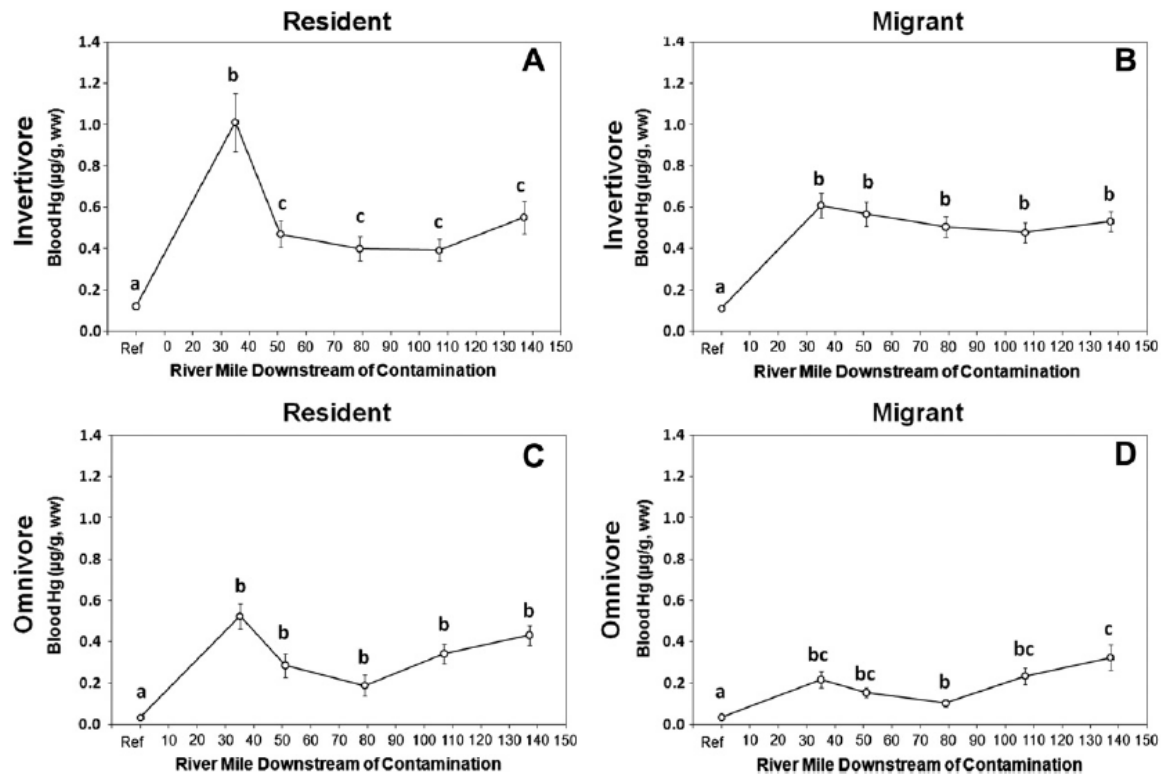


Avian project update

Claire Ramos & Dan Cristol
College of William and Mary

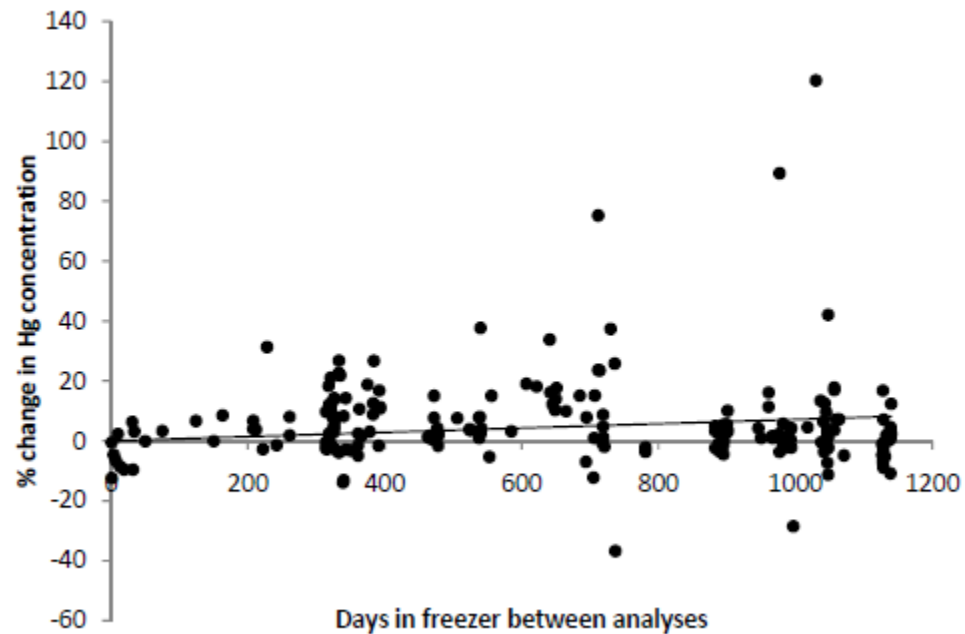
Recent Publications

- A.K. Jackson, D.C. Evers, S.B. Folsom, A.M. Condon, J. Diener, L.F. Goodrick, A.J. McGann, J. Schmerfeld, D.A. Cristol. (2011) **Mercury exposure in terrestrial birds far downstream of an historical point source.** Environmental Pollution 159: 3302-3308.



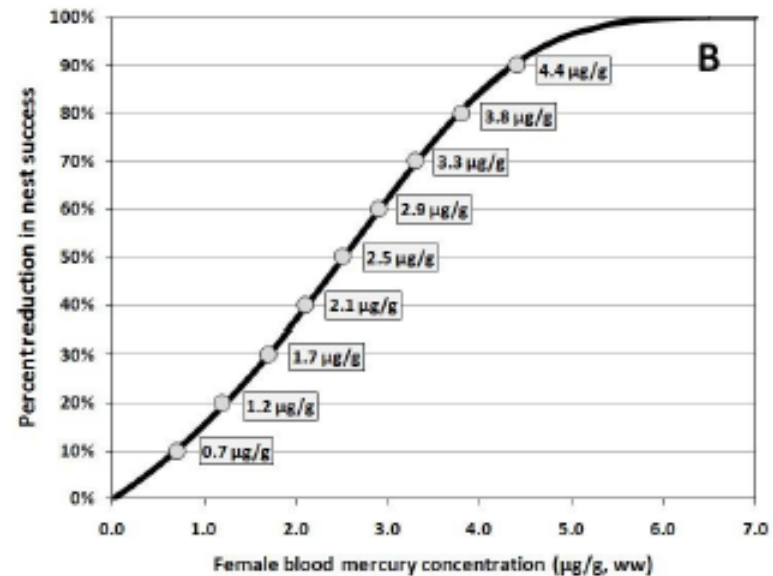
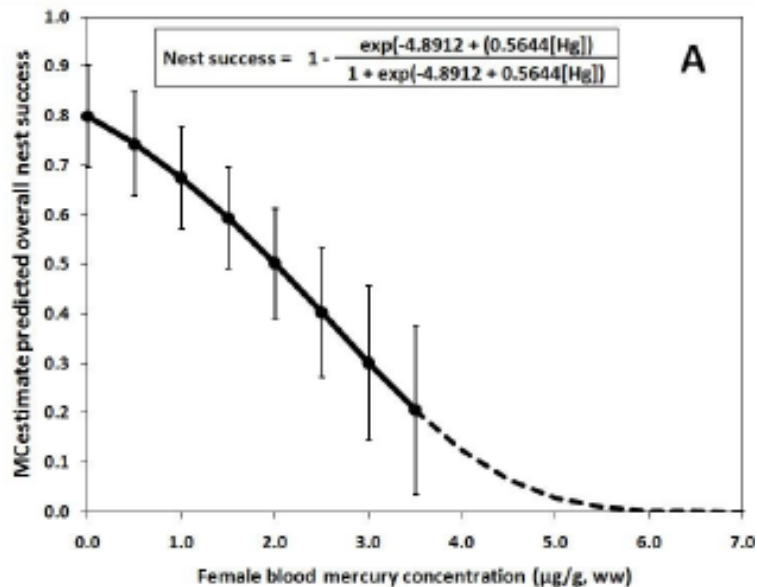
Recent Publications

- C.W. Varian-Ramos, A.M. Condon, K.K. Hallinger, K.A. Carlson-Drexler, D.A. Cristol. (2011) **Stability of Mercury Concentrations in Frozen Avian Blood Samples.** Bulletin of Environmental Contamination and Toxicology 86: 159-162



Recent Publications

- A.K. Jackson, D.C. Evers, M.A. Etterson, A.M. Condon, S.B. Folsom, J. Detweiler, J. Schmerfeld, and D.A. Cristol. (2001) **Mercury exposure affects the reproductive success of a free-living terrestrial songbird, the Carolina wren (*thryothorus ludovicianus*)**. *Auk*, in press.

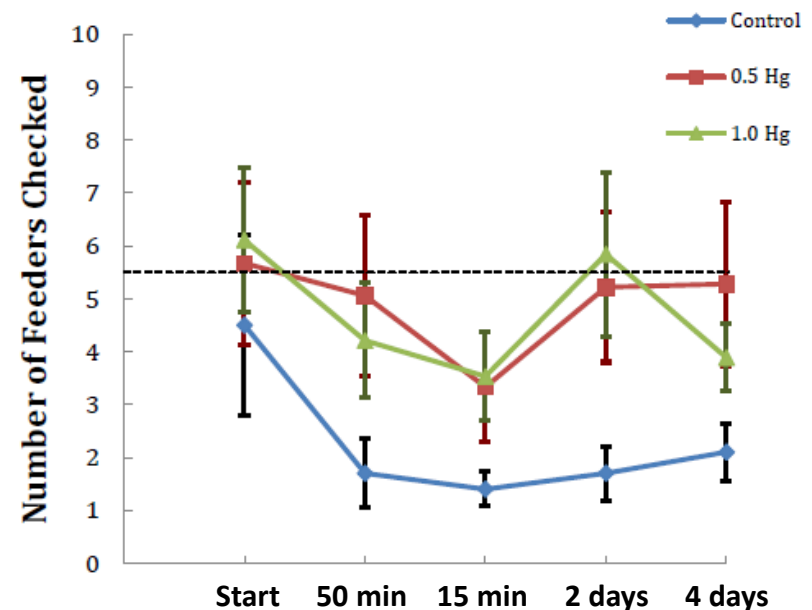


Publications in Review

- D. Cristol, L. Savoy, D. Evers, C. Perkins, R. Taylor, C. Varian-Ramos. **Mercury in waterfowl from a contaminated river in Virginia.** Journal of Wildlife Management, *in review.*
- A.J. Bouland, A.E. White, K.P. Lonabaugh, C.W. Varian-Ramos, D.A. Cristol. **Female-Biased Offspring Sex Ratios in Birds at a Mercury-Contaminated River.** Journal of Avian Biology, *in review.*

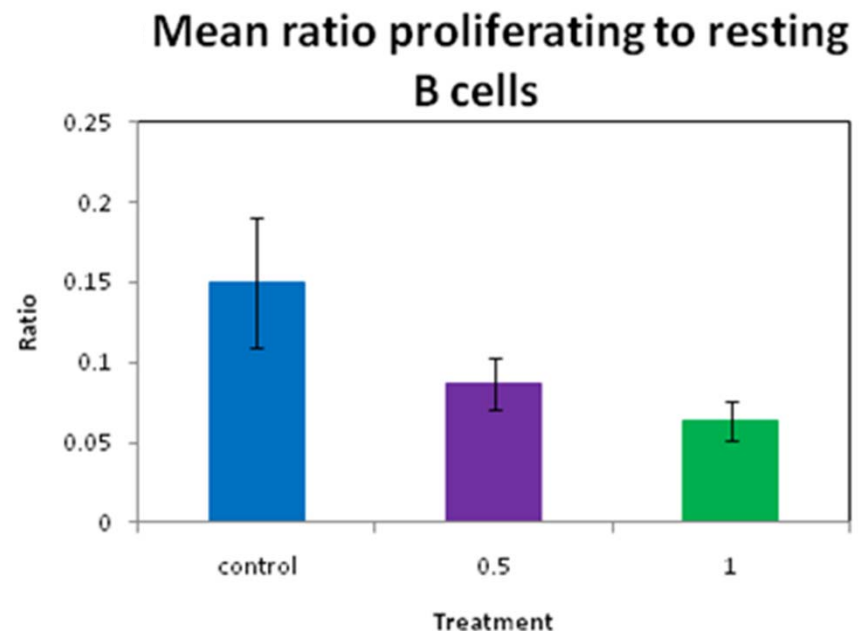
Recent Graduate Theses

- **Amanda Bessler**
 - Mercury contamination impairs spatial memory
- **Catherine Lewis**
 - Mercury contamination may reduce immune response
- **Sarah Lemelin**
 - Mercury contamination did not disrupt endocrine function



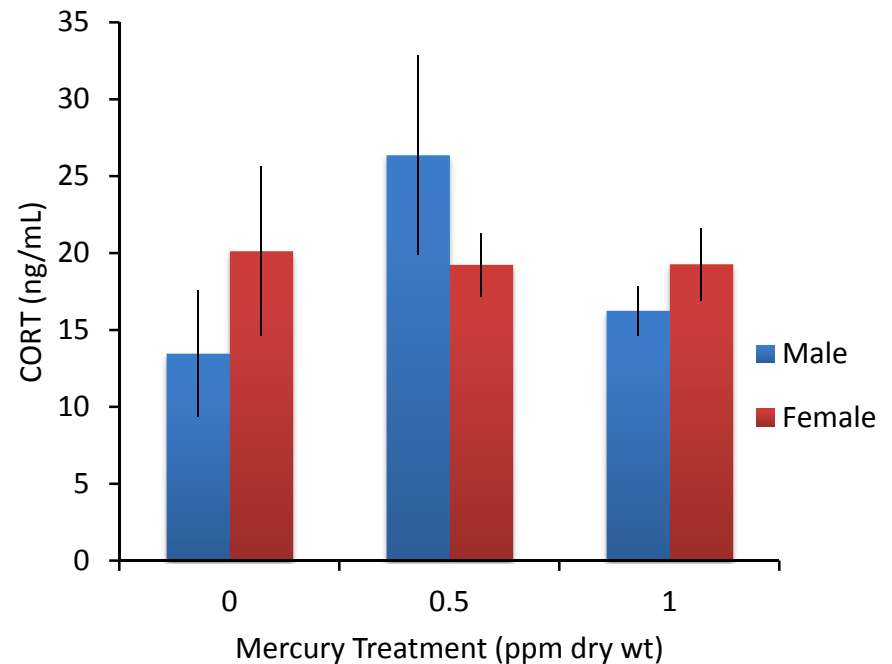
Recent Graduate Theses

- Amanda Bessler
 - Mercury contamination impairs spatial memory
- **Catherine Lewis**
 - Mercury contamination may reduce immune response
- Sarah Lemelin
 - Mercury contamination did not disrupt endocrine function



Recent Graduate Theses

- **Amanda Bessler**
 - Mercury contamination impairs spatial memory
- **Catherine Lewis**
 - Mercury contamination may reduce immune response
- **Sarah Lemelin**
 - Mercury contamination did not disrupt endocrine function



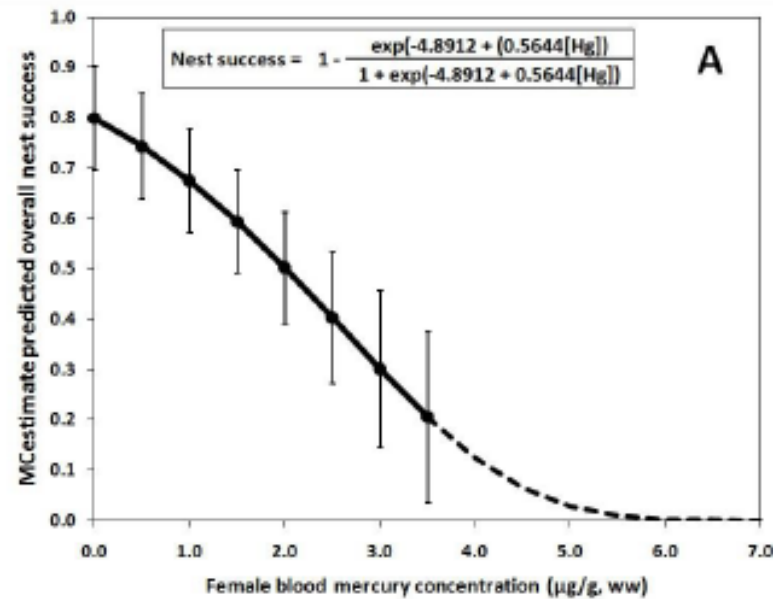
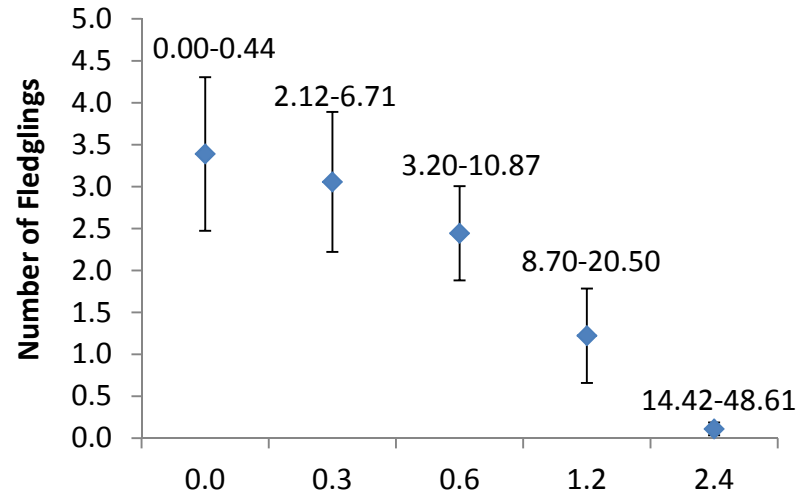
Dosing study update

- Long term experiment
 - Larger sample size
 - 18 pairs/treatment
 - Lifetime breeding
 - Higher doses
 - 0.0, 0.3, 0.6, 1.2, 2.4 ppm



Preliminary Results

- Reproductive suppression
- Use dosing data to calibrate to field results



From Jackson et al. in press