

Danielle Drabeck

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Professional Preparation

Tulane University	Environmental Biology and Anthropology	B.S., 2008
Tulane University	Ecology and Evolutionary Biology	M.S., 2010
University of Minnesota	Ecology and Evolutionary Biology	(June 2019)Ph.D., 2019

Appointments

2018- Interdisciplinary Doctoral Fellow, University of Minnesota
2017/18- Graduate Teaching Assistant, University of Minnesota
2015- Dayton Bell Museum Fellow, University of Minnesota
2015- Curatorial Assistant, Tissues and Genetic Resources, Bell Museum of Natural History
2014- Research Assistant, Grant in Aid of Research UMN (co-written with advisers)
2014- Elmer C. and Marcia F Birney Fellow
2014- Ray C. Anderson Zoology and Genetics Fellow
2012-2013- Curatorial Assistant, Mammal collections, Bell Museum of Natural History
2012- Research Associate, Kelly Scientific/Pioneer Hi-Bred
2011- Aquatic Toxicologist, Pacific EcoRisk, Suisun, CA
2011- Field Technician, Tulane University (lab: Caz Taylor)
2010- Research Associate, Tulane University (lab: Corinne Richards-Zawacki)
2010- Visiting Instructor
2010- Graduate Teaching Assistant, Tulane University
2006- Lab Technician Tulane University (lab: David Heins)
2005- Wildlife Educator (company owner Teresa Pollock), Los Angeles, CA

Awards

2014-2018 University of Minnesota Ecology Evolution and Behavior Research Award
2014/2017- American Society of Mammologists Grant in Aid
2014- 2017- Dayton Bell Museum Fund Fellowship
2014- Frederick and Helen Gauge Fund Award, American Society of Ichthyologist and Herpetologists
2013- Rosemary Grant Award, Society for the Study of Evolution

Products

—Publications—

- (1) Holding M.L.†, **Drabeck D.H.†**, Jansa S.A, Gibbs, H.L Venom resistance as a model for understanding the molecular basis of complex coevolutionary adaptations. (2016) Inregr. Comp. Biol. Online Advanced Copy July 21, 2016†- **Joint lead authors**- Both authors contributed equally to this publication
- (2) **Drabeck, D.**, and Jansa, S. Why the honey badger don't care: Convergent evolution of venom-targeted nicotinic acetylcholine receptors in mammals that survive venomous snake bites. (2015) Toxicon 99: 68-72
- (3) **Drabeck, D.**, Chattfield, M., Omalley, B., Richard-Zawacki, C. 2014. The status of Louisiana's diamondback terrapin (*Malaclemys terrapin*) populations in the wake of the Deepwater Horizon oil spill: Insights from population genetic and contaminant analyses. Journal of Herpetology 48:125-136.
- (4) Hekkala, E., Saumure, R., Jeager, J., Werner, H., Sredl, M., Culver, M., Bradford, D., **Drabeck, D.**, Blum, M.J. 2011. Resurrecting an extinct species: Archival DNA, taxonomy, and conservation of the Vegas Valley leopard frog. Conservation Genetics 12: 1379-1385.

—Invited Oral Presentations—

(1)**Drabeck, DH**, Dean AM, and Jansa SA Opossums vs. vipers: Molecular and functional characterization of a coevolutionary arms race. *2018 North American Society of Toxinology, Keynote talk Kingsville, TX.*

(2)**Drabeck, DH**, Dean AM, and Jansa SA Molecular and functional characterization of a coevolutionary trait. *2018 Visiting Researcher Seminar Instituto Butantan, Brazil*

(3)**Drabeck, DH**, Dean AM, and Jansa SA. Natural Toxins: Why we can and the honey badger don't. *2015 Ohio State University Undergraduate Ecology and Evolution Club seminar, Columbus, OH.*

—**Contributed Presentations**—

(1)**Drabeck, DH**, Dean AM, and Jansa SA Molecular and functional characterization of a coevolutionary trait. *2018 Poster given at Gordon Conference: Evolution and Function of Venom Arsenal West Dover, VT*

(2)**Drabeck, DH**, Dean AM, and Jansa SA. Convergent evolution of venom targeted nicotinic acetylcholine receptors in mammals that survive venomous snake bites. *2016 Joint Meeting of Ichthyologists and Herpetologist New Orleans, LA., and the 2016 American Society of Mammologists Meeting in Minneapolis, MN*

(3)**Drabeck, DH**, Dean AM, and Jansa SA. The Molecular and Functional Characterization of a Coevolutionary Arms Race: South American vipers and Didelphid marsupials. *2015 Joint Meeting of Ichthyologists and Herpetologist Reno, NV*

(4)**Drabeck, DH** and Jansa SA. (2014) Resistance to Venom-Induced Platelet Aggregation in Didelphid Marsupials: Functional Characterization of a Coevolutionary Arms Race. *2014 Poster given at Evolution Raleigh, NC.*

Synergistic Activities

Outreach/Education Module design: Designed 3 venom and coevolution education outreach modules for all ages (participants age 3-90) to communicate results of my research. Modules were presented by self, taught to local teachers, and undergraduate volunteers at several outreach venues (Market Science, Bell Museum- several (5+) events).

Public Speaker: Adapted a research talk communicating the results of my PhD to a public audience. Given at Café Scientifique (Bell Museum of Natural History) and the American Association of University Women. All ages.

Panelist on Diversity in STEM: Invited panelist on Sci-Spark and Grad-Challenges panels encouraging frank discussion on the struggles and solutions of broadening representation in academic science.

Community Volunteer: Volunteer regularly at district science fairs as a judge and consult elementary science teachers on curriculum development improving the teaching of concepts in evolution.

Scientific mentor: Recruited students from diverse backgrounds utilizing university resources such as the UMN North Start Alliance. Mentored several undergraduate students in research relating to both M.Sc. and PhD work. All mentees were successful in pursuing the career goals they identified.

Collaborators & Other Affiliations

Evon Hekkala (Forham University)—Corinne Richards-Zawacki (Tulane University)—Lisle Gibbs (Ohio State University)—Matthew Holding (Ohio State University)—Erika Hingst-Zaher (Instituto Butantan, Brazil)—Anna Moura De Silva (Instituto Butantan, Brazil)—Alexandra Rucavado (Instituto Clodomiro Picado, Costa Rica)—Robert Evans (University of Minnesota)—Wendy Gordon (University of Minnesota)

Michael J Blum (Tulane University)— Master's degree advisor

Sharon A Jansa and Antony M Dean—PhD co-advisers