

CURRICULUM VITAE

Danielle H. Drabeck

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EDUCATION

2012-(2018)	University of Minnesota, Twin Cities, MN Advisors: Sharon A. Jansa/ Antony M. Dean	Ph.D. Ecology, Evolution and Behavior- <i>in progress</i>
2009-2010	Tulane University, New Orleans, LA Adviser: Michael J. Blum	M.Sc. Environmental Biology
2004-2008	Tulane University, New Orleans, LA (Transfer from University of Aberdeen, Scotland)	B.S. Environmental Biology and Anthropology

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) *Ingr. 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.

TEACHING EXPERIENCE

2010	EBIO 111: The Diversity of Life lab (Tulane)	Visiting Instructor
2010	EBIO 111: The Diversity of Life lab (Tulane)	Graduate Teaching Assistant
2017	EEB 3409: Evolution lab	Graduate Teaching Assistant

PROFESSIONAL EXPERIENCE

2012-present	Doctoral Dissertation “Characterizing the Molecular and Functional Dynamics of a Coevolutionary Arms Race”	Graduate Researcher, UMN
2012	Pioneer-Hi-bred (Kelly Scientific) – research and greenhouse work on GMO crops.	Research Associate, Kelly Scientific/Pioneer Hi-Bred
2011	Pacific Ecorisk: toxicity testing	Aquatic Toxicologist, Pacific Ecorisk, Susiun, CA
2011	Full time tech, shorebird capture, migration and oil spill research, blood and tissue sampling, banding, morphometrics.	Field Technician, Tulane University
2010	Research on the population level effects of the Deepwater Horizon oil spill on marsh reptiles. (Lab: Dr. Corinne Richards-Zawacki)	Research Associate, Tulane University
2009-2010	M.S. research population genetics work on a marsh grass (<i>Spartina spp</i>) and conservation genetics several species of frog (Lab: Dr. Michael J. Blum)	Graduate Research, Tulane University
2009	Assisted in field design of herbivory experiments in marsh research. (lab: Dr. Michael J. Blum)	Assistant to graduate student research, Tulane University
2006	Fish ecology dissections, ovary/egg enumeration, and parasite identification (lab: Dr. David Heins)	Lab Technician, Tulane University
2005	Wildlife education, visiting instruction with wildlife ages 5-18, (Company owner: Teresa Pollock)	Wildlife Educator/Animal Handler, Los Angeles, CA

FUNDING, HONORS, AND AWARDS

2016	JMIH Student Travel Award (\$600)
2015	Dayton Bell Museum Fellowship Minnesota Herpetological Society Grant in Conservation and Research (\$21,500)
2014	UMN Grant in Aid of Research, co-written with Dr Sharon Jansa and Dr Antony Dean. Awarded a year- long research assistantship as well as research funds to support dissertation work. (\$47,000)
2014	Minnesota Herpetological Society Award for Conservation Research (\$750)
2014	Frederick and Helen Gauge Fund Award, American Society of Ichthyologist and Herpetologists (\$500)
2014	Counsel of Graduate Students Travel Award (\$150)
2014	Ray C. Anderson Zoology and Genetics Fellowship (\$7,000)
2014	American Society of Mammalogists Grant in Aid (\$1,500)
2014	Elmer C. and Marcia F. Birney Fellowship (\$5,843)
2014-2016	University of Minnesota EEB Research Award (\$1,500-2,000)
2014-2016	University of Minnesota EEB Travel Award (\$800-1200)
2014-2016	Dayton Bell Museum Fund Fellowship (\$1,200-1,500)
2013	Rosemary Grant Award, Society for the Study of Evolution (\$2,209)
2013	University of Minnesota EEB Travel Award (\$800-1200)
2013	UMN, College of Biological Sciences Summer Fellowship (\$5,843)
2013	NSF Graduate Research Fellowship Program-Honorable Mention
2007	Saunders-Maridel Scholarship
2004	Presidents Volunteer Service Award

SELECTED SCIENTIFIC PRESENTATIONS

2016	Drabek, DH , Dean AM, and Jansa SA. Convergent evolution of venom targeted nicotinic acetylcholine receptors in mammals that survive venomous snake bites.	JMIH New Orelans, LA., and the ASM Minneapolis, MN
2015	Drabek, DH , Dean AM, and Jansa SA. The Molecular and Functional Characterization of a Coevolutionary Arms Race: South American vipers and Didelphid marsupials	(JMIH), 2015. Reno, NV
2014	Drabek, DH and Jansa SA. (2014) Resistance to Venom-Induced Platelet Aggregation in Didelphid Marsupials: Functional Characterization of a Coevolutionary Arms Race.	Poster given at Evolution 2014. Raleigh, NC.

OUTREACH ACTIVITIES

2016	Saturday with a Scientist – Designed three interactive learning modules, and a public lecture- all ages	Bell Museum of Natural History outreach program
2015	“Natural Toxins: Why We Care and The Honey Badger Don’t.” Public audience lecture.	Café Scientifique, Bell Museum of Natural History. https://itunes.apple.com/itunes-u/cafescientifique/id423802311 ,
2015	North Star STEM Alliance, diversity in science mentor for undergraduate research	University of Minnesota, Twin Cities, MN
2015	“The Power of Toxins” Lecture.	Invited talk at the American Association of University Women (AAUW)
2012-2016	Science fair judge	Anoka-Hennepin District STEM fair
2015	Coevolution, venom, neurotoxin, and hemotoxin interactive learning modules- all ages	Market Science outreach Midtown farmers market, Minneapolis, MN

CURATORIAL EXPERIENCE

2012-2014	Curatorial Assistant, mammal collections	Bell Museum of Natural History
2015-2016	Curatorial Assistant, tissues and genetic resources	Bell Museum of Natural History

PRESS

2016	“The Animals That Venom Can’t Touch” Jason Bittel Smithsonian.com, Sept 30, 2016	Smithsonian Magazine interview
2015	“A biologist explains why the Honey Badger don’t care” Take Two, June 17 2015	NPR interview
2015	“Biology finally explains why Honey Badger don’t care” Megan Cartwrite, Slate Magazine, June 16, 2015	Slate Magazine interview
2015	“Resistance to Snake Venoms in the Honey Badger” Greg Brenning, Bell Museum Imprint Magazine. Spring 2015 Issue.	Bell Museum Imprint Magazine Interview
2011	Bhanoo, S. N. “A frog endangered but extinct no more.” New York Times June 17, 2011. Accessed June 17 2011	Work covered, New York Times
2011	Burdeau, Cain and Seth Borenstein. “Scientists: Gulf Health nearly at pre-spill level.” Associated Press April 18 2011	Field work covered, Associated Press

ACADEMIC SERVICE

2016	American Society of Mammalogy meeting, technology, registration, organization assistant	ASM 2016, Minneapolis, MN
2013-2014	EEB Graduate Student President	University of Minnesota, Twin Cities, MN
2013	EEB graduate student ethics council- organize/lead talks for ethics requirements (Fall 2013)	University of Minnesota, Twin Cities, MN
2012	Counsel of Graduate Students (COGs) EEB department representative	University of Minnesota, Twin Cities, MN

