

Vincent G. Martinson

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ACADEMIC POSITIONS	University of New Mexico , Albuquerque, NM Assistant Professor, Biology Department	2020 –
	University of Georgia , Athens, GA Postdoctoral Research Associate Advisor: Michael R. Strand	2017 – 2019
	University of Rochester , Rochester, NY Postdoctoral Research Associate Advisor: John Jaenike	2013 – 2017
	Yale University , New Haven, CT Postdoctoral Researcher Advisor: Nancy A. Moran	2012
EDUCATION	University of Arizona , Tucson, AZ Ph.D. Entomology and Insect Science Advisor: Nancy A. Moran	2006 – 2012
	Montana State University , Bozeman, MT B.S. Biotechnology: Microbial Systems	2002 – 2005

FINAL PREP

SUBMITTED	Martinson VG & Strand MR. Diet-microbiota interactions alter mosquito development.
IN REVISION	Martinson VG , Gawryluk RMR, Gowen BE, Curtis CI, Jaenike J, Perlman SJ. Multiple origins of obligate nematode and insect symbionts by members of a newly characterized bacterial clade.

PUBLICATIONS	Martinson VG . (2020) Rediscovering a forgotten system of symbiosis: historical perspective and future potential. Genes 11(9), 1063: doi:10.3390/genes11091063. LINK
	Adair KL, Bost A, Bueno E, Kaunisto S, Kortet R, Peters-Schulze G, Martinson VG , Douglas AE. (2020) Host determinants of among-species variation in microbiome composition in drosophilid flies. The ISME Journal 14: 217-229 doi:10.1038/s41396-019-0532-7 LINK
	Valzania L, Martinson VG , Harrison R, Boyd BM, Coon KL, Brown MR, Strand MR. (2018) Both living bacteria and eukaryotes in the mosquito gut promote growth of larvae. PLoS Neglected Tropical Diseases 12(7): e0006638. LINK
	Bost A, Martinson VG , Franzenburg S, Adair KL, Albasi A, Wells MT, Douglas AE. (2018) Functional variation in the gut microbiome of wild <i>Drosophila</i> populations. Molecular Ecology 27:2834-2845. LINK
	Bost A, Franzenburg S, Adair KL, Martinson VG , Loeb G, Douglas AE. (2018) How gut transcriptional function of <i>Drosophila melanogaster</i> varies with the presence and composition of the gut microbiota. Molecular Ecology 27:1848-1859. LINK
	Martinson VG* , Carpinteyro-Ponce J*, Moran NA, Markow TA. (2017) A distinctive and host-restricted gut microbiota in populations of a cactophilic <i>Drosophila</i> species. Applied and Environmental Microbiology 83:e01551-17. LINK

Martinson VG, Douglas AE, Jaenike J (2017) Community structure of the gut microbiota in sympatric species of wild *Drosophila*. **Ecology Letters** 20:629639. [LINK](#)
Cover image selected.

Engel P, Kwong W, McFrederick Q, Anderson KE, Barribeau S, Chandler JA, Cornman S, Dainat J, de Miranda J, Doublet V, Emery O, Evans J, Farinelli L, Flenniken M, Granberg F, Grasis J, Gauthier L, Hayer J, Koch H, Kocher S, **Martinson VG**, Moran NA, Munoz-Torres M, Newton I, Paxton R, Powell JE, Sadd B, Schmid-Hempel P, Schmid-Hempel R, Song SJ, Schwarz R, vanEngelsdorp D, Dainat B (2016) The bee microbiome: impact on bee health and model for evolution and ecology of host-microbe interactions. **mBio** 2:e02164-15. [LINK](#)

Martinson EO*, **Martinson VG***, Edwards R, Mrinalini, Werren JH (2015) Laterally transferred gene recruited as a venom in parasitoid wasps. **Molecular Biology and Evolution** 33:1042-1052. [LINK](#)

Powell JE, **Martinson VG**, Urban-Mead K, Moran NA (2014) Routes of acquisition of the gut microbiota of *Apis mellifera*. **Applied and Environmental Microbiology** 80:7378-7387. [LINK](#)
Cover image selected. A "Spotlight" of the issue.

Martinson VG, Magoc T, Koch H, Salzberg SL, Moran NA (2014) Genomic features of a bumble bee symbiont reflect its host environment. **Applied and Environmental Microbiology** 80:3793-3803. [LINK](#)
Cover image selected. Commented on in Langridge G (2014) Buzz off, that's my bee. Nature Reviews Microbiology 12:659.

Andrew DR, Fitak R, Munguia-Vega A, Racolta A, **Martinson VG**, Dontsova K (2012) Abiotic factors shape microbial diversity in Sonoran Desert soils. **Applied and Environmental Microbiology** 78:7527-7537. [LINK](#)

Engel P, **Martinson VG**, Moran NA (2012) Functional diversity within the simple gut microbiota of the honey bee. **Proceedings of the National Academy of Sciences** 27:11002-11007. [LINK](#)

Martinson VG, Moy J, Moran NA (2012) Establishment of characteristic gut bacteria during development of the honeybee worker. **Applied and Environmental Microbiology** 78:2830-2840. [LINK](#)
Cover image selected.

Martinson VG, Minckley R, Danforth B, Rueppell O, Tingek S, Moran NA (2011) A simple and distinct microbiota associated with honey bees and bumble bees. **Molecular Ecology** 20:619-628. [LINK](#)
Cover image selected. Comment in the issue – Kaltenpoth M. Honeybees and bumblebees share similar bacterial symbionts. 20:439-440.

Cox-Foster DL, Conlan S, Holmes EC, Palacios G, Evans JD, Moran NA, Quan P, Briese T, Hornig M, Geiser DM, **Martinson V**, vanEngelsdorp D, Kalkstein AL, Drysdale A, Hui J, Zhai J, Cui L, Hutchison SK, Simons JF, Egholm M, Pettis JS, Lipkin WI (2007) A metagenomic survey of microbes in honey bee colony collapse disorder. **Science** 318:283-287. [LINK](#)

GRANTS, AWARDS, & FELLOWSHIPS	UNM COBRE- Center for Emerging Model Organisms	Pending
	Top Postdoc poster presentation. Genetics Day, University of Rochester, \$100	2016
	Research Award. Center for Insect Science, University of Arizona, \$2,500	2010
	NSF-IGERT Comparative Genomics Fellowship, University of Arizona, \$15,000	2010
	NSF-IGERT Evolutionary, Functional, and Computational Genomics Fellowship University of Arizona, \$91,000	2006 – 2009
	Undergraduates Scholars Program Research Grant, Montana State University	2005

TALKS
Martinson VG UNM Research Day: Where scientific inspiration comes from. April 2020. **(Cancelled)**
Martinson VG Microbial ecology and functional host-microbe relationships within the insect gut.
 Department of Microbiology, North Dakota State University. April 2019. **(Invited)**
Martinson VG Microbial ecology and functional host-microbe relationships within the insect gut.

Department of Biology, University of New Mexico. April 2019. **(Invited)**

Martinson VG Microbial ecology and functional host-microbe relationships within the insect gut. Department of Entomology, University of Georgia. February 2019. **(Invited)**

Martinson VG, Strand MR Microbiota composition alters mosquito development. Entomological Society of America Annual Meeting. November 2018. **(Invited)**

Martinson VG, Perlman SJ, Jaenike J A tangled web within a *Drosophila*-nematode parasitism. Entomological Society of America Annual Meeting. November 2017. **(Invited)**

Martinson VG Microbiomes of the insect gut. Department of Biological Sciences, Auburn University. February 2017. **(Invited)**

Martinson VG, Douglas AE, Jaenike J Assembly of the gut microbiome in distantly related wild *Drosophila* species. International Congress of Entomology. September 2016. (Contributed Talk)

Martinson VG Microbial communities of the insect gut: structure, transmission, and function. Department of Biological Sciences, Texas Tech University. April 2016. **(Invited)**

Martinson VG Microbial communities of the insect gut: structure, transmission, and function. Department of Integrative Biology, University of South Florida. January 2016. **(Invited)**

Martinson VG Discussion leader for Symbiosis & Interacting Species. Ecological and Evolutionary Genomics - Gordon Research Conference. July 2015. **(Invited)**

Martinson VG, Jaenike J Individual variation in the gut microbiome of wild mushroom-feeding *Drosophila*. Evolution Meeting. June 2014. (Contributed Talk)

Martinson VG, Minckley R, Danforth B, Rueppell O, Tingek S, Moran NA The bacterial microbiota of the honeybee (*Apis mellifera*) and other bee species. From Single Cells to the Environment - Gordon Research Conference. July 2009. (Poster)

Martinson VG, Moran NA, Evans JD Bacterial associates of collapsing and thriving bees, a universal retinue? Entomological Society of America Annual Meeting. Dec. 2007. **(Invited)**

PROFESSIONAL	Invited participant of the BeeBiom-Omic meeting. NESCent, Durham, NC	2014
DEVELOPMENT	Pedagogy Workshop: Dr. Ed Prather. University of Arizona	2012
	Bee Course: Taxonomy of North American bees.	2008
	American Museum of Natural History Southwestern Research Station, Portal, AZ	
	Research volunteer: Beetle Tree of Life Project: Beetle Quest. Montana State University	2006
	Advisor: Michael Ivie.	
	Research assistant: <i>Effects of Space on Streptomyces lividans genome</i> . Montana State University	2005 – 2006
	Advisor: Barry Pyle.	
	Research volunteer: Insect Biodiversity of Montserrat. Montana State University	2005
	Advisor: Michael Ivie.	

TEACHING	University of New Mexico	
EXPERIENCE	Microbiology 351	Spring 2021
	Microbiomes – New Course	Fall 2020

	University of Rochester	
	Course Co-Instructor, <i>Biology 580 Microbes, Microbiomes, and Disease</i> .	Spring 2017
	Guest lecture, <i>Biology 261W Genetic Research – Microbial Diversity</i> .	Spring 2015
	Course Co-Instructor, <i>Biology 580 Journal club in Ecology & Evolution</i> .	Fall 2014
	Guest lecture, <i>Biology 580 Journal club in Ecology & Evolution – Microbiome</i> .	Spring 2014

	University of Arizona	
	Graduate teaching assistant, <i>TRAD104 Human-animal interactions</i> .	Fall 2010
	Graduate teaching assistant, <i>ECOL302 Ecology</i> .	Fall 2009

UNDERGRADUATES SUPERVISED

	Jillian Dunbar (University of Georgia, REU Population Biology of Infectious Disease)	2019
	Gouri Mahadwa, Katie Mead (University of Rochester)	2015
	Gouri Mahadwa, Alexandra Dwulit, Clayton Brooks, Neslihan Ari (University of Rochester)	2014
	Katherine Urban-Mead, independent study (Yale University)	2012
	Jamie Moy, independent study (University of Arizona)	2009 – 2010
	Emily Beckwith (Tucson High Magnet School)	2008 – 2009

SERVICE ACTIVITIES	<p>GRADUATE STUDENT COMMITTEES</p> <p>Amir Mani, 1st year student Irene Salinas Lab, Microbiome & Blood-Brain Barrier in <i>Oncorhynchus mykiss</i> (Rainbow trout). Committee meeting 4/16/20.</p> <p>David Michael Robinson, 1st year student Tina Vesbach Lab, Characterization of Polar Lake Viruses to Understand Ecological Role and Function. Committee meeting 8/26/20.</p> <p>Praveen Paudel, UNM Biology Masters plan II. Committee meeting 8/27/20.</p> <p>UNM BIOLOGY COMMITTEES</p> <p>Research Day Committee (Cancelled) 2020</p> <p>COMMUNITY OUTREACH</p> <p>Volunteer presenter at Insectival, State Botanical Garden of Georgia 2018</p> <p>Biology Department Community Outreach. Campus visit & laboratory experiment for high school seniors from the World of Inquiry School 58. 2015, 2016</p> <p>Presentation to Rochester NY Beekeepers. Honeybee exclusive bacteria. 2013</p> <p>Insect Night for K-12. Tucson, AZ. 2011</p> <p>Co-Instructor, Blacklighting for insects with high school students. Tucson, AZ. 2008</p> <p>JOURNALS REVIEWED FOR</p> <p>Proceedings of the National Academy of Sciences USA, Ecology Letters, Nature Communications, The ISME Journal, Molecular Ecology, Journal of Animal Ecology, Environmental Microbiology, Genome Biology and Evolution, Microbial Ecology, Applied and Environmental Microbiology, PLoS ONE, Clinical Microbiology Reviews, FEMS Microbial Ecology, Frontiers in Microbiology, BMC Microbiology, Journal of Mammalogy, PeerJ, Scientific Reports, Biology Letters, Current Opinion in Microbiology, Microbial Biotechnology</p> <p>GRANTS REVIEWED FOR</p> <p>USDA National Institute of Food and Agriculture 2015</p> <p>NSF Division of Environmental Biology 2017</p>
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