

DANIELA VERGARA, Ph.D.

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EDUCATION

2007-2013	Ph.D. Major: Ecology, Evolution, Behavior - Minor: Genetics Indiana University Bloomington Advisor: Curtis M. Lively
2000 -2006	Microbiologist Universidad de los Andes Bogotá, Colombia

WORK EXPERIENCE

Present	President Agricultural Genomics Foundation
Present	Postdoctoral Research Associate University of Colorado Boulder
2012-2013	Assistant Instructor Indiana University
2011 – 2012	Research Assistant Indiana University
2007 – 2010	Assistant Instructor Indiana University
2006 – 2007	Associate Investigator Programa de Estudio y Control de Enfermedades Tropicales - PECET Universidad de Antioquia, Medellín Colombia
2005 Second Semester	Intern Programa de Estudio y Control de Enfermedades Tropicales PECET Universidad de Antioquia, Medellín Colombia
2005 First Semester	Research assistant at CIMPAT Laboratory, Universidad de los Andes, Bogotá, Colombia.
2003 Summer	Intern Molecular and pathogenesis laboratory Universidad del Valle, Cali Colombia.

TEACHING EXPERIENCE

Summer Semester 2013	Assistant Instructor Biology of Birds (L-376) Indiana University, Bloomington, USA
Spring Semester 2013	Assistant Instructor Biology of Birds (L-376) Indiana University, Bloomington, USA
Fall Semester 2010	Assistant Instructor Honors Evolution (S-318) Indiana University, Bloomington, USA
Spring Semester 2010	Assistant Instructor Biology of Birds (L-376) Indiana University, Bloomington, USA
Fall Semester 2009	Assistant Instructor Fungi Lab (B-352) Indiana University, Bloomington, USA
Fall Semester 2008	Assistant Instructor Biology Lab (L-113) Indiana University, Bloomington, USA
Spring Semester 2008	Assistant Instructor Biology Lab (L-113) Indiana University, Bloomington, USA
Fall Semester 2007	Assistant Instructor Evolution and Diversity (L-111) Indiana University, Bloomington, USA

2005 First Semester	Teacher's assistant in Cellular Biology Universidad de los Andes Bogotá, Colombia
2002 Second Semester	Teacher's assistant in Cellular and Organism Biology Lab Universidad de los Andes Bogotá, Colombia

GRANTS AND SCHOLARSHIPS

- 2009 Senior Research Grant Indiana Academy of Science
- 2010 Louise Constable Hoover Fellowship, Indiana University
- 2010 Committee for Research and Exploration Grant, The National Geographic Society
- 2011 Doctoral Dissertation Improvement Grant, National Science Foundation
- 2013 Louise Constable Hoover Fellowship, Indiana University
- 2015 AAAS Mass Media Science & Engineering Fellowship (Declined)

PUBLICATIONS

- Vergara D**, Fuentes J.A, Mitman K.S, Lively C. Partitioning morphological variation across different populations in the Freshwater Snail *Potamopyrgus antipodarum*. In preparation
- Vergara D**, White K.H, Keepers K.G, Kane N.C. 2015. The complete chloroplast genomes of *Cannabis sativa* and *Humulus lupulus*. *Mitochondrial DNA*. 2:1-2
- Vergara D**, Jokela J, Lively C. 2014. Infection dynamics in coexisting sexual and asexual populations support the Red Queen Hypothesis. *The American Naturalist* 184:S1
- Soper D.M, King K.C, **Vergara D**, Lively C. 2014. Exposure to parasites increases promiscuity in a freshwater snail. *Biology Letters* 10:4
- Vergara D**, King K.C, Lively C, Jokela J. 2013. The fine-scale geographic mosaic of sex and infection in New Zealand lakes. *The American Naturalist* 182:4
- Acosta L.A, Mondragon-Shem K, **Vergara D**, Velez-Mira A, Cadena H, Carrillo L.M. 2013 Ampliación de la distribución de *Lutzomyia longipalpis* en Colombia. Aumento del riesgo de la leishmaniosis visceral. (Distribution expansion of *Lutzomyia longipalpis* in Colombia. Increase in risk of visceral leishmaniosis.) *Biomédica* 33:2, 319-325
- Koskella B, **Vergara D**, Lively C. 2011. Experimental evolution of sexual host populations in response to sterilizing parasites. *Evolutionary Ecology Research*, 13:315-322.
- Vergara D**, Velasquez L.E. 2009. Larvas de Digenea en *Melanoides tuberculata* (Gastropoda: Thiariidae) en Medellín, Colombia. (Larval Stages of Digenea From *Melanoides tuberculata* (Gastropoda: Thiariidae) in Medellín, Colombia) *Acta Biologica Colombiana*. 14:1, 135-142.
- Vergara D**, Bejarano E.E, Velez I.D. 2008. Anomalías Morfológicas en Diferentes Estructuras de Cinco Especies de *Lutzomyia* (Diptera: Psychodidae). (Morphological Annomalies in Different Structures of Five *Lutzomyia* Species (Diptera: Psychodidae)) *Revista de la Sociedad Entomológica Argentina (RSEA)*, 67:3-4, 87-92.
- Vergara D**, Bejarano E.E., Carrillo L.M., Velez I.D. 2008. Primer Informe de *Lutzomyia yuilli* (Young & Porter 1972) y *Lutzomyia triramula* (Fairchild & Hertig 1952) (Diptera: Psychodidae) en el Departamento de Caldas, Colombia. (First Report of *Lutzomyia yuilli* (Young & Porter 1972) and *Lutzomyia triramula* (Fairchild & Hertig 1952) (Diptera: Psychodidae) in the Department Caldas, Colombia). *Biota Neotropica*, 8:3,251-253
- Vergara D**, Bejarano E.E., Carrillo L.M., Sierra D., Velez I.D. 2008. Primer Registro de *Lutzomyia scorzai* y *Lutzomyia reburra* (Diptera: Psychodidae) en Antioquia, Colombia. (First Report of *Lutzomyia scorzai* and *Lutzomyia reburra* (Diptera: Psychodidae) in Antioquia, Colombia). *Revista Colombiana de Entomología*, 34:1,102-104
- Guhl F, Aguilera G, Pinto N, **Vergara D**. 2007. Actualización de la Distribucion Geográfica y

Ecoepidemiología de la Fauna de Triatominos (Reduviidae: Triatominae) en Colombia.
(Geographic Distribution and Ecoepidemiological Actualization of the Triatomine
(Reduviidae: Triatominae) Fauna in Colombia). *Biomédica*, 1, 143-162

OTHER GENOMIC RESOURCES

Cannabis sativa cultivar Carmagnola annotated chloroplast. NCBI Accession KP274871
Cannabis sativa cultivar Carmagnola annotated mitochondrion. NCBI Accession KR059940
Cannabis sativa cultivar Dagestani annotated chloroplast. NCBI Accession KR779995
Humulus lupulus cultivar Saaze annotated mitochondrion. NCBI Accession KT266264

SCIENTIFIC CONFERENCES AND PUBLIC TALKS

- 2009 Presenter: IGERT Symposium: Evolution, Development and Genomics, Indiana University, Bloomington.
- 2010 Presenter: Evolution Meeting. Portland, Oregon.
- 2011 Presenter: School Colegio Bolivar. Cali, Colombia
- 2011 Presenter: Evolution Meeting. Norman, Oklahoma
- 2012 Presenter: Ecology and Evolution of Infectious Diseases. Ann Arbor, Michigan
- 2012 Presenter: Evolution Meeting. Ottawa, Canada
- 2012 Presenter: Brown Bag Seminar. Indiana University, Bloomington
- 2012 Guest Speaker: Statistical Consulting (S690). Indiana University, Bloomington
- 2013 Guest Speaker: EAWAG- Aquatic Research Institute. Zurich, Switzerland
- 2013 Presenter: Evolution Meeting. Snowbird, Utah.
- 2014 Guest Speaker: Developing a Marketing Strategy for MBA students. University of Colorado, Anschutz medical Campus
- 2014 Guest Speaker: Cannabis Grand Cru. Aspen, Colorado.
- 2014 Guest Speaker: Cannabis Industry Meet-up. Boulder, Colorado
- 2015 Guest Speaker: Women Grow. Boulder, Colorado
- 2015 Guest Speaker: Women of Weed. Denver, Colorado
- 2015 Guest Speaker: Cannabis Symposia. University of Colorado, Boulder.
- 2015 Guest Speaker: Department of Biological Sciences Seminar Series. University of Denver. Denver, Colorado.
- 2015 Guest Speaker: Denver Museum of Nature and Science. Denver, Colorado

MENTORSHIP AND VOLUNTEER WORK

- 2009-2010 Research Mentor
Mentored two undergraduate students on PCR and microsatellite analysis
- 2012 Research Mentor
Mentored an undergraduate student on Flow Cytometry and Geometric Morphometrics analysis.
- 2012 Volunteer
Middle Way House- Domestic Violence & Rape Crisis Shelter
- 2013 Volunteer
Ethnic Diversity Panel, Communication in the classroom (G203)
- 2013 Research Mentor
Mentored two undergraduate students in the Lively laboratory on Flow Cytometry
- 2013-2014 Volunteer
Denver Museum of Nature and Science

Present Research Mentor
Mentoring two undergraduate students in PCR amplification technique.
Mentoring an undergraduate student on Geometric Morphometrics analysis.
Mentoring three undergraduate students in scientific writing.

OTHER PROFESSIONAL ACTIVITIES

President and Founder:

Agricultural Genomics Foundation (www.agriculturalgenomics.org)

Non-profit organization that educates about *Cannabis* science and makes genomic tools available to farmers, scientists and interested users.

Reviewer For:

- Molecular Ecology
- Biological Journal of the Linnean Society
- National Science Foundation Division of Environmental Biology

Memberships:

- Society for the Study of Evolution (SSE)
- American Association of University Women (AAUW)
- Asociación Colombiana de Parasitología y Medicina Tropical (Colombian Association of Parasitology and Tropical Medicine)
- Red Colombiana de Biología Evolutiva- COLEVOL (Colombian Network for Evolutionary Biology)

PUBLIC OUTREACH

2013-Present Writing for a general audience in Spanish about evolution at
www.acienciaabierta.wordpress.com

2014-Present Writing for a general audience about *Cannabis* science at
www.cannabisgenomics.org/blog

POPULAR PRESS COVERAGE

- February 2014 Daily Camera “CU-Boulder prof pursues deepest-ever exploration of the cannabis genome”
- March 2014 The Rocky Mountain Collegian “Understudied cannabis research to increase”
- March 2014 Culture “Knowledge is Power: Say Hello to the Cannabis Genome Project”
- May 2014 Iowa Now “Researchers test whether Red Queen hypothesis makes species resilient”
- May 2014 Science Daily “Red queen hypothesis: Does exposure to parasites makes species resilient?”
- November 2014 Whaxy “What I learned about the industry at the Cannabis Grand Cru”
- February 2015 Fusion “How genetics is changing the marijuana industry”
- June 2015 Fortune “High times: Behind the scenes at a women's pot conference”