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## Research outputs

### **Quantifying the Aerodynamic Power Required for Flight and Testing for Adaptive Wind Drift in Passion-Vine Butterflies *Heliconius sara* (Lepidoptera: Nymphalidae)**

Srygley, R. B., Dudley, R., Hernandez, E. J., Kainz, F., Riveros, A. J. & Ellington, C. P., Feb 2023, In: *Insects*. 14, 2, 112.

### **Temporal configuration and modality of components determine the performance of bumble bees during the learning of a multimodal signal**

Riveros, A. J., Jan 2023, In: *Journal of Experimental Biology*. 226, 1, jeb245233.

### **Sublethal doses of glyphosate impair olfactory memory retention, but not learning in the honey bee (*Apis mellifera* *scutellata*)**

Hernández, J., Riveros, A. J. & Amaya-Márquez, M., Aug 2021, In: *Journal of Insect Conservation*. 25, 4, p. 683-694 12 p.

### **Stimulus-dependent learning and memory in the neotropical ant *Ectatomma ruidum***

Riveros, A. J., Entler, B. V. & Seid, M. A., May 1 2021, In: *Journal of Experimental Biology*. 224, 9

### **Learning of bimodal versus unimodal signals in restrained bumble bees**

Riveros, A. J., Leonard, A. S., Gronenberg, W. & Papaj, D. R., May 2020, In: *Journal of Experimental Biology*. 223, 10, p. 1-9 9 p., jeb220103.

### **Magnetic Compasses in Insects**

Riveros, A. J. & Srygley, R. B., Jan 1 2019, *Encyclopedia of Animal Behavior, Second Edition: Volume 1-5*. Elsevier, Vol. 3 . p. V3-588-V3-597

### **Magnetic anisotropy and organization of nanoparticles in heads and antennae of neotropical leaf-cutter ants, *Atta colombica***

Alves, O. C., Srygley, R. B., Riveros, A. J., Barbosa, M. A., Esquivel, D. M. S. & Wajnberg, E., Oct 29 2014, In: *Journal of Physics D: Applied Physics*. 47, 43, 435401.

### **Color-dependent learning in restrained Africanized honey bees**

Jernigan, C. M., Roubik, D. W., Wcislo, W. T. & Riveros, A. J., Feb 2014, In: *Journal of Experimental Biology*. 217, 3, p. 337-343 7 p.

### **Do leaf-cutter ants *Atta colombica* obtain their magnetic sensors from soil?**

Riveros, A. J., Esquivel, D. M. S., Wajnberg, E. & Srygley, R. B., Jan 2014, In: *Behavioral Ecology and Sociobiology*. 68, 1 , p. 55-62 8 p.

### **El Niño, Host Plant Growth, and Migratory Butterfly Abundance in a Changing Climate**

Srygley, R. B., Dudley, R., Oliveira, E. G. & Riveros, A. J., Jan 2014, In: *Biotropica*. 46, 1, p. 90-97 8 p.

### **Intoxicación por superwarfarinas**

Riveros Rivera, A. J., Aug 13 2013, *Tecnología en urgencias: Guía práctica*. 1 ed. Editorial Médica Celsus, p. 363 - 370

### **Decision-making and associative color learning in harnessed bumblebees (*Bombus impatiens*)**

Riveros, A. J. & Gronenberg, W., Nov 2012, In: *Animal Cognition*. 15, 6, p. 1183-1193 11 p.

### **Evolution of brain size in class-based societies of fungus-growing ants (*Attini*)**

Riveros, A. J., Seid, M. A. & Wcislo, W. T., Apr 2012, In: *Animal Behaviour*. 83, 4, p. 1043-1049 7 p.

Metabolic scaling in insects supports the predictions of the WBE model  
Riveros, A. J. & Enquist, B. J., Jun 2011, In: *Journal of Insect Physiology*. 57, 6, p. 688-693 6 p.

Brain allometry and neural plasticity in the bumblebee *bombus occidentalis*  
Riveros, A. J. & Gronenberg, W., Jun 2010, In: *Brain, Behavior and Evolution*. 75, 2, p. 138-148 11 p.

Sensory allometry, foraging task specialization and resource exploitation in honeybees  
Riveros, A. J. & Gronenberg, W., May 2010, In: *Behavioral Ecology and Sociobiology*. 64, 6, p. 955-966 12 p.

El Niño and dry season rainfall influence hostplant phenology and an annual butterfly migration from Neotropical wet to dry forests  
Srygley, R. B., Dudley, R., Oliveira, E. G., Aizprúa, R., Pelaez, N. Z. & Riveros, A. J., Mar 2010, In: *Global Change Biology*. 16, 3, p. 936-945 10 p.

### **Ambientes conductuales y plasticidad cerebral: de la vida solitaria a la social**

Riveros Rivera, A. J., 2010, *Bases Biológicas Del Comportamiento Animal Y Humano*. Bogotá: Universidad Nacional de Colombia

### **Migration, Orientation and Navigation: Magnetic Compasses in Insects**

Riveros Rivera, A. J. & Srygley, R. B., 2010, *Encyclopedia of Animal Behavior*. Elsevier Ltd, p. 305-313 8 p. (Book Chapter).

Olfactory learning and memory in the bumblebee *Bombus occidentalis*  
Riveros, A. J. & Gronenberg, W., Jul 2009, In: *Naturwissenschaften*. 96, 7, p. 851-856 6 p.

### **Magnetic Compasses in Insects**

Riveros, A. J. & Srygley, R. B., Jan 1 2009, *Encyclopedia of Animal Behavior*. Elsevier Inc., p. 305-313 9 p.

### **Body size and the neural, cognitive and sensory basis of sociality in bees**

Riveros Rivera, A. J., 2009, 118 p.

### **Learning from learning and memory in bumblebees**

Riveros, A. J. & Gronenberg, W., 2009, In: *Communicative and Integrative Biology*. 2, 5, p. 437-440 4 p.

### **Nesting biology of *Euglossa dodsoni* Moure (Hymenoptera: Euglossinae) in Panama**

Riveros, A. J., Hernández, E. J. & Wcislo, W. T., 2009, In: *Journal of the Kansas Entomological Society*. 82, 2, p. 210-214 5 p.

### **Social brains and behavior: past and present**

Riveros Rivera, A. J. & Gronenberg, W., 2009, *Organization of Insect Societies: From Genome to Sociocomplexity*. Cambridge: Harvard University, p. 377-401 24 p. (Organization of insect societies: from genome to sociocomplexity).

### **Do leafcutter ants, *Atta colombica*, orient their path-integrated home vector with a magnetic compass?**

Riveros, A. J. & Srygley, R. B., Apr 2008, In: *Animal Behaviour*. 75, 4, p. 1273-1281 9 p.

### **On Lilliputians and Brobdignagians: From Bacteria to Blue Whales**

Riveros Rivera, A. J., 2007, *Trends in Ecology and Evolution*.

### **Experimental evidence for a magnetic sense in Neotropical migrating butterflies (Lepidoptera: Pieridae)**

Srygley, R. B., Dudley, R., Oliveira, E. G. & Riveros, A. J., Jan 2006, In: *Animal Behaviour*. 71, 1, p. 183-191 9 p.

**Behavioral maturation and learning in the bumblebee *Bombus occidentalis* (Hymenoptera: Apidae)**

Riveros Rivera, A. J. & Gronenberg, W., 2006.

**Morphological constraints and nectar robbing in three Andean bumble bee species (Hymenoptera, Apidae, Bombini)**

Riveros Rivera, A. J., Hernandez, E. J. & Nates-Parra, G., 2006, In: *Caldasia*. p. 111-114 4 p.

**Activities**

**Projects**

**Food security and pollinator crisis**

Riveros Rivera, A. J. & Pardo Diaz, G. C.

8/1/18 → 8/1/23