

CURRICULUM VITAE

Division of Biological Sciences, University of Missouri
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RESEARCH INTERESTS

Sexual selection, cryptic female choice, sperm competition, sperm precedence, sexual conflict.

EDUCATION

The University of Missouri – Columbia, MO (in progress)

Ph.D. program in Biological Sciences
Attendance: from August 2007 to present
Advisors: Dr. Rex Cocroft and Dr. Carl Gerhardt

The University of Texas at Austin, Austin, TX

Graduate Program in Ecology, Evolution and Behavior
Attendance: from August 2005 to May 2007
Advisor: Dr. Michael J. Ryan

Universidade Federal de Minas Gerais, Belo Horizonte, Brazil

B.S. in Biological Sciences and Vertebrate Zoology
Attendance: from February 2001 to June 2005

RESEARCH EXPERIENCE

Smithsonian Tropical Research Institute and The University of Texas at Austin (2006-2007)

Supervisors: Dr. Michael J. Ryan, Dr. William Eberhard
Project: Postcopulatory sexual selection in *Merosargus cingulatus*

The University of Texas at Austin (2006)

Supervisor: Dr. Michael J. Ryan
Project: Effects of social context on female responses to male advertisement calls in tungara frogs (*Physalaemus pustulosus*)

Smithsonian Tropical Research Institute and The University of Texas at Austin (2005)

Supervisors: Dr. Michael J. Ryan, Dr. A. Stanley Rand
Project: Female Choice Experiments with Túngara Frogs

Laboratory of Insect Ecology and Behavior

Section of Ecology, Universidade Federal de Minas Gerais (2005)

Supervisors: Julio Cesar Fontenelle, Dr. Elida Rabelo, Dr. Rogerio Parentoni.
Project: Study of last male sperm precedence in *Merosargus azureos* and *Merosargus gowdeyi* (Diptera: Stratiomyidae) using Random Amplified Polymorphic DNA profiles.

Laboratory of Cell, Molecular and Developmental Biology

Section of Integrative Biology, University of Texas at Austin (2003)

Supervisors: Raymond Engezer, Dr. David Parichy
Project: Perceptual mapping of the zebra fish (*Danio rerio*).

Laboratory of Molecular Biology and Parasitology

Department of Parasitology, Universidade Federal de Minas Gerais (2001-2003)

Supervisor: Dr. Elida Mara Leite Rabelo
Project: Use of molecular biology techniques for functional study of genes using the parasite *Schistosoma mansoni* as a model.

Laboratory of Nutrition and Gnotobiology

Department of Biochemistry, Universidade Federal de Minas Gerais (2001)

Supervisor: Helton Santiago
Project: The effects of oxygen radicals and nitric oxide in the killing of the parasite *Leishmania major* by macrophages.

TEACHING EXPERIENCE

Fall 2006, The University of Texas at Austin: Teaching Assistant for BIO 325 – Genetics
Spring 2007, The University of Texas at Austin: Teaching Assistant for BIO 311D – introductory Biology

PUBLICATIONS

F. A. Barbosa 2005. "Precedência espermática do último macho em *Merosargus azureus* e *Merosargus gowdeyi* (Diptera: Stratiomyidae) analisada através de perfis de Amplificação Aleatória de DNA Polimórfico (RAPD)" [Last male sperm precedence in *Merosargus azureus* and *Merosargus gowdeyi* (Diptera: Stratiomyidae) through Random Amplified Polymorphic DNA (RAPD) profiles]. Undergraduate Thesis. Universidade Federal de Minas Gerais, Belo Horizonte, Brazil.

Santiago, H. C., Santos, L.A.V.D.R., Barbosa, F.A., Saraiva, L, VIEIRA, L.Q. Production of oxygen reactive species by macrophages infected with *Leishmania (L.) major*. " **Revista do Instituto de Medicina Tropical de São Paulo**. São Paulo: Instituto de Medicina Tropical de São Paulo, 2003. v.45. p.153 – 153

HONORS AND AWARDS

- Pre-emptive fellowship, University of Texas at Austin - 2005
- Research award from The Dorothea Bennett Memorial Graduate Research Fund, University of Texas at Austin – 2006
- Organization for Tropical Studies student research fellowship from the Lillian and Murray Slatkin Fund – 2007
- Smithsonian Tropical Research Institute Short-term fellowship - 2007
- Animal Behavior Society Student Research Fellowship – 2007
- Williston Diptera Research Fund - 2008

PRESENTATIONS AT SCIENTIFIC MEETINGS

Barbosa, F.A. "Copulatory courtship, sperm precedence and postcopulatory sexual selection in *Merosargus* (Diptera: Stratiomyidae)". **2007 Meeting of the International Society of Invertebrate Reproduction and Development (ICIRD)**, Panama City.

Reichert, M. S., Barbosa, F. A. and Ryan, M. J. "Effects of social context on female responses to male advertisement calls in tungara frogs (*Physalaemus pustulosus*)." **Animal Behavior Society 2006**, Snowbird, Utah.

Barbosa, F. A., Fontenelle, J. C. R. and Martins, R. P. "Mating Behavior of Soldier Flies *Merosargus* sp. (Diptera: Stratiomyidae)." **London International Youth Science Forum 2004**, London, UK.

Fontenelle, J. C. R., Barbosa, F. A., Cezar, L. A., Martins, R. P. "Tamanho corporal e desenvolvimento de *Merosargus* (Diptera: Stratiomyidae) em pseudocaulos de *Heliconia episcopalis* e *Heliconia spathocircinata* (Heliconiaceae) no Parque Estadual do Rio Doce." **XX Congresso Brasileiro de Entomologia**, Gramado, Brazil, 2004.

Viana, F. E., Souza, E. R., Queiroz, N. L., Barbosa, F.A., Fontenelle, J. C. R. Entomofauna associada a *Heliconia episcopalis* Vell. e *Heliconia rostrata* Ruiz & Pav. (Heliconiaceae) na Fundação João Pinheiro, Belo Horizonte." **XX Congresso Brasileiro de Entomologia**, Gramado, Brazil, 2004.

Santiago, H. C., Santos, L.A.V.D.R., Barbosa, F.A., Saraiva, L, VIEIRA, L.Q. Production of oxygen reactive species by macrophages infected with *Leishmania (L.) major*. " **XXX Annual Meeting on basic Research in Chagas Disease and XIX Meeting of the Brazilian Society of Protozoology**, 2003, Caxambu, Brazil.

Barbosa, F.A., Ferreira, M.R.P., Deus, L.F., Rabelo, E.M.L. "Comparação de expressão gênica em duas cepas de *Schistosoma mansoni* isoladas geograficamente." **X Semana de Iniciação Científica da UFMG**, Belo Horizonte, Brazil, 2002.

Freitas, A. V., Machado, C.R., Silva, C.G.R., Barbosa, F.A. Rabelo, E.M.L. "Estudo de complementação fenotípica em levedura utilizando o gene DIM1P do *Schistosoma mansoni*." **X Semana de Iniciação Científica da UFMG**, Belo Horizonte, Brazil, 2002.