Projeto de Pesquisa Registrado – Informações Gerais

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2. Título do projeto: CHEMICAL ECOLOGY AND EMERGING PATHOGENS OF HONEYBEES AND ANTS IN BRAZIL

3. Código: 1029, processo 23007.016705/2014-98

4. Data de aprovação: 16/10/2014

5. Área de Conhecimento: CCAAB - Área 2: Biodiversidade

6. Resumo: The proposed projects will combine two distinct but connected fields of research (honeybee diseases and chemical ecology). The proposal involves a mix of applied and pure aspects of biological research. It employs a wide variety of methods from field work and lab bioassays right up to advance analytical methods such using next generation 'genome' sequencing and Gas Chromatography- Mass spectrometry (GC-MS). The project aims to understand the mechanism of Varroa mite tolerance in Brazilian honeybees, measuring the impact of deformed wing virus (DWV) on the Brazilian honeybees and associated native insect fauna, and study the chemical recognition systems within of a complex community of ants in Brazil using the latest analytical methods. Cutting edge research in these two emerging fields of chemical ecology and honeybee viral research, using inter-disciplinary research programs that are cutting across traditional boundaries, and using two research teams studying similar systems but in different countries (UK and Brazil). This field of biology has yet to be developed by Brazilian scientists, so this would be a first. This will open a large number of new research ideas and endless possibilities since if you can understand insect recognition systems, and how pathogens emerge it can be used to explain many observed behaviours and biological patterns that can be exploited by many areas of science both applied (e.g. conservation and pest control) and pure fields (evolution of social systems and communities).

7. Prazo de execução

7.1. Início: 01/08/2014 **7.2. Término:** 01/08/2017

8. Equipe executora

8.1. Colaboradores

Colaborador (a)	Instituição/ Grupo de Pesquisa
PhD. Cândida Maria Lima Aguiar de Mendonça	Universidade Estadual de Feira de Santana
PhD. Gilberto Marcos de Mendonça Santos	Universidade Estadual de Feira de Santana
PhD. Edilson Divino Araújo	Universidade Federal de Sergipe
PhD. Kátia Perez Gramacho	Universidade Tiradentes
Biol. Laura Brettel	University of Salford
PhD. Maria Emilene Correia de Oliveira	Scholarship holder of the Science without Borders/CAPES/Univ
PhD. Sibele de Oliveira Tozetto Klein	UFRB
PhD. Cândida Maria Lima Aguiar de Mendonça	Universidade Estadual de Feira de Santana

8.2. Discentes

Discente	Curso
MSc. Emanuella Lopes Franco	Doutorado em Ciências Agrárias - UFRB
BSc. Cândida Beatriz da Silva Lima	Mestrado em Ciências Agrárias - UFRB
Eliaber Barros Santos	Graduação CCAAB
Jéssica Rosa da Silva	Graduação CCAAB

9. Agência Financiadora: CAPES

10. Modalidade de financiamento: BOLSA,AUXILIO A PESQUISA

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