



Ravikumar Gopalapillai, Ph.D.

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Postdoctoral Fellow (1998-2005). National Institute of Agrobiological Sciences (NIAS), Tsukuba, Japan.

Ph.D. Studentship (1990). European Society of Comparative Endocrinology (ESCE), Belgium.

Fellowships from BHU and Council of Scientific and Industrial Research (CSIR) 1987-1992.

Patent Pending

G. Ravikumar and S. Raje Urs, 2008: Development of multiplex polymerase chain reaction for the detection of Nuclear Polyhedrosis Virus (NPV), Denso Nucleosis Virus (DNV) and *Nosema bombycis* infecting the silkworm, *Bombyx mori* (Ref. #1746/CHE/2008 dated 21-07-08).

Research Interests

Cloning and functional characterization of genes encoding novel proteins, Receptor-ligand interactions, Protein engineering, Signal transduction, Silk biomaterials, Transgenesis using transposable elements and sperm mediated gene transfer.

Publications: 27

Recent Publications

1. Ravikumar Gopalapillai, Vardhana K. Vasantkumar, Rajni Bala, Venkateswarlu Modala, Guruprasad Rao and Vikas Kumar (2014). Yeast two-hybrid screen reveals novel protein interactions of the cytoplasmic tail of lipophorin receptor in silkworm brain. **J. Mol. Recognit** 27: 190–196.
1. Ravikumar G and Vijayaprakash NB (2013). Lipophorin Receptor of Insects. “**Resonance**”, Indian Academy of Sciences (Springer), Bangalore. August. 748-755.
2. Venkateswarlu M, Ravikumar G, Vijayaprakash, NB, Rao CGP, Kamble CK, and Tikedar A (2012). Molecular phylogeny of *Morus* Spp differentiation based on *matK* sequences. **Indian J. Sericulture** 51: 16-19.
3. Ravikumar G, Raje Urs S, Vijayaprakash NB, Rao CGP and Vardhana KV (2011). Development of a multiplex polymerase chain reaction for the simultaneous detection of microsporidians, nucleopolyhedrovirus, and densovirus infecting silkworms **J. Invert. Pathol.** 107: 193-197.
4. Ravikumar G, Vardhana KV and Basavaraja HK (2011). Characterization of lipophorin receptor (LpR) mediating the binding of high density lipophorin (HDLp) in the silkworm, *Bombyx mori*. **Journal of Insect Science** (USA) 11: 1-8.
5. Ravikumar Gopalapillai, Keiko-Kadono Okuda, Kozo Tsuchida, Kimiko Yamamoto, Junko Nohata, Mashiro Ajimura and Kazuei Mita 2006. Lipophorin receptor from the silkworm, *Bombyx mori*: cDNA cloning, genomic structure, alternative splicing and isolation of a new isoform. **J. Lipid Res.** 47: 1005-1113.
6. Ravikumar Gopalapillai, Keiko-Kadono Okuda and Takashi Okuda, 2005. Molecular cloning and analysis of a teratocyte-specific carboxylesterase from the parasitic wasp, *Dinocampus coccinellae*. **Insect Biochem. Mol. Biol.** 35:1171-1180.
7. Co –author in the following paper: Mita K. *et al*, 2004. The genome sequence of silkworm, *Bombyx mori*. **DNA Research** 11: 27-35.

Expertise

Vector constructions, Cloning, Recombinant Expression, and Functional Characterization of Genes.

Opportunities

Exist for MSc, MTech, and BTech Biotechnology students for their project work.