

Dr. Arun Kumar K. P

Head, Laboratory of Molecular Genetics
Centre for DNA Fingerprinting & Diagnostics
Lab block: Tuljaguda (Opp. MJ Market),
Nampally, Hyderabad-500001, INDIA



Email: arun@cdfd.org.in

Phone: [+91-40-24749345](tel:+91-40-24749345)

Webpage: http://www.cdfd.org.in/labpages/arun_kumar.html

Arunkumar did his doctoral research in CDFD, Hyderabad where he studied genetics, genomics and evolutionary biology of silkmoths. After PhD, he moved to Caltech for Post-Doctoral research in Prof. Bruce Hay's lab. There he worked on gene regulation in *Drosophila* to develop novel gene drive system. He is currently working as Scientist and Group Leader in Laboratory of Molecular Genetics at CDFD and is interested in genetics, genomics and evolutionary biology of animals, and genetic engineering of insects. He is a recipient of Innovative Young Biotechnologist Award (IYBA) and INSA Young Scientist Medal (Indian National Science Academy), and is a founding member of Indian National Young Academy of Science (INYNAS). He is on the Editorial Board of *Scientific Reports* journal.

Particulars of memberships in academies/societies/professional bodies

- 1) Member, Expert Group on 'Research on Technology Development in Silk and its Applications in Biomaterials' Department of Biotechnology, Government of India (2014-2017)
- 2) Member, Research Advisory Committee, Seri-Biotech Research Laboratory, Central Silk Board, Bangalore, India (2014-2017)
- 3) Member, Scientific Advisory Committee, NCLAS, National Institute of Nutrition, Hyderabad, India (2015-2018)
- 4) Member, International Committee, The 5th Asia-Pacific Congress of Sericulture and Insect Biotechnology 2017.
- 5) Member, International Consortium on *Spodoptera litura* Genome Sequencing

Selected publications:

1. Cheng et al (2017) Genomic adaptation to polyphagy and insecticides in a major East Asian noctuid pest. ***Nature Ecology and Evolution*** (In press).
2. Gupta AK, Mita K, Arunkumar KP and Nagaraju J (2015) Molecular architecture of silk fibroin of Indian golden silkmoth, *Antheraea assama*. ***Scientific Reports*** 5: 12706.

3. Arunkumar KP, Mita K and Nagaraju J (2009) Silkworm testis specific genes are enriched on Z chromosome and are evolutionarily conserved. **Genetics** 182: 493-501.
4. Arunkumar KP, Metta M and Nagaraju J (2006) Molecular phylogeny of silkmoths reveals the origin of domesticated silkworm, *Bombyx mori* from Chinese *B. mandarina* and paternal inheritance of *Antheraea proylei* mitochondrial DNA. **Molecular Phylogenetics and Evolution** 40: 417-427.
5. Prasad MD, Muthulakshmi M, Arunkumar KP, Madhu M, Sreenu VB, Pavithra V, Bose B, Swaminathan S, Nagarajaram HA, Mita K, Shimada T and Nagaraju J (2005) Silksatdb: a microsatellite database of silkworm, *Bombyx mori*. **Nucleic Acids Research** 33: D403-D406.