



Dr. Abhishek Baghela

Scientist D

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Research Areas

- The group is focused on molecular identification, phylogenetics, DNA barcoding, and genetic engineering of fungi. As a constitutive part of National Fungal Culture Collection of India (NFCCI), ARI laboratory offers services to academia, research institution and industry in molecular identification of fungi. The group is also interested to study the kinetochore dynamics in different fungi, and their possible application for development of novel antifungal drug targets in future.

Education & Scientific Career

- Scientist & Group Leader at XCyton Diagnostics Pvt. Ltd. Bangalore, India from 1/10/2013 to 20/02/2014.
- DBT- Postdoctoral Fellowship at Molecular Mycology Laboratory, Molecular Biology and Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur, Bangalore from 01/11/2011 to 31/09/2013.
- Ph.D. Microbiology - Postgraduate Institute of Medical Education & Research (PGIMER), Chandigarh in 2011
- M.Sc. Microbiology - School of Life Sciences, Devi Ahilya University, Indore in 2005
- B.Sc. Microbiology - Devi Ahilya University, Indore in 2002

Awards

- DBT-Postdoctoral Research Associateship in Life Sciences in 2011.
 - Fellowship to attend advanced laboratory training course on 'Molecular Medical Mycology' organized by Harvard Hughes Medical Institute (HHMI), USA in collaboration with Melbourne University at Mahidol University, Bangkok, in 2009.
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Funding and Collaborators:

In-house funding:

- MYC09 – As principal investigator Development of a multi-locus microsatellite typing (MLMT) method and an efficient gene targeting system for a devastating plant fungal pathogen *Colletotrichum gloeosporioides*. (till 2017)
- MYC08 – As co- principal investigator Taxonomy, Multigene Phylogeny and Monographic Documentation of Indian FUSARIA

Collaborators:

- Dr. S.K. Singh, Scientist – E, Agharkar Research Institute, Pune
 - Dr. Kaustuv Sanyal, Molecular Biology and Genetics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur, Bangalore.
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Links

- Assembling the Fungal Tree of Life: <http://aftol.org/>
- MycoBank: <http://www.mycobank.org/>
- Fungal Genome Initiative: <http://www.broadinstitute.org/scientific-community/science/projects/fungal-genome-initiative/fungal-genome-initiative>
- Multiple Sequence Alignment: <http://www.ebi.ac.uk/Tools/msa/>
- Primer3web: <http://primer3.ut.ee/>
- The Candida Genome Database: <http://www.candidagenome.org/>
- The International Society for Human and Animal Mycology: <http://www.isham.org>