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# Suyog S. Kuwar

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## EDUCATION

**Max Planck Institute for Chemical Ecology, Jena, Germany** 01/2010 - 06/2016

- PhD, Molecular Biology, Excellent (summa cum laude / with highest distinction)
- IMPRS International Max Planck Research School fellow

**Institute of Bioinformatics and Biotechnology, University of Pune India** 06/2004 - 03/2009

- Master of Science in Biotechnology (5 years integrated)

## SKILLS

Data Analysis	Molecular Biology	Languages	Other
<ul style="list-style-type: none"><li>• C-Programming-Basic</li><li>• R-Studio</li><li>• Transcriptome analysis</li><li>• Statistics</li><li>• Bioinformatics</li><li>• Mathematical modeling (basic)</li><li>• Python (Basic)</li></ul>	<ul style="list-style-type: none"><li>• Phage display, PCR/qPCR</li><li>• Protein modifications/ engineering</li><li>• Basic separation techniques</li><li>• Western blot/pull down assay</li><li>• Enzyme assays and Kinetics</li><li>• Microbiology, Animal and Plant cell culture techniques</li><li>• Protein expression/purification</li></ul>	<ul style="list-style-type: none"><li>• Marathi (Native)</li><li>• Hindi (Native)</li><li>• English (fluent)</li><li>• German (Basic)</li></ul>	<ul style="list-style-type: none"><li>• Project coordination</li><li>• Report preparation</li><li>• Public outreach</li><li>• Scientific writing</li><li>• Experimental design</li><li>• Adobe package</li><li>• Website development-Jekyll</li></ul>

## RESEARCH EXPERIENCE

**Department of Entomology and Nematology, University Florida, USA** 02/2017 - 12/2018

- Post Doctoral Research associate (No cost extension)

01/2018 - Present

**Post Doc, Department of Entomology, Iowa State University, USA** 10/2016 - 02/2017

- “Protein modification, expression, binding assays, pull down assays, phage display to increase toxicity for the toxins derived from *Bacillus thuringiensis* for enhanced insecticidal activity against selected insect pests”

**PhD, Max Planck Institute for Chemical Ecology, Jena, Germany** 01/2010 - 06/2016

- “The adaptive response of the serine protease superfamily of the cotton bollworm *Helicoverpa armigera* to dietary protease inhibitors”
- Created a comprehensive resource of all the digestive proteases from *H. armigera*, *S. frugiperda* and *M. sexta*.
- Analyzed the transcriptome data using MetaboAnalyst2.0, MeV and Genespring Gx.
- Analyzed the proteomics data using PLGS software.

**M. Tech., Indian Institute of Science Education and Research, Pune** 04/2009 - 12/2009

- “Mass spectrometry data analysis for phloem proteome of potato in response to pathogen challenge”

**M. Sc Project, National Chemical Laboratory, Pune, India** 06/2008 - 03/2009

- “Identification and Characterization of *Helicoverpa armigera* gut amylases”
- Analyze enzyme assays using SPSS

**M. Sc Biotechnology, Savitribai Phule Pune University, Pune** 06/2006 - 03/2007

## ACHIEVEMENTS

- ISCE Student Poster Award: for outstanding contribution as a poster in Melbourne, Australia, Aug 2013
- Selected to attend the Centre for Plant Integrative Biology (CPIB) summer school “Mathematical Modeling for Biologist 2010” at Sutton Bonington Campus, Nottingham, UK
- International Max Planck Research School Fellowship for PhD studies, Max Planck Institute for Chemical Ecology, Jena, Germany. January 2010
- Graduate Aptitude Test in Engineering 2009 Qualified with 84.45 percentile-All India Exam

## PUBLICATIONS

- Published 6 papers in peer reviewed international journals, e.g. BMC Genomics, Scientific reports etc.

## PROFESSIONAL SERVICES

**Article reviewing for:** PLOS ONE, Biology — Open Access Journal of Biochemistry & Molecular Biology, Life — Open Access Journal of Origins and Evolution of Life

- I like to go for long walk, bicycle riding and reading philosophers.
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