

NIMITHA KORRAPATI

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Highest Academic Qualification: Master of Science - Biotechnology
Bharathidhasan University, India (2001-2003)

Professional Profile:

More than 15 years progressively responsible experience as a Researcher with global Biotechnology companies and post graduate degree in Biotechnology has created opportunity for career transition within various fields of Biotech R&D. Recognized for ability to:

- Prepare and present accurate documentation to steer strategic team decision-making
- Project planning, resource planning, timeline monitoring and project execution
- Prioritize a significant workload while consistently meeting project deadlines
- Collaborate with other groups to promote seamless communication and ensure quality
- Commercialization of biotech products with economical and sustainable practices

Technical/Non-Technical expertise:

- Technology Transfer, Microbial Physiology, Fermentation, Molecular Biology, Bioinformatics,
- Laboratory & People Management, Cross functional team collaboration, Team player

Experience:

Present Position:

General Manager Technology Partners/Business Head (Hyderabad) in Production of TOJO VIKAS Biotech (Start Up), India from Sep 2019 - till date

- Production of Flavors in Yeast or Mucor at different scales (SF, 2L, 10L, 100L and 500L fermentor) for industrial applications in 6KL
- Lab operations management, RM & Logistics for commercial production
- Project design, planning, coordination and execution
- Scale up technology transfer for commercial production of F&F molecules

Research Scientist in R&D of TOJO VIKAS Biotech (Start Up), India from Jun 2016 – Aug2019

- Expression and production of Flavors in Yeast or Mucor at different scales (SF, 2L, 10L, 100L and 500L fermentor) for industrial applications and ongoing efforts for 6KL production of F&F molecule
- Production of proteins in Yeast or bacteria at SF, 2L, 100L, 500L, 1KL fermentor
- Lab operations management
- Project design, planning, coordination and execution
- Scale up technology transfer for commercial production of F&F molecules

Previous Positions:

1. **Research Associate (Associate Scientist)** in Industrial Biosciences Technology group of E.I. Dupont at Dupont Knowledge Center, India from Jan 2013 – Mar 2016
 - ☐ Expression of tetra-terpenoids in oleaginous yeast for industrial applications
 - ☐ Production of enzymes in bacteria or filamentous fungi for HPC applications in MTP, SF & 2L fermentor
 - ☐ Lab scale production optimization of bacterial bio-polymer (cellulose) for industrial applications
 - ☐ Bench-marking industrial yeast strains for thermo-tolerance/product yield/viability in anaerobic conditions
2. **Scientist** - Evolva Biotech Pvt. Ltd., India, August 2006 - Dec 2012
 - ☐ Expression engineering of plant flavonoid and tetra-terpenoid pathway in yeast as a POC for nutraceutical product
 - ☐ Creation of Pathway libraries to create Yeast Artificial Chromosomes for US defense program apart from heterologous expression of genes of interest in microbes for activity analysis for the same project
 - ☐ Construction of normalized cDNA libraries from organisms producing anticancer, antibacterial, antifungal molecules to capture the biology
3. **Research Fellow** -Transgene Biotech Ltd, Hyderabad, 2004 – 2006
 - ☐ Expression of recombinant protein (antivirus targeted molecule) in *E. coli*.
 - ☐ Laboratory Maintenance for project needs

Career Highlights:

- ☐ Successfully expressed full pathway of Dihydroxy flavanone in yeast
- ☐ Successfully expressed Crocetin dial by connecting beta carotene pathway with two genes in yeast as a POC of saffron project
- ☐ Improved stability of expression and yield of keto-carotenoid in *Yarrowia* using marker less transformation
- ☐ Established robust protocol of seed development for bacillus fermentation to express HPC enzyme
- ☐ Key role in process optimization of bacillus fermentation to separate closely expressed industrial strains of HPC molecule
- ☐ Key role in project planning & designed protocols for benchmarking industrial yeast strains for thermotolerance
- ☐ Key role in project planning, resource planning and project execution for production of biopolymer (Bio cellulose) to use in composite applications.
- ☐ Laboratory management for contract manpower work allocation and safety training
- ☐ Key role in ISO (2008:9001) certification of Evolva R&D (Chennai) as a Management representative
- ☐ Mentoring MSc students for Master dissertations
- ☐ Key role in initiating, designing and developing innovative research projects for bio-industrials (biofuels, Colorant molecules)

Dissertation:

“Fermentative production of ethyl alcohol in molasses and cane juice based media”, Department of Microbiology at K.C.P sugars, Vuyyuru, Andhra Pradesh.

Publication:

Title: Yeast artificial chromosomes employed for random assembly of biosynthetic pathways and production of diverse compounds in *Saccharomyces cerevisiae*
Microbial Cell Factories, 13 August 2009

Title: Biosynthesis of natural aroma compounds using recombinant whole-cell tomato hydroperoxide lyase biocatalyst
J Biosci (2022) 47:37 *Indian Academy of Sciences DOI: 10.1007/s12038-022-00269-4 · Mar 22, 2022*

Patent:

Title: A PROCESS FOR BIO-TRANSFORMATION AND PRODUCTION OF D-LACTONES THEREOF. *Grant Number: 316764; Grant Date: 25.07.2019*

Workshop and seminar attended:

- **“Workshop on Advanced Techniques in Molecular Biology”**, J.J. Collage of Arts and Science, Tamil Nadu, India. 7th March 02
- **“Biofuels and Agribiotech Industries in Andhra Pradesh- Opportunities and Challenges”** seminar organized by FAPCCI on 3rd May 08.
- Training on **“YAC (Yeast artificial chromosome) preparation”** in Evolva SA, Switzerland, 30th Jan 2011- 14th Feb 2011

Honors & activities

- Awarded **“Night in the Town”** for contributions in non-technical support to IBT group. DuPont knowledge center; Dec 2015
- Awarded **“Night in the Town”** for Bacillus fermentation process streamlining in HPC project. DuPont knowledge center; Aug 2014

Reference:

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