

Manasa Nandimandalam

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SUMMARY

A young enthusiastic and results oriented professional with years of experience in Pharmaceutical & chemical industry along with academic teaching experience and worked as research fellow in reputed research institutions looking forward to taking up a challenging position.

Professional Profile:

Nov 2019 – Till date: Pursuing PhD in Morphogenesis and Tissue Engineering

Ph.D. title: Lab-on-chip systems for the detection of pathogens

Key Responsibilities:

- Synthesis of monomer from Trichloro silane.
- Fabrication of Microfluidic chip with polymer brushes for aptamer and fragments-based-biosensor for the detection of Adenosine Tri phosphate (ATP).
- Study of data with Electrochemical photosensor for the detection of ATP.
- Aptamer based detection of Zn metal from the industrial contaminant water.

Sept 2018 – Oct 2019: One year Second Masters in Nanotechnology Engineering, Sapienza Universita Di Roma, Italy

June 2016 – Dec 2017: Secondary school teacher, Montfort matric. Hr. sec. school
Worked as a chemistry teacher

July 2013 – Aug 2014: Junior Research Fellow at GITAM University, Department of Chemistry, Andhra Pradesh, India.

Key Responsibilities:

- Liquid-liquid Solvent extraction of metals from mineral acids by using amines and organic substances.
- Worked on estimation of chromium metal & extraction of metal released from industries
- Done various industrial visits to understand the process and metal extraction from process waste.
- Tested water quality Index of water samples collected from various areas.
- Extracted Chromium and iron from industrial waste and analyzed using UV-Visible Spectrophotometric analysis

Sept 2012 – June 2013: Quality Control, R&D, Process Development officer at SNF India, Vishakhapatnam, Andhra Pradesh, India.
A France based company leading in organic binders worldwide

Key Responsibilities:

- Synthesis of Flocculants, Binders, Emulsions and coagulants.

- Improvement of formulation, Process development of binder, research in use of binders in iron ore palletization to improve strength of pellets.
- Use of flocculants to remove dyes from the wastewater of textile industry.
- Been part of ISO 9001: 2000 implementation and won prize for best practices in laboratory.
- Very good experience in using MS-Excel.
- Proficiency in MS Office (Word, Project, PowerPoint, Access, Outlook)
- Attended several national and international seminars and participated in 2 international seminars

Academic Project Outline:

Project 1: Solvent extraction of chromium from aqueous acid solutions. (Dec 2013 to Aug 2014)

At: GITAM University, Visakhapatnam, Andhra Pradesh, India.

Short description: As part of my project fellow work under UGC-MRP entitled “Recovery and reuse of industrial contaminants”. I have worked on solvent extraction of chromium using organic solvents and studied the amount of extraction from UV-Visible Spectroscopy and atomic absorption Spectroscopy.

Project 2: Synthesis of silver Nano particles from henna extract and study of their antimicrobial activity. (July 2013 to Nov 2013)

At: GITAM institute of science, GITAM University, Vishakhapatnam, Andhra Pradesh, India.

Short description: With a knowledge of Nanoscience at my post-graduate studies, I worked on synthesis of silver nanostructures form henna extract and observed the antimicrobial activity in microbiology laboratory as an inter disciplinary project. Here I am assigned to work on SEM and XRD for the analysis of nanostructures.(A failure project)

Project 3: Synthesis of Sumatriptan Succinate. (Sep 2012 to Jun 2013)

At: Smilax laboratories private ltd., Jeedimetla, Hyderabad, Andhra Pradesh India.

Short description: As a part of our curriculum at my post-graduate studies, I had done summer project on the synthesis of sumatriptan succinate at smilax laboratories with a team under their guidance. During this project I studied about the chemical reactions, TLC, and distillation process.

Academic Credentials:

Qualifications	Specialization	Institute	Year of passing	Percent of marks
Pursuing Ph.D	Bio Physics	Sapienza universita di Roma / Rome	2022	
M.Sc(1 year)	Nanotechnology engineering	Sapienza universita di Roma / Rome	2019	51 CFU
M.Sc.	Organic chemistry	GITAM university / Vishakhapatnam	2012	7.74/10 CGPA

B.Sc.	Microbiology, Chemistry,	Sri Venkateshwara University / Nellore	2010	77.8/100
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List of publications:

- Solvent extraction of Iron (III) with Tri Methyl Amine from Mineral acid solutions, Chemical Science Transactions, 2014, Vol.3 (4).
- Solvent extraction of chromium (VI) from Aqueous acid solution by Tri-Iso Octyl Amine, Electronic journal of chemistry, 2013, Vol.1 (2) PP. 29-33.
- Determination of water quality of areas near by Amadalavalasa Mandal in Srikakulam District A.P., Asian journal of Research in Chemistry, 2013, vol.6, issue:12 Page No.1153-1155.