ASHWINI NARAYAN KULKARNI (Mrs. Ashwini Amit Kulkarni)

(MSc Microbiology NET) Submitted PhD Thesis in Bioremediation of textile industry Waste Water.

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OVERVIEW

TECHNICAL QUALIFICATION: - MSc Microbiology (With First Class) Year: - 2011.
NET Rank: - 57/320. Year: - June 2011

OBJECTIVE

Seeking Challenging Assignments in waste water treatment research sector where I can contribute to the growth of organization utilizing my knowledge and skills and develop new Environment friendly as well as economically competent methodology for treatment of wastewater.

KEY SKILLS

- Remediation of textile dyes and effluent with Biological methodologies couples with physical and chemical methods.
- Screening of various biological entities and process optimization for effective treatment.
- Toxicological and Oxidative stress analysis of metabolites produced during biological treatment protocol.
- Development of Lab scale reactor design for effective treatment of textile effluent.

EXPERIENCE

- Hands on experience in analysis of oxidoreductive as well as oxidative stress neutralizing enzymes.
- Development and optimization of fixed bed upflow bioreactors for treatment of textile dye mixture and effluent.
- Hands on experience in analytical instruments viz HPTLC, UV Spectrophotometer.
- Hands on experience of post-bioremediational analysis by virtue of reduction in COD BOD, TSS, TDS, Hardness and alkalinity of effluent with reference to values of untreated effluent.
- Hands on study of toxicological impact on germinating seedlings (phytotoxicity) and genetic material in root apical meristem of *Allium cepa* (Genotoxicity).

PUBLICATIONS

1. Densitometric HPTLC quantification method for the validation of decolorization of Disperse Orange ERL and dye mixture by lichen *Parmelia* sp.
AN Kulkarni, BN Bhalkar, RV Khandare, MB Kurade, SP Govindwar (Manuscript communicated)

2. Decolorization and detoxification of dye mixture and textile effluent by lichen *Dermatocarpon vellereceum* in fixed bed upflow bioreactor with subsequent oxidative stress study.
AN Kulkarni, AD Watharkar, NR Rane, BH Jeon, SP Govindwar
Ecotoxicology and Environmental Safety (Manuscript accepted) (IF-3.74).

3. Lichen *Permelia perlata*: A novel system for biodegradation and detoxification of disperse dye Solvent Red 24
AN Kulkarni, AA Kadam, MS Kachole, SP Govindwar.
Journal of Hazardous Materials 276, 461-468 (IF-6.06).

4. Exploiting the potential of plant growth promoting bacteria in decolorization of dye Disperse Red 73 adsorbed on milled sugarcane bagasse under solid state fermentation
AA Kadam, **AN Kulkarni**, HS Lade, SP Govindwar
International Biodeterioration & Biodegradation 86, 364-371(IF-2.96).

5. Detoxification of Chlorpyriphos by" *Micrococcus luteus*" NCIM 2103," *Bacillus subtilis*" NCIM 2010 and" *Pseudomonas aeruginosa*" NCIM 2036
MV Bhuimbar, **AN Kulkarni,** JS Ghosh
Research Journal of Environmental and Earth Sciences 3 (5), 614-619

CONFERENCES ATTENDED

1. Attended International symposium on “Microbiome: From space to gut at NCCS Auditorium, SPPU campus, Pune on 17th November, 2018.
2. Worked as organizer for Seminar on “National Biodiversity act and its implication in biodiversity research” at AV Hall, Modern College, Ganeshkhind, Pune on 5th October, 2018.
3. Worked as resource person for “Workshop on Laboratory safety and precautions” at AV Hall, Modern College, Ganeshkhind, Pune on 27th September, 2018.

ACADEMIC DETAILS

- Submitted PhD as UGC NET research fellow in Microbiology at Department of Microbiology, Shivaji University, Kolhapur. Under guidance of Prof. S.P. Govindwar.

Date of Registration: - 1st July 2012.

- M.Sc. Microbiology with first class from Department of Microbiology, Shivaji University, Kolhapur. Year: - 2011.(Project work got published in scientific journal)

- B.Sc. General Microbiology with distinction from Department of Microbiology, Rajaram Collage, Shivaji University, Kolhapur. Year:- 2009.

- HSC with first class from Rajaram Collage (Kolhapur Divisional Board), Year: - 2006.

- SSC with Distinction from Usharaje High School, Tararani Vidyapith, Kolhapur. Year: - 2004.

AWARDS AND ACHIEVEMENTS

- Quick Qualified NET JRF in first attempt with 57/320 Rank all over India (Year2011)
- Introduced Lichens as Novel system for bioremediation of Textile dyes and effluent.
- Developed validated densitometric quantification method for evaluation of dye removal using HPTLC method.
- Developed dye degrading consortium of plant growth promoting bacteria with effective application in trey Bioreactor.

SOFT SKILLS

- Hands on experience on MS Word, Excel and power point
- Operating Systems Used :- Windows 98 / 2000 / XP /Windows 7

PERSONAL DETAILS

DATE OF BIRTH	:	27th May 1989.
MOBILE NO	:	+91 9921062719
MARITAL STATUS	:	Married.
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CURRENT ADDRESS	:	C5/9, ‘Aboli’ HDFC Colony (Sundarban Park Housing Society) ,Shahunagar, Chinchwad, Pune (411019)

DECLARATION

I, hereby declare that the particulars of information and facts stated above are true, correct and complete to the best of my knowledge and belief.

Place: Pune **Mrs. Ashwini Amit Kulkarni**