

# *Dr. Niranjan Prakashrao Patil*

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## **Personal Background**

D.O.B. : 27<sup>th</sup>, March 1976  
Language Proficiency: Marathi, Hindi and English

## **Educational Background**

<b>Ph.D.</b>	In Environmental Sciences, work done in Environmental Microbiology from Pune University affiliated KTHM College, Nashik (award 2011)
<b>S.E.T.</b>	Teacher's eligibility test qualified in Life Sciences (2004)
<b>M.Sc.</b>	In Microbiology from Pune University Department(1999)
<b>B.Sc.</b>	In Microbiology from KTHM College Nashik(1997)
<b>S.S.C.</b>	First in School with 81.71% marks

## **Professional Experiences**

<b>Period</b>	<b>Position held</b>	<b>Place</b>	<b>Responsibilities</b>
From Oct.2010	Asst. Professor	AGC-Micro, Pune	UG & PG Teaching and Research
Feb.2005-Sept.2010	Asst. Professor	KTHM-Micro, Nashik	UG & PG Teaching and Research
Jun.2003- Jan.2005	Lecturer	KIT-Biotech Engg, Kolhapur	UG Teaching
June.2000-Nov.2002	Research Student	Agharkar Micro,Pune	Project: Metabolic flux in methanogens
Dec.1999-June.2000	Lecturer	Waghire-Micro,Saswad	UG Teaching

## **Research Interest:**

Multifunctional Plant Growth Promoting rhizobacteria, biodegradation of xenobiotics, bacterial exo-polysaccharides, bioplastic, and Microbial fuel cell, eLearning resources.

## **Teaching Responsibilities**

Quantitative biology, Instrumentation and Biophysics, Applied and Environmental microbiology

### **Research article published in Journals:**

**Niranjan Prakashrao Patil\***, Avinash D. Bholay, Balu P. Kapadnis and Vishwas B. Gaikwad (2016) Biodegradation of Model Azo Dye Methyl Red and other Textile Dyes by Isolate *Bacillus circulans* NPP1. *J Pure Appl Microbio.* **10**(4): 2793-2800.

**Niranjan Prakashrao Patil\***, Jumma Shaikh , B.P. Kapadnis and V. B. Gaikwad. (2016) Decolorization of dyes and its mixture by *Providencia* sp. VNB7 isolated from textile effluent treatment plant. *Jr. of Industrial Pollution Control* .32(2): 623-628

**Niranjan Prakashrao Patil\***, Mayuri Inchanalkar, Daisy Desai, Vishal R. Landge and B.D. Bhole. (2016) Screening of 1-aminocyclopropane-1-carboxylic acid (ACC) Deaminase Producing Multifunctional Plant Growth Promoting Rhizobacteria from Onion (*Allium cepa*)Rhizosphere. *Int.J.Curr.Microbiol.App.Sci.* 5(10): 118-127.  
doi: <http://dx.doi.org/10.20546/ijcmas.2016.510.014>

Shaikh Jumma, **Patil Niranjan Prakashrao\***, Shinde Vikas, Gaikwad Vishwas B (2016) Simultaneous Decolorization of Methyl Red and Generation of Electricity in Microbial Fuel Cell by *Bacillus circulans* NPP1. *J Microb Biochem Technol* 8(5): 428-432.  
doi: [10.4172/1948-5948.1000320](https://doi.org/10.4172/1948-5948.1000320)

Seema P. Rodge, Sayali K. Sable, Shraddha K. Salve, Sujata A. Sawant and **Niranjan Prakashrao Patil\***. (2016) Isolation and Characterization of PGPR from Roots of *Ficus religiosa* growing on Concrete Walls and its Effect on Plant Growth in Drought Condition. *Int.J.Curr.Microbiol.App.Sci.* 5(9): 583-593.  
doi: <http://dx.doi.org/10.20546/ijcmas.2016.509.066>

Bholay A.D, More S.Y, Patil V.B. & **Patil Niranjan P.** (2012) Bacterial Extracellular Alkaline Proteases and its Industrial Applications. *I. Res. J. Biological Sci* 1(7): 1-6.  
**ISSN 2278-3202**

Derle Shilpa G. , **Patil Niranjan P.** & Gaikwad Vishwas B. (2012) Eco-friendly Biodegradation of Reactive Yellow 145 by newly isolated *Bacillus boroniphilus* from industrial effluent. *J. Environ. Res. Develop.* 7 (1A): 303-311  
**ISSN 2319-5983**

Ashwini Rane, V.B.Gaikwad, and **Niranjan Patil\***.(2010) Decolorization of Acid Black 210 using *Pseudomonas* sp.LZXC25. *Nava Gavesana An International Res. Journal.* 1(1): 69-77.  
ISSN 0976-9455.

## Conferences

### Poster presentation:

1. **Niranjan P. Patil\***, Mayuri Inchanalkar, Daisy Desai & Vishal R. Landge “Screening of ACC(1-aminocyclopropane 1 carboxylic acid) deaminase producing plant growth promoting rhizobacteria from Onion(*Allium cepa*) rhizosphere” Best Poster award (gold) in International Conference ITCPB 2016 organized by AM college Hadapsar, Pune Abstract in Conference Proceeding ISBN: 978-93-84659-28-8
2. **Niranjan P. Patil\***, Sahil Shaikh, Vikas Shinde, B. P. Kapadnis & V. B. Gaikwad, “Simultaneous decolorization of Methyl red and electricity generation in Microbial fuel cell by *Bacillus circulans* NPP1” Poster presentation in International Conference ITCPB 2016 organized by AM college Hadapsar, Pune Abstract in Conference Proceeding ISBN: 978-93-84659-28-8
3. Priyanka Navghare, Vishal Landge, Prafulla Shede & **Niranjan Patil\*** Assessment of Bacterial Isolates for Reactive Yellow 145 Dye Decolorization Capabilities International Conference in Env. Conservation by Adopting New Technologies. Feb. 28-29, 2014 Modern College, Pune .ISSN :2320-5997 vol18
4. **Niranjan P. Patil\***, Yogesh Kenge, Vishal Landge & Prafulla Shede “Screening and Characterization of Plant Growth Promoting Rhizobacteria from *Oryza Sativa* L Rhizosphere” Poster in International Conference in Env. Conservation by Adopting New Technologies. Feb. 28-29, 2014 Modern College, Pune .Proceeding Abstract book ISSN :2320-5997 vol18
5. Abhishek V. Bhosale, Awara Kh. Smail & **Niranjan P.Patil\*** (2013) Poster Presentation “Isolation, screening and characterization of Multifunctional Plant Growth Promoting Rhizobacteria (PGPR) from Onion Rhizosphere (*Allium cepa*)” in National Conference on Challenges and Opportunities in Life Sciences Feb 2013 at Shivaji University Kolhapur
6. **Niranjan P.Patil**, B.P.Kapadnis & V.B.Gaikwad\* (2007) “Microbial decolorization of textile dyes”Poster presentation in Regional Conference for Pune University Teacher “INNOVATION-2007” for the Discipline Microbiology held at University of Pune, Pune

### Oral presentation:

1. Presented research paper in Regional Conference for Pune University Teacher “INNOVATION-2008” for the Discipline Microbiology held at VPASc College & VSBT Baramati.
2. Oral presentation of research paper at two days National Conference on Natural Resource Management for Sustainable Development organized by School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon, Feb 2010

### Workshop/Training :

- Participated in U. G. C. sponsored refresher course in Biotechnology, Microbial Biotechnology and Bioinformatics, at Academic Staff College, Bharathiyar University, Coimbatore, TN, during Nov. 6- 26, 2014
- Participated in National workshop on “Teaching and Learning Biology: Problem Solving Approach”, at Department of Microbiology, Savitribai Phule Pune University, Pune, MH during Aug. 4- 11, 2014
- Participated in U. G. C. sponsored 100<sup>th</sup> Orientation course at Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, MH, during Dec. 2 - 30, 2013
- Attended a short term course on **Quality Management Trends and scope** sponsored by ISTE during 8<sup>th</sup> June to 3<sup>rd</sup> July 2004 at KIT’s college of Engineering, Kolhapur.
- Attended workshop on “Softskill Development Programme for Trainers” designed and developed by the University of Pune and conducted by Vishwamangal Educations held at Nashik Sub centre from 21<sup>st</sup> to 30<sup>th</sup> June 2007.
- Participation in two day workshop organized by SP College, Pune on “Bioinformatics and Biostatistics using ‘R’ software” on 30<sup>th</sup> September and 1<sup>st</sup> October 2016.
- The workshop, coordinated and trained Third Year students of KTHM College on “ Soft-skill Development ” from 1<sup>st</sup> Sept to 14<sup>th</sup> Sept 2007 at KTHM College Nashik.
- Worked as resource person in the workshop on “Two Day’s workshop on Revised Syllabus of T.Y.B.Sc. Zoology Practical” sanctioned by University of Pune and organized by Dept. of Zoology, KR. Aher Arts, Sci. & Comm. College, Deola, Dist. Nashik on 3<sup>rd</sup> & 4<sup>th</sup> Sept 2010.

### **Project Grants:**

1. Project sanctioned by ISRO on “Studies on Biodiversity of poly-extremophilic bacteria for their probable use as test organisms in space research”, PI. Dr. Neelima Deshpande, Co-PI. Dr. Niranjana P. Patil (Year 2015-17)
2. Project sanctioned by BCUD, SPPU on “Isolation of PGPR from rhizosphere of *Ficus religiosa* and its effect on the growth of the plants cultivated in aeroponic system” PI Mrs. Seema Rode and Co.PI. Dr. Niranjana P. Patil (Year 2016-18)
3. Completed UGC sanctioned research project on “ACC deaminase based screening of Multifunctional Plant Growth Promoting Rhizobacteria (PGPR) from Onion Rhizosphere (*Allium cepa*)”(Year 2013-15)
4. Completed BCUD (Pune) sanctioned research project on “Biodegradation and Bioremediation textile dyes”.(Year 2006-08)