

Name : Dr. Neelu N. Nawani

Designation : Professor and Incharge, Microbial Diversity
Research Centre

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Academic Qualifications:

1. **Ph.D.** (Microbiology) (2003) University of Pune, Pune, India
Thesis title: *Diversity of chitinases of bacterial origin*
2. **M.Sc.** (Microbiology) (1996) Mumbai University, Mumbai, India
3. **B.Sc.** (Microbiology) (1994) Bombay University, Bombay, India
4. **Patent Certification Course** (2013) Institute of Patent Attorneys, India
5. **Certificate Course on Right to Information Act** (2010) Centre for Good Governance (CGG), Hyderabad, and Department of Personnel and Training, Ministry of Personnel, Government of India
6. **Diploma in Office Automation** (DOA) in Computers (1999) Centre for Development of Advanced Computing, GIST, Pune. India.

Teaching Experience:

1. **Professor** (Nov 2015-present): Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Dr. D. Y. Patil Vidyapeeth, Tathawade, Pune.
2. **Assistant Professor and Associate Professor** (March 2008 – Oct 2015): Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Dr. D. Y. Patil Vidyapeeth, Tathawade, Pune.
3. **Recognised guide for Ph.D.** in Microbiology (University of Pune, Pune) and Biotechnology (Dr. D. Y. Patil Vidyapeeth, Pune).
4. **Scientist and PI** (Aug 2006 to Feb 2008): University of Pune, Pune, India (Primary role: Research and Teaching)
5. **Research Associate** (Nov 2003 to Aug 2006): University of Pune, Pune, India (Primary role: Teaching and Research)
6. **Lecturer** (Oct 2002 to Oct 2003): University of Pune, Pune, India (Primary role: Teaching and Research)
7. **Visiting Lecturer** (course oriented) AM College, Pune (1997- 2002)

Research Interest: Environmental and Health Biotechnology

Awards and Fellowships:

1. Best Researcher Award for the year 2014, **Dr. D. Y. Patil Vidyapeeth**, Pune, India.
2. Best Researcher Award for the year 2012, **Dr. D. Y. Patil Vidyapeeth**, Pune, India.
3. Professor Awtar Krishan Prize in Flow Cytometry, **National Centre for Biological Sciences (NCBS)**, Bangalore, India. 2011
4. Young Scientist Fellowship (SERC), **Department of Science and Technology**, New Delhi. India. 2006-2008
5. Peace Ambassador to **United Kingdom**, **Lila Poonawalla Foundation**, India and **Asha Foundation, UK** (Award received at the hands of Hon'ble Dr. A. P. J. Abdul Kalam) 2008-present.
6. Senior Scholarship (Science), **Lady Tata Memorial Trust**, Mumbai, India, 1999-2001
7. Junior Research Fellowship, **Lady Tata Memorial Trust**, Mumbai, India, 1997-1999
8. Lila Poonawalla Fellowship, **Lila Poonawalla Foundation**, India, 1997
9. Doctoral Fellowship, **University of Pune**, Pune, India, 1996

Research Grants:

- 1) **FORMAS, Swedish Research Council**, Sweden, Jan 2015-Dec 2017. The emergence and persistence of novel resistance to 3rd generation cephalosporins and carbapenem in bacteria in the environment. Grant value **SEK 4,900,000/-** (Sweden PI: Dr. Jana Jass, Örebro University)
- 2) **Swedish International Development Cooperation Agency**, Sweden, July 2012- Dec 2013. Identifying novel biomarkers of COPD and design of innovative preventive and therapeutic strategies targeted for the benefit of Indian population. Grant value **SEK 21,00,000/-** (Sweden PI: Dr. Cecilia Eriksson and Dr. Abul Mandal, University of Skövde)
- 3) **Swedish International Development Cooperation Agency**, Sweden, Dec 2010- Dec 2013, Bioremediation of toxic metals and other pollutants for protecting human health and ecosystem. **SEK 45,00,000/-** (Sweden PI: Dr. Abul Mandal, University of Skövde)
- 4) **Department of Science and Technology**, Government of India, March 2013-Feb 2016. Comparative study of actinomycetes biodiversity in India and Tunisia: investigation of biotechnological enzymes and biological activities. **Rs. 27,39,000/-**
- 5) **Department of Science and Technology**, Government of India, June 2012-May 2015. Studies on protection of DNA from oxidative damage, by chito-oligosaccharides, biologically extracted from seafood waste. **Rs. 26,00,000/-**
- 6) **Department of Science and Technology**, Government of India, Sep 2011-Aug 2014. A Bioelectrochemical system for sequestration of carbon dioxide. **Rs. 38,04,570/-**
- 7) **Department of Science and Technology**, Government of India, 2006-2009, Biocommodity engineering of seafood waste for the production of Single-cell protein and recovery of chito-oligosaccharides, high value therapeutics with antioxidant properties. **Rs. 13,32,000/-**

Dr. D. Y. Patil Vidyapeeth's
Dr. D. Y. Patil Biotechnology & Bioinformatics Institute,
Tathawade, Pune - 411033

- 8) **Department of Biotechnology**, Government of India, 2006-2009, Development of processes for production and downstream processing of food enzymes and their applications. **Rs. 25,86,800/-**
- 9) **Dr. D. Y. Patil Vidyapeeth, Pune**, March 2013- March 2016, Propagation and flowering of orchids using artificial soil abatement. **Rs. 3,50,000/-**
- 10) **Dr. D. Y. Patil Vidyapeeth, Pune**, Sep 2015- Sep 2016, Identifying novel biomarkers of chronic obstructive pulmonary disease (COPD) for its early detection and prognosis **Rs. 3,00,000/-**
- 11) **Dr. D. Y. Patil Vidyapeeth, Pune**, Jan 2016- Dec 2017, Screening of lactic acid bacteria for characteristic human and plant probiotic properties. **Rs. 13,40,000/-**

Trainings /Workshops/ Seminars/ Conferences:

1. Training at Quality Control Dept., Serum Institute of India Ltd., **Pune**, India (Aug 2000).
2. Anna University and Spinco-Biotech, "Bioprocess Engineering", **Chennai**, India (Feb 2002).
3. DNA sequencing at Bhabha Atomic Research Centre, **Mumbai**, India (Feb 2002-Mar 2002).
4. National Institute of Virology, "Ethics and Guidelines in Animal Experimentation", **Pune**, India (Dec 2002).
5. Sardar Patel University, "Tools and Techniques in Biological Research", **Gujarat**, India (Nov 2003-Dec 2003).
6. Biotech Consortium of India Ltd., "Management in IPR", **Pune** (Feb 2009)
7. SGIPGMS, "Group Workshop", **Lucknow**, India by DST, Govt. of India (May 2009).
8. National Centre for Biological Sciences, "Flow Cytometry Workshop" at C-CAMP, **Bangalore** (Feb 2011).
9. 6th Indian STEPs and Business Incubator's Association Meeting, 2012, **Pune** (March 17-19, 2012).
10. Training on Immunohistochemistry and Immunofluorescence at University Medical Centre, Mannheim, University of Heidelberg, **Germany** (May 2013).
11. Workshop on "Good clinical practices" by MGM Medical College, **Mumbai** (26-27 Aug 2013).
12. Workshop on "Good clinical practices" by Tata Memorial Hospital, **Mumbai** (16 Feb 2016).

Invited Speaker (Few selected only):

1. Invited speaker and Chairperson at International Conference on "Innovative trends in chemical, physical and biological sciences 2016" during Feb 9 to 10, 2016 at AM College, University of **Pune**.
2. Invited speaker at workshop on "The emergence and persistence of novel resistance to 3rd generation cephalosporins and carbapenem in bacteria in the environment" during Nov 3 to 6, 2015 at Orebro University, **Sweden**.
3. Invited speaker at International conference "New Horizons in Biotechnology 2015" during Nov 22 to 25, 2015 at **Trivandrum**, India
4. Plenary Speaker at 25th Forum International des Sciences Biologiques et de Biotechnologie. 25 to 27 March 2014, Hammamet, **Tunisia**.
5. Coordinator and Speaker for Workshop on "Metal Menace", Dec 20, 2013, **Pune**, India
6. Coordinator and Speaker for Workshop on "COPD: persuasions on diagnosis and prevention", Nov 29, 2013, **Pune**, India
7. Coordinator and Speaker for Workshop on "Diversity of actinomycetes in India and Tunisia: a geographic perspective", Nov 28, 2013, **Pune**, India

8. Resource person at workshop on “Anthropogenic pollution” at University of Skovde, **Sweden**, May 29-30, 2013, Sweden
9. University of Skovde, **Sweden** on “Status of heavy metal pollution in rivers of Pune and possible remedial measures based on correlation between abundance of heavy metal tolerant bacteria and their habitat” May 2012.
10. University of Patiala, **Punjab** on “Chitinase and Chitinase-like proteins: ubiquity and potential in therapeutics” ICIB 2012, Nov 2012.
11. University of Skovde, **Sweden** on “Chitin, Chitinases and chitooligosaccharides: Diversity and applications” May 2011.
12. University of **Pune**, Academic Staff College Refresher course in Life Sciences on “Role of statistics based designs in optimization of fermentation parameters” Jan 2011.
13. Chairperson at National Congress on “Bioinoculants for sustainable agriculture (BSA-2010)” Feb 2010 at PSGVP Mandal's Arts, Science and Commerce College, **Shahada**, India.
14. Chairperson, National Conference on Climate Change and Challenges in Biodiversity, Fergusson College, **Pune**, India.
15. Resource speaker, **Kolhapur** Institute of Technology, Kolhapur, India on “Karyotyping and FISH”.
16. Resource Person at National Workshop on “Biology and Biotechnology of Actinomycetes” at B.A.M.U subcentre, **Osmanabad**, India.

Events organized/coordinated:

1. Coordinator for “Lifecycle of Patents: Idea to Industry”; April 7, 2016; DPU, Pune
2. **Coordinator** for International Workshop cum review meet “Metal Menace”; Dec 20, 2013; Pune
3. **Coordinator** for International Workshop cum review meet “COPD: persuasions on diagnosis and prevention”; Nov 29, 2013; Pune
4. **Coordinator** for International Workshop cum review meet “Diversity of actinomycetes in India and Tunisia: a geographic perspective”; Nov 28, 2013; Pune
5. **Organizing Secretary** for International conference on Advances in Biotechnology and Bioinformatics ICABB 2013 and X Convention of Biotech Research Society, India; 25-27Nov 2013; Pune
6. **Coordinator** for International Workshop cum review meet “Impact of anthropogenic pollution on human health and ecosystem”; Dec 5, 2012; Pune
7. **Treasurer** for 13th Indo-US Flow Cytometry Symposium; Oct 4-5, 2012; Pune
8. **Coordinator** for International Workshop cum review meet “Pune Water pollution: Status and remedies”; Dec 09, 2011; Pune
9. **Organizing Secretary** for 12th Indo-US Flow Cytometry Workshop; Oct 19-20, 2011; Pune
10. **Organizing Secretary** for National Seminar on Frontiers in Biotechnology and Bioinformatics; 12 Feb 2011; Pune
11. **Coordinator** for Exuberance 2010- student gathering at Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Pune.
12. **Coordinator** for Bionnovate 2008 - student gathering at Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Pune.
13. **Core Team Member** for Samagam I and II (2009 and 2010) - a fund raising program for Lila Poonawalla Foundation.
14. **Project team member** in “Abhigyan” for educating economically deprived school children.

Publications:

1. **Neelu Nawani**, Aminur Rahman, Noor Nahar, Anandakumar Saha, Balasaheb Kapadnis and Abul Mandal (2016) Status of metal pollution in rivers flowing through urban settlements at Pune and its effect on resident microflora. *Biologia*. 71 (5): 494-507.
2. Neeta A. Salgaonkar, Prasad M. Thakare, Manisha V. Junnarkar, Balasaheb P. Kapadnis, Abul Mandal, Cecilia Eriksson and **Neelu N. Nawani** (2016) Use of *N, N'*-diacetylchitobiose in decreasing toxic effects of indoor air pollution by preventing oxidative DNA damage. *Biologia*. 71 (5): 508-515.
3. N. N. Patil, M. Waghmode, P. Gaikwad, A. B. Gunjal, **Neelu Nawani** and Balasaheb Kapadnis (2016) Drop collapse assay on Lotus leaf (*Nelumbo nucifera*): a simple and cost effective method for rapid detection of biosurfactants. *Journal of Experimental Biology and Agricultural Sciences*, 4(5): 505-511.
4. N. P. Chavan, R. Pandey, **N. Nawani**, R. K. Nanda, G. D. Tandon and M B Khetmalas (2015) Biocontrol potential of actinomycetes against *Xanthomonas axonopodis* pv. *punicae*, a causative agent for oily spot disease of pomegranate, *Biocontrol Science and Technology*. 26 (3): 351-372.
5. Aminur Rahman, Noor Nahar, **Neelu N. Nawani**, Jana Jass, Sibdas Ghosh, Björn Olsson and Abul Mandal (2015) Data in support of the comparative genome analysis of *Lysinibacillus* B1-CDA, a bacterium that accumulates arsenics, *Data in Brief*, 5: 579-585.
6. Aminur Rahman, Noor Nahar, **Neelu N Nawani**, Jana Jass, Sibdas Ghosh, Björn Olsson, Abul Mandal (2015) Comparative genome analysis of *Lysinibacillus* B1-CDA, a bacterium that accumulates arsenics. *Genomics*, 106: 384-392.
7. Neeta Salgaonkar, Divya Prakash, **N. N. Nawani** and B. P. Kapadnis (2015) Comparative studies on ability of *N*-acetylated chitooligosaccharides to scavenge reactive oxygen species and protect DNA from oxidative damage. *Indian Journal of Biotechnology*, 14: 186-192
8. Rahman A. Nahar N, **Nawani NN**, Jass J, Hossain K, Saud ZA, Saha AK, Ghosh S, Olsson B, Mandal A (2015) Bioremediation of hexavalent chromium (VI) by a soil borne bacterium, *Enterobacter cloacae* B2-DHA. *Journal of Environmental Science and Health, Part A*, 50: 1136-1147.
9. Tirumalesh Keesari, K. L. Ramakumar, M. Bala Krishna Prasad, S. Chidambaram, Petha Perumal, D. Prakash & **N. Nawani** (2015) Microbial evaluation of groundwater and its implications on redox condition of a multi-layer sedimentary aquifer system. *Environmental Processes*. 2 (2): 331-346.
10. Sofiane Ghorbel, Noomen Hmidet and **Neelu Nawani** (2015) Editorial on Recent Development in Production and Biotechnological Application of Microbial Enzymes, *Biomed Research International*, Volume 2015, Article ID 280518.
11. Prakash Divya, **Nawani NN**, Kapadnis BP (2014) Chitinases: Ubiquity and Potential in Medicine. *Journal of Chitin and Chitosan Science*. 2: 1-15(15)
12. Jaywant T. Jadhav, A. B. Gunjal, B. P. Kapadnis, **N. N. Nawani**, M. S. Waghmode, P. S. Gaikwad and N. N. Patil (2014) Iodinin (1,6-phenazinediol 5,10-dioxide) from *Microbispora* sp.V2 inhibits angiogenesis *in vivo*. *Drug Invention Today*, 6(1): 64-71.
13. Prithviraj Desale, Deboleena Kashyap, **Neelu Nawani**, Noor Nahar, Aminur Rahman, Balasaheb Kapadnis, Abul Mandal (2014) Biosorption of Nickel by *Lysinibacillus* sp. BA2 native to bauxite mine. *Ecotoxicology and Environmental Safety*. 107: 260-268.

14. Rahman A, Nahar N, **Nawani NN**, Jass J, Desale P, Kapadnis BP, Hossain K, Saha AK, Ghosh S, Olsson B, Mandal A (2014) Isolation of a *Lysinibacillus* strain B1-CDA showing potentials for arsenic bioremediation. *Journal of Environmental Science and Health, Part A*. 49: 1349 -1360.
15. N. N. Patil, M. S. Waghmode, P. S. Gaikwad, M. H. Gajbhiye, A. B. Gunjal, **N. N. Nawani** and B. P. Kapadnis (2014) Potential of *Microbispora* sp. V2 as biocontrol agent against *Sclerotium rolfsii*, the causative agent of southern blight of *Zea mays* L (Baby corn) – in-vitro studies. *Indian Journal of Experimental Biology*. 52: 1147-1151
16. Divya Prakash and **Neelu Nawani** (2014) A rapid and improved technique for scanning electron microscopy of actinomycetes. *Journal of Microbiological Methods*. 99: 54-57.
17. Noor Nahar, Aminur Rahman, Maria Moś, Tomasz Warzecha, Sibdas Ghosh, Khaled Hossain, **Neelu N. Nawani**, Abul Mandal (2014) *In silico* and *in vivo* studies of molecular structures and mechanisms of AtPCS1 protein involved in binding arsenite and/or cadmium in plant cells. *Journal of Molecular Modeling*. 20: 2104.
18. Prithviraj Desale, Bhargav Patel, Sukrit Singh, Aakshi Malhotra, **Neelu Nawani** (2014) Plant growth promoting properties of *Halobacillus* sp. and *Halomonas* sp. in presence of salinity and heavy metals. *Journal of Basic Microbiology*. 54: 781-791.
19. **Neelu Nawani**, Ashok Pandey, Samir Khanal and Parmeswaran Binod (2014) Editorial on special issue on Advances in Biotechnology and Bioinformatics. *Indian Journal of Experimental Biotechnology*, 52 (11), 1019-20
20. **Neelu Nawani**, Ashok Pandey, Emm M Papamichael and K Madhavan Nampoothiri (2014) Editorial on special issue on Advances in Biotechnology & Bioinformatics. *Indian Journal of Biotechnology*, 13 (3), 287
21. **Neelu Nawani**, P. Binod, A. A. Koutinas, Feroz Khan and Ashok Pandey (2014) Editorial for special issue on Advances in Biotechnology and Bioinformatics. Editorial. *Bioresource Technology*, Volume 165, 199-200
22. **Neelu Nawani**, Bertrand Aigle, Abul Mandal, Manish Bodas, Sofiane Ghorbel and Divya Prakash (2013) Actinomycetes: Role in Biotechnology and Medicine. Editorial. *BioMed Research International*, Volume 2013, Article 687190, page 1.
23. Mansi Prakash, Manish Bodas, Divya Prakash, **Neelu Nawani**, Madhukar Khetmalas, Abul Mandal, Cecilia Eriksson (2013) Diverse pathological implications of YKL-40: answers may lie in ‘outside-in’ signaling. *Cellular Signaling*. 25(7):1567-1573.
24. Divya Prakash, **Neelu Nawani**, Mansi Prakash, Manish Bodas, Abul Mandal, Madhukar Khetmalas and Balasaheb Kapadnis (2013) Actinomycetes: A repertory of green catalysts with a potential revenue resource. *Biomed Research International*. 2013, 8 pp.
25. Divya Prakash, Vishal Mahale, Ashok Bankar, **Neelu Nawani**, Smita Zinjarde, Balasaheb Kapadnis (2013) Biosynthesis of colloidal gold nanoparticles by *Streptomyces* sp. NK52 and its anti-lipid peroxidation activity. *Indian Journal of Experimental Biology*. 51: 969-972.
26. Divya Prakash, **Nawani N. N.** and B. P. Kapadnis (2013) Cloning, expression and characterization of thermophilic and alkalophilic *N*-acetylglucosaminidase from *Streptomyces* sp. NK52 for the targeted production of *N*-acetylglucosamine. *Proceedings of the National Academy of Sciences, India, Section B-Biological Sciences*. 83: 431-437.

27. Shweta Purushe, Divya Prakash, **Nawani N. N.**, P. K. Dhakephalkar and B. P. Kapadnis (2012) Biocatalytic potential of an alkalophilic and thermophilic dextranase as a remedial measure for dextran removal during sugar manufacture. *Bioresource Technology*. 115, 2-7.
28. Divya Prakash, **Nawani, N. N.** and Kapadnis, B. P. (2011) Indigenous and recombinant chitinases as biocontrol agents against plant pathogens: a comparative study. *Pest Technology*, Global Science Books, UK. pp 26-32.
29. **Nawani, N.N.**, Divya Prakash and B. P. Kapadnis. (2010) Extraction, purification and characterization of an antioxidant from marine waste using protease and chitinase cocktail. *World Journal of Microbiology and Biotechnology* 26, 1509-1517.
30. Sathe, S. J., **Nawani, N. N.**, Dhakephalkar, P. and Kapadnis, B. P. (2007) Antifungal lactic acid bacteria with potential to prolong shelf life of fresh vegetables. *Journal of Applied Microbiology* 103, 2622-2628.
31. **Nawani, N. N.** and Kapadnis, B. P. (2005) Optimization of chitinase production using statistics based experimental designs. *Process Biochemistry* 40, 651-660 (Rated in Top 25 articles by Scopus).
32. **Nawani, N. N.** and Kapadnis, B. P. (2004) Production dynamics and characterization of chitinolytic system of *Streptomyces* sp. NK1057, a well equipped chitin degrader. *World Journal of Microbiology and Biotechnology* 20, 487-494.
33. **Nawani N. N.** and Kapadnis, B. P. (2003) Chitin degrading potential of bacteria from extreme and moderate environments. *Indian Journal of Experimental Biology* 41, 248-254.
34. **Nawani, N. N.**, B. P. Kapadnis, A. D. Das, A. S. Rao and Mahajan, S. K. (2002) Purification and characterization of a thermophilic and acidophilic chitinase from *Microbispora* sp. V2. *Journal of Applied Microbiology* 93, 965-975.
35. **Nawani, N. N.** and Kapadnis, B. P. (2001) One-step purification of chitinase from *Serratia marcescens* NK1, a soil isolate. *Journal of Applied Microbiology* 90, 803-808.

Publications (Invited Book Chapters)

36. Priti Yewale, Aminur Rahman, Noor Nahar, Anandakumar Saha, Jana Jass, Abul Mandal and **Neelu Nawani** (2016) Sources of metal pollution, global status and conventional bioremediation practices. In Metal-microbe interactions and bioremediation: Principles and applications for toxic metals. Ed. Surajit Das, CRC Press, Taylor and Francis.
37. Aminur Rahman, Noor Nahar, **Neelu Nawani** and Abul Mandal (2016) Investigation on arsenic accumulating and transforming bacteria for potential use in bioremediation of arsenics. In Metal-microbe interactions and bioremediation: Principles and applications for toxic metals. Ed. Surajit Das. CRC Press, Taylor and Francis.
38. Aparna B. Gunjal, Vrushali Gadekar, **Neelu N. Nawani**, Balasaheb P. Kapadnis (2014) Agro-industry byproducts value addition: a review. In Advances in Biotechnology. IK International Publishing House Pvt. Ltd. Eds N. N. Nawani, M. B. Khetmalas, P. N. Razdan and Ashok Pandey. Pages 76-90.
39. **Neelu Nawani** (2013) Chitinases and Chitinase-like proteins: Ubiquity and potential in therapeutics. AsiaTech Publishers. Edited by R. S. Singh and Ashok Pandey.

40. Divya Prakash, **Nawani, N. N.** and Kapadnis, B. P. (2012) Microbial mining of value added products from seafood waste and their applications. In: Microorganisms in Environmental Management. Eds: T. Satyanarayana, B. N. Johri and Anil Prakash. Springer Publications. pp 315-333, DOI: 10.1007/978-94-007-2229-3_15.
41. Desale, P. Y., **Nawani, N. N.**, Viren Konde and M. B. Khetmalas (2012) Technologies and challenges for nitrogen fixation in Graminaceae. In: Soil Microbiology and Biotechnology, Ed. Miransari M., Nova publishers, USA.
42. Deshmukh, A. A., **Nawani, N. N.**, Khetmalas, M. B. and P. N. Razdan (2012) Soil Micronutrients: role in plant growth and Integrated Nutrient Management systems. In: Soil Microbes and Ecosystem Health, Ed. Miransari M., Chapter 4, Nova publishers, USA. pp 73-91.
43. Divya Prakash, **Nawani, N. N.** and Kapadnis, B. P. (2009): Chitin: a target for biological control of agricultural pests. In: Role of Biocontrol Agents for Disease Management in Sustainable Agriculture. Research India Publications. Eds. Ponnuragan, P and Deepa M. pp 456-468.
44. **Nawani, N. N.**, M. S. Shejul, A. Y. Al-Mahdi and Kapadnis, B. P. (2006): Bioactive potential of actinomycetes from India and Saudi Arabia. In: Biotechnological Applications of Microorganisms, Eds. Maheshwari, D. K. and Dubey, R.C. I. K. International Pvt. Ltd., India, pp 161-180.
45. **Nawani, N. N.** and Kapadnis, B. P. (2005): Diversity of chitinases and their industrial potential. In: Microbial Diversity: Current Perspectives and Potential Applications, Eds. Satyanarayana, T. and Johri, B. N. I. K. International Pvt. Ltd., India, pp 719-740.
46. **Nawani, N. N.**, Thakkar, A. P., Patil, N. N. and Kapadnis, B. P. (2004): Diversity of chitinolytic systems of bacteria. In: Biotechnological approaches for sustainable development, Eds. Reddy, M. S. and Khanna, S. Allied Publishers, India, pp 133-140.
47. **Nawani N. N.**, Augustine, S. K. and Kapadnis B. P. (2002): Biodiversity amongst actinomycetes for their chitinolytic potential. In: Microbial Diversity: Status and potential applications, Eds. Tiwari, S. C. and Sharma, G. D. Scientific Book Centre, Guwahati, India.
48. Shejul, M. S., Deshpande, M. V., Chaudhari, P. K., Patil, N. N., **Nawani N. N.** and Kapadnis, B. P. (2000): Chitinase from aquatic *Streptomyces* sp. In: Microbes: Agriculture, Industry and Environment, Eds. Maheshwari, D. K., Dubey, R.C., Prasad, G and Navneet Bishen Singh Mahendra Pal Singh, Dehradun, India, pp 19-28.
49. **Nawani N. N.** and Kapadnis, B. P. (2000): Microbial chitinases and their potential in plant disease control. In: Microbial Biotechnology for Sustainable Development and Productivity, Ed. Rajak, R. C. Scientific Publishers, Jodhpur, India, pp 129-139.
50. **Nawani N. N.** and Kapadnis, B. P. (1999): Cyclodextrinase activity of a natural isolate of alkalophilic *Bacillus*. In: Biotechnology of microbes and sustainable utilization. Ed. Rajak, R. C. Scientific Publishers, Jodhpur, India, pp 216-222.
51. **Nawani N. N.** and Kapadnis, B. P. (1998): Target directed screens for antibiotics acting on bacterial cell wall. In: Selected Topics in Biotechnology, Ed. Deshmukh, A. M. PAMA Publications, India, pp 70-89.

Full papers in Conference Proceedings

52. Waghmode MS, PS Gaikwad, AB Gunjal, **NN Nawani**, BP Kapadnis and NN Patil (2015) Oil cakes, the solid waste for the production of value-added antimicrobial compounds. Proceedings of the international conference on solid wastes 2015: knowledge transfer for sustainable resource management, HongKong SAR, China. 19-23 May 2015. pp 495-498.
53. Desale Prithviraj, Prakash Divya, Keyur Patel, Rupali Aursang, **Nawani Neelu**, Kapadnis Balasaheb, Khetmalas Madhukar and Mandal Abul (2012) Biosorption of Heavy Metals by Actinomycetes for Treatment of Industrial Effluents. UMT 11th International Annual Symposium on Sustainability Science and Management, Terengganu, Malaysia. 9 to 11 July 2012.
54. Ankit Saxena, Megha Iyer, Nidhi Vishal, S. V. Pawar, S. S. Pathak, A. D. Salagare, A. Deshmukh, **N. N. Nawani** and G. D. Tandon (2009) Biofuel production from lignocellulosic residues by segregated saccharification and fermentation. Proceedings of Climate Change and Challenges in Biodiversity Conservation, Pune, India. 11-12th Dec 2009.
55. P. Pradhan, S. V. Pawar, S. S. Pathak, A. D. Salagare, A. Deshmukh, **N. N. Nawani** and G. D. Tandon (2009) Utility of lignocellulosic and marine waste for enhancing growth of flowering plants. Proceedings of Climate Change and Challenges in Biodiversity Conservation, Pune, India. 11-12th Dec 2009.
56. Malhotra A. **Nawani N. N.**, Singh A., S. V. Pawar, Prakash D., Terdalkar S. and G. D. Tandon (2009) Studies on microbial diversity of mangrove ecosystem of Ratnagiri. Proceedings of Climate Change and Challenges in Biodiversity Conservation, Pune, India. 11-12th Dec 2009.
57. Prakash D., **N. N. Nawani** and B. P. Kapadnis (2009) Application of a chitinolytic phosphate solubilizing bacterium for plant growth promotion. Proceedings of Climate Change and Challenges in Biodiversity Conservation, Pune, India. 11-12th Dec 2009.
58. Ankit Saxena, Megha Iyer, Nidhi Vishal, **N. N. Nawani** and G. D. Tandon (2009) Comparative studies on pretreatment methods employed for the saccharification of lignocellulosic residues. Proceedings of Indo-Italian Conference in Emerging Trends in Waste Management Technologies, Pune, India. 3-4th Dec 2009.
59. Divya Prakash, **N.N.Nawani** and B.P. Kapadnis (2009) Isolation and characterization of a phosphate solubilizing chitinolytic bacterium from soil and its potential application as a bioinoculum. Proceedings of Indo-Italian Conference in Emerging Trends in Waste Management Technologies, Pune, India. 3-4th Dec 2009.
60. Ghorpade, D., **Nawani, N. N.**, V.G. Gadekar and Kapadnis, B. P. (2008) Determination of gross composition and characterization of shrimp biowaste in comparison with different types of processed chitins. Indo-Italian Conference on Green and Clean Environment, Pune, India. 20-21st March 2008.
61. Gadekar, V. G., **Nawani, N. N.** and Kapadnis, B. P. (2008) Recycling of whey for development of plant growth promoting bioinocula. Indo-Italian Conference on Green and Clean Environment, Pune, India. 20-21st March 2008.

Popular Science articles

62. Genome studies of a soil bacterium, a potential candidate for removing arsenic from contaminated water. Published in Atlas of Science on October 22, 2015.

Books/Journal volumes edited

63. **Neelu Nawani**, M. B. Khetmalas, P.N. Razdan, Ashok Pandey (2015) Book on “Advances in Biotechnology”, Chapters 1 to 13, pages 241, ISBN: 9789384588090 Nov 2014 (print version 2015) IK International Publishing House Pvt. Ltd., India.
64. Sofiane Ghorbel, Noomen Hmidet and **Neelu Nawani** (2015) Recent Development in Production and Biotechnological Application of Microbial Enzymes, Biomed Research International, Volume 2015.
65. **Neelu Nawani**, Ashok Pandey, Samir Khanal and Parmeswaran Binod (2014) Special issue on Advances in Biotechnology and Bioinformatics. Indian Journal of Experimental Biotechnology, 52 (11).
66. **Neelu Nawani**, Ashok Pandey, Emm M Papamichael and K Madhavan Nampoothiri (2014) Special issue on Advances in Biotechnology & Bioinformatics. Indian Journal of Biotechnology, 13 (3).
67. **Neelu Nawani**, P. Binod, A. A. Koutinas, Feroz Khan and Ashok Pandey (2014) Special issue on Advances in Biotechnology and Bioinformatics. Bioresource Technology, Volume 165.
68. Madhukar Khetmalas, Ashok Pandey, P. Gunasekaran, **Neelu Nawani**, Shuchi Nagar (2013) Abstract book on “International conference on Advances in Biotechnology and Bioinformatics and X convention of BRSI” pages 300, ISBN: 9788192661919 Nov 2013, DPU Publications, Pune
69. **Neelu Nawani**, Bertrand Aigle, Abul Mandal, Manish Bodas, Sofiane Ghorbel and Divya Prakash (2013) Actinomycetes: Role in Biotechnology and Medicine. BioMed Research International, Volume 2013.

Patents: 05

1. A method for removal of metals from aqueous solutions. Indian patent 17/MUM/2015, Indian patent office journal publication dated 29 Jan 2016, page 4908.
2. A method for removal of metals from aqueous solutions using bio-adsorbents. PCT/IB2016/050358, WIPO publication number WO 2016/125041 A1 dated 11 Aug 2016.
3. A biological air purifier and a method thereof. Indian patent 201621009457, Indian patent office journal publication dated 15 April 2016, page 14254.
4. A biological air purifier and a method thereof. PCT/IB2016/052528.
5. A probiotic formulation and a method thereof. Indian patent 1778/MUM/2015, Indian patent office journal publication dated 5 Aug 2016, page 55977.

Gene sequence submissions at NCBI, USA: 266

1. 16S rDNA sequences: 87
2. Gene sequences of clones (shot-gun library and PCR based cloning): 08
3. Whole genome sequence (shot-gun) of *Lysinibacillus* B1-CDA: 171

Technical Abstracts/Oral/Poster presentations out of India

1. Waghmode MS, PS Gaikwad, AB Gunjal, NN Nawani, BP Kapadnis and NN Patil (2015) Oil cakes, the solid waste for the production of value-added antimicrobial compounds. International conference on solid wastes 2015: knowledge transfer for sustainable resource management, 19-23 May 2015, HongKong SAR, **China**
2. Rupali Aursang, Desale P, Nawani N. N., Aminur Rahman, Noor Nahar, Kapadnis B. P, Khetmalas M. B. and Mandal A (2014) Morphological changes in actinomycetes on exposure to toxic heavy metals. IJAS Conference, 31 March to 3 April 2014, Paris, **France**.
3. Neelu Nawani, Akshay Binayake, Rupali Aursang, Sadiya Nagi, Supriya Kore, Amol Raut, Sofiane Ghorbel, Noomen Hmidet and Madhukar Khetmalas (2014) Studies on actinomycetes form selected arid regions of India. 25^{ème} Forum International des Sciences Biologiques et de Biotechnologie. 25 to 27 March 2014, Hammamet, **Tunisia**.
4. Divya Prakash, Rupali Aursang, Tushar Sahasrabuddhe, Madhukar Khetmalas, Abul Mandal, Cecilia Eriksson and Neelu Nawani (2014) Algae: Sequesters of flue gas from cook-stoves. 25^{ème} Forum International des Sciences Biologiques et de Biotechnologie. 25 to 27 March 2014, Hammamet, **Tunisia**.
5. Noor Nahar, Neelu N. Nawani, Jana Jass, Prithviraj Desale, Balu P. Kapadnis, Khaled Hossain, Ananda K. Saha, Sibdas Ghosh, Abul Mandal (2013) Discovery of a novel soil borne bacterium with a potential for arsenic bioremediation from contaminated water. 12th International UFZ-Deltares Conference on Groundwater-Soil-Systems and Water Resource Management. April 16-19, 2013, Barcelona, **Spain**. (2nd prize).
6. Desale Prithviraj, Prakash Divya, Keyur Patel, Rupali Aursang, Nawani Neelu, Kapadnis Balasaheb, Khetmalas Madhukar and Mandal Abul (2012) Biosorption of Heavy Metals by Actinomycetes for Treatment of Industrial Effluents. UMT 11th International Annual Symposium on Sustainability Science and Management, Terengganu, **Malaysia**. 9 to 11 July 2012.
7. Malhotra A., Nawani N. N., Singh A., Pawar S.V., Prakash D., Terdalkar S. and G. D. Tandon (2010) Studies on prospective bioinoculum for the sustenance of mangroves for prevention of Tsunami. International Congress of Chemistry and Environment. **Thailand**. 21-23rd Jan 2010 (**Best paper award**).

Technical Abstracts/Oral/Poster presentations in India

8. Aminur Rahman, Noor Nahar, Neelu Nawani, Jana Jass, Sibdas Ghosh, Björn Olsson, Abul Mandal (2016) Genome analysis of Lysinibacillus B1-CDA, a bacterium that accumulates arsenics. International Conference on “Innovative trends in chemical, physical and biological sciences 2016” AM college, University of Pune, 9-10 Feb 2016, Pune.
9. Manisha Junnarkar, Prasad Thakare, Jana Jass, N. N. Nawani (2016) Isolation and screening of Lactic acid bacteria for bioactive potential International Conference on “Innovative trends in chemical, physical and biological sciences 2016” AM college, University of Pune, 9-10 Feb 2016, Pune.

10. Vavle, Priti P. Yewale, A. Mandal, N.N. Nawani and J. Jass (2016) Studies on the prevalence of multidrug resistant bacteria, correlation among the physico-chemical parameters, occurrence of heavy metals in Mula River, Pune International Conference on “Innovative trends in chemical, physical and biological sciences 2016” AM college, University of Pune, 9-10 Feb 2016, Pune.
11. Neeta G. Wagle, Sagrika Chugh, Prasad Thakare, T. Sahasrabudhe, A. Mandal, C. Eriksson, and N. N. Nawani. (2016) Comparative studies on indoor air quality and its toxic effects due to use of cook-stoves in rural Pune. International Conference on “Innovative trends in chemical, physical and biological sciences 2016” AM college, University of Pune, 9-10 Feb 2016, Pune. (**Gold medal**)
12. P.M. Thakare, M.V. Junnarkar, J. Jass, A. Mandal and N.N. Nawani (2016) Antioxidant studies of lactic acid bacteria isolated from plant sources. International Conference on “Innovative trends in chemical, physical and biological sciences 2016” AM college, University of Pune, 9-10 Feb 2016, Pune.
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15. T.Sapatnekar, R. Mane, N.Nawani and C.V. Rode (2016) Studies on production of secondary metabolites from actinomycetes. International Conference on “Innovative trends in chemical, physical and biological sciences 2016” AM college, University of Pune, 9-10 Feb 2016, Pune.
16. D. Prakash, N.N. Nawani and B.P. Kapadnis (2016) Enzymatic bioproduction of low molecular weight N-acetylated chitin oligosaccharides and evaluation of their remedial potential. International conference on “Innovative trends in chemical, physical and biological sciences 2016” AM college, University of Pune, 9-10 Feb 2016, Pune.
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23. Divya Prakash, Neeta Salgaonkar, N. N. Nawani, B. P. Kapadnis (2014) In vitro comparative studies on antioxidative potential of N-acetylated chitooligosaccharides. International Conference on Emerging Trends in Biotechnology 2014, Jawaharlal Nehru University, New Delhi, 6-9 Nov 2014, JNU, New Delhi
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 35. Monica Prasad, Rupali Aursang, Nawani Neelu, Kapadnis Balasaheb, Khetmalas Madhukar and Mandal Abul (2012) Effect of heavy metals on mycelial growth and sporulation in actinomycetes. International Conference on Industrial Biotechnology (ICIB-2012) Punjabi University, Patiala, Nov 21-23, 2012, Patiala, Punjab.
 36. Divya Prakash, Vishal Mahale, Ashok Bankar, Neelu Nawani, Smita Zinjarde, Balasaheb Kapadnis (2012) Green synthesis of colloidal gold nanoparticles by *Streptomyces* sp. NK52 and its anti-lipid peroxidation activity. International Conference on Industrial Biotechnology (ICIB-2012) Punjabi University, Patiala, Nov 21-23, 2012, Patiala, Punjab.
 37. Shakuntala Pillai, Neelu Nawani, Madhukar Khetmalas(2012) A Dual Purpose Biological Model for Oxidation of Sulphide Waste and Generation of Electricity. Omics publishing group, International Biotechnology Conference, 13-15 Sep, 2012, Hyderabad.
 38. Rupali Aursang, Monica Prasad, Nawani Neelu, Kapadnis Balasaheb, Khetmalas Madhukar and Mandal Abul (2012) Effect of heavy metals on morphology of actinomycetes. Omics Publishing group, International Biotechnology Conference, 13-15 Sep, 2012, Hyderabad.
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44. Desale Prithviraj, Singh Sukrit, Thakar Bhavik, Nawani Neelu, Kapadnis Balasaheb, Mandal Abul and Khetmalas Madhukar (2011) Growth promotion of halophytes mediated by plant hormones active under salt stress. New Horizons In Biotechnology 2011. NIIST, Trivandrum, Nov 21-24 2011.
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48. Aishna Singh, Mickey Shah, Amir Ali, Sameer Terdalkar and N. N. Nawani (2011) Studies on the ecology of mangrove ecosystem at Ratnagiri, India. National Seminar on Frontiers in Biotechnology and Bioinformatics, Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Pune, India. 12th Feb 2011.
49. Anika Mehta, Urmil Shah, Uma Maheswari and N. N. Nawani (2011) Isolation of halotolerant chitinolytic bacteria from mangrove swamps. National Seminar on Frontiers in Biotechnology and Bioinformatics, Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Pune, India. 12th Feb 2011.
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