

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** (2015-present): Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Dr. D. Y.
Patil Vidyapeeth, Tathawade, Pune.
2. **Associate Professor** (2011 –2015): Dr. D. Y. Patil Biotechnology and Bioinformatics Institute,
Dr. D. Y. Patil Vidyapeeth, Tathawade, Pune.
3. **Assistant Professor** (2008 –2011): Dr. D. Y. Patil Biotechnology and Bioinformatics Institute,
Dr. D. Y. Patil Vidyapeeth, Tathawade, Pune.
4. **Scientist and PI** (2006-2008): University of Pune, Pune, India (Primary role: Research and
Teaching)
5. **Research Associate** (2003- 2006): University of Pune, Pune, India (Primary role: Teaching and
Research)
6. **Lecturer** (2002-2003): University of Pune, Pune, India (Primary role: Teaching and Research)
7. **Course Coordinator**, AM College, Pune (1996- 2002)
8. **Recognised guide for Ph.D.** in Microbiology (University of Pune, Pune) and Biotechnology (Dr.
D. Y. Patil Vidyapeeth, Pune).

Research Interest: Environmental and Health Biotechnology

Awards, Honors and Fellowships:

1. Gandhian Young Technology Innovation Award 2018, **SRISTI, BIRAC-GYTI, Department of Biotechnology and National Innovation Fund, India** as a mentor for the innovation “A multipurpose low-cost biological air purifier” under socially relevant innovation (one of 23 awards selected out of 3000 entries) at hands of President of India Shri Ram Nath Kovind.
2. Linnaeus-Palme exchange teacher to University of Skövde, Sweden 2016, **Swedish Council of Higher Education and Swedish International Development Cooperation Agency, Sweden.**
3. Award for “Carving gender balanced leadership” 2016, **Sandvik Company, Pune, India** on International Women’s Day
4. Best Researcher Award for the year 2014, **Dr. D. Y. Patil Vidyapeeth, Pune, India.**
5. Best Researcher Award for the year 2012, **Dr. D. Y. Patil Vidyapeeth, Pune, India.**
6. Professor Awtar Krishan Prize in Flow Cytometry, **National Centre for Biological Sciences (NCBS), Bangalore, India.** 2011
7. Young Scientist Fellowship (SERC), **Department of Science and Technology, New Delhi.** India. 2006-2008
8. 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.
9. Senior Scholarship (Science), **Lady Tata Memorial Trust, Mumbai, India, 1999-2001**
10. Junior Research Fellowship, **Lady Tata Memorial Trust, Mumbai, India, 1997-1999**
11. Lila Poonawalla Fellowship, **Lila Poonawalla Foundation, India, 1997**
12. Doctoral Fellowship, **University of Pune, Pune, India, 1996**

Research Grants:

- 1) **Department of Biotechnology, Government of India, April 2018-March 2020.** Opportunities to explore microbial diversity for industrially important microbial products. Grant value: **Rs. 8.01 crores**
- 2) **BIRAC, Department of Biotechnology, Government of India, July 2018-Jun 2020.** A multipurpose low cost biological air purifier. Grant Value **Rs. 15 lakhs** as mentor.
- 3) **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 4.9 million** (Sweden PI: Dr. Jana Jass, Örebro University)
- 4) **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 2.1 million** (Sweden PI: Dr. Cecilia Eriksson and Dr. Abul Mandal, University of Skövde)
- 5) **Swedish International Development Cooperation Agency, Sweden, Dec 2010- Dec 2013,** Bioremediation of toxic metals and other pollutants for protecting human health and ecosystem. Grant value **SEK 4.5 million** (Sweden PI: Dr. Abul Mandal, University of Skövde)
- 6) **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. Grant value **Rs. 27.39 lakhs**

- 7) **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. Grant value **Rs. 26 lakhs**
- 8) **Department of Science and Technology**, Government of India, Sep 2011-Aug 2014. A Bioelectrochemical system for sequestration of carbon dioxide. Grant value **Rs. 38 lakhs**
- 9) **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. Grant value **Rs. 13.32 lakhs**
- 10) **Department of Biotechnology**, Government of India, 2006-2009, Development of processes for production and downstream processing of food enzymes and their applications. Grant value **Rs. 25.86 lakhs**
- 11) **Dr. D. Y. Patil Vidyapeeth, Pune**, March 2013- March 2016, Propagation and flowering of orchids using artificial soil abatement. Grant value **Rs. 3.5 lakhs**
- 12) **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 Grant value **Rs. 3.0 lakhs**
- 13) **Dr. D. Y. Patil Vidyapeeth, Pune**, Jan 2016- Dec 2017, Screening of lactic acid bacteria for characteristic human and plant probiotic properties. Grant value **Rs. 13.40 lakhs**
- 14) **Dr. D. Y. Patil Vidyapeeth, Pune** July 2018-Jun 2020, Influence of chemical contaminants in natural water bodies on the emergence of antibiotic resistance in *Escherichia coli*. Grant value **Rs. 20 lakhs**
- 15) **Dr. D. Y. Patil Vidyapeeth, Pune** April 2018-Mar 2019, Management of biological waste generated on campus at Tathawade, Grant value **Rs. 3.14 lakhs**

Memberships:

- Full Member of Microbiology Society, London, UK (Membership No. C018754)
- Association of Microbiologists of India
- Fellow of International Congress of Chemistry and Environment
- Life Member- Indian Women Scientists Association
- Life Member- Biotech Research Society of India and Secretary, BRSI-DYPBBI unit
- Member of National Advisory Committee of Biotech Research Society India
- Executive member of Asian PGPR Society, India Chapter

Short term and Long term trainings:

1. Training at Quality Control Dept., Serum Institute of India Ltd., **Pune**, India (2000).
2. Anna University and Spinco-Biotech, "Bioprocess Engineering", **Chennai**, India (2002).
3. DNA sequencing at Bhabha Atomic Research Centre, **Mumbai**, India (2002).
4. National Institute of Virology, "Ethics and Guidelines in Animal Experimentation", **Pune**, India (2002).
5. Sardar Patel University, "Tools and Techniques in Biological Research", **Gujarat**, India (2003).
6. Biotech Consortium of India Ltd., "Management in IPR", **Pune** (2009)
7. SGIPGMS, "Group Workshop", **Lucknow**, India by DST, Govt. of India (2009).

8. National Centre for Biological Sciences, “Flow Cytometry Workshop” at C-CAMP, **Bangalore** (2011).
9. 6th Indian STEPs and Business Incubator's Association Meeting, 2012, **Pune** (2012).
10. Training on Immunohistochemistry and Immunofluorescence at University Medical Centre, Mannheim, University of Heidelberg, **Germany** (2013).
11. Workshop on “Good clinical practices” by MGM Medical College, **Mumbai** (2013).
12. Workshop on “Good clinical practices” by Tata Memorial Hospital, **Mumbai** (2016).

Invited Speaker/resource person and presentations at international level (Few selected only):

1. Invited to deliver a session lecture at International Conference on “Current Trends in Bioenergy and its Applications (ICCTBA 2017)” on 3rd and 4th February 2017 at Progressive Education Society’s Modern college of arts, science & commerce, Shivajinagar, **Pune**, India.
2. Invited to deliver a plenary lecture and chair a session at national conference on “Recent trends and Opportunities in Life Sciences 2017” held at Waghire College, Saswad during 24-25th Jan 2017, **Pune**, India.
3. Nominated on the National Advisory Committee and invited to Chair a technical session on “Biocatalysis and Biotransformations” at International Conference on Current Trends in Biotechnology at VIT University, Vellore, India, during 8th Dec 2016 to 10th Dec 2016, **Vellore**, India.
4. 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, **Pune**, India
5. Invited speaker at International conference “New Horizons in Biotechnology 2015” during Nov 22 to 25, 2015 at **Trivandrum**, India
6. 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**.
7. Technical presentation: Waghmode MS, PS Gaikwad, AB Gunjal, NN Nawani, BP Kapadnis and NN Patil. 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**.
8. Plenary Speaker at 25th Forum International des Sciences Biologiques et de Biotechnologie. 25 to 27 March 2014, Hammamet, **Tunisia**.
9. Technical presentation: Neelu Nawani, Akshay Binayake, Rupali Aursang, Sadiya Nagi, Supriya Kore, Amol Raut, Sofiane Ghorbel, Noomen Hmidet and Madhukar Khetmalas, Studies on actinomycetes form selected arid regions of India. 25ème Forum International des Sciences Biologiques et de Biotechnologie. 25 to 27 March 2014, Hammamet, **Tunisia**.
10. Technical presentation: Divya Prakash, Rupali Aursang, Tushar Sahasrabuddhe, Madhukar Khetmalas, Abul Mandal, Cecilia Eriksson and Neelu Nawani (2014) Algae: Sequesters of flue gas from cook-stoves. 25ème Forum International des Sciences Biologiques et de Biotechnologie. 25 to 27 March 2014, Hammamet, **Tunisia**.
11. Technical presentation: Rupali Aursang, Desale P, Nawani N. N., Aminur Rahman, Noor Nahar, Kapadnis B. P, Khetmalas M. B. and Mandal A. Morphological changes in actinomycetes on exposure to toxic heavy metals. IJAS, 31 March to 3 April 2014, Paris, **France**.
12. Coordinator and Speaker for Workshop on “Metal Menace”, Dec 20, 2013, **Pune**, India
13. Coordinator and Speaker for Workshop on “COPD: persuasions on diagnosis and prevention”, Nov

29, 2013, **Pune**, India

14. Coordinator and Speaker for Workshop on “Diversity of actinomycetes in India and Tunisia: a geographic perspective”, Nov 28, 2013, **Pune**, India
15. Resource person at workshop on “Anthropogenic pollution” at University of Skovde, May 29-30, 2013, **Sweden**.
16. Technical presentation: 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).
17. 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, **Sweden**.
18. University of Patiala, Punjab on “Chitinase and Chitinase-like proteins: ubiquity and potential in therapeutics” ICIB 2012, Nov 2012, **Punjab**.
19. Desale Prithviraj, Prakash Divya, Keyur Patel, Rupali Aursang, Nawani Neelu, Kapadnis Balasaheb, Khetmalas Madhukar and Mandal Abul, Biosorption of Heavy Metals by Actinomycetes for Treatment of Industrial Effluents. UMT 11th International Annual Symposium on Sustainability Science and Management, Terengganu, 9 to 11 July 2012, **Malaysia**.
20. University of Skovde, Sweden on “Chitin, Chitinases and chitooligosaccharides: Diversity and applications” May 2011, **Sweden**
21. University of **Pune**, Academic Staff College Refresher course in Life Sciences on “Role of statistics based designs in optimization of fermentation parameters” Jan 2011, **Pune**, India.
22. Chairperson at National Congress on “Bioinoculants for sustainable agriculture (BSA-2010)” Feb 2010 at PSGVP Mandal’s Arts, Science and Commerce College, **Shahada**, India.
23. Technical presentation: Malhotra A., Nawani N. N., Singh A., Pawar S.V., Prakash D., Terdalkar S. and G. D. Tandon. Studies on prospective bioinoculum for the sustenance of mangroves for prevention of Tsunami. International Congress of Chemistry and Environment. 21-23rd Jan 2010 **Thailand**. (Best paper award).
24. Chairperson, National Conference on Climate Change and Challenges in Biodiversity, Fergusson College, **Pune**, India.
25. Resource speaker, Kolhapur Institute of Technology, Kolhapur, India on “Karyotyping and FISH”. **Kolhapur**, India.
26. Resource Person at National Workshop on “Biology and Biotechnology of Actinomycetes” at B.A.M.U subcentre, **Osmanabad**, India.

Patents: 05

1. A method for removal of metals from aqueous solutions. Indian patent 17/MUM/2015 dated 03/01/2015 Indian patent office journal publication date 29 Jan 2016 page 4908.
2. A method for removal of metals from aqueous solutions using bio-adsorbents. PCT/IB2016/050358 dated 25 Jan 2016, WIPO publication number WO 2016/125041 A1 dated 11 Aug 2016.
3. A method for removal of metals from aqueous solutions using bio-adsorbents. US Patent Application No. 15548526 dated August 03, 2017.
4. A biological air purifier and a method thereof. Indian patent 201621009457 dated 18/03/2016 Indian patent office journal publication date 15 April 2016 page 14254.
5. A biological air purifier and a method thereof. PCT/IB2016/052528 dated 04/05/2016, WIPO publication number WO/2017/158403 dated 21 Sep 2017.

6. A probiotic formulation and a method thereof. Indian patent 1778/MUM/2015 dated 09 April 2015
Indian patent office journal publication date 05 Aug 2016 page 55977.

Research Papers/Publications:

1. A Binayke, S Ghorbel, N Hmidet, A Raut, A Gunjal, A Uzgare, N Patil, M Waghmode, **N Nawani** (2018) Analysis of diversity of actinomycetes from arid and saline soils at Rajasthan, India. *Environmental Sustainability*. In press.
2. Manisha V. Junnarkar, Prasad M. Thakare, Priti P. Yewale, Aminur Rahman, Jana Jass, Abul Mandal, **Neelu N. Nawani** (2018) Evaluation of probiotic potential of Lactic acid bacteria isolated from different sources in western India. *Food Biotechnology*. In press.
3. Waghmode M. S., A. B. Gunjal, **N. N. Nawani** and N. N. Patil (2018) Management of floral waste by conversion to value-added products and their other applications: A review. *Waste and Biomass Valorization*. 9(1) 33-43. 2016 online version
4. Eeshan Pundalik, Sakshi Gore, Salagare Amol, **Nawani Neelu** and Tandon G D (2017) Agricultural crop residue: A potent source for future Fuel. *International Journal of Advanced Research in Science and Engineering*, 6(12): 1183-1192.
5. Nahar N, Rahman A, **Nawani N**, Ghosh S, Mandal A (2017) Phytoremediation of arsenic from the contaminated soil using transgenic tobacco plants expressing ACR2 gene of *Arabidopsis thaliana*. *Journal of Plant Physiology*. 218:121-126.
6. Nahar N, Rahman A, Ghosh S, **Nawani N**, Mandal A (2017) Functional studies of AtACR2 gene putatively involved in accumulation, reduction and/or sequestration of arsenic species in plants. *Biologia*. 72(5): 520-526.
7. **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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. Neeta Salgaonkar, Divya Prakash, **N. N. Nawani** and B. P. Kapadnis (2015) Comparative studies on ability of *N*-acetylated chitoooligosaccharides to scavenge reactive oxygen species and protect DNA from oxidative damage. *Indian Journal of Biotechnology*, 14: 186-192
14. 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.
15. 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.
 16. 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.
 17. Prakash Divya, **Nawani NN**, Kapadnis BP (2014) Chitinases: Ubiquity and Potential in Medicine. *Journal of Chitin and Chitosan Science*. 2: 1-15(15)
 18. 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.
 19. 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.
 20. 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.
 21. 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
 22. Divya Prakash and **Neelu Nawani** (2014) A rapid and improved technique for scanning electron microscopy of actinomycetes. *Journal of Microbiological Methods*. 99: 54-57.
 23. Noor Nahar, Aminur Rahman, Maria Moœ, 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.
 24. 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.
 25. **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
 26. **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
 27. **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
 28. **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.
 29. 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.

30. 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.
31. 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.
32. 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.
33. 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.
34. 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.
35. **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.
36. 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.
37. **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).
38. **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.
39. **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.
40. **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.
41. **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)

42. 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.
43. 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.

44. 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.
45. **Neelu Nawani** (2013) Chitinases and Chitinase-like proteins: Ubiquity and potential in therapeutics. AsiaTech Publishers. Edited by R. S. Singh and Ashok Pandey.
46. 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.
47. 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.
48. 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.
49. 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.
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Full papers in Conference Proceedings

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59. 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.
60. 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.
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64. 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.
65. 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.
66. 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.
67. 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

68. 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

69. **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.
70. Sofiane Ghorbel, Noomen Hmidet and **Neelu Nawani** (2015) Recent Development in Production and Biotechnological Application of Microbial Enzymes, Biomed Research International, Volume 2015.
71. **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).
72. **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).
73. **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.
74. 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
75. **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.

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

Events organized/coordinated:

1. **Organizing Secretary**, “Industry-Academia Conclave” during 23-24 Feb 2018 organized by Dr. D. Y. Patil Biotechnology and Bioinformatics Institute.
2. **Organizing Secretary**, National Symposium on “Recent Advances in Modern Biology and Biotechnology” during 16-17 March 2017 organized by Dr. D. Y. Patil Biotechnology and Bioinformatics Institute.
3. **Coordinator** for “Lifecycle of Patents: Idea to Industry”; April 7, 2016; DPU, Pune
4. **Coordinator** for International Workshop cum review meet “Metal Menace”; Dec 20, 2013; Pune
5. **Coordinator** for International Workshop cum review meet “COPD: persuasions on diagnosis and prevention”; Nov 29, 2013; Pune
6. **Coordinator** for International Workshop cum review meet “Diversity of actinomycetes in India and Tunisia: a geographic perspective”; Nov 28, 2013; Pune
7. **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
8. **Coordinator** for International Workshop cum review meet “Impact of anthropogenic pollution on human health and ecosystem”; Dec 5, 2012; Pune
9. **Treasurer** for 13th Indo-US Flow Cytometry Symposium; Oct 4-5, 2012; Pune
10. **Coordinator** for International Workshop cum review meet “Pune Water pollution: Status and remedies”; Dec 09, 2011; Pune
11. **Organizing Secretary** for 12th Indo-US Flow Cytometry Workshop; Oct 19-20, 2011; Pune

12. **Organizing Secretary** for National Seminar on Frontiers in Biotechnology and Bioinformatics; 12 Feb 2011; Pune
13. **Coordinator** for Exuberance 2010- student gathering at Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Pune.
14. **Coordinator** for Bionovate 2008 - student gathering at Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Pune.
15. **Core Team Member** for Samagam I and II (2009 and 2010) - a fund raising program for Lila Poonawalla Foundation.
16. **Project team member** in “Abhigyan” for educating economically deprived school children.

Technical Abstracts/Oral/Poster presentations in India

1. Priti P. Yewale, Aishwarya Shridhar, Prajakta A. Hatekar, A. Mandal, N. N. Nawani and J. Jass (2017) Molecular typing of antibiotic resistant bacteria isolated and identified as ESBL producers from polluted water reservoirs. Canadian Journal of Biotechnology. Volume 1, Special Issue, Page 117.
2. Prajakta A. Hatekar, Sushrut Kulkarni, Priti P. Yewale, A. Mandal, N.N. Nawani and J. Jass (2017) Genotypic characterization of multi-drug resistant coliform bacteria: Insights into their mechanisms of antibiotic resistance using Whole Genome Sequencing. Canadian Journal of Biotechnology. Volume 1, Special Issue, Page 119.
3. Manisha Junnarkar, Vedant Borghate, Pranjali Karkera, Alquama Lokhandwala, Jana Jass, Abul Mandal, N. N. Nawani (2016) Phylogenetic analysis and probiotic potential of Lactic acid bacteria isolated from different plant sources. NextGen Genomics, Biology, Bioinformatics and Technologies (NGBT) Conference, 3rd to 5th October 2016, Maradu, Kochi, Kerala.
4. Nishtha Pathak, A. Sridhar, S. Kulkarni, A. Pawar, S. Awate, A. Vavle, P. Yewale, F. Khan, A. Mandal, N. N. Nawani, J. Jass (2016) Whole genome sequencing and identification of antibiotic resistance genes in coliforms isolated from natural water bodies. NextGen Genomics, Biology, Bioinformatics and Technologies (NGBT) Conference, 3rd to 5th October 2016, Maradu, Kochi, Kerala.
5. Gaurav Limaye, Karishma Badekar, Priti Yewale, Aminur Rahman, Noor Nahar, NeeluNawani, Jana Jass, Khaled Hossain, Ananda Saha, Sibdas Ghosh, Björn Olsson and Abul Mandal (2016) Genomic analysis of *Lysinibacillus sphaericus* B1-CDA, an arsenic resistant bacterium with bioremediation potential. NextGen Genomics, Biology, Bioinformatics and Technologies (NGBT) Conference, 3rd to 5th October 2016, Maradu, Kochi, Kerala.
6. Akshay Binayake, Shivani Navalakha, Tanusha S., Priti Yewale, Manisha Junnarkar, Neeta Salgaokar, Sofiane Ghorbel, Noomen Hmidet, N. N. Nawani (2016) Metagenomic analysis to study diversity and bioactive potential of actinomycetes from arid regions and salt lakes. NextGen Genomics, Biology, Bioinformatics and Technologies (NGBT) Conference, 3rd to 5th October 2016, Maradu, Kochi, Kerala.
7. Manisha Junnarkar, Prasad Thakare, Jana Jass, Abul Mandal, Neelu Nawani (2016) Evaluation of probiotic properties of Lactic acid bacteria isolated from different sources. International Conference on Current Trends in Biotechnology (ICCB), 8-10 December 2016, VIT, Vellore.
8. Awate S, Priti P. Yewale, Abul Mandal, Neelu Nawani, Jana Jass (2016) Studies on the prevalence of multidrug resistant coliforms in natural water bodies. International Conference on Current Trends in Biotechnology (ICCB), 8-10 December 2016, VIT, Vellore.
9. Neeta Wagle, S. Chugh, T. Sahasrabudhe, A. Mandal, C. Eriksson, and N. N. Nawani (2016) Towards Algal Biomass Pellets-an alternate biomass for cook-stoves: its role in improving indoor air quality of rural Pune. International Conference on Current Trends in Biotechnology (ICCB), 8-10 December 2016, VIT, Vellore.

10. 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.
11. 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.
12. 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.
13. 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**)
14. 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.
15. S. Awate, A. Mandal, J. Jass, N. Nawani (2016) Identification of strains and determination of multi-drug resistance in isolates obtained from 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.
16. T. Sanjay, Ghorbel. S, Hmidet. N and N. Nawani (2016) Challenges associated with the isolation of non-streptomycete actinomycetes. International Conference on “Innovative trends in chemical, physical and biological sciences 2016” AM college, University of Pune, 9-10 Feb 2016, Pune. (**Silver medal**)
17. 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.
18. 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.
19. Waghmode M.S., Jagtap P.D., Nawani N.N. and Patil N.N. (2016) Bioremediation of plastic waste by thermophilic actinomycetes. International Conference on “Innovative trends in chemical, physical and biological sciences 2016” AM college, University of Pune, 9-10 Feb 2016, Pune.
20. Waghmode MS, Biradwade VD, Niklaje PB, Mali SD, Mule SV, Gunjal AB, Nawani NN, NN Patil (2015) Bioleaching of electronic waste. International Conference on “New Horizons In Biotechnology 2015”, 22 to 25 Nov 2015, Trivandrum. (**1st prize**)
21. S Chugh, N A Salgaonkar, V Vishwakarma, T Sahasrabudhe, A Mandal, C Eriksson and N N Nawani (2015) Algal biomass pellets: A possible remedy to reduce indoor air pollution from cook-stoves. International Conference on “New Horizons In Biotechnology 2015”, 22 to 25 Nov 2015, Trivandrum.
22. A Vavle, S. Awate, G. Limaye, A. Mandal, N. Nawani, J. Jass (2015) Evaluation of the physico-chemical parameters, occurrence of heavy metals and antibiotic resistance of Enterobacteria in the

Mula River, Pune. International Conference on “New Horizons In Biotechnology 2015”, 22 to 25 Nov 2015, Trivandrum.

23. N. A. Salgaonkar, N. N. Nawani and B.P. Kapadnis (2015) N-acetylated chitoooligosaccharides: a possible preventive measure to reduce the toxic effects of indoor air pollution. International Conference on “New Horizons In Biotechnology 2015”, 22 to 25 Nov 2015 , Trivandrum.
24. Akshay Binayke, Nawani N. N, Sofiane Ghorbel, Noomen Hmidet, Madhukar Khetmalas (2014) Diversity study of actinomycete assemblages in extreme habitats. International Conference on Emerging Trends in Biotechnology 2014, Jawaharlal Nehru University, New Delhi, 6-9 Nov 2014, JNU, New Delhi
25. Divya Prakash, Neeta Salgaonkar, N. N. Nawani, B. P. Kapadnis (2014) In vitro comparative studies on antioxidative potential of N-acetylated chitoooligosaccharides. International Conference on Emerging Trends in Biotechnology 2014, Jawaharlal Nehru University, New Delhi, 6-9 Nov 2014, JNU, New Delhi
26. Madkaikar C., B. Kapadnis, N.Nawani, M. Khetmalas, V. Gadekar (2013) Use of pulp and paper mill effluent for growth of actinomycetes isolated from root rhizosphere. International Conference on Advances in Biotechnology & Bioinformatics 2013 & X Convention of Biotech Research Society, Dr. D. Y. Patil Vidyapeeth, November 25-27, 2013, Pune, India.
27. Gadekar V., P. Mukarjee, N. Nawani, B. Kapadnis.(2013) Development of low cost technology for phosphate mobilizing acidophilic actinomycetes bioinocula. International Conference on Advances in Biotechnology & Bioinformatics 2013 & X Convention of Biotech Research Society, Dr. D. Y. Patil Vidyapeeth, November 25-27, 2013, Pune, India.
28. Akshay Binayake, Supriya Kore, Sofiane Ghorbel, Noomen Hmidet, Madhukar Khetmalas, Neelu Nawani (2013) Isolation of Actinomycetes from arid and semi arid habitats. International Conference on Advances in Biotechnology & Bioinformatics 2013 & X Convention of Biotech Research Society, Dr. D. Y. Patil Vidyapeeth, November 25-27, 2013, Pune, India.
29. Puja Pushp, Maithili Nanadikar, Shilpa Pathak, G.D. Tandon, N.N. Nawani. (2013) Synthesis of ecofriendly biobased packaging material to enhance shelf life of foods. International Conference on Advances in Biotechnology & Bioinformatics 2013 & X Convention of Biotech Research Society, Dr. D. Y. Patil Vidyapeeth, November 25-27, 2013, Pune, India.
30. Kritika Gupta, Jaydeep Bedse, Pathak S S, Salagare A.D, N.N. Nawani and G.D. Tandon (2013) Antimicrobial Activity of Some Herbs and Partially Digested Vegetable Oils against the Cariogenic Streptococci Isolated from Dental Plaque Samples. International Conference on Advances in Biotechnology & Bioinformatics 2013 & X Convention of Biotech Research Society, Dr. D. Y. Patil Vidyapeeth, November 25-27, 2013, Pune, India.
31. Priyanka Pradhan, Fahama Riyaz, Salagare A.D, Tandon G.D, N.N. Nawani. (2013) Conservation of Orchids by Artificial Soil Abatement using Agriculture and Marine Waste. International Conference on Advances in Biotechnology & Bioinformatics 2013 & X Convention of Biotech Research Society, Dr. D. Y. Patil Vidyapeeth, November 25-27, 2013, Pune, India.
32. Prakash D., N.N. Nawani and B. P. Kapadnis (2013) Enzymatic resurgence of antioxidative N-acetyl chitotriose and chitotetraose from chitin waste. International Conference on Advances in Biotechnology & Bioinformatics 2013 & X Convention of Biotech Research Society, Dr. D. Y. Patil Vidyapeeth, November 25-27, 2013, Pune, India.
33. Desale P, Nawani N N, Kapadnis B P, Khetmalas M B and Mandal A (2013) Cadmium and lead metal complexes of multi-drug resistant bacteria as potential target for antibacterial studies. International Conference on Advances in Biotechnology & Bioinformatics 2013 & X Convention of Biotech Research Society, Dr. D. Y. Patil Vidyapeeth, November 25-27, 2013, Pune, India.
34. Aasawari Pawar, N. N. Nawani, M. B. Khetmalas (2013) A dual purpose microbial fuel cell for sequestration of sulphide and carbon dioxide with concomitant electricity generation. International

Conference on Advances in Biotechnology & Bioinformatics 2013 & X Convention of Biotech Research Society, Dr. D. Y. Patil Vidyapeeth, November 25-27, 2013, Pune, India.

35. Divya Prakash, N. N. Nawani, M. Bodas, M. Prakash, M.B. Khetmalas, A. Mandal and C. Eriksson (2013) A study on indoor air pollution in rural India and remedies to reduce toxic effects of smoke arising due to burning of biomass fuels. International Conference on Advances in Biotechnology & Bioinformatics 2013 & X Convention of Biotech Research Society, Dr. D. Y. Patil Vidyapeeth, November 25-27, 2013, Pune, India.
36. D. Prakash, P. Sharma, M. Prakash, N.N. Nawani, M. Bodas, G.D.Tandon and M.B.Khetmalas. (2013) Isolation and management of diverse algal strains for remedial sequestration of Carbon dioxide. International conference on Algal Biorefinery: A potential Source of Food, feed biofuels and biofertilizers. Jan 10-12, 2013, IIT, Kharagpur.
37. 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.
38. 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.
39. 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.
40. 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.
41. Prithviraj Desale, Rupali Aursang, Neelu Nawani, Balasaheb Kapadnis, Abul Mandal (2012) Bioremediation of toxic metals and other pollutants for protecting human health and ecosystem- A Partner Driven Cooperation between India and Sweden. Workshop on Bioremediation at University of Skovde, Sweden. 28 May 2012.
42. Ankit Jinager, Syed Mohsin, Rathod Nidul, Syed Sartaj, Nawani N. N., Vrushali Gadekar, G. D. Tandon, M. B. Khetmalas, Sangeeta Ahiwale and B. P. Kapadnis. (2012) Preliminary studies on bacteriophages for removal of pathogenic *Escherichia coli* from water bodies. National Conference on Water Purification Technologies & Management InDACON-2012. SIES, Mumbai, Feb 8-9, 2012. **(Best poster award)**
43. Shakuntala Pillai, Mehul Patel, Neelu Nawani, Madhukar Khetmalas (2012) A dual purpose biological model for oxidation of sulphide waste and generation of electricity. National Conference on Environmental problems and their remedial measures. CCS University, Meerut. March 24-26, 2012.
44. Rupali Aursang, Desale Prithviraj, Keyur Patel, Nawani Neelu, Divya Prakash, Kapadnis Balasaheb, Khetmalas Madhukar and Mandal Abul (2012) Screening of actinomycetes for ability to remove heavy metals from polluted water bodies. CCS University, Meerut. March 24-26, 2012.
45. Neha N.Patil, Meghmala S.Waghmode, Pallavi S.Gaikwad, Neelu N. Nawani and B. P. Kapadnis (2012) Rare Actinomycetes *Microbispora* sp. V2: Potential Biocontrol Agent of southern blight of

soybean(*Glycine max*) caused by *Sclerotium rolfsii*. Indo- Sri Lanka International Conference on “Agro Biotechnology for Sustainable Development (ABSD- 2012) Colombo, Sri Lanka. March 12-13, 2012.

46. 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.
47. Thakar Bhavik and Nawani Neelu (2011) Biotransformation of starch for the targeted production of oligosaccharides by cloning of amylase gene from *Microbispora* sp. New Horizons In Biotechnology 2011. NIIST, Trivandrum, Nov 21-24 2011.
48. Divya Prakash, D. Ghorpade, N. N. Nawani, B. P. Kapadnis (2011) Bioconversion of seafood waste by *Streptomyces* sp. for the targeted production of N-acetyl chitooligosaccharides and evaluation of their antilipid peroxidation potential. New Horizons In Biotechnology 2011. NIIST, Trivandrum, Nov 21-24 2011.
49. Patel Bhargav, Priyanka Singh, Priyanka Jaiswal, Sayali Joseph, Nawani N. N., G. D. Tandon, M. B. Khetmalas and P. N. Razdan (2011) Enrichment of bacteria for targeted remediation of heavy metals and organic pollutants. S.R. Rathi Science Mahavidyalaya, Washim, Oct 14-16, 2011.
50. 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.
51. 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.
52. Prithviraj Desale and N. N. Nawani (2011) Studies on plant growth promoting activities of halophilic bacteria. National Seminar on Frontiers in Biotechnology and Bioinformatics, Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Pune, India. 12th Feb 2011. (**1st prize**).
53. Alok Singh, Ashwani Mishra, Pooja Sharma, A. D. Salagare, N. N. Nawani and G.D. Tandon (2011) Production of bioethanol from agricultural wastes. National Seminar on Frontiers in Biotechnology and Bioinformatics, Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Pune, India. 12th Feb 2011.
54. N. N. Nawani, Divya Prakash and B. P. Kapadnis. (2011) Bioconversion of seafood waste by *Bacillus* sp. NK395 for the production of Single Cell Protein (SCP) and chitobiose. Microbes in Wastewater & Waste Treatment, Bioremediation and Energy Production, Birla Institute of Technology and Science (BITS) – Pilani, Goa, India. 24-27th Jan 2011.
55. Divya Prakash, N. N. Nawani and B. P. Kapadnis (2011) Characterization of crude chitinases from an actinomycete DNK-333 isolated from Kuruva Island mangrove, Kerala. National conference on Frontiers in Life Sciences. S. P. College, Baramati, India. 11-13th Jan 2011.
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