

*Navin Dharmaji Dandi*

नवीन धर्माजी दंडी



**Assistant Professor**

Dept. of Microbiology, School of Life Sciences  
Kavayitri Bahinabai Chaudhari North Maharashtra University (KBCNMU)  
(Formerly North Maharashtra University), Jalgaon (M.S.) INDIA - 425 001  
Email: navineo@gmail.com, nddandi@nmu.ac.in  
Ph: +91-257-2258424 (EPABX: 215)  
Fax: +91-257-2258403, 2258406 (PP); Mob. +91-9423951444

☞ **Educational Qualifications:**

◆ **Ph.D (Microbiology) (July 2017)**

- ▶ Thesis title : *Biotechnological studies on novel ethanologenic microbe for improved ethanol production*
- ▶ University : Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

◆ **Graduate Aptitude Test in Engineering (GATE) 2005 (Life Sciences) jointly organized by IIT, India**

- ▶ Scored : 84.43 percentile (323) All India Rank : 1025

◆ **Joint CSIR-UGC NET Examination (Life Sciences) for Lectureship December 2003 (M.Sc. pre-final semester)**

◆ **M.Sc. (Microbiology) 2002-2004**

- ▶ University : North Maharashtra University
- ▶ Institute : School of Life Sciences, KBCNMU, Jalgaon Class: First

◆ **B.Sc. (Microbiology) 1999-2002**

- ▶ University : North Maharashtra University
- ▶ College : M. J. College, Jalgaon Class: Second

◆ **Other Academic Qualifications:**

- ▶ Post-Graduate Diploma in Management (under MBA curriculum), IGNOU, New Delhi, December 2017
- ▶ Diploma in Management (under MBA curriculum), IGNOU, New Delhi, June 2012.
- ▶ Maharashtra State Certification in Information Technology (MS-CIT), Govt. of Maharashtra, Mar-2003. Scored: 80.00 %.
- ▶ 'Network Centered Computing Curriculum' certification from NIIT, Jalgaon Center under "9th Bhavishya Jyoti Scholarship Awards", Nov-2000. Scored: 75.80 %

☞ **Teaching Experience: >16 years (Post-Graduate level)**

✦ **Current employment: Since March 2005- till date**

Assistant Professor in Microbiology at School of Life Sciences, KBCNMU, Jalgaon (M.S.) India

✦ **Past experience: June 2004-March 2005**

CHB-Lecturer in Microbiology at School of Life Sciences, KBCNMU, Jalgaon (M.S.) India

☞ **Subjects taught:**

- ▶ Biophysical Chemistry; Bioinstrumentation; Computer Application in Biology; Basic and Advanced Molecular Biology and 'omics; Genetic Engineering; Biostatistics and Bioinformatics; Extremophiles; Microbial Technology; Plant-Microbe Interaction; Microbial Metabolism; Microbial Diversity; Applied and Environmental Microbiology, etc.

### **☞ Research Interests:**

- ▶ Microbial Technology
  - ⊛ 1<sup>st</sup> and 2<sup>nd</sup> generation bioethanol production (Ph.D. research theme)
  - ⊛ Chitosan and Biosurfactant production from cost-effective substrates
  - ⊛ Solid state fermentation for biomass degrading enzyme production
- ▶ Molecular phylogeny (microbial community analysis, typing and evolutionary relationship studies through DNA sequence analysis & Bioinformatics)
- ▶ Biodegradation and Bioremediation (high gravity distillery spent wash effluent, nitroaromatics)
- ▶ Biological nitrogen fixation mediated through haloalkalitolerant extremophilic microbes (PGPR studies for saline and salt affected croplands)
- ▶ Microbial process development for food, feed and energy and Microbial Bioprospecting

### **☞ Awards/Fellowships/prizes received:**

- ▶ Received 'Indian National Science Academy' (INSA) visiting fellowship award for a duration of 2 months at National Center for Cell Sciences (NCCS), Pune during Dec-2008-Jan-2009.
- ▶ Recipient of first prize at Avishkar-2010 research competition in 'Pure Sciences' category and selected at 2<sup>nd</sup> round in state-level competition.
- ▶ Recipient of 'Best Poster' for two posters at National Conference on Biotechnology for All- NCBFA 2010 scheduled during 29-30 Dec, 2010.
- ▶ Co-recipient of 2<sup>nd</sup> prize at zonal (NMU) level at Avishkar-2007 research competition, also selected in 2<sup>nd</sup> round at state-level competition.
- ▶ Participated and recipient of second prize for poster presentation on "*Organic manure – a vital bioresource for sustainable agriculture*" in S&T sponsored workshop on "*Biotechnology for Agriculture*", organized for farmers of *Khandesh* region, 9<sup>th</sup> March, 2004.
- ▶ Recipient of first rank in Mooljee Jaitha College, Jalgaon and 3<sup>rd</sup> in North Maharashtra University (NMU), Jalgaon in University level Louis Pasteur Microbiological contest – 2001 jointly conducted by Dept. of Microbiology, R.C.P.A.S.C. College, Shirpur, Dist. Nandurbar and Dept. of Microbiology, NMU, Jalgaon during T.Y.B.Sc, Feb 2002.

### **☞ Ph.D. Students (02 Microbiology + 02 Biotechnology\*):**

Sr. No.	Name of the Student and Address	Category	Subject Title	Date of Registration	Status
1.	Mr. Jape Prasad Vishwanath	Open	Studies on microbial biodegradation of nitroaromatic pesticide (pendimethalin) [NMU/11/Ph.D./Micro. /1004/2014; dated 09-02-2015]	09-02-2015	Ongoing
2.	Ms. Kankariya Raksha Ashokchand	Open	Studies on bacterial production of 2, 4 diacetylphloroglucinol for biocontrol [NMU/11/Ph.D./Micro. /online/2014; dated 11.09.2014]	03-04-2014	Ongoing
3.	Mr. Gavit Pavan Mohan	ST	Biotech input for cultivation of crop in salt affected soils	06-05-2013	Ongoing
4.	Vacant	Vacant	Vacant	Vacant	Vacant

\*Willingness letter submitted

### **☞ Post-Graduate Project Dissertations Guided: 27**

### **☞ Research Publication Analysis: (up to Nov 2021)**





Scopus Author ID	Paper published in peer reviewed Journal		Chapters in Books	Citations	Thomson- Reuters Web of Science Impact Factor	H-index	i10 index
	National	International					
36738970700	2	5	4	154	Range 1.1 – 3.9	5	4

### ☞ Research publications:

Sr.	Authors	Title	Journal	Year	Vol.(issue), page	JCR Impact (2019-21)
1.	Dandi BN, <b>Dandi ND</b> , Chaudhari AB and Chincholkar SB	Biodegradation of high gravity distillery effluent using microbes from different ecological habitats	Environ. Engg. Manag. J.	2015	14(12), 2871-2880	1.186
2.	Patil MS*, <b>Dandi ND*</b> , Kulkarni MV and Chaudhari AB (*Equal contribution as first author)	Biotreatment of melanoidin containing distillery spent wash effluent by free and immobilized <i>Aspergillus oryzae</i> MTCC 7691	Water Air Soil Pollut.	2013	224:1755	2.574
3.	<b>Dandi ND</b> , Dandi BN and Chaudhari AB	Bioprospecting of thermo- and osmo-tolerant fungi from mango pulp-peel compost for bioethanol production	Anton. Leeuw. Int. J. Gen. Mol. Microbiol.	2013	103(4): 723-736	2.707
4.	Kundu D, Hazra C, <b>Dandi ND</b> and Chaudhari AB	(2013) Biodegradation of 4-nitrotoluene with biosurfactant production by <i>Rhodococcus pyridinivorans</i> NT2: metabolic pathway, cell surface properties and toxicological characterization	Biodegradation	2013	24(6): 775-793	3.909
5.	Hazra C, Kundu D, Ghosh P, Joshi S, <b>Dandi N</b> and Chaudhari A	Screening and identification of <i>Pseudomonas aeruginosa</i> AB4 for improved production, characterization and application of a glycolipid biosurfactant using low-cost agro-based raw materials	J. Chem. Technol. Biotechnol.	2011	86(2): 185-198	3.174

### National peer reviewed journals: (2)

Sr.	Authors	Title	Journal	Year	Vol. (issue), pp	ISSN
1.	Shelar RD, <b>Dandi ND</b> , Dandi BN and Chaudhari AB	Isolation and screening of di-nitrogen fixing microbes from extreme habitat	<i>J. Adv. Sci. Tech.</i>	2010	13(2): 1-7	0971-9563
2.	Dandi BN, <b>Dandi ND</b> , Shelar RD, Chaudhari AB and Chincholkar SB	Biological decolorisation of high concentration distillery spent wash using newly isolated microbial strains	<i>J. Adv. Sci. Tech.</i>	2010	13(2): 73-78	0971-9563

### Book chapters: (3 International + 1 National)

Sr.	Authors	Chapter	Book	Editors	(Year) PP.	Publisher
1.	Kankariya RA, Chaudhari AB, Gavit PM, <b>Dandi ND</b>	2, 4-Diacetylphloroglucinol: A Novel Biotech Bioactive Compound for Agriculture	Microbial Interventions in Agriculture and Environment	Singh DP, Gupta VK and Prabha R	(2019) Vol.1, pp. 419-452	Springer, Singapore
2.	Gavit PM, Chaudhari AB, Shelar RD, <b>Dandi ND</b>	Microbial Augmentation of Salt-Affected Soils: Emphasis on Haloalkalitolerant PGPR	Microbial Interventions in Agriculture and Environment	Singh DP, Gupta VK and Prabha R	(2019) Vol.2, pp. 255-302	Springer, Singapore
3.	Chaudhari AB, <b>Dandi ND</b> , Vadnere NC, Patil	Bioethanol: a critical appraisal	Microorganisms in Sustainable	Satyanarayana T., Johri BN	(2012) 793-	Springer, Germany

<b>Book chapters: (3 International + 1 National)</b>						
Sr.	Authors	Chapter	Book	Editors	(Year) PP.	Publisher
	UK and Chincholkar SB		Agriculture and Biotechnology	and Prakash A.	824	
4.	Kundu D, Hazra C, Chaudhari AB, <b>Dandi ND</b> , Vadnere NC, Patil UK, Dandi BN and Shelar RD	Phytoremediation: a novel approach for remediation of hazardous materials	Bioremediation of Wastes and Environmental Laws	Trivedi PC	(2010) 55-93	Avishkar Publishers, Jaipur

<b>Conference Proceedings (International): (01)</b>							
Sr.	Authors	Title	Editors	Conference	PP	Publisher	ISSN
1.	<b>Dandi ND</b> , Vadnere NC, Dandi BN and Chaudhari AB	Fermentative performance of thermo- and osmotolerant ethanologenic yeasts from compost for bioethanol production using high gravity wort	Chiaramonti D and Raina VN	Proc. XIXO ISAF – Intl. Symp. Alcoholic Fuels, Verona, Italy	54	SaySoft Inc., Italy	978-88-7743-369-5

### **NCBI/ GenBank submissions: (77)**

- ▶ Published 77 DNA sequences to International Nucleotide Sequence Database Collaboration (INSDC) of various bacteria, yeast and filamentous fungi after DNA sequencing and bioinformatics phylogenetic analysis. [Accession numbers: FJ788528, HM357878-86, JF715166-201, JF732908-10, JN166084, JQ229775-87, JQ728547, JQ974952, KY861729-31, MN577429-35, MN581674-75]

### **Conference communications (International): (18)**

1. Bhushan Chaudhari\* and **Navin Dandi** (2019) Application of ICTs in Life science courses: Issues and Challenges from Students Perception. In: Proceeding of the 'International Conference on Capacity Building in Higher Education' (ICBHE 2019) under the aegis of CABICIN and Erasmus+, A European Union Funded Initiative organized at Wroclaw University of Science & Technology, Poland during 5-6<sup>th</sup> Sept. 2019. (Oral)
2. Dandi BN<sup>†</sup>, Lomte G, Kulkarni RD, Mishra S. and **Dandi ND\*** (2018) Chitosan nanoparticals synthesis from chitosan produced from thermotolerant *Zygomycete* fungal strain. In: International Conference on Nanotechnology: Ideas, Innovations and Initiatives-2017 (ICN:3L-2017) organized by Centre of Nanotechnology, Dept. of Mechanical & Industrial Engg., IIT Roorkee, Roorkee India during Dec. 6-8, 2017 (Poster)
3. Kankariya RA, Chaudhari AB and **Dandi ND** (2015) Bioefficacy of chemically synthesized 2, 4 diacetylphloroglucinol against plant pathogens. International Conference *Royal Society of Chemistry (RSC)-WIS Symposium, Frontiers of Advances in Chemistry and Technology (FACT-2015)* organized during 11-12<sup>th</sup> Dec., 2015 by School of Chemical Sciences at North Maharashtra University, Jalgaon.
4. **Dandi ND**, Dandi BN, Vadnere NC and Chaudhari AB (2014) High-throughput screening of potential ethanologenic multi-stress tolerant genome shuffling fusants of *Pichia kudriavzevii* for high gravity and lignocellulosic bioethanol production. *Global Sustainable Biotech Congress (GSBC-2014)* scheduled during Dec 01-05, 2014 at North Maharashtra University, Jalgaon, India (Oral)
5. Kankariya RA, Chincholkar SB and **Dandi ND\*** (2014) Isolation and screening of 2,4 DAPG producing bacteria from rhizospheric soil for their biocontrol application in alkaline-saline soils. *Global Sustainable Biotech Congress (GSBC-2014)* scheduled during Dec 01-05, 2014 at North Maharashtra University, Jalgaon, India (Poster)
6. Salunkhe NS, Dandi BN, Gavit P, Rajput DD, Sonawane KS, Sonawane MD, Sonje NA, Wani SS, Patole SM, Padavi LG, Chaudhari AB and **Dandi ND\*** (2014) Co-production of chitosan and corncob hydrolyzing enzymes using solid state fermentation for lignocellulosic bioethanol. *Global Sustainable Biotech Congress (GSBC-2014)* scheduled during Dec 01-05, 2014 at North Maharashtra University, Jalgaon, India (Poster)

7. Dandi BN, **Dandi ND**, Chincholkar SB and Chaudhari AB (2014) Decolorization and detoxification of high gravity distillery spent wash by whole cell immobilized yeast strains. *Global Sustainable Biotech Congress (GSBC-2014)* scheduled during Dec 01-05, 2014 at North Maharashtra University, Jalgaon, India (Poster)
8. Rajendra Shelar, Pavankumar Gavit, **Navin Dandi** and Ambalal Chaudhari (2014) Haloalkalitolerant *Halomonas venusta* RAP3 as a biotech input for cultivation of wheat in salt affected soils. *Global Sustainable Biotech Congress (GSBC-2014)* scheduled during Dec 01-05, 2014 at North Maharashtra University, Jalgaon, India (Oral) [**Awarded with 'Best Oral' prize**]
9. **Dandi ND**, Dandi BN and Chaudhari AB (2014) Genome shuffling for improved ethanol production in high gravity wort by a multi-stress tolerant fusant strain of *Pichia kudriavzevii*. *Intl. Conf. on Global Opportunities for Latest Developments in Chemistry and Technology-2014 (GOLD-CT-2014)* scheduled during Feb 06-08, 2014 at North Maharashtra University, Jalgaon, India (Oral)
10. Dandi BN, **Dandi ND**, Chincholkar SB and Chaudhari AB (2014) Yeast cell immobilization for improved biotreatment of high gravity distillery spent wash. *Intl. Conf. on Global Opportunities for Latest Developments in Chemistry and Technology-2014 (GOLD-CT-2014)* scheduled during Feb 06-08, 2014 at North Maharashtra University, Jalgaon, India (Poster)
11. Shelar RD, **Dandi ND** and Chaudhari AB (2014) Molecular identification of *nif* genes in moderate haloalkaliphilic diazotrophic *Halomonas venusta*, a free-living plant growth promoting rhizobacteria for salt affected soils. *Intl. Conf. on Global Opportunities for Latest Developments in Chemistry and Technology-2014 (GOLD-CT-2014)* scheduled during Feb 06-08, 2014 at North Maharashtra University, Jalgaon, India (Poster)
12. **Dandi ND**, Dandi BN, Shirsath UH and Chaudhari AB (2011) Chitosan production by a zygomycete *Rhizopus microsporus* isolated from fruit-pulp compost and its molecular characterization. *New Horizons in Biotechnology (NHBT-2011)* scheduled during Nov 21-24, 2011 at Trivandrum, Kerala (Poster)
13. Vadnere NC, Vemula AN, **Dandi ND** and Chaudhari AB (2011) Genome shuffling to enhance thermotolerance and ethanol tolerance of *Saccharomyces* spp. *New Horizons in Biotechnology (NHBT-2011)* scheduled during Nov 21-24, 2011 at Trivandrum, Kerala (Poster)
14. Dandi BN, **Dandi ND**, Chaudhari AB and Chincholkar SB (2011) Assessment of fungal cultures for decolorization, BOD and COD reduction of high-gravity distillery spent wash. *New Horizons in Biotechnology (NHBT-2011)* scheduled during Nov 21-24, 2011 at Trivandrum, Kerala (Poster)
15. **Dandi ND**, Vadnere NC, Dandi BN and Chaudhari AB (2011) Fermentative performance of thermo- and osmotolerant ethanologenic yeasts from compost for bioethanol production using high gravity wort. *19<sup>th</sup> International Symposium on Alcohol Fuels (XIX ISAF 2011) and 2<sup>nd</sup> Lignocellulosic Bioethanol' (2LB) Conference* sponsored by European Commission and Brazil scheduled during October 10 - 14, 2011 at the Verona Fiere Congress Center in Verona, Italy. T1.2E (Oral)
16. Dandi BN, **Dandi ND**, Chaudhari AB and Chincholkar SB (2010) Screening and selection of microbes for bio-treatment of high gravity distillery spent wash. *International conference on Genomic Sciences (ICGS-2010), VII<sup>th</sup> convention of Biotech Research Society of India (BRSI) and Indo-Italian Workshop on Industrial and Pharmaceutical Biotechnology (IIWIPB)* scheduled during Nov 12-14, 2010 at Madurai Kamraj University, Madurai, TN, IN. (Poster)
17. **Dandi ND**, Vadnere NC, Chaudhari AB, Gupta AK and Shouche YS (2009) Isolation, screening and molecular characterization of potential thermo- and osmotolerant microbes from fruit pulp compost for bioethanol production. *ETBT: International Conference on Emerging Trends in Biotechnology*, Dec. 4-6, 2009 at Banaras Hindu University, Varanasi. (Poster)
18. Vadnere NC, **Dandi ND** and Chaudhari AB (2007) Screening and isolation of thermo-tolerant ethanologenic microbe from fruit pulp compost. *Proc. Intl. Symp. Adv. Food Biotechnol. Nutri., Biospectrum 2007*, Nov 30-Dec 1, 2007, MACFAST, Thiruvalla, Kerala, India. (Oral)

#### **Conference communications (National/ State/University level): (23)**

1. Raksha Kankariya, Ambalal Chaudhari and **Navin Dandi\*** (2019) Screening for biocontrol and additional PGPR activities of the 2, 4-DAPG Producing microbial strain using invitro assay and field application. In: UGC-SAP, MHRD, TEQIP-III Sponsored One Day National Seminar On Process

- Intensification in Chemical, Food and Allied Industries (PICFAI-2019) at KBCNMU, Jalgaon on March 9, 2019 (**Recipient of 1<sup>st</sup> Prize**)
2. Amritkar HS, Chandwani MP, Sharma RI, Mungad RS, Kankariya RA and **Dandi ND\*** (2019) Post harvest prevention of aflatoxin formation by using extract of *Pseudomonas*. In: UGC-SAP, MHRD, TEQIP-III Sponsored One Day National Seminar on Process Intensification in Chemical, Food and Allied Industries (PICFAI-2019) at KBCNMU, Jalgaon on March 9, 2019.
  3. Amritkar HS, Chandwani MP, Sharma RI, Mungad RS, Kankariya RA and **Dandi ND\*** (2019) 'Pre-Harvest Wilt and Kernel Rot Disease Prevention of Groundnuts and Pulses Using Plant Growth Promoting *Pseudomonas* Sp. Bacteria'. In: National Conference on "Innovations in Environmental and Earth Sciences for Sustainable Future (IEESSF-2019) at SEES, KBCNMU, Jalgaon during Feb. 27-28, 2019.
  4. Raksha Kankariya, Ambalal Chaudhari and **Navin Dandi\*** (2019) Isolation, screening and genotyping of 2, 4-dapg producing microbial strain from salt affected rhizospheric soil. In: National Conference on 'Innovations in Environmental and Earth Sciences for Sustainable Future' (IEESSF-2019) at SEES, KBCNMU, Jalgaon during Feb. 27-28, 2019.
  5. Kankariya RA, Chaudhari AB and **Dandi ND** (2019) District and University-level Avishkar-2018
  6. Amritkar HS and **Dandi ND** (2019) Reservoir of biocontrol agents: Rhizobacteria. At: District, University, State-level Avishkar-2018 (**PG student Recipient of 2<sup>nd</sup> Prize**) and Anveshan-2018.
  7. **Dandi ND\*** and Chaudhari AB (2018) A Comparative account of ethanol production using acid and enzymatically pretreated lignocellulosic biomass by a non-*Saccharomyces* fermentative yeast strains. In: UGC sponsored 2<sup>nd</sup> National Conference on Innovations in Chemistry: Laboratory to Society (ICLS-2018) organized by School of Chemical Sciences, North Maharashtra University, Jalgaon during Mar. 5-6, 2018 (*Oral*)
  8. Dandi BN<sup>†</sup>, Kulkarni RD and **Dandi ND\*** (2018) A green chemistry approach to the production of microbial chitosan biopolymer and studies on its potential applications in paint industry. In: UGC sponsored 2<sup>nd</sup> National Conference on Innovations in Chemistry: Laboratory to Society (ICLS-2018) organized by School of Chemical Sciences, North Maharashtra University, Jalgaon during Mar. 5-6, 2018 (*Poster*)
  9. Kankariya RA<sup>†</sup>, Dandi BN, Chaudhari AB and **Dandi ND\*** (2018) Biocontrol of phytopathogens using synthetic 2, 4-diacetylphloroglucinol. In: UGC sponsored 2<sup>nd</sup> National Conference on Innovations in Chemistry: Laboratory to Society (ICLS-2018) organized by School of Chemical Sciences, North Maharashtra University, Jalgaon during Mar. 5-6, 2018 (*Poster*)
  10. Kankariya RA<sup>†</sup>, Dandi BN, Chaudhari AB and **Dandi ND\*** (2018) Exopolysaccharide production by a moderate haloalkalitolerant multi-stress resistant *Pseudomonas* Spp. suitable for food and medicinal applications. In: TEQIP-III sponsored 7<sup>th</sup> National Conference on Recent Advances in Polymer Technology-2018 (RAPT-2018) organized by University Institute of Chemical Technology, North Maharashtra University, Jalgaon during Feb. 16-17, 2018 (*Poster*).
  11. Kankariya RA, **Dandi ND** and Chaudhari AB (2017) Rhizobacteria: Tapping the untapped reservoir of biocontrol agents. In: University-level Avishkar-2017 organized by North Maharashtra University, Jalgaon on Dec. 29<sup>th</sup>, 2017.
  12. Shelar RD, **Dandi ND** and Chaudhari AB (2012) Screening and Isolation of IAA producing and diazotrophic haloalkalitolerant *Halomonas venusta* from mangrove eco-system. National Conference on Environmental Surveillance and Natural Resource Management – ESNRM 2012 scheduled during 9-10<sup>th</sup> Jan, 2012 at School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon. (*Oral*)
  13. **Dandi ND**, Shirsath UH, Kadam MS and Chaudhari AB (2011) Screening, isolation and molecular characterization of thermotolerant *Rhizopus microsporus* for cellulase and chitosan production. *Avishkar 2010* at North Maharashtra University, Jalgaon on 23-24<sup>th</sup> Dec, 2010 (zonal competition) and MUHS, Nasik on 21-23 Jan, 2011. [**Awarded with 1st prize in Pure Sciences category at Zonal (University) level and selected in the 2nd round (ca. best-five) at state-level competition**]
  14. Dandi BN, **Dandi ND**, Chaudhari AB and Chincholkar SB (2010) Biological treatment of high gravity distillery spent wash effluent by yeast from compost. National Conference on Biotechnology for All-



NCBFA 2010 scheduled during 29-30 Dec, 2010 at North Maharashtra University, Jalgaon. **[Awarded with 'Best Poster' prize]**

15. Shelar RD, **Dandi ND** and Chaudhari AB (2010) Isolation and screening of dinitrogen- fixing microbes from extreme environments. National Conference on Biotechnology for All- NCBFA 2010 scheduled during 29-30 Dec, 2010 at North Maharashtra University, Jalgaon. **[Awarded with 'Best Poster' prize]**
16. Dandi BN, **Dandi ND**, Chaudhari AB and Chincholkar SB (2010) Biological treatment of distillery spent wash effluent by bacteria from spent wash contaminated habitat. *Avishkar 2010* at North Maharashtra University, Jalgaon on 23-24th Dec, 2010 (zonal competition). (Poster)
17. **Dandi ND**, Vadnere NC, Chaudhari AB, Gupta AK and Shouche YS (2010) Biodiversity assessment of fruit pulp compost for thermo- and osmotolerant ethanologenic microbes. 'Expanding Panorama of Microbiology' scheduled during Feb 26-27, 2010 at JBSPS's C. K. Thakur ACS College, New Panvel. (Oral)
18. Sharma AK, Kothari MM, Zope RK, Sonwane MB, **Dandi ND** (2010) Isolation and screening of polymer degrading yeasts from mango puree for bioethanol production. 'Expanding Panorama of Microbiology' scheduled during Feb 26-27, 2010 at JBSPS's C. K. Thakur ACS College, New Panvel. (Poster)
19. Joshi AP, Jadhav SJ, Tayde KD, Zope DK, Tawade VA, **Dandi ND** (2010) Isolation and Characterisation of xylitol producing yeast from paper industry effluent. 'Expanding Panorama of Microbiology' scheduled during Feb 26-27, 2010 at JBSPS's C. K. Thakur ACS College, New Panvel. (Poster)
20. Dandi BN and **Dandi ND** (2010) Bioconversion of complex agricultural residues for bio-energy production by *Trichoderma reesei* NCIM 1186. Expanding Panorama of Microbiology scheduled during Feb 26-27, 2010 at JBSPS's C. K. Thakur ACS College, New Panvel. (Poster)
21. Dandi BN and **Dandi ND** (2010) Bioconversion of complex lignocellulosic agricultural residues by solid-state fermentation using *Trichoderma reesei* NCIM 1186 cellulases. AMBI: Advances in Microbial Biotechnology and Interdisciplinary Approaches (Jan 22-23, 2010) at M. J. College, Jalgaon (Poster)
22. Vadnere NC, **Dandi ND** and Chaudhari AB (2007) Dynamics of ethanol-tolerant ethanologen from compost for higher ethanol production. *Avishkar 2007* at North Maharashtra University, Jalgaon on 18 - 19<sup>th</sup> December, 2007. **[Awarded 2<sup>nd</sup> prize at Zonal (NMU) level and selected in the 2nd round (ca. best-five) at state-level competition at SNTD, Mumbai]**
23. **Dandi ND**, Patil HR, Sakrikar A, Kingar M (2004) Organic manure – a vital bioresource for sustainable agriculture. In: S&T sponsored Workshop on Biotechnology for Agriculture, organized for farmers of *Khandesh* region at School of Life Sciences, North Maharashtra University, Jalgaon on 9<sup>th</sup> March, 2004. **[Awarded 2<sup>nd</sup> prize]**

#### **Research Projects: (07 = 2 Ongoing + 5 completed)**

Name(s)	Funding agency	Title of the project	Duration (Years)	Amount (₹ Lakhs)	Status
<b>Dr. N. D. Dandi (PI);</b> Prof. Dr. A. B. Chaudhari (Co-PI)	RGSTC, Mumbai	Low-cost plant-growth promoting <i>Pseudomonas</i> Spp. agri- input production and post-harvest preservation of oilseeds	3 years (10 <sup>th</sup> Mar, 2020- 10 <sup>th</sup> Mar, 2023)	5.00 INR	<b>Ongoing</b>
<b>Dr. N. D. Dandi (PI);</b> Prof. Dr. A. B. Chaudhari and Dr. B. L. Chaudhari (Co-PI)	NASI, Prayagraj	Community based training to ST Youth on biomass conversion and utilization for sustainable agriculture, green energy and biotechnomy	3 years (1 <sup>st</sup> Nov, 2018- 31 <sup>st</sup> Mar, 2022)	8.34 INR	<b>Ongoing</b>
R. A. Kankariya (PI) (WOS-A); <b>N. D. Dandi (Project Mentor)</b>	DST (WOS-A), New Delhi	Development of a 2,4 diacetylphloroglucinol producing and plant growth promoting biocontrol formulation	3 years (June, 2015- 2018)	16.500 INR	Completed

Prof. A. B. Chaudhari (PI-India), N.D. Dandi (Co-PI); Dr. V. Koschetkov (PI-Russia), Dr. T. Anokhina, Dr. T. Siunova, Dr. O. Sizova, Dr. I. Kosheleva, Dr. S. Sokolov, Dr. O. Sazonova, Dr. A. Gafarov, Dr. Machulin (Co-PI)	DBT, New Delhi (Indo-Russia joint call in Biotechnology)	New generation nanomaterial and PGPR based bioformulation for yield and nutritional improvement of crops (with G.K.S. Institute of Biochem. and Physiol. of Microorganisms, Russian Academy of Sciences, Russia)	2 years (Nov, 2014-Dec, 2016)	62.384 INR + 5,000 RUB (to collaborators by Russian Academy of Sci.)	Completed
N.D. Dandi (PI) & A. B. Chaudhari (Co-PI)	UGC, New Delhi	Biotechnological investigation of chitosan production by <i>Rhizopus</i> sp. from cost effective lignocellulosic agricultural residue(s)	2 Years (1 July, 2012-30 <sup>th</sup> June, 2014)	5.475 INR	Completed (June 30, 2014)
A. B Chaudhari (PI) & N.D. Dandi (Co-PI)	UGC, New Delhi	Studies on potential ethanologen(s) isolated from fruit-pulp compost for cost-effective ethanol production	2 Years (1 July, 2012-30 <sup>th</sup> June, 2014)	10.171 INR	Completed (June 30, 2014)
<b>Departmental Research Scheme:</b>					
K. S. Vishwakarma (Coordinator) & N.D. Dandi (Deputy Coordinator)	UGC, New Delhi	UGC-SAP-DRS (Phase-III)	5 years (Apr'15-Mar'20)	100.33 INR	Completed

### ☞ **Specialized Training courses/ Workshops/ FDP/ Seminars attended:**

- AICTE -Training and Learning (ATAL) Academy sponsored Five Days Online Faculty Development Programme (FDP) on 'Computer Science and Biology: Impact of Bioinformatics and Molecular Biology on Drug Discovery' during Oct 4-8, 2021 (Scored 80%)
- AICTE -Training and Learning (ATAL) Academy sponsored Five Days Online Faculty Development Programme (FDP) on 'Computer aided drug design in drug discovery' during Sept 6-10, 2021 (Scored 80%)
- AICTE -Training and Learning (ATAL) Academy sponsored Five Days Online Faculty Development Programme (FDP) on 'Leadership and Excellence in Higher Education' during Aug 23-27, 2021 (Scored 78%)
- DST Training Programme on 'Basic and Advanced Proteomics Approaches' at IIT, Bombay (3- 14 Dec. 2018) inclusive of (i) Cancer Proteogenomics Workshop (CPG-2018) sponsored by DST, New Delhi and IUSSTF, USA at IIT, Bombay (6-11 Dec. 2018); (ii) Basics and Advanced Proteomics Approaches (December 3 to 14, 2018); (iii) Trans-Proteomic Pipeline (December 12 to 14, 2018)
- ERASMUS+ CABGIN Consortia Training Programme on 'WP3- Module 3 Personal Development and Intellectual Honesty' under ERASMUS+ (European Union) consortia project CABGIN at KBCNMU, Jalgaon (17-18 Sept. 2018)
- ERASMUS+ CABGIN Consortia Training Programme on 'WP3-Module 2 Assessment and Grading' under ERASMUS+ (European Union) consortia project CABGIN at KBCNMU, Jalgaon (29-30 Aug. 2018)
- ERASMUS+ CABGIN Consortia Training Programme on 'WP3-Module 1 Diversity Management in the Workplace in the Context of HEI' under ERASMUS+ (European Union) consortia project CABGIN at KBCNMU, Jalgaon (19-20 July. 2018)
- Sensitization Workshop 'I for Inclusion' organized by Xavier's School for Visually Challenged (XRCVC), Mumbai, RUSA and KBCNMU, Jalgaon (30<sup>th</sup> March, 2017)
- Workshop on Indian Patenting and Filing Procedures, organized by Rashtriya Uchchar Shiksha Abhiyaan (RUSA), RGNIPM, Nagpur & KBCNMU, Jalgaon (23<sup>rd</sup> August, 2016)
- Workshop on Capacity Enhancement, organized by Saitej Life Training Institute, Nashik and UICT, KBCNMU, Jalgaon (24-25<sup>th</sup> July, 2016)
- Faculty hands-on workshop on LC-MS at SLS, KBCNMU (11-13 March, 2016)



- Faculty Development Programme 'Global Business Foundation Skill' at Infosys BPO Ltd., Hinjewadi, Pune (5- 13 January, 2016)
- One day seminar on 'FTIR Imaging System' organized by IIT, Bombay (27<sup>th</sup> Jan, 2010) Workshop on 'Intellectual Property Rights with Special Reference to Patents' at North Maharashtra University, Jalgaon (9<sup>th</sup> Jan, 2009)
- SPSS 17.0 Faculty Development Program organized by SPSS South Asia and Dept. of Management Studies, North Maharashtra University, Jalgaon (10-11<sup>th</sup> Feb, 2009)
- 'Workshop on Bioinformatics' organized by RCPACS, College, Shirpur (13-14<sup>th</sup> Aug, 2008)
- Workshop on Patent Awareness' organized by North Maharashtra University, Jalgaon (4<sup>th</sup> August, 2008)
- Workshop in the subject of 'FEEL' Teachers Programme at North Maharashtra University, Jalgaon (26 – 28<sup>th</sup> Oct, 2007)
- Workshop on 'Knowledge Discovery in Life Sciences: Tools and Techniques in Bioinformatics' organized by Bioinformatics Centre, University of Pune, Pune (Jan 29- Feb 2, 2007)
- 'National Seminar on Intellectual Property Rights (NSIPR-2005)' at North Maharashtra University, Jalgaon (27-28<sup>th</sup> Sept., 2005)
- S & T sponsored 'Workshop on "Biotechnology for Agriculture"', organized for farmers of Khandesh region, North Maharashtra University, Jalgaon (9<sup>th</sup> Mar, 2004)

#### 🔗 UGC Orientation / Refresher courses:

Sr. No.	Orientation / Refresher Course/ FDP	Name of the Institute	Course Period	Dates	Subject
1.	FDP on " Research Methodology"	UGC-HRDC at Teaching Learning Center Ramanujan College, University of Delhi sponsored by MHRD Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching	14 Days	1.10.2020 to 15.10.2020	Grade A+ (Online mode)
2.	FDP on "Managing Online Classes and Co-Creating MOOCs"	UGC-HRDC at Teaching Learning Center Ramanujan College, University of Delhi sponsored by MHRD Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching	14 Days	20.4.2020 to 6.5.2020	Grade A+ (Online mode)
3.	Short-Term Course (Faculty Development Programme) on Research Methodology (Microbiology)	UGC-HRDC, Savitribai Phule Pune University, Pune organized by School of Computer Science, KBCNMU, Jalgaon	7 Days	17.12.2018 to 23.12.2018	Research Methodology (Microbiology)
4.	Interdisciplinary Refresher Course in Environment Education (ID)	UGC-HRDC, Laxmibai National Institute of Physical Education (Deemed University), Gwalior (MP)	21 Days	22.04.2016 to 12.05.2016	Environment Education (ID) <u>Scored A+</u>
5.	Refresher Course in Environmental Sciences	UGC-ASC, Golden Jubilee Complex, Univ. of Kerala, Kariavattom 695 581, Thiruvananthapuram, Kerala	21 Days	09.05.2009 to 29.05.2009	Environmental Sciences, <u>Scored A+</u>
6.	Orientation course	Dept. of Chemical Sciences, North Maharashtra University, Jalgaon (MS)	28 Days	26.02.2007 to 25.03.2007	General, <u>Scored A+</u>

### **☞ Conferences/ Workshops/ Seminar organizing activities:**

- ▶ Convener, Farmer Workshop 'Community Based Training to ST Youths on Biomass Conversion and Utilization for Sustainable Agriculture, Green Energy and Biotechnomy' A.P. Bal Amrai, Dist. Nandurbar scheduled during 20<sup>th</sup>-23<sup>rd</sup> Nov, 2019
- ▶ Convener, Farmer Workshop 'Community Based Training to ST Youths on Biomass Conversion and Utilization for Sustainable Agriculture, Green Energy and Biotechnomy' A.P. Navagaon (Shitalpada), Dist. Nandurbar scheduled during Feb 27<sup>th</sup> – Mar 2<sup>nd</sup>, 2019
- ▶ Co-organizing Secretary, International conference 'Global Sustainable Biotech Congress' (GSBC-2014) scheduled during Dec 1-5, 2014.
- ▶ Organizing Committee Member (Online registration and distribution), State-level 'Avishkar 2013' Research competition scheduled during 18-19th Oct, 2014.
- ▶ Organizing Committee Member (Atomation), University level 'Avishkar 2013' Research competition (28-29th Dec, 2013).
- ▶ Organizing Committee Member, 'UGC SAP Symposium on Agro-biotechnology' organized by the School of Life Sciences, NMU, Jalgaon (2nd Feb, 2013).
- ▶ Organizing Committee Member (Atomization), University level 'Avishkar 2012' Research competition (13-14th Dec, 2012).
- ▶ Organizing Committee Member, 'UGC-SAP Symposium on Agro-Biotechnology' organized by the School of Life Sciences (12-13th Jan, 2012).
- ▶ Organizing Committee Member (Atomization), University level 'Avishkar 2011' Research competition (28-29th Dec, 2011).
- ▶ Organizing Committee Member and Session host, 'National Conference on Biotechnology for All 2010 (NCBFA-2010) organized by School of Life Sciences, NMU, Jalgaon (29-30 Dec, 2010)
- ▶ Organizing Committee Member, Workshop on 'Hands-on training in Bioinstrumentation', School of Life Sciences, North Maharashtra University, Jalgaon (30-31st July, 2010).
- ▶ Organizing Committee Member, UGC-SAP-DRS Seminar on 'Agro-biotechnology' organized by School of Life Sciences, NMU, Jalgaon (6-7th Mar, 2010)
- ▶ Working Committee Member, Academic flexibility regarding CGPA system at School of Life Sciences, NMU (2009- till date).
- ▶ Organizing Committee Member, 'National Seminar on Genetically Modified Crops : Status , Issues and Awareness' organized by School of Life Sciences, North Maharashtra University, Jalgaon (20-21st Jan, 2009)
- ▶ Organizing Secretary, UGC-sponsored symposium on 'Recent Trends in Abiotic Stress Research' organized by School of Life Sciences, North Maharashtra University, Jalgaon (14th Mar, 2008)
- ▶ Organizing Secretary, UGC-SAP-DRS Seminar-2008 'Recent Trends in Agro-Biotechnology' organized by School of Life Sciences, North Maharashtra University, Jalgaon (20th Feb, 2008)
- ▶ Organizing Committee Member, UGC-SAP-DRS Seminar-2007 organized by School of Life Sciences, North Maharashtra University, Jalgaon (24th Feb, 2007)
- ▶ Organizing Committee Member, UGC-SAP-DRS Seminar-2006 organized by School of Life Sciences, North Maharashtra University, Jalgaon (2-3rd Feb, 2006)
- ▶ Working Committee Member, State-level 'Ashwamedh' sports competition held during Dec. 2006 (Ref. NMU/17/Ashwamedh/454/2006 dated 07 Dec, 2006)
- ▶ Working Committee Member, C.V. Raman Memorial Seminar-2006 organized by North Maharashtra University, Jalgaon on 28th Feb, 2006
- ▶ Organizing Committee Member, National Symposium on 'Developments in Biotechnology: Emerging Trends and Challenges & First BRSI Convention' organized at North Maharashtra University, Jalgaon (25-27, Nov-2004)

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### **☞ Memberships:**

- ▶ Life member, Biotech Research Society of India (BRSI) - LM513
  - ▶ Treasurer, BRSI North Maharashtra University, Jalgaon unit
  - ▶ Life member, Alumni Association of North Maharashtra University, Jalgaon
-

### **International visits:**

- ▶ Participated and presented research work in 'International Symposium on Alcoholic Fuels' (ISAF 2011), Verona, Italy during Oct, 2011.

### **Leadership experience:**

- ▶ Student Coordinator, School of Life Sciences, North Maharashtra University, Jalgaon (2009-14)

### **Noteworthy contribution to University/School/Department:**

- ▶ Working Member of various committees involving University and School-level Extension activities (admission, examination, BoS, local Inquiry, e-*Suvidha*, Examination etc.), Research (State and University-level *Avishkar* research competitions, organization of Seminars, Conferences, Workshops etc.), Cultural, Sports activities and plantation.

### **Other Academic Proficiencies:**

#### ▶ **Bio-techniques & instrumentation:**

##### **Advanced User:**

DNA sequencing (ABI 3730); Chromatography (LC-MS, LC, GC); Spectroscopy (UV-Visible, FT-IR; High-throughput absorbance readers); PCR (primer designing; reaction optimization); Electrophoresis (Agarose; SDS and Native PAGE; Size exclusion- GPC); High-throughput biochemical estimations; Bioinformatics (DNA Sequencing Data analysis- Sequence Quality Control; DNA & Protein Sequence Similarity search- BLAST; Phylogenetic analysis); Basic and advanced Microbiological methods of isolation, culturing, polyphasic phenotypic & genotypic characterization of microbes, bioprospecting and preservation.

##### **Conceptual expertise:**

Working knowledge and Data analysis [GC-MS; High-throughput DNA sequencing; XRD; DSC; FE-SEM; Atomic absorption Spectroscopy; Analytical LC; GC-FAME etc.]

- ▶ **Computer Proficiency** : **Advanced User** (Software and Hardware)  
[Experience and skills-sets of Microsoft Office Suite; Statistical software- Minitab, SPSS, Matlab, Computer Networking- LANs; Web programming; Web publishing; Image processing software- Photoshop, Chemdraw, SigmaPlot; etc.]

### **Supplementary Personal/ Social Information:**

- ▶ **Nationality** : Indian
- ▶ **Languages known** : English, Hindi, Marathi (*Read, Write, Type and Speak*)
- ▶ **Mother tongue** : Marathi
- ▶ **Age** : 41
- ▶ **Gender** : Male
- ▶ **Dependents** : Spouse and 2 sons

### **Professional References:**

- ▶ **Prof. P. P. Patil**, Ex-Vice Chancellor, Kavayitri Bahinabai Chaudhari North Maharashtra University (KBCNMU), PO Box 80, Jalgaon- 425001 (MS) India  
Phone: +91-257-2258401/ 402 (office); Fax: +91-257-2258403  
E.mail: vco@nmu.ac.in
- ▶ **Prof. A. B. Chaudhari** (PhD. Research Supervisor); Ex-Dean, Faculty of Science and Technology, KBCNMU; Professor, Department of Microbiology, School of Life Sciences, KBC North Maharashtra University, PO Box 80, Jalgaon- 425001 (MS) India  
Phone: +91-257-2257425 (office); Fax: +91-257-2258403 (PP; University Registrar Office)  
E. mail: ambchasls@gmail.com
- ▶ **Prof. V. L. Maheshwari**, Former Director, School of Life Sciences, Prof. and Head, Department of Biochemistry, KBC North Maharashtra University, PO Box 80, Jalgaon- 425001 (MS) India  
Phone: +91-257-2257422 (office); Fax: +91-257-2258403 (PP; University Registrar Office)  
E. mail: vlmaheshwari@rediffmail.com, vlmaheshwari@nmu.ac.in