

Dr. Dharmesh N Adhyaru

Assistant Professor
Department of Microbiology
Government Science College
Sector-15, Gandhinagar
Gujarat University, Gujarat-INDIA
E-mail: dharmesh.adhyaru@gmail.com
Contact: (M) +91-7383674161; 9328048896



PROFILE

- ❖ **Date of Birth** : 15th March 1986
- ❖ **Nationality** : Indian
- ❖ **Current Designation** : Assistant Professor (15th July 2016 to Till Date, Contract)

❖ **Academic Qualification (Specialization: Microbiology)**

Sr. No.	Institute/ University	Degree	Year	Rank/Grade/Merit
1	Gujarat Vidyapeeth	Ph. D.	2016	Distinction
2	Gujarat Vidyapeeth	M. Sc.	2010	Distinction & University First Rank
3	Saurashtra University	B. Sc.	2008	First Class

❖ **Startup, Patent & MoUs**

Title of Initiative	Main Title or Department	Uniqueness or Status
Startup Promoter	The Guru Chela: An Education of Your Choice	<ul style="list-style-type: none">• First ever educational media for stakeholders of University• Phase: 1 Initiated
Patent	A Strategically Designed Global Knowledge Sharing Platform	<ul style="list-style-type: none">• Ref. No. 202121040118• Filed & Under process
MoUs (02)	Department of Higher Education, Gujarat State	<ul style="list-style-type: none">• MoU Has Been Approved• Needs implementation
	M & N Virani Science college, Saurashtra University, Rajkot	<ul style="list-style-type: none">• Draft submitted• Needs final approval

❖ **Gujarat State Level Prestigious Duties Performed:**

Sr.No.	Designation and Duty Assigned
1.	State Nodal Officer, Innovation Club , Commissionerate of Higher Education, Gandhinagar, GoG
2.	State Master Trainer, MS Teams for setting up online Education, Commissionerate of Higher Education, Gandhinagar, GoG
3.	NEP Cell Development Officer , CHE, GoG
4.	OSD, COGENT Platform , Grant-In-Aid Colleges, CHE, GoG
5.	Committee Member, Innovative ideas and Start ups , CHE, GoG

❖ **Achievements & Awards:**

Sr.No.	Title of Achievement/Award	University or Body
1	DST- INSPIRE Fellow (JRF & SRF) (2011-2015)	Department of Science & Technology, New Delhi, Govt. Of India
2	M Sc. University First (02 Awards) 2020 1. Shree Ambelal Manibhai Nayak Award 2. Kanchanben Babulal Acharya Award	Gujarat Vidhyapith, Ahmedabad
3	Merit Award (2009-10)	Jawaharlal Nehru Memorial Fund, New Delhi, India

❖ **Unique Academic International Initiatives In Microbioloy & Chemistry**

Sr.No.	Title of Initiative	Status/ Outcome
1.	Microbiology And Microbiologists (MAM) at Facebook	<ul style="list-style-type: none"> • One of the biggest open chain of microbiologists in India • 34,000+ Members in 5 years from 130+ countries
2.	Chemistry & Industrial Chemistry (CIC) at Facebook	<ul style="list-style-type: none"> • Growing chain for chemists in India • 6,000+ Members in 3 years Worldwide

❖ **Research experience** : Seven years (7 yrs) Research + Project + Dissertation

Sr. No.	Year	Program	Title of Thesis	Research Supervisor Or Project Investigator
1	2015-16	B.Sc. students dissertation	Xylanase production and optimization under submerged fermentation using newly isolated bacterial culture	Dr. Dharmesh N Adhyaru
2	2014 to 2015	Project Handled (2 years)	Enzymatic Deconstruction of Agro-Residues for Biotransformation and Biofuel Production Funded By GUJCOST , Gujarat, India.	Dr. Nikhil Bhatt
3	2010 to 2015	Ph. D. Program	Microbial production of Xylanase (S)	Dr. H. A. Modi & Dr. Nikhil Bhatt
4	2009 to 2010	M.Sc. Dissertation	Production of single cell protein by yeast cells under submerged fermentation condition	Dr. Nikhil Bhatt

❖ **Paper, Book and Book chapter Publications:** 06 Research Papers (International)
05 Books (National)
01 Book Chapter (National)

Sr. No.	Title of the paper/ Chapter	Authors	Journal/ Book	Year
1	Introduction to Geomicrobiology (Book)	Dharmesh N Adhyaru	Self Publication ISBN:978-93-5382-419-8 (Raja Ram Mohan Roy)	2019
2	Basics of environment and human life (Book)	Dharmesh N Adhyaru	Self Publication ISBN: 978-93-5321-583-5 (Raja Ram Mohan Roy)	2018
3	Single cell protein production by yeast under SmF (Book)	Dharmesh N Adhyaru & Nikhil S Bhatt	Self Publication ISBN: 978-93-5311-932-4 (Raja Ram Mohan Roy)	2018
4	Current insights on microbial xylanases (Book)	Dharmesh N Adhyaru Nikhil S Bhatt & H. A. Modi	Lambert Academic Publishing	2018
5	Overview: Bacterial xylanases production and optimization (Book)	Dharmesh N Adhyaru Dhara Harsoda &	Lambert Academic Publishing	2017

		Hardika Ukani		
6	Cellulase-free-thermo-alkali solvent-stable xylanase from <i>Bacillus altitudinis</i> DHN8: Over-production through statistical approach, purification and biodeinking/bio-bleaching potential	D.N. Adhyaru , N.S. Bhatt, H.A. Modi, J. Divecha	Biocatalysis and Agricultural Biotechnology (Elsevier:Impact factor 3.28)	2017
7	Isolation, identification and characterization of mercury resistant bacteria from heavy metal contaminated sites of Vapi industrial area	M.P. Dave, D.N. Adhyaru	International Journal of Scientific Progress and Research ISSN: 23494689 Vol. 21 (3)	2016
8	Insight on xylanase from <i>Aspergillus tubingensis</i> FDHN1: Production, high yielding recovery optimization through statistical approach and application	D.N. Adhyaru , J. Divecha, N.S. Bhatt, H.A. Modi	Biocatalysis and Agricultural Biotechnology (Elsevier:Impact factor 3.28)	2016
9	Optimization of upstream and downstream process parameters for cellulase-poor- thermo- solvent xylanase production and extraction by <i>Aspergillus tubingensis</i> FDHN1	Adhyaru, D.N. , Bhatt, N.S., Modi, H.A.	Bioresources and Bioprocessing Vol. 2 (3) (Springer: IF: Tracking)	2015
10	Enhanced production of cellulase-free, thermo-alkali-solvent-stable xylanase from <i>Bacillus altitudinis</i> DHN8, its characterization and application in sorghum straw saccharification	Adhyaru, D.N. , Bhatt, N.S., Modi, H.A.	Biocatalysis and Agricultural Biotechnology Vol. 3(2014), p.182-190 (Elsevier:Impact factor 3.28)	2014
11	Microbial Xylanases(S): Past, Present and Future (Book Chapter)	D.N. Adhyaru , N.S. Bhatt, H.A. Modi	Industrial Microbial Enzymes. Chapter: 3, pp: 74- 120, ISBN: 978-81-7132-744-7 Pointer Publishers, India	2013
12	Production of Xylanase by <i>Aspergillus flavus</i> FPDN1 on Pearl millet bran: Optimization of Culture Conditions and Application in Bioethanol Production	Bhatt Nikhil, Adhyaru Dharmesh and Thakor Priti	International Journal of Research in Chemistry and Environment ISSN: 2248-9649 Vol. 2 Issue 3 (2012), p. 204-210	2012

❖ **Poster/ oral presentations in conferences/ seminars/ symposia:**

International Level : 06

National Level : 04

State/ Regional Level : 02

Sr. No.	Title of the poster	Authors	Conference/ seminar/symposia	Year
1	Peptide Nucleic Acid (Oral).	Adhyaru Dharmesh	3 rd National Level Science Symposium- 2008 On Recent Developments in Science, Christ College, Rajkot	6 th Jan. 2008
2	Microbial production of single cell protein from deproteinized whey concentrates (Poster).	Adhyaru, D.N., Bhatt, N.S.	UGC sponsored National seminar “Current Trends in Microbiological Sciences”. Department of Microbiology, M. G. Science Institute, Navrangpura, Ahmedabad.	23 rd & 24 th Jan. 2010
3	Hydrolytic activity of xylanase on agro- waste under submerged fermentation (Poster).	D.N. Adhyaru, N.S. Bhatt, H.A. Modi.	52 nd Annual Conference of Association of Microbiologist of India (AMI). International Conference on Microbial Biotechnology For Sustainable Developments. Punjab University. Chandigarh-160014. Nov. 3-6, 2011.	3 rd to 6 th Nov. 2011
4	Evaluation of bioprocess strategies for xylanase production by <i>A. niger</i> on sorghum straw under solid state fermentation (Poster).	D.N. Adhyaru, N.S. Bhatt, H.A. Modi.	International Conference on Industrial Biotechnology & IX Convention of The Biotech Research Society, India & Indo- Italian Workshop on Food Biotechnology: Industrial Processing, Safety & Health. Department of Biotechnology, Punjabi University, Patiala (Punjab).	21 st to 23 rd Nov. 2012
5	Improved xylanase production by <i>B. pumilus</i> DHN8 under submerged fermentation condition (Oral).	D.N. Adhyaru, N.S. Bhatt, H.A. Modi	XXVI Gujarat Science Congress The M.S. University of Baroda, and Gujarat Science Academy, Ahmedabad.	26 th Feb. 2012

6	Fungal hydrolytic action of xylanase on Pearl millet (<i>Pennisetum glaucum</i>) by solid state fermentation	Priti Thakor, D.N. Adhyaru, N.S. Bhatt	XXVI Gujarat Science Congress The M.S. University of Baroda, and Gujarat Science Academy, Ahmedabad.	26 th Feb. 2012
7	Statistically engineered, <i>Aspergillus tubingensis</i> FDHN1 mediated xylanase production under solid state fermentation and its application in biomass conversion (Poster).	D.N. Adhyaru, N.S. Bhatt, H.A. Modi	International Conference on “Advances In Biotechnology and Bioinformatics”. ICABB 2013 & X Convention of The Biotech Research Society, India. Dr. D.Y. Patil Biotechnology & Bioinformatics Institute, Dr. D.Y. Patil Vidyapeeth. Pune.	25 th to 27 th Nov. 2013
8	Design of process parameters for cellulase-free xylanase production by <i>Bacillus altitudinis</i> DHN8 under submerged fermentation using statistical approach (Poster).	D.N. Adhyaru, Jyoti Divecha, N.S. Bhatt, H.A. Modi.	International Conference on “Integrating Basic And Translational Research In Modern Biology”. 50 th Anniversary, Department of Microbiology. Faculty of Science, The M.S. University of Baroda.	27 th & 28 th Dec. 2013
9	Statistical modelling for cellulase-poor xylanase extraction and enzymatic property determination (Poster)	D.N. Adhyaru, Jyoti Divecha, N.S. Bhatt, H.A. Modi.	International Conference on Emerging Trends in Biotechnology (ICETB-2014). XI Convention of the Biotech Research Society (BRSI), India. Indo-Italian Workshop on Industrial Pharmaceutical Biotechnology. School of Environmental Sciences, JNU, New Delhi, India.	6 th to 9 th Nov. 2014
10	Saccharification potential of xylanase produced by <i>A. tubingensis</i> FDHN1 under solid state fermentation (Poster)	D.N. Adhyaru, N.S. Bhatt, H.A. Modi	National Conference (UGC Sponsored) “Latest Developments in Basic and Applied Sciences” M.B. Patel Science College, Anand, Gujarat, India.	10 th Jan. 2015
11	Xylanase production mediated by <i>Aspergillus</i> sp. SPDN1 using	Sandhya Makwana,	National Seminar on “Advances in Environmental	28 th Feb.

	agro-residues under solid state fermentation and its application	Dharmesh Adhyaru, Nikhil Bhatt	Science & Technology: A way Forward to Clean and Green Environment” P.G. Department of Environmental Science & Technology (EST) Institute of Science & Technology for Advanced Studies & Research (ISTAR)	2015
12	Assessment of biobleaching potential of a novel high molecular weight cellulase-free xylanase produced by <i>Bacillus altitudinis</i> DHN8	D.N. Adhyaru, N.S. Bhatt, H.A. Modi	International Conference on New Horizons in Biotechnology (NHBT-2015) CSIR-NIIST Trivendrum and BRSI, Trivendrum, Kerala, India	22 nd to 25 th Nov. 2015

❖ **Conferences/ Seminars/ Symposia/ Workshop/ Hands-on Training attended:**

International Level : 01

National Level : 10

State/ Regional Level : 08

Sr. No.	Name of Scientific Event	Place	Year
1	UGC Sponsored National Level Symposium Atmiya SciTech Utsav 2006	Shree M. & N. Virani Science College, Rajkot	1 st to 3 rd Dec. 2006
2	UGC Sponsored One Day National Level Seminar on “Radiology In Service Of Mankind”	Shree M. & N. Virani Science College, Rajkot	3 rd Dec. 2006
3	National Conference On “Genomics, Proteomics & System Biology”	J.N. Tata Auditorium, IISc Campus, Bangalore	1 st to 3 rd Oct. 2008
4	Rescue Training “Nuclear, Chemical and Biological Disaster Management”- organized by Muktajeevan Disaster Management & Rescue Training Academy	Gujarat Vidyapeeth, SADRA	20 th to 22 nd Jan. 2011
5	GSBTM Sponsored National Seminar at BIT Virtual Node-AAU on “Changing Role of Bioinformaticians In Next Generation Sequencing Era”	Department of Animal Biotechnology, College of Veterinary Science and Animal Husbandary, AAU	18 th Nov. 2011

6	Workshop on “Basics of SPSS”	Gujarat Vidyapeeth, SADRA	23 rd to 25 th Feb. 2012
7	International Conference on Industrial Biotechnology & IX Convention of The Biotech Research Society, India & Indo- Italian Workshop on Food Biotechnology: Industrial Processing, Safety & Health.	Department of Biotechnology, Punjabi University, Patiala (Punjab).	23 rd Nov. 2012
8	Hands- on Training on “Advanced Molecular Biological Techniques For Biological Sciences”.	Loyola Centre for Research and Development, St. Xavier’s College Campus, Ahmadabad	27 th to 29 th Dec. 2012
9	GSBTM Sponsored One Day Biosafety Seminar. “Biosafety Environment In India & Challenges Ahead”	Hotel Ista, Ahmedabad Certificate not provided by GSBTM	6 th Feb. 2013
10	National Level Seminar on “Recent Advances In Applied Sciences (RAAS)”	Shri A. N. Patel Postgraduate Institute, Charotar Education Society, Anand, Gujarat, India.	8 th Mar. 2013
11	“Molecular Cloning Strategies and Synthetic Biology Workshop ”	Department of Life Sciences, Hemchandracharya North Gujarat University, Patan	23 rd to 26 th Mar. 2013
12	7 th National Level Science Symposium on “Recent Trends In Science and Technology”	Christ College, Rajkot	23 rd Feb. 2014
13	ICMR & GSBTM supported National Level workshop on “Ethical Considerations in Current Research in Human Participants”	Shri A. N. Patel Postgraduate Institute, Anand	4-5 th July 2014
14	National Seminar on “Advances in Environmental Science & Technology: A way Forward to Clean and Green Environment”	P.G. Department of Environmental Science & Technology (EST) Institute of Science & Technology for Advanced Studies & Research (ISTAR)	28 th Feb. 2015

15	Faculty Development Program on “Advanced Molecular Instruments”	Department of Biotechnology, Shree M. & N. Virani Science College, Rajkot	10 th Dec. 2015
16	Syllabus formation workshop	Microbiology Board of studies Saurashtra University and Gyanyagna College of Science and Management-Rajkot	9 th Feb.2016
17	National workshop on “Impact of Climate change on coastal Ecosystem (ICE)”	CSIR-CSMCRI, Bhavnagar in collaboration with CSIR-NISCAIR, New Delhi	9 th & 10 th June 2016
18	State Level Seminar on Crossing edges of Research in Science	Government Science College, Sector-15, Gandhinagar	11 th March 2017
19	State Level Seminar on Assembly and Use of Foldscope	Department of Biogas Research and Microbiology, Gujarat Vidyapith, Sadra	9 th September 2018

❖ **Membership**

Life Member - Biotech Research Society of India (BRSI-LM-1420)

❖ **Extra-curricular activities:**

Sr. No.	Name of Event	Place	Year
1	NSS Camp	Gujarat Vidyapeeth, Sadra & Ahmedabad	2008-10
2	Gram- Jivan Padyatra, 4 days (Once in a year at different rural areas)	Gujarat Vidyapeeth, Sadra & Ahmedabad	2008-15

Dr. Dharmesh N. Adhyaru

Giriraj Nagar-1, B/2

Chital Road,

Amreli- 365601

Ph.: +91 9328048896