


Bio-Data

Faculty Member Details

Name: Dr. Dharmesh Harwani		
Date of Birth:	25 August 1977	
Date of joining:	09 June 2011	
Present Position:	Assistant Professor	
Department:	Microbiology	
Pay Scale + Grade Pay:	15600-39100 (6000)	
Mailing Address:		
Office: Academic Block-I Department of Microbiology, Maharaja Ganga Singh University, N.H.15, Jaisalmer Road, Bikaner-334004		Residence: III-D-36, "KRISHIKA", Murlidhar Vyas Colony, Bikaner-334001, Rajasthan, India
Telephone No.: 0151-2212240 Fax No.: 0151-2212042		Mobile No.: +91 87 64 13 12 40 E-mail: dharmesh@mgsbikaner.ac.in dharmesh_harwani@hotmail.com
Qualifications: M.Sc and PhD in Microbiology (>14 Years of Experience in Academics)		
<ul style="list-style-type: none">• Assistant Professor, Microbiology, Maharaja Ganga Singh University, Bikaner (<i>June 2011-continuing</i>)• Post PhD (DBT-Post Doctoral Fellow; RA-I-II-III), Microbial Genetics, Indian Institute of Science (IISc), Bangalore (<i>Jan. 2007- June 2011</i>)• PhD (Biodiversity and Efficiency of Bradyrhizobial Strains and AMF), Microbiology, Maharshi Dayanand Saraswati University, Ajmer (<i>Dec. 2002- April 2006</i>)• Senior Lecturer, Microbiology, Gyan Vihar University, Jaipur (<i>Sept. 2006-Jan. 2007</i>)• Project Assistant and Junior Research Fellow INCO-DEV Research Project (International Co-operation for Developing Countries (India, Spain, Nepal, Germany) for Improved <u>B</u>iological <u>N</u>itrogen <u>F</u>ixation, European Comm., Coordinator Dr. Dietrich Werner) (<i>Aug. 2002 - Feb. 2006</i>)• UGC/CSIR NET (2003)• M.Sc., Microbiology, Maharshi Dayanand Saraswati University, Ajmer (<i>Aug. 2002</i>)• DOEACC "O-Level", New-Delhi in Computers (<i>2001</i>)		
Specialization:		
<ul style="list-style-type: none">• Bacteriology• Genetic Engineering• Proteomics• Bio-informatics		

Research and Teaching Experience: (>14 Years of Experience in Academics)

2002-2006 (Aug.-Sept.)	Teaching and Research	INCO-DEV* laboratory, Deptt. of Microbiology, Maharshi Dayanand Saraswati University, Ajmer-305009, Rajasthan
2006-2007 (Sept.-Jan.)	Pure Teaching	Deptt. of Microbiology, Gyan Vihar University, Jaipur
2007-2011 (Jan.-June)	Pure Research	Lab of Prof. S. Mahadevan, MRDG, Indian Institute of Science (IISc), Bangalore-560012, Karnataka
09 June 2011-continuing	Teaching and Research	Deptt. of Microbiology, Academic Block, Maharaja Ganga Singh University, Bikaner-334001
INCO-DEV* International Cooperation for Developing Countries (Germany, Spain, Nepal and INDIA)		

Research Projects and Grants:

S. No.	Title	Grant Period	Cost (In lakhs)	Funding Agency
1	Minor Projects			
	I. Microbial diversity of desert varnish/rock varnish commonly grown on desert rocks, ancient buildings, forts and monuments of Bikaner, Rajasthan	BT-71, 2012	Completed/Minor	DST-Rajasthan
	II. Screening of infectious microbial community in vegetables & fruits commonly available in the fruit market of Kote gate Bikaner	BT-76, 2012	Completed/Minor	DST-Rajasthan
	III. Engineering of highly competitive pro-biotic strain/s from milk and milk products to prepare cheap pro-biotic^{sp} supplement pouches for the improvement of gut health	BT-2014	Completed/Minor	DST-Rajasthan
	IV. Isolation, Phenotypic and Molecular Characterization of Rare Thermophilic Actinomycetes Bacteria from Thar Desert Region in Rajasthan	Communicated	1 Lakh	DST-Rajasthan
V. Isolation, phenotypic and molecular characterization of rhizobial strains nodulating three leading legume crops namely chickpea (<i>Cicer arietinum</i>), pea (<i>Pisum sativum</i>) and groundnut (<i>Arachis hypogaea</i>) commonly grown in Bikaner region	Communicated	1 Lakh	DST-Rajasthan	
2	Major Projects			
	I. Global analysis of protein profiles of Bgl ⁻ and Bgl ⁺ strains to identify putative downstream target genes regulated by the <i>bgl</i> operon of <i>E. coli</i>	2007-2011*		DBT, India
	II. Cell to cell contact is necessary for the growth advantage in stationary phase (GASP) phenotype conferred by the activation of the <i>bgl</i> operon of <i>Escherichia coli</i>	2007-2011*		DBT, India *As a DBT-RA III

3	Major Projects Phylogenetic Appraisal of Rare Actinomycetes Native to the Thar Desert of Rajasthan using Conserved Ribosomal 16SrDNA Sequence Analysis	Communicated	12 Lakh	DST-Rajasthan, India
4	Isolation and Polyphasic Characterization of Rare Thermophilic Actinomycetes Native to Thar Desert	Communicated	6 Lakh	UGC- New Delhi
5	Exploring the Underexplored Thar Desert Medicinal Flora for their Native Endophytic and Rhizospheric Rare Actinomycetes Producing Novel Natural Products	Communicated	~36 Lakh	MoeF, India

Publications:

I. Books published:

A. Authored:	-
B. Edited Chapters:	<p>Edited Chapters in Books</p> <p>2016 <i>In Natural Resource Management in Arid and Semi-Arid Ecosystem for Climate Resilient Agriculture.</i> Bio-prospecting for Natural and Novel Metabolites from Rare Thermophilic Actinomycetes from underexplored Arid Thar Desert Regions of Rajasthan, India. Begani J. and Harwani D. 2015. N.K. Pareek and Sanjay Arora (eds.). <i>Soil Conservation Society of India, New Delhi</i>, pp. 1-8.</p> <p>2015 <i>In Microbes: In Action.</i> Secondary Structure Modelling of ITS1, 5.8S and ITS2 Ribosomal Sequences for Intra-Specific Differentiation among <i>Aspergillus</i> species. Gehlot P., Lakhani J. and Harwani D. 2015. J. Singh and P. Gehlot (eds.), AGROBIOS, India, pp. 337-353. ISBN 978-81-7754-576-0</p> <p>2015 <i>In Microbes: In Action.</i> Endophytic microorganisms and their functions. Gehlot P. and Harwani D. J. Singh and P. Gehlot (eds.), AGROBIOS, India, pp. 167-187. ISBN 978-81-7754-576-0</p> <p>2015 Edited Abstract Book of International Conference on “Saptarashis” of Modern India: Tradition, Change, and Suaraj, 4-6 January, MGS University, Bikaner, INDIA</p> <p>2009 <i>In Biotechnology of Agricultural Microorganisms - An Agro-industry Approach.</i> Tripartite Symbiotic Association: Legume-Rhizobia-Mycorrhiza - A Review. Harwani, D., Choudhary, P., Dhaker, S., Prasad, K. and Mahna, S.K. 2006. D.K. Maheshwari and R.C. Dubey (eds.), I. K. International Pvt. Ltd. New Delhi, India, pp. 406-435. (<i>Google Books</i>) ISBN: 93-80026-53-4.</p> <p>2005 <i>In Emerging Trends in Mycology, Plant Pathology and Microbial Biotechnology.</i> Screening of efficient <i>Bradyrhizobium japonicum</i> strains for the improvement of soybean production. Mahna, S.K., Meghvansi, M.K., Prasad, K., Harwani, D. and Werner, D. 2005. G. Bagyanarayana, B. Bhadraiah and I.K. Kunwar (eds.), B.S. Publications, Hyderabad, India, pp. 282-292. ISBN: 8178000814.</p>

II. Research Papers Published:

A. International Journals:	<p>2016 Auto-Evolving Clusters based on Rejection and Migration. Lakhani J., Khunteta A., Chowdhary A., Harwani D. AICTC '16 Proceedings of the International Conference on Advances in Information Communication Technology & Computing. ACM, USA. ISBN: 978-1-4503-4213-1 DOI: http://dx.doi.org/10.1145/2979779.2979877.</p>
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2015

A complete inter-class sharing during the inheritance to enhance reusability of public data and their access control using dominance. Lakhani J. and **Harwani D.** *International journal of system and software engineering*, 3:2, 14-18. ISSN Number: 2321-6017.

2015

Clustering techniques for Biological Sequence Analysis: A Review, Lakhani J. and **Harwani D.** *Journal of Applied Information Science*, 3:1, 14-32. ISSN 2321-6115.

2015

Regulation of Gene Expression: Cryptic β -glucoside (*bgl*) Operon of *Escherichia coli* as a Paradigm. **Harwani, D.** *Brazilian Journal of Microbiology* (In Press) ISSN 1517-8382

2015

Disambiguation of Multiple Inheritance in C++ Using Biological Law of Genetics Given By Mendel. **Harwani, D.** and Lakhani, J. *Academic Journal of Science, UniversityPublications.net, USA* 3:2:361-371. ISSN 2165-628.

2014

Microbial Contamination of Raw Fruits and Vegetables. Mathur A., Joshi A. and **Harwani D.** *Internet Journal of Food Safety* 16:26-28. ISSN 1930-0670

2014

Cloning the Metagenome to Access the Biodiversity of Unculturable Bacteria. Joshi A and **Harwani D.** *Multi Disciplinary Edu Global Quest* 3:48-55. ISSN 2250-3048

2014

Clustering Trend Predictions using Evolutionary k-means Algorithm for Automated Clustering Lakhani, J. and Harwani, D. *International Journal of Knowledge Based Computer System* 1: 33-36. ISSN Number: 2321-5623

2014

Forward and Reverse Genetic Tools for Investigating Gene Function. **Harwani D.** *Multi Disciplinary Edu Global Quest* 2:8-14. ISSN 2250-3048

2013

Biodiversity of rare thermophilic actinomycetes in the great Indian Thar Desert: An Overview. **Harwani, D.** *Indo American Journal of Pharmaceutical Research* 3:9349-9356. ISSN 2231-6876

2013

Recent advances in culturing the unculturable bacteria. **Harwani, D.** *International Journal of Recent Scientific Research* 4:1488-1491. ISSN: 0976-3031

2013

The great plate count anomaly and the unculturable bacteria. **Harwani, D.** *International Journal of Scientific Research* 2:350-51. ISSN 2277-8179

2013

Bacteria eating pollution and generating electricity. **Harwani, D.** *International Journal of Pharma and Bio Sciences* 4:996-1002. ISSN 0975-6299

2013

Bradyrhizobial inoculum production and its efficiency assessment. **Harwani, D.** In: M. Biyani and M. Sharma (eds), *BIOCON International 2013: 8th Biodiversity and their impact on global challenges*, Rajasthan, India, pp.137-142. ISBN 978-93-83343-003

2013

Mycorrhiza: Fungus and plant root symbiosis in the functioning of natural ecosystems. **Harwani, D.** *International Journal of Advanced Scientific and Technical Research* 3:358-370 ISSN 2249-9954

2012

The β -glucoside (*bgl*) operon of *Escherichia coli* is involved in the regulation of *oppA* encoding an oligo-peptide transporter. **Harwani, D.** and Mahadevan, S. *Journal of Bacteriology* 194:90-99. (<http://jb.asm.org/content/194/1/90>) **Print ISSN: 0021-9193 Online ISSN: 1098-5530**

2008

Response of soybean cultivars toward inoculation with three arbuscular mycorrhizal fungi and *Bradyrhizobium japonicum* in the alluvial soil. Meghvansi, M.K, Prasad, K., **Harwani, D.**, Mahna, S.K. and Werner, D. *European journal of soil biology* 44: 316-323 (<http://www.elsevier.com/locate/ejsobi>) **ISSN: 1164-5563.**

2004

	Efficiency of Bradyrhizobia in different soybean cultivars in pots filled in with rhizospheric soils of soybean/ non-legume cultivated land. Mahna, S.K., Prasad, K., Meghvansi, M.K. and Harwani, D. and Werner, D. In: A. Hartman, M. Schmid, W. Wenzel and Ph. Hinsinger (eds.), Rhizosphere 2004-Perespectives and Challenges-a Tribute to Lorenz Hiltner. Munich, Germany, p.286
B. International Submission:	Gene Sequences Submitted to National Center for Biotechnology Information, Database, USA 2014 Five 16SrDNA gene sequences of thermophilic actinomycetes, belonging to Thar desert of Rajasthan have been submitted in NCBI Gene Bank datadase including one Novel species (Gene Accession Numbers KM205637, KM205638, KM205639, KM205640, KM205642).
C. National Journals:	2006 Stimulatory effect of adonitol on the redifferentiation potential of soybean root nodules bacteroids. Harwani, D. , Meghvansi, M.K, Prasad, K., Mahna, S.K. and Werner, D. <i>Current Science</i> 90: 1474-1475. (http://www.ias.ac.in/currensci/jun102006/1474.pdf) ISSN: 0011-3891 . 2006 Distribution of arbuscular mycorrhizal fungi in soybean (<i>Glycine max</i> (L.) Merrill) rhizosphere. Prasad, K., Meghvansi, M.K., Harwani, D. , Mahna, S.K. and Werner, D. <i>Mycorrhiza News</i> 17:14-17. (http://mycorrhizae.org.in/files/Jan06.pdf) ISSN: 0970-695X . 2005 Synergistic effects of arbuscular mycorrhizal fungi and <i>Bradyrhizobium japonicum</i> on growth, yield and nutrient status of soybean [<i>Glycine max</i> (L.) Merrill]. Prasad, K., Meghvansi, M.K., Harwani, D. , Mahna, S.K. and Werner, D. <i>Anusandhan</i> 1:23-29. (www.mdsuajmer.ac.in/)
Visits Abroad:	
<ul style="list-style-type: none"> • Academic Visit to Gothenburg, Sweden (2009) Poster presentation on research work entitled “Global Protein Profiles to Identify Downstream target gene regulated by <i>bgl</i> operon of <i>E. coli</i>.” in “FEMS 2009- 3rd Congress of European Microbiologists • Academic Visit to University of Nevada, Las Vegas, USA (2014) Oral presentation on research work entitled “Cell to cell contact is necessary for Growth Advantage in Stationary Phase phenotype (GASP)”. in IJAS-2014, UNLV, Las Vegas, USA • Chaired Two Sessions based on Science and Technology at IJAS-2014, UNLV, Las Vegas, USA 	
Research Supervised - Ph.D./M.Phil. (Name of student and title):	
Scholars pursuing PhD	
<ol style="list-style-type: none"> 1. Ms. Jyotsna Begani 2014. Thesis title: Exploring Diversity of Thermophillic Actinomycetes in Thar Desert of Rajasthan 2. Ms. Jyoti Acharya Gopa 2016. Thesis title: Study on the Genetic Diversity of Malaria Vaccine Candidate Antigen Genes and their Co Relation with Infection in the Field Isolates of North East Region (Bikaner) 	
Other activities:	
Seminars, Conferences (Participated, Abstracts Published)	2016 Optimization and Purification of Anti-Leukemic Enzyme L-Asparaginase from Actinomycetes Bacteria Native to the Thar Desert of Rajasthan, India. Harwani D, Begani J and Lakhani J. National Seminar on Environment Management and Technology 8-9 March 2017, MGSU, Bikaner, Rajasthan, India. 2016 (Best Poster Award) Unconventional Methods to Characterize Thermophilic Actinomycetes Producing Novel Metabolites from underexplored Thar Desert. Harwani D and Begani J. National Conference on Biotechnology for Sustainable Development, 23-24 December 2016, MD College, Sri Ganganagar, Rajasthan India. 2016 (Invited lecture) Bioprospecting for Potential Drug Candidates for Biotechnological Development of Antibiotics targeting Multi Drug Resistance Pathogens. Harwani D. National Conference on Biotechnology for Sustainable Development, 23-24 December 2016, MD College, Sri Ganganagar, Rajasthan India

2016 (Best Poster Award)

Bio-prospecting for Natural and Novel Metabolites from Rare Thermophilic Actinomycetes from underexplored Arid Thar Desert Regions of Rajasthan, India. Begani J and **Harwani D.** 25th National Conference on “Natural Resource Management in Arid and Semi-Arid Ecosystem for Climate Resilient Agriculture and Rural Development”, 17-19 February, 2016, Swami Keshwanand Rajasthan Agricultural University, Bikaner, Rajasthan p-

2016 (Best Oral Award)

Probiotics and Antibiotics Resistance : Safety Issue of Dietary Supplements. **Harwani D** and Begani J. National Seminar on “Agriculture Resource Management for Sustainability and Eco-Restoration”, March 11-13, 2016, ICAR-Central Institute for Arid Horticulture, Bikaner, Rajasthan, p.171.

2015

Phylogenetic Appraisal of Rare Actinomycetes Native to the Thar Desert Environment using Conserved Ribosomal 16SrDNA Sequence Analysis. **Harwani D.** National Seminar on Current Trends in Environmental Research. 18 Feb.-March 2, 2015, MGSU, Bikaner, Rajasthan, India.

2014

Cell to Cell Contact is Necessary for the Growth Advantage in Stationary Phase (GASP) Phenotype Conferred by the Activation of the *bgl* operon of *Escherichia coli*. **Harwani D.** “International Journal of Arts and Science: Conference of Science and Technology”, University of Nevada, Las Vegas, USA.

<http://vegas2014internationalconference.sched.org/?s=dharmesh>

2014

Selective Discovery of Rare Thermophilic Actinomycetes Producing Novel Antimicrobial Compounds from Desert Soils. **Harwani D.** ESF, EMBO Symposium, Synthetic Biology of antibiotic production, Sant Feliu de Guixols, Costa Brava, Spain.

http://syntheticbio.esf.org/fileadmin/ressources_conferences/syntheticbio/user_ressources/Images/PosterList_for_website_Syntheticbio.pdf

2014

Bio-prospecting for novel metabolites from rare Thermophilic actinomycetes from underexplored thar desert of Rajasthan, India. **Harwani D.** International Symposium on the Biology of Actinomycetes ISBA-17, Kusadasi, Aydin-Izmir, Turkey, p-373.

http://www.isba17.com/abstract_book_draft_v1.pdf

2014

Elaborate survival strategy by *E. coli* to sense and adjust external and internal milieu (environment): *bgl* operon and *bgl* genes as Paradigm. **Harwani D.** “National Conference on ‘Energy & Environmental Engineering”, Manda Institute of Technology, Bikaner.

2013

Cell to Cell Contact is Necessary for the Growth Advantage in Stationary Phase (GASP) Phenotype Conferred by the Activation of the *bgl* operon of *Escherichia coli*. **Harwani D.** “20th Biennial Evergreen International Phage Meeting – Aug. 4-9, 2013 The Evergreen State College, Olympia, WA 98505, USA. Sections VII & VIII: Proteomics, Genomics and Molecular Mechanisms, p-122.

2013

A possible mechanism by which *oppA* an oligo-peptide transporter confers a competitive advantage to *E. coli* cells having activated *Bgl* operon. **Harwani D.** “National Conference on Biodiversity Conservation: Embracing Our Future, Preserving Our Past” Jaipur, Rajasthan, 27 Sep. p-24.

2013

Bradyrhizobial Inoculum Production and Its Efficiency Assessment. **Harwani D.** BIOCON 2013: International Conference on Agro-biodiversity and their impact on global challenges. Biyani College, Jaipur, Rajasthan, 23 Sept. pp.137-142.

2013

Putative Downstream Target Genes Regulated by the Cryptic *Bgl* Operon of *E. Coli*. **Harwani D.** UGC sponsored National Conference on Environmental Issues, Toxicology and Exposure Science, Agarwal College, Jaipur, Rajasthan, 21 Sept. p-74.

2013

Technology Transfer in Nano Science and Technology. Research to Product Awareness

	<p>Workshop. Harwani D. Nano-Medicine and Nano-Therapeutics, 20 June, Dept of Biotechnology, Madurai Kamaraj University, Madurai, Tamilnadu.</p> <p>2013 Organized two day's Workshop "Field functionaries/Extension offices on organic farming" at the department of Microbiology, Maharaja Ganga Singh University under the auspices of "National Center of Organic Farming" Ghaziabad on 30-31 January, 2013.</p> <p>2013 (Best Poster Award) Regulation of Gene Expression: β-glucoside (<i>bgl</i>) Operon of <i>Escherichia coli</i> as a Paradigm. Harwani, D. "UGC Sponsored National Conference on Biotechnology", Mahila P.G. College, Jodhpur, Rajasthan, p. 24.</p> <p>2012 Organised OPEN DAY cum Exhibition: One day visit open to the students and faculty from various colleges and Institutes of Bikaner to the Microbiology Laboratory, Maharaja Ganga Singh University, Bikaner, Rajasthan on 7 Nov. 2012.</p> <p>2012 The β-glucoside (<i>bgl</i>) operon of <i>Escherichia coli</i> is involved in the regulation of <i>oppA</i> encoding an oligo-peptide transporter. Harwani, D. and Mahadevan, S. "NCOB-2012 National conference on Omics for Biotechnology" Central university of Rajasthan at Kishangarh, Ajmer, Rajasthan, p. 149.</p> <p>2012 A World of Science and Technology Beyond the English or Within. Harwani D. and Lakhani J. "National Symposium on Interrogating New Worlds of English Language Teaching 2012", Bikaner, p. 30.</p> <p>2011 Microbial fuelling cell (MFC): A bacterial way to clean up nature and produce electricity. Harwani, D. "ICAER-2011 – International conference on Advances in Ecological Research", Bikaner, Rajasthan, p.97.</p> <p>2009 Global analysis of protein profiles of Bgl⁺ and Bgl⁻ strains to identify putative downstream target genes regulated by the <i>bgl</i> operon of <i>E. coli</i>. Harwani, D. and Mahadevan, S. <i>Proc.</i> "FEMS 2009- 3rd Congress of European Microbiologists" Gothenburg, Sweden, p. 198.</p> <p>2008 Centenary Conference Indian Institute of Science, Dec. 2008. Participated in Keynote lectures by Hon'ble Prime Minister Dr Manmohan Singh, Hon'ble Former President Dr. ABJ Abdulkalam, Dr. Sydney Brenner, Dr. Venkatraman Ramakrishnan, Dr. C.N.R. Rao, Dr. K. Kasturirangan, Dr. P. Padamanaban, Dr. M.K. Bhan, Dr. S.K. Brahmachari, Dr. R. Chidambaram, Ms. Kiran Majumdar Shah, Mr. Nandan Nilekani and many popular lectures Bangalore, Karnataka, India</p> <p>2004 Efficiency of bradyrhizobia in different soybean cultivars in pots filled in with rhizospheric soils of soybean/ non-legume cultivated land. Mahna, S.K., Prasad, K., Meghvansi, M.K., Harwani, D. and Werner, D. <i>Proc.</i> "Rhizosphere 2004 - Perspectives and Challenges - A Tribute to Lorenz Hiltner" Munich, Germany, p. 135.</p> <p>2004 (Junior Scientist Award) Stimulatory effect of three carbon sources on re-differentiation potential of soybean nodulating bacteria. Harwani, D., Meghvansi, M.K., Prasad, K., Werner, D. and Mahna, S.K. <i>Proc.</i> International Symposium on "Microbial Diversity: Challenges, Opportunities & Relevance in new Millennium" Jabalpur, India, p. 25.</p> <p>2000 Participated Microbiotech 2000. 41st Annual Conference, Association of Microbiologists of India, Nov. 2000. Birla Institute of Scientific Research, Jaipur, Rajasthan, India.</p>
Membership	<ul style="list-style-type: none"> • ASM (American Society of Microbiology), USA (ASM MN # 56756547) • TERI (The Energy and Resources Institute), India • AMI (Association of Microbiologist of India LMID#4533-2017)
Awards	<ul style="list-style-type: none"> • Best Poster Award (First) at National Conference on Biotechnology for Sustainable Development, 23-24 December 2016, MD College, Sri Ganganagar,

	<p>Rajasthan India.</p> <ul style="list-style-type: none"> • Best Poster Award (Second) at Natural Resource Management in Arid and Semi-Arid Ecosystem for Climate Resilient Agriculture and Rural Development”, 17-19 February, 2016, Swami Keshwanand Rajasthan Agricultural University, Bikaner, Rajasthan. • Best Oral Award (second) at National Seminar on “Agriculture Resource Management for Sustainability and Eco-Restoration”, March 11-13, 2016, ICAR-Central Institute for Arid Horticulture, Bikaner, Rajasthan. • Non-ICMR Scientist Travel Award for Academic Visit to USA 2014 • Best Poster Award (First) at UGC Sponsored National Conference on Biotechnology in 2014, Jodhpur, India • IAS-SPRF, Indian Academy of Science 2012 • DBT-RA, DBT, Govt. of India Funded Project 2007-2011 • DST-ITG, Gothenburg, Sweden 2009 • UGC-CSIR NET 2003 • DOEACC-“O” Level, New Delhi 2001 • Junior Scientist Award, Microtech 2004-International Symposium, SBAM, Jabalpur • Gold Medalist in Inter School Hockey Tournament at St. Pauls’, Ajmer • Ranked Runner Up MDS Olympiad Table Tennis 2003, MDSU, Ajmer • NCC (2 Raj Naval Wing), First Cadet-March Past, 1992
Refresher/Orientation and Other Courses	<p style="text-align: center;">Refresher/Orientation and Other Courses</p> <ul style="list-style-type: none"> • Indian Academy of Science (IAS), Bangalore- Summer Research Fellowship. Cell (Bgl+) to cell (Bgl⁻) contact (cellular signaling) analysis by <u>F</u>luorescent <u>A</u>ctivated <u>C</u>ell <u>S</u>orting (FACS) analysis. Indian Institute of Science, Bangalore, Karnataka, India (May-June 2012) • Indian Academy of Science (IAS) Sponsored Refresher Course- Dept of Biotechnology, Madurai Kamaraj University, Madurai, Tamilnadu, India (15.5.2013-29.5.2013) • Orientation Program (68)- Academic Staff College, Madurai Kamaraj University, Madurai, Tamilnadu, India (30.5.2013-26.6.2013)
	<p style="text-align: center;">Other Academic and Administrative Jobs</p> <ul style="list-style-type: none"> • RUSA Coordinator, MGS University, Bikaner (2016-continued) • Coordinator Public Outreach and Extension Cell, MGS University, Bikaner (2016-continued)) • Member of Board of Studies, MGS University, Bikaner (2013-continued)
Others	<ul style="list-style-type: none"> • Mentored 3 summer research fellows during 2007-2011 and 2012 at Mahadevan’s Lab, IISc, Bangalore • Audited Course Work Classical and Molecular Genetics by of Prof. S. Mahadevan in IISc, Bangalore • Research Co-ordinator, Microbiology and Biotechnology, Gyan Vihar University • Assisted in Coordinating Small Teachers and Doctoral Students Training Program in <i>Rhizobium</i> Technology • Technology Transfer of Bradyrhizobial Bacterial Bio-fertilizers Production from INCO-DEV Laboratory at MDS University, Ajmer to the Farmers’ Fields in Kota, Bhundi and Baran Regions of Rajasthan. <p>Project Reports</p> <p>2012 <u>I</u>ndian <u>A</u>cademy of <u>S</u>cience (IAS) SPRF-2012 (8 weeks) (LFT-86-Teacher) Cell to cell contact is necessary for the growth advantage in stationary phase (GASP) phenotype conferred by the activation of the <i>bgl</i> operon of <i>Escherichia coli</i> Worked as a Research fellow with Prof. V. Nanjundiah and Prof. S. Mahadevan, MRDG at Indian Institute of Science, Mallechwaram Bangalore-560012</p> <p>2011 DBT (Department of Biotechnology), India (2007-2011) reports on two projects entitled “Global analysis of protein profiles of Bgl⁻ and Bgl⁺ strains to identify</p>

putative downstream target genes regulated by the *bgl* operon of *E. coli*” and “Cell to cell contact is necessary for the growth advantage in stationary phase (GASP) phenotype conferred by the activation of the *bgl* operon of *Escherichia coli*” (Worked as a DBT–PDF/RA-III with Prof. Mahadevan, MRDG at Indian Institute of Science, Malleshwaram Bangalore-560012)

2006

INCO DEV (International Cooperation for developing countries), International Scientific Cooperation Project (Germany, Spain, Nepal and India), “Soybean Biological Nitrogen Fixation (BNF) and Mycorrhization for Improved Production in South Asia” Contract number: ICA4-CT- 2001-10057. (Worked as a team member)

http://www.staff.unimarburg.de/~werner/INCO_DEV.html