



Resolving Double Helix For Life



C G Bhakta Institute of Biotechnology

www.cgbibt.edu.in

Dr. Mitesh Kumar Dwivedi

Assistant Professor

CGBIBT

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Education

Education	Year	University
Ph.D. Biochemistry	2013	The M. S. University of Baroda, Vadodara, Gujarat, India
National Eligibility Test (CSIR-UGC) for Lectureship in Life Sciences (All India Rank- '32'/1232)	2011	Council of Scientific and Industrial Research, New Delhi, India
M.Sc. Microbiology	2006	University of Mysore, Mysore, Karnataka, India
B.Sc. Microbiology	2004	Sardar Patel University, Vallabh Vidyanagar, Gujarat, India

Specialization

Microbiology, Immunobiology (Immunogenetics, Autoimmunity)

Professional/Teaching Experience

Teaching experience: 7 Years

March, 2014 to till date: Working as **Assistant Professor** in C. G. Bhakta Institute of Biotechnology, Uka Tarsadia University, Tarsadi, Bardoli, Gujarat, India. Involving in graduate and post graduate teaching of Microbiology, Biotechnology and PGDMLT students [Subjects of Teaching: Medical Biotechnology, Medical Microbiology, Immunology, Molecular Immunology & Immunotechnology, Microbial Biotechnology, Microbial Diversity & Extremophiles]. Supervised 53 students for Master's research projects and currently supervising 10 M.Sc. students and 1 Ph.D. student.



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Bardoli-Mahuva Road, Tarsadi - 394 350, Dist. Mahuva, GUJARATA (India)

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Research Interest

Autoimmunity, Autoimmune diseases, Immunogenetic & therapeutic aspects of vitiligo, Rheumatoid arthritis, Sickle Cell disease and role of probiotics in human health & disease.

Research Experience

Research Experience: 13 years

1. **Principal Investigator** of 1 Major & 4 Minor research projects at C. G. Bhakta Institute of Biotechnology, Uka Tarsadia University, Bardoli, Gujarat.
2. Worked as **Research Scholar** at Department of Biochemistry, Faculty of Science, The M. S. University of Baroda, Vadodara, Gujarat, India from January, 2007 to December, 2013.
Title of Ph.D. Thesis: “Role of Selected Candidate Genes in Autoimmune Pathogenesis of Vitiligo”
Thesis Advisor: Prof. Rasheedunnisa Begum, Department of Biochemistry, Faculty of Science, The M. S. University of Baroda, Vadodara, Gujarat, India.
3. Worked as **Junior Research Fellow (JRF)** under DBT, New Delhi sponsored major research project entitled “Oxidative stress related gene Polymorphisms and Vitiligo: Genotype-Phenotype correlations” at Department of Biochemistry, Faculty of Science, The M. S. University of Baroda, Vadodara, Gujarat, India from 24th April, 2010 to 5th June, 2012.
4. Worked as **Project Fellow (PF)** under UGC, New Delhi sponsored major research project entitled “Evaluation of *TNF-α* promoter polymorphisms for vitiligo susceptibility in Gujarat population” at Department of Biochemistry, Faculty of Science, The M. S. University of Baroda, Vadodara, Gujarat, India from 24th February, 2010 to 23rd April, 2010.
5. Worked as **Technical Supervisor** – Cell Culture at Vaccine (Rabies) Department of Cadila Healthcare Pvt. Ltd. (Zydu Group), Moraiya, Ahmedabad, Gujarat, India from 11th August, 2009 to 23rd February, 2010.

Research Projects Handled as PI

1. **DST-SERB, New Delhi sponsored** Major research project entitled “Exploring the Role of Regulatory T cells through NFATs and FOXP3 in Pathogenesis of Vitiligo” under **Early Career Research Award (2018) (Completed; duration 3 Years)** sanctioned amount: **Rs. 38,92,020.00 (FILE NO. ECR/2017/000858)** [*Principal Investigator*].
2. **Uka Tarsadia University Funded (Research Promotion Scheme)** Minor Research Project entitled “Genotype-Phenotype Correlation of TSH receptor (*TSHR*) and *ACE* gene polymorphisms for Hyperthyroid Susceptibility in South Gujarat Population” (**Completed; duration 1 Year**) (15/10/2018 – 14/10/2019), sanctioned amount: **Rs. 90,000.00** [*Principal Investigator*].

3. **Gujarat Council of Science & Technology (GUJCOST)**, Govt. of Gujarat, Gandhinagar sponsored Minor Research Project entitled “Evaluation of *ACE* I/D polymorphism for Rheumatoid Arthritis Susceptibility in South Gujarat Population” (**Completed**; duration 1 Year (16/12/2015 – 15/12/2016), sanctioned amount: **Rs. 20,000.00** [*Principal Investigator*]).
4. **Uka Tarsadia University** Funded (**Research Promotion Scheme**) Minor Research Project entitled “Genetic Association Study of Selected Immune-regulator Genes in Rheumatoid Arthritis Susceptibility of South Gujarat Population” (**Completed**; duration 1 Year (12/01/2016 – 11/01/2017), sanctioned amount: **Rs. 50,000.00** [*Principal Investigator*]).
5. **Neo Sciences and Research Solutions Pvt. Ltd.**, Ahmedabad sponsored “Isolation and characterization of N₂ Fixing Bacteria” (**Completed**; duration 1 year (13/09/2016 – 14/09/2017), sanctioned amount: **Rs. 1,14,095.00** [*Principal Investigator*]).

Awards Received

1. Received **Best Researcher Award (2020)** for the contribution and honourable achievement in Innovative Research under International Research Award on New Science Inventions from NSEIN 2020, Science Father-trademark of Scifax company (Reg. No. 130116), Approved and Registered by Ministry of Corporate Affairs (MCA), Govt. of India.
2. Received **INSA Visiting Scientist Award-2019 (FY 2019-20)** from Indian National Science Academy (INSA), New Delhi.
3. Received the "**Recognition For Outstanding Contribution To The Field Of Autoimmunity**" as a MAI (Mosaic of Autoimmunity) Award candidate in "11th International Congress on Autoimmunity", held at Lisbon, Portugal during 16 May, 2018 to 20 May, 2018".
4. Received the **Early Career Research Award (2018) from DST-SERB, New Delhi** (Major research project of **Rs. 38,92,020.00** entitled “Exploring the Role of Regulatory T cells through NFATs and FOXP3 in Pathogenesis of Vitiligo”); **ECR/2017/000858**.
5. Received the **DST-SERB International Travel Award for presenting the Research Work entitled** “Deregulation of Regulatory T Cells: Could be an Answer for Autoimmunity in Vitiligo Pathogenesis” in ‘Pearls in Autoimmunity Session’ of 11th International Congress on Autoimmunity, Lisbon, Portugal held during 16 May, 2018 to 20 May, 2018. (**Travel Award of Rs. 98,418.00**)
6. Received the **Best Poster Award (2019)** for presentation of research entitled “*In vitro* Anti-Sickling Effect of *Boerhavia diffusa* Plant Extract on Erythrocytes obtained from



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Sickle Cell Patients” XXXIII Gujarat Science Congress 2019 held at L. J. Institute of Applied Sciences, Ahmedabad, Gujarat, India on 2nd-3rd February 2019. (**Cash prize of Rs. 1000**)

7. Received the **Highest Impact Factor Publication Award (2013)** at the Faculty of Science, The M. S. University of Baroda, Vadodara on 27th December, 2014 for publication of research article entitled “Decreased regulatory T-Cells and CD4⁺/CD8⁺ ratio correlate with disease onset and progression in patients with generalized vitiligo” in Pigment Cell and Melanoma Research (IF 5.84). (**Cash Prize: 10,000 INR**)
8. Received the **HUGO Travel Award (2013)** for Oral Presentation of research entitled “Increased Interferon-Gamma (IFNG) and its intronic variants correlate with disease progression and higher susceptibility towards generalized vitiligo” at HGM ICG-2013 Conference on “Genetics and genomics of Human health and global sustainability”, Singapore, 13th -18th April, 2013. (**Cash Prize: 1000 SGD**)
9. Received the **Department of Biotechnology (DBT) International Travel Award (DBT/CTEP/02/201300216)** for presenting the Research Work entitled “Increased Interferon-Gamma (IFNG) and its intronic variants correlate with disease progression and higher susceptibility towards generalized vitiligo” at HGM ICG-2013 Conference on “Genetics and genomics of Human health and global sustainability”, Singapore, 13th -18th April, 2013. (**Travel Award of Rs. 28000.00**)
10. Received the **Highest Impact Factor Publication Award (2012)** at the Faculty of Science, The M. S. University of Baroda, Vadodara on 15th August, 2013 for publishing research article entitled “HLA alleles and amino acid signatures of the peptide binding pockets of HLA molecules in Vitiligo” in Journal of Investigative Dermatology (IF 6.31). (**Cash Prize: 10,000 INR**)
11. Received the **Highest Impact Factor Publication Award (2011)** at the Faculty of Science, The M. S. University of Baroda, Vadodara on 15th August, 2012 for research article entitled “Cytotoxic T-lymphocyte associated antigen-4 (CTLA-4) in isolated vitiligo: a genotype-phenotype correlation” in Pigment Cell and Melanoma Research (IF 5.06). (**Cash Prize: 25,000 INR**)
12. Received the **HUGO Young Scientist Travel Award - Category-I (2011)** for presenting the research entitled “Association of Cytotoxic T Lymphocyte Associated Antigen-4 (CTLA-4) 3’ UTR CT60A/G and exon1 +49A/G single nucleotide polymorphisms with vitiligo susceptibility” at 4th Pan Arab Human Genetics Conference on “Genomics of Human Diversity and Heritable Disorders” Human Genome Meeting-2011, 14th -17th March, 2011, Dubai, UAE. (**Cash Prize: 5000 UAE-Dirham**)
13. Received the **Best Poster Award (2011)** for presentation of research entitled “Genetic association of functional and structural variants in MYG1 gene with vitiligo susceptibility” at International Symposium on “Molecular medicine” (MOLMED-2011), 9th -11th January, 2011, CHARUSAT, Changa, Gujarat, India. (**Cash Prize: 2500 INR**)



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14. Received the **Lectureship Award for securing All India rank 32/1232 in CSIR-NET (2011) (Life Sciences)** examination conducted by Council of Scientific and Industrial Research, New Delhi, India on 18th December, 2011.
15. Received **Sixth Rank in State level Ninth General Knowledge Competition** convened by Academic Council for International Fraternity (ACIF), Jaipur, Rajasthan on 20th January 1997.
16. Received **Third Rank (Junior Category) in District level Essay Writing Competition** convened by Van Vibhag, Banswara, Rajasthan on 07th October 1996.

Creditable position

➤ **As a co-ordinator in any events (if yes, give event name and place)**

1. Actively involved as **Convener** in organizing three days International Conference on “Current Status, Opportunities and Challenges in Medicinal Plants and Natural Product Research” on 24th-26th, September 2014 at C. G. Bhakta Institute of Biotechnology, Uka Tarsadia University, Bardoli, Gujarat, India.
2. Actively involved as **Joint Organizing Secretary** in organizing three days conference, 4th International Congress of the Society for Ethnopharmacology, “Healthcare in 21st century: Perspectives of Ethnopharmacology & Medicinal Plant Research”, Uka Tarsadia University, Bardoli, Surat, India, February 23-25, 2017.
3. Acted as **Session Chairman** during Poster Presentation in three days conference, 4th International Congress of the Society for Ethnopharmacology, “Healthcare in 21st century: Perspectives of Ethnopharmacology & Medicinal Plant Research”, Uka Tarsadia University, Bardoli, Surat, India, February 23-25, 2017.
4. Actively involved in the organization of ‘**Vitiligo Exhibition & Camp**’ for public awareness regarding Vitiligo disease and its treatment at the Department of Skin and Venereal Disease, The M. S. University of Baroda, Gujarat, India (15th -17th August, 2012).
5. Actively involved in the organization of **Farmer’s Meet & Seminar on “Organic Farming: Recent Trends on Horticultural Crops”** on 25th, February 2015 at Pushpam Tarsadia Hall, C. G. Bhakta Institute of Biotechnology, Uka Tarsadia University, Bardoli, Gujarat, India.
6. **Member of Board of Studies** of C.G. Bhakta Institute of Biotechnology, Faculty of Science, Uka Tarsadia University for the years 2016-2017, 2017-2018, 2018-2019, 2019-2020 and 2020-2021.

7. **Evaluation Committee Member** of UTU Research Promotion Grant-2019 (05-09-2019); UTU SSIP projects (08-02-2020) at Uka Tarsadia University, Bardoli, Gujarat.
8. **Evaluation Committee Member** of Course work presentation of Ph.D Batch-11 scholars on 25th January 2020; Research paper review presentation of Ph.D Batch-11 scholars on 11th January 2020; Presentation Cum Interview of Ph.D Batch-12 scholars on 09th October 2020; Research paper review presentation of Ph.D Batch-12 scholars on 22nd March, 2021 at Uka Tarsadia University, Bardoli, Gujarat; Presentation Cum Interview of Ph.D Batch-13 scholars on 24th July 2021.
9. **Evaluation Committee Member** (as Subject Expert-Science Stream) of selection committee for the post of Principal at Maliba Education Academy, Bardoli Pradesh Kelavani Mandal, Bardoli, Gujarat, India on 28th August 2021.
10. **Member of Special Committee** formed to review and verify the Faculty Appraisal Form (2020-2021) of UTU Faculties.
11. **Supervising teacher for Post Graduate Degree** in the subject of Microbiology at Faculty of Science at Uka Tarsadia University (30th August 2019).
12. **Supervising teacher for Ph.D. Degree** in the subject of Microbiology at Faculty of Science at Uka Tarsadia University (w.e.f. 01st September 2016).
13. **Member of IPR (Intellectual Property Rights)-Cell** of Uka Tarsadia University (w.e.f. 05th June 2021).
14. **Co-coordinator of Criteria III (Research, Consultancy, Innovation & Extension) for NAAC-SSR preparation, NAAC-Inspection and NAAC-AQAR preparation** (2018-2019, 2019-2020 & 2020-2021) at Uka Tarsadia University (w.e.f. 14th October 2017).
15. **Member of Anti-ragging Committee at Uka Tarsadia University** (2016-2017, 2017-2018, 2018-2019, 2019-2020 & 2020-2021) (w.e.f. 03rd October 2016).
16. **Member of 'Result Compilation Committee'** in Youth Festival 5th UThFest-2019 organized by Uka Tarsadia University during 9th January to 12th January 2019.
17. **Member of 'EMCEE Committee' & 'Liaison Committee'** in 35th Inter-University West Zone Youth Festival organized by Uka Tarsadia University during 27th December to 31st December 2019.
18. Acted as **Judge** in 'Poem Recitation competition' of 4th Youth Festival UThFest-2018 organized by Uka Tarsadia University during 31st January to 02nd February 2018.



19. **Member of 'Discipline Committee'** in Youth Festival **UThFest-2016** organized by Uka Tarsadia University during 11th February to 13th February 2016.
20. Acted as **Session Chairman** for “**International Conference on Recent Advances in Biosciences and Bioengineering (ICRABB)**” organized at Parul Institute of Applied Science, Parul University, Vadodara, Gujarat, India on March 8th - 10th, 2018.
21. Acted as **Co-coordinator** in organizing “Inspire Internship Science Camp-2018” held at C. G. Bhakta Institute of Biotechnology, Uka Tarsadia University, Bardoli, Gujarat on 5th - 9th September 2018.
22. Acted as **Judge** in Poster session of International Conference ‘Nanotechnology and its Applications to Ocular Drug Delivery Systems’ organized by Maliba Pharmacy College, Uka Tarsadia University, Bardoli, Gujarat, India on 28 - 30 January 2019.
23. Acted as **Convener** in organizing National Level Workshop on “Prospects and Challenges to Become Bioentrepreneurs Through students start-ups” held at C. G. Bhakta Institute of Biotechnology, Uka Tarsadia University, Bardoli, Gujarat on 1st & 2nd February 2019.
24. Acted as **Co-chairman** in National Conference on "Microbiome Research: Understanding the diversity to improve plant, animal, human and environmental health" held at Uka Tarsadia University, Bardoli, Gujarat on 07th - 09th March, 2019.
25. Acted as **Convener** in organizing National Conference on "Microbiome Research: Understanding the diversity to improve plant, animal, human and environmental health" held at Uka Tarsadia University, Bardoli, Gujarat on 07th - 09th March, 2019.
26. Acted as **Member of Scientific Committee** of “The National Conclave on Sustainable CSR Projects in Rural India”, held during 11th to 13th October 2019 organized by TGG Foundation in association with C.G. Bhakta Institute of Biotechnology, Uka Tarsadia University.
27. Acted as **Member of Organizing Committee** of “National Webinar on Revised Assessment and Accreditation process of NAAC for Higher Education Institutions” organized by Internal Quality Assurance Cell of Uka Tarsadia University (UTU), Bardoli, Gujarat, India in Association with National Assessment and Accreditation Council, Bangalore on 10th August 2020.
28. Acted as **Observer for NEET (UG)-2021 Examination** at RMG MAHESHWARI ENGLISH SCHOOL, LADVI- 394325, District-Surat, Gujarat (Centre Code: NTA-EC-S-02811 [2208027]) held on 12 September 2021.

➤ **As a referee in indexed/peer-reviewed journal (if yes, give journal name)**

1. **Invited Reviewer** of reputed International Journals: **‘British Journal of Dermatology’** (Wiley-Blackwell publishing) (IF 4.706; Articles reviewed=11; from April, 2014 to till date); **‘Journal of the European Academy of Dermatology and Venereology’** (Wiley-Blackwell publishing) (IF 2.694; Articles reviewed=3); **‘Dermatology Research and Practice’** (Hindawi Publishing Corporation) (Articles reviewed=4; from August, 2015 to till date; <http://www.hindawi.com/journals/drpr/reviewers/2/>); **‘International Journal of Genetics’** (Bioinfo Publications) (Articles reviewed=1; from August, 2015 to till date); **‘Immunology Letters’** (Elsevier Publishing) (IF 2.860; Articles reviewed=2; from June, 2017 to till date); **‘Acta Scientific Microbiology’** (Articles reviewed=2; from January, 2018 to till date)., **‘Rheumatology International’** (Springer International Publishing) (IF 2.2; Articles reviewed=12; from June, 2017 to till date); **‘Journal of Translational Medicine’** (BioMed Central) (IF 3.786; Articles reviewed=2; from April, 2018 to till date); **‘Virology and Immunology Journal’**, MEDWIN Publishers (Articles reviewed=1; from January, 2019 to till date); **‘Journal of Clinical Laboratory Analysis’** John Wiley & Sons, Inc., (Articles reviewed=8; from February, 2019 to till date); **‘International Journal of Immunogenetics’** John Wiley & Sons, Inc. (IF: 1.21; Articles reviewed=6; from April, 2019 to till date); **‘Gene’** Elsevier (Articles reviewed=6; from November, 2019 to till date); **‘Biomarker Insights’** SAGE (Articles reviewed=1; from November, 2019 to till date); **‘Journal of Cosmetic Dermatology’** John Wiley & Sons, Inc. (Articles reviewed=9; from November, 2019 to till date), **‘Journal of Biological Methods’** POL Scientific (Articles reviewed=3; from November, 2019 to till date); **‘Turkish Journal of Biochemistry’** De Gruyter (Articles reviewed=1; from December, 2019 to till date); **‘The World Journal of Biological Psychiatry’** Taylor & Francis (Articles reviewed=1; from December, 2019 to till date); **‘BioMed Research International’** (IF: 2.276; Articles reviewed=4; from April, 2020 to till date); **‘Oxidative Medicine & Cellular Longevity’** (IF: 5.076; Articles reviewed=2; from April, 2020 to till date); **‘Current Pharmaceutical Biotechnology’** Bentham Science Publishers (IF: 1.516; Articles reviewed=9; from June, 2020 to till date); **‘Disease Markers’** Hindawi (IF: 2.761; Articles reviewed=1; from June, 2020 to till date); **‘Clinical, Cosmetic and Investigational Dermatology’**, Dove Press (IF: 1.970; Articles reviewed=3; from August, 2020 to till date); **‘Frontiers in Immunology’** (IF:6.429; Articles reviewed=1; from October, 2020 to till date); **‘Journal of Applied Biology & Biotechnology’** Open Science Publishers, LLP (Articles reviewed=1; from November, 2020 to till date); **‘Journal of Cellular and Molecular Medicine’** (IF:4.486; Articles reviewed=3; from October 2020 to till date); **‘F1000Research’** (IF:2.640; Articles reviewed=2; from December 2020 to till date); **‘Journal of Pharmaceutical Research International’** (Articles reviewed=2; from February 2021 to till date); **‘Scientific Reports’** (IF:3.998; Articles reviewed=1; from March 2021 to till date); **‘Frontiers in Genetics’** (IF: 3.258; Articles reviewed=1; from March 2021 to till date); **‘African Journal of Microbiology Research (AJMR)’** (Articles reviewed=2; from April 2021 to till date); **‘Journal of Immunology Research’** (IF: 3.327; Articles reviewed=1; from April 2021 to till date), **‘Journal of Pediatric Genetics’** (IF: 3.0; Articles reviewed=4; from May 2021 to till date); **‘Mediators in Inflammation’** (IF: 3.758; Articles reviewed=1; from May 2021 to till date); **‘Exploration of Immunology’** (Articles reviewed=1; from June 2021 to till date); **‘Journal of the American College of Nutrition’** (IF: 2.430; Articles reviewed=1; from June 2021 to till date); **‘Asian Journal of Advances in Medical Science’** (Articles

reviewed=1; from June 2021 to till date); ‘**Asian Hematology Research Journal**’ (Articles reviewed=1; from June 2021 to till date); ‘**Advances in Research**’ (Articles reviewed=1; from July 2021 to till date); ‘**The Application of Clinical Genetics**’ (Articles reviewed=1; from July 2021 to till date); ‘**Journal of Applied Microbiology**’ (IF: 3.772; Articles reviewed=2; from July 2021 to till date); ‘**European Journal of Dermatology**’ (IF: 3.328; Articles reviewed=1; from July 2021 to till date); ‘**European Journal of Oral Sciences**’ (IF: 2.612; Articles reviewed=1; from August 2021 to till date); ‘**Journal of Immunoassay and Immunochemistry**’ (IF: 0.873; Articles reviewed=1; from August 2021 to till date) and ‘**Journal of Medical Virology**’ (IF: 2.327; Articles reviewed=1; from September 2021 to till date).

2. **Invited referee of DST-SERB Core Research Grant proposals** (Proposals reviewed=2; from September 2019 to till date).
3. **Lead Guest Editor** of ‘Journal of Visualized Experiments (JOVE)’ for special issue on Methods Collection “Isolation, culture and Transplantation methods of normal human melanocytes for the treatment of vitiligo” (from September 2020 to till date). [https://www.jove.com/methods-collections/editor/957/mitesh-dwivedi]
4. **Lead Guest Editor** of ‘Journal of Immunology Research’ for special issue on “Alteration of Immune-mechanisms by Human Microbiota and Development and Prevention of Human Diseases” (from August, 2016 to till date). [https://www.hindawi.com/journals/jir/si/807340/cfp/]
5. **Guest Associate Editor** of ‘Frontiers in Genetics’ for the research topic “Candidate gene and GWAS approaches for identifying vitiligo susceptibility genes: where are we now?” (From September, 2014 to December, 2016). [Website: <http://journal.frontiersin.org/ResearchTopic/3429>; <http://community.frontiersin.org/people/MiteshDwivedi/171808>]
6. **Editorial Board Member** of:
 - i). ‘**Journal of Pharmacy and Applied Sciences (JPAS)**’ published by Uka Tarsadia University (UTU), Maliba Campus, Bardoli, Gujarat, India. [Website: <http://app.utu.ac.in/JPAS/editorialboard.aspx>]
 - ii). ‘**Biotechnological Research**’ International Peer Reviewed Bio-Science Journal (Biomed Press) [Website: <http://www.biotechnologicalresearch-journal.com/editorial-board.html>]
 - iii). ‘**Acta Scientific Microbiology**’, Acta Scientific (International Open Library) [Website: <https://actascientific.com/ASMI-EB.php>]
 - iv). ‘**Virology and Immunology Journal**’, MEDWIN Publishers [Website: <https://medwinpublishers.com/VIJ/editorial-board.php>]
 - v). ‘**Journal of Virology & Antivirals**’, HERALD Publishers [Website: <http://www.heraldopenaccess.us/journals/Virology-&-Antivirals/editorial-board.php>]



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➤ As a Guiding Teacher/Teacher In-charge

Dissertation/M.Phil/PhD	Year/Semester	No. of students
Dissertation	2016	05
Dissertation	2017	08
Dissertation	2018	10
Dissertation	2019	10
Dissertation	2020	08
Dissertation	2021	07
Ph.D.	2021	01

Skills

OPERATIONAL PROFICIENCY & ANALYTICAL SKILLS

Extensive knowledge of molecular biology including DNA and RNA work [PCR, RT-PCR, Multiplex PCR, AS-PCR, ARMS PCR, PCR-RFLP, Microsatellites, RAPD, SSCP, Genotyping], cloning, gene expression (Absolute and relative), Gene Scanning through HRM and Taqman Genotyping through Real Time PCR, protein biochemistry technique including, Native PAGE, SDS PAGE, Fluorescence microscopy, UV-Visible spectroscopy, ELISA, Western blot, Multiplex ELISA for cytokines. Routine Microbial techniques, Animal Cell culture including primary Cell Culture: Human Skin Melanocytes, cell lines: SK-Mel 28 etc., FACS, Biochemical estimation of blood antioxidant parameters: Catalase, glutathione peroxidase, glucose 6 phosphate dehydrogenase, superoxide dismutase (SOD1, SOD2 & SOD3) and lipid peroxidation levels.

BIOINFORMATICS SKILLS ACQUIRED

- Local and multiple alignment tools such as FASTA, BLAST, Clustal W, etc.
- Primer and probe designing
- DNA/RNA sequence analysis
- NGS data analysis

COMPUTER & SOFTWARE KNOWLEDGE

- Proficient in Microsoft Windows XP and VISTA operating system and Microsoft Office 2000/XP.
- Photo-editing programmes such as Corel Draw and Adobe Photoshop.
- Molecular biology: Image J, Alpha Imager, Gene Scanner- ABI, Primer express and other scientific software.
- Statistics: Graph Pad Prism, MS Excel, SigmaPlot.



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Presentations

Invited Speaker

1. Delivered Expert talk on “What goes wrong with immune system and melanocytes in Vitiligo?” at Amity Institute of Biotechnology, Amity University, Jharkhand, Ranchi, India on 10th September 2021.
2. Delivered Expert talk on “Altered Immune Response and Melanocyte Destruction in Vitiligo” at Department of Microbiology, Marwadi University, Rajkot, Gujarat, India under ‘Expert lectures session of Immunology’ on 20th August 2021.
3. Delivered talk on “What goes wrong with immune system and melanocytes in Vitiligo?” under GBU recruitment process organized by Gujarat Biotechnology University (GBU), Gandhinagar, Gujarat, India in collaboration with University of Edinburgh, United Kingdom on 19th April 2021.
4. Delivered talk on “How to find appropriate journal for your research article?” in One day workshop on "How to write research article?" organized by B. V. Patel Institute of Management, Uka Tarsadia University, Bardoli on 22nd February 2020.
5. Delivered talk on “Writing a Successful Grant Application” in One day Expert Session on Research Methodology organized by Internal Quality Assurance Cell (IQAC), Uka Tarsadia University, Bardoli on 27th July 2019.
6. Delivered talk on “Deregulation of Regulatory T Cells: Could be an Answer for Autoimmunity in Vitiligo Pathogenesis” in ‘Pearls in Autoimmunity Session’ of 11th International Congress on Autoimmunity, Lisbon, Portugal held during 16 May, 2018 to 20 May, 2018.
7. Delivered talk on “Regulatory T cells in Pathogenesis of Vitiligo” in a session of “International Conference on Recent Advances in Biosciences & Bioengineering” held during 8th-10th March 2018 at Parul University, Vadodara.
8. Delivered Expert session entitled “Yuva Aagaaz (Magazine)” at The Centre of Humanities and Development, Uka Tarsadia University, Bardoli, Gujarat, India on 31st August 2017.

Conference presentations

1. **Dwivedi M***, Laddha NC and Begum R. “Deregulation Of Regulatory T Cells: Could Be An Answer For Autoimmunity In Vitiligo Pathogenesis.” 11th International Congress on “Autoimmunity”, Lisbon, Portugal, 16 May, 2018 to 20 May, 2018. ***(Received the Recognition For Outstanding Contribution To The Field Of Autoimmunity)**



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2. **Dwivedi M***, Laddha NC, Mansuri MS and Begum R. “Increased Interferon-Gamma (IFNG) and its intronic variants correlate with disease progression and higher susceptibility towards generalized vitiligo.” HGM ICG-2013 Conference on “Genetics and genomics of Human health and global sustainability”, Singapore, 13th-18th April, 2013. **(Received the HUGO Travel Award for Oral Presentation).*
3. **Dwivedi M***, Laddha NC, Imran M, Ichhaporia V and Begum R. “Association of Cytotoxic T Lymphocyte Associated Antigen-4 (CTLA-4) 3’ UTR CT60A/G and exon1 +49A/G single nucleotide polymorphisms with vitiligo susceptibility.” 4th Pan Arab Human Genetics Conference on “Genomics of Human Diversity and Heritable Disorders” Human Genome Meeting-2011, 14th -17th March, 2011, Dubai, UAE. **(Received the HUGO Young Scientist Travel Award - Category-I).*
4. **Dwivedi M***, Laddha NC, Imran M, Nateshan N, Parmar SS, and Begum R. “Genetic association of functional and structural variants in MYG1 gene with vitiligo susceptibility.” International Conference on “Molecular medicine” (MOLMED-2011), CHARUSAT, Changa, Gujarat, India, 9th -11th January, 2011. **(Received the Best Poster Award).*
5. **Dwivedi M**, Laddha NC, M. Imran, Shah K, Shah BJ and Begum R. “Role of interferon- γ polymorphisms in vitiligo susceptibility.” XXVI Gujarat Science Congress, The M. S. University of Baroda, Vadodara, Gujarat, India, February 26th 2012.
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54. Shah F and **Dwivedi M.** “Therapeutic Advances In Sickle Cell Disease Management”. International Conference on “Frontiers in Life Sciences and Earth Sciences”. Prof. Ramkrishna More Arts, Commerce & Science College, Akurdi, Pune, Maharashtra, India, 18th-19th January, 2018.
55. Kurkutia DK, Mistry NP and **Dwivedi M.** “Potential Probiotics From Human Breast Milk And *In Vitro* Assessment Of Their Biosafety Aspects”. International Conference on Recent Advances in Biosciences and Bioengineering (ICRABB) organized at Parul Institute of Applied Science, Parul University, Vadodara, Gujarat, India on March 8th - 10th, 2018.
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59. Shah F, Patel KK and **Dwivedi M.** “Isolation of Exopolysaccharide Producing (EPS) Bacteria and Study on Extracted EPSs’ Antibacterial



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60. Sharma M, Sharma V, Ezhuthachan D and **Dwivedi M.** "Nano-Postbiotics Could be an Alternative Therapeutic Regimen for Rheumatoid Arthritis". National Conference on Nanoparticulate Drug Delivery System: From Bench to Beside organized at Maliba Pharmacy College, Uka Tarsadia University, Bardoli, Gujarat, India on 9th -10th March 2018.
61. **Dwivedi M,** Patel DN, Pathak VN, Laddha NC, Singh M, Begum R and Desai B. "Association of insertion-deletion polymorphism of angiotensin converting enzyme gene with rheumatoid arthritis susceptibility in South Gujarat population." World Immunology Congress, organized on December 14-15, 2017 Dubai, UAE.
62. Shah F and **Dwivedi M.** "*In vitro* Anti-Sickling Effect of Boerhavia diffusa Plant Extract on Erythrocytes obtained from Sickle Cell Patients" XXXIII Gujarat Science Congress 2019 held at L.J. Institute of Applied Sciences, Ahmedabad, Gujarat, India on 2nd-3rd February 2019. **(Received 'Best Poster Award' First Prize with cash prize of Rs. 1000)**
63. Sharma M and **Dwivedi M.** Genetic Association Study of HLA-B27 Allele in Patients with Rheumatoid Arthritis from South Gujarat Population. XXXIII Gujarat Science Congress 2019" held at L.J. Institute of Applied Sciences, Ahmedabad, Gujarat, India on 2nd-3rd February 2019.
64. Ezhuthachan D and **Dwivedi M.** Genetic Association Study of Neuropeptide Y (NPY) Promoter Polymorphism with Rheumatoid Arthritis (RA) Susceptibility in South Gujarat Population. XXXIII Gujarat Science Congress 2019" held at L.J. Institute of Applied Sciences, Ahmedabad, Gujarat, India on 2nd-3rd February 2019.
65. Sharma V and **Dwivedi M.** "Assessment of Probiotic Properties of Isolates Obtained From Fish Gut." National Conference on "Microbiome Research: Understanding the diversity to improve plant, animal, human and environmental health" held at Uka Tarsadia University, Bardoli, Gujarat, India on 07th - 09th March, 2019. **(Received First Prize for Best Oral Presentation)**
66. Patel S and **Dwivedi M.** "Role of probiotics in suppression of autoimmunity through induction of regulatory T cells." National Conference on "Microbiome Research: Understanding the diversity to improve plant, animal, human and environmental health" held at Uka Tarsadia University, Bardoli, Gujarat on 07th - 09th March, 2019. **(Received Third Prize for Poster Presentation)**
67. Ezhuthachan D and **Dwivedi M.** "Genetic Association Study of Neuropeptide Y (NPY) Promoter Polymorphism with Rheumatoid Arthritis (RA) Susceptibility in South Gujarat Population." National Conference on Recent Trends in Pure and Applied Sciences - 2019 held on 24th February 2019 at Bhagwan Mahavir College of Science and Technology, Surat. **(Received First Prize for Best Poster Presentation)**

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69. Goyal A and **Dwivedi M.** Effects of indigenous medicinal plants' extracts (Jatropha curcas and Tridax procumbens) on Blood coagulation. National Conference on Recent Trends in Pure and Applied Sciences - 2019 held on 24th February 2019 at Bhagwan Mahavir College of Science and Technology, Surat.
70. Patel S and **Dwivedi M.** Sorbitan ester nanoparticles (SENS) as a novel topical ocular drug delivery system. International Conference 'Nanotechnology and its Applications to Ocular Drug Delivery Systems' organized by Maliba Pharmacy College, Uka Tarsadia University, Bardoli, Gujarat, India on 28th - 30th January 2019.
71. Sharma V and **Dwivedi M.** An advanced nanoparticles based gene therapy for restoring vision in diabetic retinopathy. International Conference 'Nanotechnology and its Applications to Ocular Drug Delivery Systems' organized by Maliba Pharmacy College, Uka Tarsadia University, Bardoli, Gujarat, India on 28th - 30th January 2019.
72. Ezhuthachan D and **Dwivedi M.** Prevotella species: a Boone or a Curse for Rheumatoid Arthritis Patients? National Conference on "Microbiome Research: Understanding the diversity to improve plant, animal, human and environmental health" held at Uka Tarsadia University, Bardoli, Gujarat on 07th - 09th March, 2019.
73. Singh MB and **Dwivedi M.** Isolation and Characterization of Endophytic Bacteria from different Ethnomedicinal Plants. National Conference on "Microbiome Research: Understanding the diversity to improve plant, animal, human and environmental health" held at Uka Tarsadia University, Bardoli, Gujarat on 07th - 09th March, 2019.
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75. Solanki T and **Dwivedi M.** Isolation and Molecular Characterization of Lipolytic Bacteria from Oil Processing Unit. National Conference on "Microbiome Research: Understanding the diversity to improve plant, animal, human and environmental health" held at Uka Tarsadia University, Bardoli, Gujarat on 07th - 09th March, 2019.
76. Patel H, Gulani H and **Dwivedi M.** Role of Microorganisms in Vitiligo Pathogenesis. National Conference on "Microbiome Research: Understanding the diversity to improve plant, animal, human and environmental health" held at Uka Tarsadia University, Bardoli, Gujarat on 07th - 09th March, 2019.
77. Pathak VN, Patel UV, **Dwivedi M**, Mehta NT, Thaker PJ and Barot N. Comparison of Real Time PCR Method and Conventional PCR Based Method for Detection of Chikungunya & Dengue Virus. National Conference on "Microbiome Research: Understanding the diversity to improve plant, animal, human

and environmental health" held at Uka Tarsadia University, Bardoli, Gujarat on 07th - 09th March, 2019.

78. Patel S and **Dwivedi M.** The Role of Gut Microbiota Dysbiosis in Increase Pathogenesis of SCD. Comparison of Real Time PCR Method and Conventional PCR Based Method for Detection of Chikungunya & Dengue Virus. National Conference on "Microbiome Research: Understanding the diversity to improve plant, animal, human and environmental health" held at Uka Tarsadia University, Bardoli, Gujarat on 07th - 09th March, 2019.
79. Shah F and **Dwivedi M.** Role of Microorganisms in Modulating Hemoglobin Structure: A Therapeutic Perspective for Sickle Cell Disease. National Conference on "Microbiome Research: Understanding the diversity to improve plant, animal, human and environmental health" held at Uka Tarsadia University, Bardoli, Gujarat on 07th - 09th March, 2019.
80. Giri PS, Patel SK, Bharti AH and **Dwivedi M.** Altered Transcript Profile of *NFATs-FOXP3* Genes Axis: A Deregulation of Regulatory T cells in Generalized Vitiligo. International conference MOLMED 2019 held at CHARUSAT-Changa, Dist Anand, India on 25th -27th September 2019.
81. Patel S and **Dwivedi M.** Study of anti-sickling activity of *Withania somnifera* root extract on erythrocytes obtained from sickle cell disease patients. "The National Conclave on Sustainable CSR Projects in Rural India", Under the category "Challenges faced by rural areas and ways to overcome" held during 11th to 13th October 2019 organized by TGG Foundation in association with C.G. Bhakta Institute of Biotechnology, Uka Tarsadia University. **(Received Best Paper Presentation Winner Award)**
82. Patel S, Giri P and **Dwivedi M.** FOXP3 Promoter Polymorphism May Cause Increased Susceptibility to Generalized Vitiligo in South Gujarat population. "The National Conclave on Sustainable CSR Projects in Rural India", Under the category "Challenges faced by rural areas and ways to overcome" held during 11th to 13th October 2019 organized by TGG Foundation in association with C.G. Bhakta Institute of Biotechnology, Uka Tarsadia University. **(Received Best Paper Presentation Runner up Award)**
83. Gupta B and **Dwivedi M.** Interleukin-4 VNTR Polymorphism May Cause Increased Susceptibility to Rheumatoid Arthritis in South Gujarat Population. "The National Conclave on Sustainable CSR Projects in Rural India", Under the category "Challenges faced by rural areas and ways to overcome" held during 11th to 13th October 2019 organized by TGG Foundation in association with C.G. Bhakta Institute of Biotechnology, Uka Tarsadia University.
84. Patel S, Giri PS and **Dwivedi M.** Investigation of Genotype-phenotype correlation of FOXP3 promoter polymorphism for Generalized Vitiligo Susceptibility in Gujarat population. UGC supported National Conference on "Current Trends in Biological Sciences-V" (CTBS-2020) held on 15th February 2020 organized by Post Graduate Department of Biosciences, Centre of Advanced study, Sardar Patel University, Bakrol, Gujarat, India.
85. Gupta B, Giri PS and **Dwivedi M.** Association of Interleukin-4 VNTR polymorphism with increased susceptibility to Rheumatoid Arthritis in

South Gujarat Population. UGC supported National Conference on “Current Trends in Biological Sciences-V” (CTBS-2020) held on 15th February 2020 organized by Post Graduate Department of Biosciences, Centre of Advanced study, Sardar Patel University, Bakrol, Gujarat, India.

86. Shah F and **Dwivedi M.** Pathophysiological role of microbiota affecting gut-brain axis: Intervention of Probiotics in Autism Spectrum Disorder. 5th Biennial Virtual Conference of PAi and International Symposium on “Probiotics and Immunity: Way Forward to Microbial Therapy” organized by Probiotic Association of India (PAi) in association with ICAR-National Dairy Research Institute, Karnal, India during November 19-20, 2020. Poster ID: POSTER-24 (ID: BCPI363) <http://www.probioticindia.com/conferences/2020/posterview.php#poster>
87. Shah F, Parikh CV and **Dwivedi M.** Promising anti-sickling and fetal hemoglobin inducing effects of *Boerhavia diffusa* root extract on sickle cell erythrocytes obtained from sickle cell patients of South Gujarat. 19th World Hematology Congress (Webinar) organized by Conference Series LLC Ltd., U.K., held on 15 March 2021. (Oral presentation)

Professional/Research Training

WORKSHOPS/TRAININGS/FDPs ATTENDED

1. Two-Days National Level Workshop (DST-GUJCOST Sponsored) on “**Intellectual Property Rights and Patenting**” organized by Tolani Commerce College, Adipur, Kachchh in collaboration with L. M. College of Pharmacy, Ahmedabad, Gujarat, India during 13th -14th August 2021.
2. Two-Days National Level Workshop on “**Intellectual Property Rights**” organized by Department of Biotechnology, Christ College, Rajkot Under DBT STAR College Scheme funded by Department of Biotechnology, Government of India, New Delhi during 22nd - 23rd July 2021.
3. One day Online Workshop on ‘**Science Communication: Impact beyond publication**’ organized by DBT/Wellcome Trust India Alliance, India on 16th February 2021.
4. Seven days Online Faculty Development Programme (FDP) on ‘**Research Methodology**’ organized by School of Sciences, P. P. Savani University, Surat, India during 5th to 11th October 2020.
5. Sixteen days FDP on ‘**ABC of Scientific Writing**’ organized by Krishi Vigyan Kendra, Cuttack, Santhapur, and ICAR-National Rice Research Institute (ICAR-NRRI), Cuttack, India during 18th August to 02nd September 2020.
6. Three days FDP on ‘**Responsibilities of Microbiologists in Combating Pandemic**’

Diseases' organized by the Department of Microbiology, K. S. Rangasamy College of Arts & Science (Autonomous), Tiruchengode, India during 8th – 10th July 2020.

7. Seven days National Science Academies '**Science Leadership Workshop**' organized by Central University of Punjab, Bhatinda, India during 22nd June -28th June 2020.
8. Two days International '**SPARC-INDO-US Immunology Workshop**' jointly organized by Indian Institute of Technology (IIT), Ropar, India & The George Washington University, USA during 12th June – 13th June 2020.
9. One week Online International Faculty Development Program on '**Skilling Teachers for Online Education**' organized by Department of Humanities, Uka Tarsadia University, India during 2nd to 6th June 2020.
10. One Week National Level e-Faculty Development Programme on '**Comprehensive Quality Initiatives for Higher Education in Pandemic Era**' organized by Internal Quality Assurance Cell of Uka Tarsadia University (UTU), Bardoli, Gujarat during 26th - 30th May 2020.
11. **Indian National Science Academy (INSA)** sponsored One month research training as INSA Visiting Scientist at Prof. B. K. Thelma's Lab., Department of Genetics, University of Delhi South Campus, New Delhi from 4th November 2019 to 4th December 2019.
12. GUJCOST Sponsored Two Days National Workshop on "**Add Value to Research by Patenting**" held at Maliba Pharmacy College, Uka Tarsadia University, Bardoli from 9th to 10th August 2019.
13. UGC-HRDC, RUSA Sponsored Faculty Development Programme on "**Tools & Techniques in Biological Sciences**" Organized by UGC-Human Resource Development Centre, Gujarat University, Ahmedabad at Department of Microbiology from 25th to 30th October 2018.
14. A Five days **Faculty development programme (Phase-II)** at Centre for Humanities & Development, Uka Tarsadia University, Tarsadi, Bardoli, Gujarat from 26th November 2018 to 30th November 2018.
15. A Twenty One days National Training Programme on "**Probiotics: The therapeutics of 21st Century**" sponsored by Agricultural Education Division, Indian Council of Agricultural Research (ICAR), organized by Dairy Microbiology Division, Centre of Advanced Faculty Training in Dairy Processing at ICAR-National Dairy Research Institute, Karnal, Haryana, India from November 08th – 28th, 2016.
16. A Fifteen days **Faculty development programme (Phase-I)** at Centre for Humanities & Development, Uka Tarsadia University, Tarsadi, Bardoli, Gujarat from 15th December 2016 to 31 December 2016.
17. A six days workshop on "**Next Generation Sequencing Data analysis of Microbial**

Genomes and Metagenomes” Organized by Gujarat Institute of Bioinformatics (GIBS), GSBTM, Gandhinagar, Gujarat, India from November 24th -29th, 2014.

18. A four days workshop on **“DNA Damage and Repair Mechanism”** Organized by Department of Biochemistry, Faculty of Science, The M. S. University of Baroda, Vadodara, India and Laval university, Faculty of Medicine, Qubec, Canada from December 19th -22nd, 2011.
19. A four days workshop on **“Analyses of Cell Death in Mammalian Cells”** Organized by Department of Biochemistry, Faculty of Science, The M. S. University of Baroda, Vadodara, India and Laval university, Faculty of Medicine, Qubec, Canada from December 21st -24th, 2010.

SEMINARS/CONFERENCE/SYMPOSIA ATTENDED

1. Attended Two days Webinar on **“Navigating the Pathways of Research Publishing in Scopus-indexed journals”** organized by Research and Consultancy Cell, Vidya Prabodhini College (VPCCECM), Goa on 24th and 25th September 2021.
2. Attended the International Webinar on **“The need to move towards Inter and Trans-disciplinarily Research for Impactful Innovations”** organized by the Department of Chemistry, JSS Academy of Technical Education, Bengaluru, India on 24th September 2021.
3. Attended the **6th Annual Symposium on “Cell and Gene Therapy”** organized by Centre for Stem Cell Research, A unit of inStem, Bengaluru, Christian Medical College Campus, Bagayam, Vellore, India from 1st - 3rd September, 2021.
4. Attended the One day Webinar on **“Application of Antigen Rapid Diagnostic Tests and Serological Tests in Comprehending and Controlling COVID - 19”** organized by Department of Microbiology & Department of Medical Lab. Technology Mehsana Urban Institute of Sciences, Ganpat University, Gujarat, India on 03rd September 2021.
5. Attended the One day Webinar on **“Future Trends and Opportunities in Healthcare Sector”** organized by School of Engineering, Indrashil University, Rajpur, Kadi, India on 05th August 2021.
6. Attended the National webinar on **“Microbial Aspects of Probiotics & Human Health”** organized by Department of Microbiology and Biotechnology, Gujarat University, Ahmedabad, Gujarat, India on 16th July 2021.
7. Attended the National webinar and Panel discussion on **“Respiratory Infections in the COVID19 Era- How long can we dodge the Influenza viruses?.”** organized by HCP Forum (A united platform for Healthcare Professionals) on 10th July 2021.

8. Attended the National webinar on **“NAAC Related Quality Enhancement Techniques”** organized by Internal Quality Assurance Cell (IQAC) of Government Science College, Vankal, Dist. Surat, Gujarat on 30th June 2021.
9. Attended the Online Expert Talk on **“Scientific Writing with Focus on Writing Research Proposal for Acquiring Funds & Grants”** jointly organized by Departments of Biotechnology & Bioinformatics, Faculty development Committee (FDC) & Research Committee, Christ College, Rajkot and funded by DBT, Ministry of Science & Technology, Government of India, New Delhi, (Under DBT sponsored Star College Scheme) on 29th June 2021.
10. Attended the online webinar on **“Frontiers in Biochemical Sciences”** organized by Department of Studies in Biochemistry, Davangere University, Davangere, Karnataka and Society of Biological Chemists (India), Davangere Branch on 19th June 2021.
11. Attended the online webinar on **“Full Flow Cytometry: A Better Way of Doing Flow Cytometry”** organized by Labindia Analytical Instruments Pvt Ltd, India Cytek Biosciences, USA held on 8th June 2021.
12. Attended the online webinar on **“Panel Discussion on Challenges of Gaucher Disease Management”** organized by Takeda held on 21st May 2021.
13. Attended the **“BISMis (Bergey’s International Society for Microbial Systematics)”** live Third Session on 16th May 2021.
14. Attended the International Webinar on **“Senior and Intermediate Fellowships (SIF) Full Application”**, organized by India Alliance (IASys) on 30th April 2021.
15. Attended the International 11th India Probiotic Symposium on **“Role of Gut Microbiota and Probiotics in Reducing Viral infections- Mechanisms to Combat Them”** organized by the Gut Microbiota and Probiotic Science Foundation (India) during 13th to 14th March 2021.
16. Attended the International E-Conference on **“Biologics in Healthcare 2021: Unfolding Genes to Proteins”**, sponsored by GSBTM-DST and Thermo Fisher; organized by L.M. College of Pharmacy, Ahmedabad during 4th to 7th February 2021.
17. Attended the International Webinar on **“Senior and Intermediate Fellowships in Basic Biomedical Research”**, organized by India Alliance (IASys) on 10th February 2021.
18. Attended the International Webinar on **“Size Does Not Matter – MicroRNAs and Myelination”**, organized by Department of Biotechnology, Smt. S. S. Patel Nootan Science and Commerce College, Sankalchand Patel University, Visnagar under the **Multidisciplinary International Webinar Series** held on 30th January 2021.
19. Attended the National Virtual Symposium on **“Recent Trends in Modern Biology**

(RTIMB)” organized by Department of Biological Sciences, P. D. Patel Institute of Applied Sciences, CHARUSAT, Changa, Gujarat, India in association with GSBTM, Gandhinagar, during 10 to 12 December 2020.

20. Attended the 5th Biennial Virtual Conference of PAi and International Symposium on **“Probiotics and Immunity: Way Forward to Microbial Therapy”** organized by Probiotic Association of India (PAi) in association with ICAR-National Dairy Research Institute, Karnal, India during November 19-20, 2020.
21. Attended the National Webinar on **“Bio-Innovation – The Past and Present”** organized by Department of Biotechnology, Smt. S. S. Patel Nootan Science and Commerce College, Sankalchand Patel University, Visnagar in association with Microbiologists Society India (on the occasion of Global Biotech Week 2020) on 5th October 2020.
22. Attended the National Webinar on **“Practical Aspects of Patents and IPR”** organized by Dr. Vikram Sarabhai Institute of Cell and Molecular Biology, Faculty of Science, The M S University of Baroda, Vadodara, Gujarat, India on 9th September 2020.
23. Attended the National Webinar on **“Techniques in Molecular Biology: A Virtual Laboratory Insight”** organized by Department of Genetics & Biotechnology, University College for Women, Koti, Hyderabad, India on 12th August 2020.
24. Attended the National Webinar on **“National Webinar on Revised Assessment and Accreditation process of NAAC for Higher Education Institutions”** organized by Internal Quality Assurance Cell of Uka Tarsadia University (UTU), Bardoli, Gujarat in Association with National Assessment and Accreditation Council, Bangalore on 10th August 2020.
25. Attended the International Webinar on **‘Bridging the gap - opening up large volumes to Nanotechnology’** organized by School of Sciences, P. P. Savani University, India on 25th July 2020.
26. Attended the International Webinar on **‘Design of Ligand-targeted Therapies for Treatment of Diseases’** organized by Department of chemistry, SRM Institute of Science & Technology, Kattankulathur, Tamil Nadu, India on 20th July 2020.
27. Attended the one day International Webinar on **‘Strategies to Boost Immunity by Functional Foods to Combat COVID-19’** jointly organized by Department of Food Processing and Department of Nutrition and Research Cell, Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, West Bengal, India on 15th July 2020.
28. Attended the **‘STI Connect Forum at University for R&D Proposals on State Priority areas of Science & Technology’**, sponsored by Gujarat Council of Science and Technology (GUJCOST), and held at Sardar Vallabhbhai National Institute of Technology, Surat, India organized on 7th July 2020.
29. Attended the International Webinar on **‘COVID-19: Recent Research Trends’** jointly organized by M. K. Bhavnagar University, COVID-19 Omics Research Consortium, Sir P.P. Institute of Science and The KPES Science

College, Bhavnagar, India on 5th July 2020.

30. Attended the webinar on '**Genomics and Opportunities in Biotechnology**' organized by School of Biotechnology and Bioinformatics, D. Y. Patil Deemed to be University, Navi Mumbai, India on 4th July, 2020.
31. Attended the National Webinar on '**COVID-19: Challenges & Possibilities in Immunotherapy**', organized by School of Sciences, P. P. Savani University, Surat, India on 3rd July 2020.
32. Attended the International Alumni webinar Lecture Series on '**Worldwide Opportunities for Biological Sciences**' organized by Department of Biochemistry, Kongunadu Arts & Science College (KASC), Coimbatore, India during June 2020.
33. Attended the Webinar on '**Skill of Research Paper Writing**' organized by RKDF University, Bhopal, M.P., India on 23rd June 2020.
34. Attended the National Webinar Series (NWS)-2020 on '**Immunity and infection: Biochemical approaches to therapies**', organized by Department of Biochemistry and Society of Biological Chemists (India), Davangere Branch, India during 15th - 21st June 2020.
35. Attended the webinar on '**Nurturing Mental Health - The Cloud of Depression**' organized by C. G. Bhakta Institute of Biotechnology, Uka Tarsadia University, India on 21st June 2020.
36. Attended the International webinar on '**Probiotics and Immunity: A long but interesting story?!**' organized by Department of Biotechnology, Christ College, Rajkot on 18th June 2020.
37. Attended the National webinar on '**Research and Education during Covid-19 Pandemic: An opportunity foretold?**' organized by Dr. Vikram Sarabhai Institute of Cell and Molecular Biology, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India on 15th June 2020.
38. Attended the Indo-UK Virtual Conference '**Current Innovations and the Future of Therapeutic Developments**' (CIFTD-2020), organized by Centre for Biomaterials Cellular & Molecular Theranostics (CBCMT) at Vellore Institute of Technology (VIT), Vellore, India and Swansea University, United Kingdom during 1st - 3rd June, 2020.
39. Attended the webinar on '**Scope and importance of Data Integrity in Good Laboratory Practices**', organized by Vivekananda College of Pharmacy, Bangaluru and Group Pharmaceuticals Pvt. Ltd., Mumbai, held on 29th May 2020.
40. Attended the International Webinar Conference on '**Impact of Natural Bioactive Compounds for the Treatment of Covid-19 Diagnostic challenges and Future Perspectives**', organized by HeriCure HealthCare Group, Pune, India & University of KwaZulu-Natal, Durban, South Africa during 30th - 31st May, 2020.

41. Attended the International Webinar on ‘**Modern Trends in Experimental Research: Insights from Regenerative Medicine and Metagenomics**’ jointly organized by Internal Quality Assurance Cell, Faculty of Science and Institute for Interdisciplinary Studies, The Maharaja Sayajirao University of Baroda, Vadodara, held during 30th -31st May 2020.
42. Attended National Webinar on ‘**Loss of GSK-3 β Kinase Mediated Phosphorylation in an HtrA2 Variant Contributes to Parkinsonian Phenotype**’ organized by Department of Biochemistry, The M.S. University of Baroda, Vadodara on 22nd May 2020.
43. Attended National Webinar on ‘**Microbiology: Prospects and Future**’ organized by C.B. Patel Computer College and J.N.M. Patel Science College, Bharthana (Vesu), Surat, Gujarat during 27th-28th May 2020.
44. Attended National Webinar on ‘**Bioinformatics: Applications and Aspects**’ organized by C.B. Patel Computer College and J.N.M. Patel Science College, Bharthana (Vesu), Surat, Gujarat during 29th-30th May 2020.
45. Attended one week National Webinar Series on ‘**Research & Development**’ organized by Uka Tarsadia University, Bardoli, Surat, Gujarat during 11th -16th May 2020.
46. International Conference on ‘**Nanotechnology and its Applications to Ocular Drug Delivery Systems**’ organized by Maliba Pharmacy College, Uka Tarsadia University, Bardoli, Gujarat, India on 28th - 30th January 2019.
47. One day Seminar on “**Exploring Funding Opportunities to Enhance Research**” organized by Directorate of Research & Innovation, Nirma University, Ahmedabad on 16th February, 2019.
48. GSBTM sponsored one day Seminar on ‘**Biomedical Research in Gujarat: The Road Ahead**’ Organized jointly by Gujarat State Biotechnology Mission (GSBTM), Department of Science and Technology (DST), Government of Gujarat and The Civil Hospital, Ahmedabad at Asmita Vhavan, Civil Hospital, Ahmedabad, India on 18th June, 2016.
49. GUJCOST (DST) sponsored one day National Seminar on ‘**Futuristic Perspectives on Inhaled Drug Therapy**’ Organized by Maliba Pharmacy College, Uka Tarsadia University, Tarsadi, Bardoli, Gujarat, India on 9th January, 2016.
50. GUJCOST (DST) sponsored one day Symposium on ‘**Innovations and Practices in Teaching Learning Pedagogy**’ Organized by Maliba Pharmacy College, Uka Tarsadia University, Tarsadi, Bardoli, Gujarat, India on 26th March, 2016.
51. EdWorld Education sponsored One day ‘**Gujarat Education Conference 2016- Excellence in Education**’ Organized by Innovate You-Innovation Consulting Company, Uka Tarsadia University, Maliba Campus, Tarsadi, Bardoli, Gujarat, India on 21st February, 2016.
52. GUJCOST (DST) and GSBTM sponsored Two days International Seminar on ‘**Current**

Trends in Biological Sciences' Organized by Department of Biochemistry, M. G. Science Institute, Ahmedabad, Gujarat, India on 26th- 27th December, 2015.

53. GUJCOST (DST) sponsored one day Symposium on **'Nanotechnology-based Drug Delivery: Opportunities and Challenges'** Organized by Maliba Pharmacy College, Uka Tarsadia University, Tarsadi, Bardoli, Gujarat, India on 11th April, 2015.
54. Two days National Conference on **'Innovations and recent trends in Drug Discovery Techniques, Radio-Labeling and Applied Science Research'** Organized by Department of Chemistry and Maliba Pharmacy College, Uka Tarsadia University, Tarsadi, Bardoli, Gujarat, India on 23rd-24th January, 2015.
55. 2nd PAi Conference and International Symposium on **'Probiotic and Microbiome – Gut and Beyond'** Organized by Probiotic Association of India (PAi), National Dairy Research Institute, Karnal, Haryana, India at India Habitat Centre, New Delhi on 3rd-4th November, 2014.
56. One day seminar on **'Patent Search Methodology'** Organized by Uka Tarsadia University, Maliba Campus, Tarsadi, Gujarat, India on 21st September, 2014.
57. DST & DBT sponsored Three days International Conference on "Current Status, Opportunities and Challenges in Medicinal Plants and Natural Product Research" Organized by C. G. Bhakta Institute of Biotechnology, Uka Tarsadia University, Bardoli, Gujarat, India on 24th-26th, September 2014.
58. GCST & DST sponsored Two Days National Seminar on **'Biostatistics and Data Analytics'** Organized by Department of Statistics, Faculty of Science, The M. S. University of Baroda, Vadodara, Gujarat, India on 23rd - 24th December, 2013.
59. UGC XI Plan Scheme of Life Long Learning and Extension Centre for Continuing /Adult Education and Community Services Sponsored Seminar on **'Entrepreneurship Development'** Organized by Faculty of Social Work, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India on 5th January, 2012.
60. UGC sponsored One Day National Level Seminar on **'Recent Advances in Microbial Technology'** Organized by Department of Microbiology, Shree M & N Virani Science College, Rajkot, Gujarat, India on 28th February, 2011.
61. Symposium on **'Genetics in Clinical Practice: Diagnosis to Therapeutics'** Organized by FRIGE's Institute of Human Genetics & Indian Academy of Pediatrics, Ahmedabad, Gujarat, India on 12th December, 2010.
62. UGC sponsored One Day National Level Symposium on **'Patent Awareness and Scientific Writing'** Organized by The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India on 27th March, 2009.
63. Society of Biological Chemists, India (Baroda Chapter) sponsored One Day National Level Seminar on **'Silencing the message: mi and siRNAs'** Organized by Departments of Microbiology and Biochemistry, Faculty of Science,

The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India on 27th November, 2008.

64. UGC Sponsored One Day National Level Seminar on ‘**Bioinformatics: Emerging Trends**’ Organized by Shree M & N Virani Science College, Hemu Gadhavi Hall, Rajkot, Gujarat, India on 1st January, 2006.
65. Indian Science Academy Sponsored Two Day Seminar on ‘**Modern Biology: Facets & Prospects**’ Organized by Department of Biochemistry, The M. S. University of Baroda, Vadodara & Tata Institute of Fundamental Research, Mumbai, Maharashtra, India from 10th -11th October, 2005.
66. UGC sponsored One Day National Level Seminar on ‘**50 Years of DNA Double Helix: Retrospects & Prospects**’ Organized by Shree M & N Virani Science College, Rajkot, Gujarat, India on 11th October, 2004.

Publications

1. Giri PS, Shah F, Gupta B, Dhangar A, Pathak VN, Desai B and **Dwivedi M** (2021). Genetic Association of Interleukin-4 VNTR Polymorphism with Susceptibility to Rheumatoid Arthritis in South Gujarat Population. *Gene Reports* 25 (2021) 101322. <https://doi.org/10.1016/j.genrep.2021.101322> (**IF 0.61**)
2. Shah F, Patel S, Begum R and **Dwivedi M*** (2021). Emerging Role of Tissue Resident Memory T cells in Vitiligo: From Pathogenesis to Therapeutics. *Autoimmunity Reviews*. 20(08): 102868. <https://doi.org/10.1016/j.autrev.2021.102868> (**IF 9.75**)
3. Singh M, Mansuri MS, Kadam A, Palit SP, **Dwivedi M**, Laddha NC and Begum R (2021). Tumor Necrosis Factor-alpha affects melanocyte survival and melanin synthesis via multiple pathways in Vitiligo. *Cytokine*. 140: 155432 (**IF 3.861**)
4. Giri PS, Patel S, Begum R and **Dwivedi M*** (2021). Association of *FOXP3* and *GAGE10* Promoter Polymorphisms and Decreased FOXP3 Expression in Regulatory T cells with Susceptibility to Generalized Vitiligo in Gujarat Population. *Gene*. 768: 145295. <https://doi.org/10.1016/j.gene.2020.145295>. (**IF 3.688**)
5. Shah F, **Dwivedi M*** and Parikh CV (2020). Promising Anti-sickling and Fetal Hemoglobin Inducing effects of *Boerhavia diffusa* Root Extract on Sickle Cell Erythrocytes. *J. Herb. Med.* 24:100398 doi.org/10.1016/j.hermed.2020.100398. (**IF 3.032**)
6. Giri PS, **Dwivedi M***, and Begum R (2020). Decreased suppression of CD8+ and CD4+ T cells by peripheral Regulatory T cells in Generalized Vitiligo due to reduced NFATC1 and FOXP3 proteins. *Exp Dermatol.* 29(8):759-775. doi.org/10.1111/exd.14157 (**IF 3.960**)

7. Giri PS, **Dwivedi M***, Laddha NC, Begum R, and Bharti AH (2020). Altered expression of nuclear factor of activated T cells, Forkhead Box P3 and immune suppressive genes in regulatory T cells of generalized vitiligo patients. *Pigment Cell Melanoma Res.* 33(4): 566-578. doi: 10.1111/pcmr.12862. (IF 4.693)
8. Shah F and **Dwivedi M*** (2020). Pathophysiology and Recent Therapeutic Insights of Sickle Cell Disease. *Ann. Hematol.* 99: 925-935 (IF 3.673)
9. Patel N, **Dwivedi M***, Jadeja S and Begum R (2020). Antibacterial Activity of Marine Bacterial Pigments Obtained from Arabian Sea Water Samples. *J Pure Appl Microbiol.* 14 (1): 517-526.
10. Kurkutia DK, Mistry N and **Dwivedi M*** (2019). Probiotic Properties and *In vitro* Biosafety Assessment of Human Breast Milk Isolates. *J Pure Appl Microbiol.* 13(2): 1121-1134.
11. **Dwivedi M***, Patel DN, Pathak VN, Laddha NC, Begum R and Desai B (2018). Insertion-deletion Polymorphism of Angiotensin Converting Enzyme and Rheumatoid Arthritis Susceptibility in South Gujarat Population. *Gene Reports.* 13: 42-48. (IF 0.61)
12. Thadani J, **Dwivedi M**, Ansari S, Singh M, Bhatwadekar S, Barot B, Begum R, and Salunke S (2018). Role of TNF α -308 G/A, TNF β +252 A/G and IL10 -592 C/A and -1082 G/A SNPs in pathogenesis of Immune Thrombocytopenia Purpura in population of Gujarat, India. *Gene Reports.* 12: 304-309. (IF 0.61)
13. **Dwivedi M*** (2018). Role of Probiotics in Immune Regulation. *Acta Scientific Microbiol.* 1(1): 29-30. (IF 1.172)
14. **Dwivedi M***, Laddha NC, and Begum R (2018). Viral causes of Vitiligo: A New Perspective for Vitiligo Pathogenesis. *Virol Immunol J.* 2(8):000181. (IF 2.0043)
15. Shukla V, Mishra GV, and **Dwivedi M*** (2018). *In Vitro* Inhibition of Tinea Corporis from Various Extracts of *Aloe vera* and *Azadirachta indica*. *Acta Scientific Microbiol.* 1(9): 16-23. (IF 1.172)
16. Patel KK, Shah F, and **Dwivedi M*** (2018). Exopolysaccharide (EPS) Producing Isolates from Sugarcane Field Soil and Antibacterial Activity of Extracted EPSs. *Acta Scientific Microbiol.* 1(4): 06-13. (IF 1.172)
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MEMBERSHIPS: Scientific Societies

1. “The Indian Society of Human Genetics (**ISHG**)”, Hyderabad, India. [Membership No. L/1752/2014] (Life Member)
2. “Human Genome Organization (**HUGO**) International Limited”, Singapore. (Validity: 31st December 2013) (Annual Member)
3. “Probiotic Association of India (**PAI**)”, National Dairy Research Institute, Karnal, Haryana, India. [Membership No. LM345] (Life Member)
4. “IACSIT- Reproductive Biology and Genetics Society (**IACSIT-RBGS**)”, Singapore. [Membership No. 80348019] (Life Member)
5. “Publication Integrity & Ethics (**PIE**)”, <http://www.integrity-ethics.com>. [Membership No. 100208] (Life Member)
6. “International Society for Infectious Diseases (**ISID**)”, Brookline, USA.
7. “Vitiligo Research (**VR**)” Foundation, <http://vrfoundation.org/maps/2>.
8. “Vitiligo Support International (**VSI**)”, Lynchburg, Virginia, USA.



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9. “The Vitiligo Society of South Africa (*VSSA*)”, Durban, South Africa.
10. “American Vitiligo Research Foundation (*AVRF*)”, Clearwater, Florida, USA.
11. “Autoimmune Resource & Research Centre (*ARRC*)”, arrc@hnehealth.nsw.gov.au.
12. “Autoimmunity Network”, <http://www.autoimmunity-network.com/forum>.
13. “Society of Biological Chemists (*SBC*)-Baroda Chapter”, Vadodara, India.
14. “Society for Reproductive Biology and Comparative Endocrinology (*SRBCE*)”, Chennai, India.
15. “Society for Ethnopharmacology (*SFE-INDIA*)”, Jadavpur, Kolkata, India. [Membership No. SFE/16/I-787] (Validity: 30th April 2017) (Annual Member)

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