

Name Ms. Gurprit Bhardwaj

Designation Visiting Professor-Life Science, GSFC University

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School: School of Science



Research Interest:

- Biochemistry
- Medical Biotechnology
- Stem Cell Biology and Metabolic Disorders
- Systems biology

Academic Background:

Degree	Subject	University	Year
Ph. D.	Biochemistry	The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India	(Thesis submitted 2022)
Integrated M.Sc.	Medical Biotechnology	ARIBAS College, Sardar Patel University, Anand, Gujarat, India	2013

Professional Experience:

Research experience

- ◆ Pursued dissertation at National Institute of Research in Reproductive health (NIRRH) Indian Council of Medical Research (ICMR) Mumbai, Maharashtra, India)
- ◆ Awardee of **Senior Research Fellowship** by Indian Council of Medical Research (ICMR) December 2018-November 2021.
- ◆ Awardee of **University Research Scholarship** from February 2018 to November 2018 at The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India.
- ◆ **Technical Assistant** at MSUB DBT ILSPARE at Dr. Vikram Sarabhai Institute of Cell and Molecular Biology from September 2017 to February 2018 at The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India.
- ◆ **Project Fellow** under the UGC-DRS Programme from September 2016-March 2017 at Department of Biochemistry, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India.
- ◆ **Junior Research Fellow** in MSUB DBT ILSPARE INTERDISCIPLINARY PROGRAMME from July 2014 to September 2015 at The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India.

Workshops / training attended

- ◆ Participated in FACS technologists Education Program (FACStep) organized by Becton Dickinson India Private Limited (BD) on 24th-25th June 2022 at Mumbai, Maharashtra, India.
- ◆ Participated in Joint **workshop** on “Basics of Bioinformatics” by Hemchandracharya North Gujarat University and Gujarat Biotechnology Research Centre at Gujarat Biotechnology Research Centre, Gujarat, India on 6th-10th January 2020.
- ◆ Participated in **workshop** on “Empowering women for Entrepreneurship” organized by ENPRENDIA project, Office of International affairs jointly with Management development center and women studies research center, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India held on 7th December 2019.
- ◆ Participated in “One day **workshop** on Biological applications of magnetic nanoparticles” at The M.S University of Baroda organized by MagGenome Technologies Pvt.Ltd. and The M.S University of Baroda on 27th march 2019.
- ◆ Had undergone **Industrial training** in ZYDUS CADILA QC Department Dabhasa, Vadodara during 22nd May 2012 to 22nd June 2012.
- ◆ Participated in **workshop** on Basic Techniques in plant Tissue culture at Industrial Training Unit(X-PLANT), Xavier Research Foundation, St. Xavier’s College, Ahmedabad, Gujarat,India from 14 dec 2010 to 16 dec 2010.

Teaching Engagements:

- ◆ Taught Cell signaling to M.Sc (Biochemistry) and M.Sc (Medical Biotechnology) at Department of Biochemistry, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India.
- ◆ Conducted practical for M.Sc (Medical Biotechnology) at Department of Biochemistry, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India.
- ◆ Conducted a Six-day course in Basic Animal Sciences for students of 5-year integrated programme in Cell and Molecular Biology during 18th May 2015-23rd `May, 2015.

Publications:

- **Bhardwaj, G.,** M. Vakani, A. Srivastava, K. Rawal, A. Kalathil and S. Gupta (2022). "Influence of metabolically compromised Adipose derived stem cell secretome on islet differentiation and functionality." Experimental Cell Research 410(2): 112970.
- **Bhardwaj, G.,** M. Vakani, A. Srivastava, D. Patel, A. Pappachan, P. Murumkar, H. Shah, R. Shah and S. Gupta (2021). "Swertisin, a novel SGLT2 inhibitor, with improved glucose homeostasis for effective diabetes therapy." Archives of Biochemistry and Biophysics 710: 108995.
- Abhay Srivastava, Mitul Vakani., **Gurprit Bhardwaj,** Sarita Gupta (2021). "A PERSPECTIVE ON REGENERATIVE POTENTIALS OF HERBS FOR DIABETES THERAPEUTIC." Journal of Advanced Scientific Research 12(3): 10-20.

Awards/Recognitions:

Competitive exams /awards / prizes

- ◆ Awarded **YUVA Scholarship** for attending 9th **International conference** NGBT Nextgen Genomics, Biology, Bioinformatics and Technologies Conference organized by SciGenom Research Foundation (SGRF) at MUMBAI, INDIA Sep 30th to Oct 2nd, 2019.

- ◆ The M.S University of Baroda, Vadodara, Gujarat funded **Travel award** for oral presentation on ‘Abatement of islet neogenesis by altered muscle-pancreatic crosstalk in insulin resistant condition’ at 4th **International Conference** on Translational Research: Recent Developments and Innovations in Human Health and Agricultural Research, Bogmallo Beach Resort, Goa, India, 11th-13th October, 2018.
- ◆ Qualified **Gujarat state Eligibility Test for Assistant Professor (GSLET)** on 30th November 2017 in the subject of Life Science.
- ◆ Qualified **PhD. Entrance Test (PET)** 2015 for the faculty of Science from Subject/Department of Biochemistry of The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India.
- ◆ Qualified Aptitude Test in Engineering **GATE** 2013 in Life Science subject organized by IIT Bombay on behalf of the National Co-ordination Board (NCB)-GATE for the Department of Higher Education, Ministry of Human resource development (MHRD), Government of India
- ◆ Achieved All India Rank 18th in Grade II of **Biotechnology aptitude test** held by PHARMACARE society sponsored by Gujarat State Biotechnology Mission 2012-2013, Gujarat, India.
- ◆ Best Award for Oral Presentation Competition organized on 30th Sep (2014) by MSUB-ILSPARE Programme held at The M.S University of Baroda, Vadodara, Gujarat, India.

Abstract published through poster/oral presentation

- ◆ **Gurprit Bhardwaj**, Komal Rawal, Kishan Purohit, Mitul Vakani, Abhay Srivastava, Sarita Gupta* “Effect of metabolically compromised human Adipose derived stem cell secretome on islet neogenesis: in vitro study” Poster presentation at 9th **International conference** NGBT Nextgen Genomics, Biology, Bioinformatics and Technologies Conference organized by SciGenom Research Foundation (SGRF) at MUMBAI, INDIA Sep 30th to Oct 2nd, 2019.
- ◆ **Gurprit Bhardwaj**, Mitul Vakani, Abhay Srivastava, Ruchika Agarwal and Sarita Gupta* ‘Abatement of islet neogenesis by altered muscle-pancreatic crosstalk in insulin resistant condition” Oral presentation at 4th **International Conference** on Translational Research: Recent Developments and Innovations in Human Health and Agricultural Research, Bogmallo Beach Resort, Goa, India, 11th-13th October, 2018.
- ◆ **Gurprit Bhardwaj**, Ruchika Agarwal and Sarita Gupta* “Impact of metabolically compromised muscle secretome on islet functionality and differentiation” Oral presentation at UGC **National Conference** on Current Trends in Biological Sciences-II (CTBS-2018) M. P. Patel Auditorium, Near Department of Physics, Sardar Patel University, Vallabh Vidyanagar, Gujarat, India 9th February 2018.