

Dr. Sheetal Pramodbhai Pithva

Assistant Professor (Microbiology)
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Education

Ph.D (Microbiology) from Department of Biosciences, Saurashtra University, Rajkot (September, 2014)

Title of the Thesis: Potential of Lactic Acid Bacteria as Probiotics

M.Phil. (Microbiology) with 73% from Department of Biosciences, Saurashtra University, Rajkot (July 2007 – June 2008)

M.Sc. (Microbiology) with 68% from Department of Biosciences, Saurashtra University, Rajkot (July- 2005 – May 2007)

B.Sc. (Microbiology) with 64.28% from M.V.M Science and Home Science College, Saurashtra University, Rajkot (July 2002 – April 2005)

Professional Positions

Assistant Professor: Department of Microbiology, Government Science College, Gandhinagar (19th July, 2018 – till date)

Assistant Professor: Department of Microbiology, Christ College Rajkot (UG & PG) (1st December, 2015 – 18th July, 2018)

Assistant Professor: Department of Microbiology, Gyanyagna College of Science and Management, Rajkot (UG & PG) (21st July, 2014 – 30th November, 2015)

Visiting faculty: Department of Biotechnology, Saurashtra University, Rajkot (2014-2018) & Department of Biochemistry, Saurashtra University, Rajkot

Research fellow: UGC Meritorious Fellowship, New Delhi, India (April 2010 – April 2013). Junior Research Fellowship from Department of Special Assistance (DSA), Saurashtra University (September 2009 - March 2010)

Publications

- International publications: **09** in peer reviewed journals
- Book chapters: **04** in International edited books
- **Please refer Annexure 1 for the details**

Presentations in Conferences / Seminars/Workshops

- Presented a research paper in eight (09) International conferences (two awarded for best presentation)

- Presented research paper in eleven (11) National conferences (five awarded for best presentation)
- Participated in eight (08) Faculty Development Program and workshops
- Attended or participated twenty-one national conference/seminar/symposia

Please refer Annexure 2 for the details

Special Achievements

- Selected as **Young Investigator** to present research paper at Kolkata (2018) & Chennai (2016) organized by Yakult India Microbiota and Probiotic Science Foundation.
- Qualified **ICAR AGRI-NET** (Microbiology) held on 8th December, 2015
- Qualified Gujarat State Eligibility Test (**GSET**) held on 25th September, 2016
- Prize for standing college 1st in B.Sc. (Microbiology) and University 3rd at Saurashtra University, Rajkot.

Orientation/ Refresher Course (OP/RC)

- Completed Online **Refresher Course** on Holistic and Multidisciplinary Education at UGC-MMTTC, Saurashtra University, Rajkot during 29/01/2024 to 10/02/2024 with A⁺ grade
- Completed **Refresher Course** on “Excellence in Higher Education” at UGC-HRDC, Saurashtra University, Rajkot during 04/07/2022 to 16/07/2022 with A⁺ grade.
- Completed Faculty Induction Programme (**Orientation Programme/Gurudakshata Programme**) at UGC-HRDC, Saurashtra University, Rajkot during 25/01/2021 to 20/02/2021 with A⁺ grade.

Personal details

Date of Birth : 15th April
Marital Status : Unmarried
Languages known : English, Hindi, Gujarati

References

Prof. B. R. M. Vyas (Research Guide), Professor, Department of Biosciences, Saurashtra University – 360005, Gujarat, India. Email: brmvyas@hotmail.com
Prof. Satyaprakash Singh, Professor & Head, Department of Biosciences, Saurashtra University – 360005, Gujarat, India. Email: satyapsingh@gmail.com

Information provided is authentic and sufficient but will be glad to furnish any more if needed

Dr. Sheetal P. Pithva

Annexure 1

1. **Sheetal Pithva**, Padma Ambalam, Jayantilal Dave and Bharatkumar Rajiv Manuel Vyas (2023) Functional Characterization and Shelf-Life of Freeze-Dried Cells of *Lactobacillus rhamnosus* Fb in Carrier Media and Chocolate Formulations. *Journal of Applied Sciences* 23: 87-94 [DOI: 10.3923/jas.2023.87.94](https://doi.org/10.3923/jas.2023.87.94)
2. Mayuree Naliyapara, **Sheetal Pithva**, Ketaki Ramani, Von Johnson, and Bharatkumar Rajiv Manuel Vyas (2023) Production of Bioactive compounds by *Geotrichum candidum*. *Asian Journal of Microbiology, Biotechnology, Environmental Science* 25 (1): 124-129 <http://doi.org/10.53550/AJMBES.2023.v25i01.019>
3. Kinjal Pabari, **Sheetal Pithva**, Charmy Kothari, Ravi Kiran Purama, Kanthi Kiran Kondepudi, Bharatkumar Rajiv Manuel Vyas, Ramesh Kothari, Padma Ambalam (2020) Evaluation of Probiotic Properties and Prebiotic Utilization Potential of *Weissella paramesenteroides* isolated from fruits. *Probiotic and Antimicrobial Proteins* 12(3): 1126-1138 <https://doi.org/10.1007/s12602-019-09630-w>
4. Aarti Boricha, Satyamitra Shekh, **Sheetal Pithva**, Padma Ambalam, Bharatkumar Rajiv Manuel Vyas (2019) *In vitro* evaluation of probiotic properties of *Lactobacillus* species of food and human origin. *LWT-Food Science Technology* **106**: 201-208 <https://doi.org/10.1016/j.lwt.2019.02.021> (FEB- 2019)
5. **Sheetal Pithva**, Padma Ambalam, Jignesh Ramoliya, Bharatkumar Rajiv Manuel Vyas (2015) Antigenotoxic and Antimutagenic activities of probiotic *Lactobacillus rhamnosus* Vc against MNNG. *Nutrition and Cancer* **67**: 1142-1150 [doi: 10.1080/01635581.2015.1073751](https://doi.org/10.1080/01635581.2015.1073751)
6. **Sheetal Pithva**, Jayantilal Dave, BRM Vyas (2014) Binding of acridine orange by probiotic *Lactobacillus rhamnosus* strains of human Origin. *Annals of Microbiology* **65**: 1373-1379 <https://doi.org/10.1007/s13213-014-0975-z>
7. **Sheetal Pithva**, SL Shekh, JM Dave, BRM Vyas (2014) Probiotic attributes of autochthonous *Lactobacillus rhamnosus* strains of human origin. *Applied Biochemistry and Biotechnology* **173**: 259–277 [doi: 10.1007/s12010-014-0839-9](https://doi.org/10.1007/s12010-014-0839-9).
8. Ambalam P, **Sheetal Pithva**, C.R. Kothari , R.K. Kothari , N.R. Parmar, N.M. Nathani , P.G. Koringa, C. G. Joshi , J. M. Dave, BRM Vyas (2014) Draft Genome Sequence of the Potential Probiotic Bacterium *Lactobacillus rhamnosus* Lr 231. *Microbiology Resource Announcement* **2**:e00111-14 [doi:10.1128/genomeA.00111-14](https://doi.org/10.1128/genomeA.00111-14).
9. M Raman, P Ambalam, KK Kondepudi, **S Pithva**, C Kothari, AT Patel, RK Purama, JM Dave & BRM Vyas (2013) Potential of probiotics, prebiotics and synbiotics for management of colorectal cancer, *Gut Microbes* **4**:181–192 [doi: 10.4161/gmic.23919](https://doi.org/10.4161/gmic.23919)

A) Book chapters Published

1. Nilofar Bhatti, **Sheetal Pithva**, Bharatkumar Rajiv Manuel Vyas (2022) L-Asparaginase: A Boon for Cancer treatment. In Current Development in Biosciences and Agriculture p. 110-118, National Press Associates, 978-93-90863-26-6.
2. Ravi Kiran Purama, Maya Raman, Padma Ambalam, **Sheetal Pithva**, Charmy Kothari, Mukesh Doble (2018) Prebiotics and Probiotics in Altering Microbiota: Implications in Colorectal Cancer p. 403-413. In Shampa Chatterjee, Wolfgang Jungraithmayr, Debasis Bagchi (ed), In Immunity and Inflammation in Health and Disease: Emerging Roles of Nutraceuticals and Functional Foods in Immune Support, Academic Press, Elsevier, United State.

3. **Pithva SP**, Ambalam PS, Dave JM, Vyas BRM. 2011. Antimicrobial Peptides of Probiotic *Lactobacillus* strains, p 987-991. In Méndez-Vilas A (ed), Science against microbial pathogens: communicating current research and technological advances, vol. 2. Formatex, Badajoz, Spain.
4. **Pithva SP**, Ambalam PS, Dave JM, Vyas BRM. 2012. Potential of Probiotic *Lactobacillus* strains as Food additives, p 175-190. In El-Samragy Y (ed), Food Additive, In Tech, Rijeka, Croatia

Annexure 2

(A) Presentations in National/International conferences/seminar/symposia

International Presentations:

1. **Pithva Sheetal**, Ambalam Padma, Dave Jayantilal, Vyas Bharatkumar. 2018. *In vitro* Antigenotoxicity and antimutagenicity of human origin *Lactobacillus rhamnosus* strains against 4-nitroquinoline-1-oxide presented at Yakult symposium, Kolkata, India during 24-25th November, 2018 organized by Yakult India Microbiota and Probiotic Science Foundation.
2. **Pithva Sheetal**, Ambalam Padma, Vyas Bharatkumar. 2017. Binding and Biotransformation of Food-borne Carcinogens by Probiotic *Lactobacillus rhamnosus* strains presented at International Science Symposium during 26-27th February, 2017 organized by Christ college, Rajkot. (Awarded **1st Prize** for best oral presentation)
3. Pabari Kinjal, Bhatti Nilofar, **Pithva Sheetal**, Kothari Charmy, Vyas BRM, Ambalam Padma. 2017. Functional probiotic characterization of Lactobacilli isolated from fruits presented at International Science Symposium during 26-27th February, 2017 organized by Christ college, Rajkot
4. **Pithva Sheetal**, Ambalam Padma, Vyas BRM. 2016. Antigenotoxic and Antimutagenic activities of probiotic *Lactobacillus rhamnosus* Vc against MNNG presented at Yakult symposium, Chennai, India during 3-4th December, 2016 organized by Yakult India Microbiota and Probiotic Science Foundation.
5. **Pithva Sheetal**, Ambalam Padma, Dave JM, Vyas BRM. 2015. Antagonistic activity of Probiotic *Lactobacillus rhamnosus* Fb against enteropathogens presented at 8th Yakult symposium, Berlin, Germany 23-24th April.
6. **Pithva Sheetal**, Ambalam PS, Vyas, BRM. 2012. Antimicrobial Potential of Probiotic *Lactobacillus rhamnosus* of human origin presented at International Conference on Advances in Biological Sciences (ICABS), Kannur University, Kannur, Kerala, 15th - 17th March.
7. Padma Ambalam, Vaishali Jashani, **Sheetal Pithva**, J. M. Dave, B. R. M. Vyas. 2011. Antimicrobial Activity of Surface Anchored *Lactobacillus rhamnosus* 231 against *Pseudomonas aeruginosa*, presented at 6th International Yakult Symposium, Vienna, Austria, 26-27th May.
8. **Pithva Sheetal**, Ambalam PS, Dave JM, Vyas BRM. 2009. Antimicrobial Activity of Potential Probiotic *Lactobacillus rhamnosus* against Food Spoilage Organisms and Human Pathogens Presented at Fourth International Conference on Fermented Foods, Health Status and Social well-being, Anand Agricultural University, Anand, 11-12nd December. (Awarded **2nd prize** for best poster of session)
9. **Pithva Sheetal**, Jashani VP, Ambalam PS, Vyas BRM. 2007. Potential Probiotic Properties of Wild strains of *Lactobacillus* of Human Origin, presented at Third International Conference on Fermented Foods, Health Status and Social well-being, Anand Agricultural University, Anand, 13-14th December.

National Presentations

1. Dobariya Payal, Patel Shivani, Amabalam Padma, **Pithva Sheetal**. 2018. Functional Probiotic characterization of *L. rhamonosus* and *L. mucosa* strains presented at 10th National Science Symposium on 11th February, 2018 organized by Christ college, Rajkot (Awarded 1st First Prize)
2. Kapasi Mariyam, Ambalam Padma, **Pithva Sheetal**. 2018. Food color decolorization of Probiotic *Lactobacillus* strains presented 10th National Science Symposium on 11th February, 2018 organized by Christ college, Rajkot (Awarded 2nd First Prize)
3. **Pithva Sheetal**, Ambalam PS, Dave JM, Vyas BRM. 2017. *In Vitro* Evaluation Of Probiotic Properties Of Lyophilized Cells And Chocolate Formulation Of *Lactobacillus rhamnosus* Fb presented UGC-CAS National Conference on Biodiversity and Bioresource Utilization organized by Department of Biosciences, Saurashtra University, Rajkot during 9-10th March, 2017.
4. **Pithva Sheetal**, Dave JM, Vyas BRM. 2015. Antigenotoxic and Antimutagenic Activities of Probiotic *Lactobacillus* Strains presented at UGC-CAS National Conference on Biodiversity and Bioresource Utilization, organized by Department of Biosciences, Saurashtra University, Rajkot, 17-18th March, 2015. (Awarded 1st Prize)
5. Chhaya Nirali, **Pithva Sheetal**. 2015. Probiotic Characterization of Curd *Lactobacillus* isolates presented at National Seminar on Widening Horizons of Microbiology, Shree M & N Virani Science College, Rajkot, 28th February. (Awarded 1st prize)
6. **Pithva Sheetal**, Ambalam PS, Shekh S, Dave JM, Vyas BRM. 2015. Functional Probiotic Properties of human origin *Lactobacillus rhamnosus* Fb presented at 8th National Level Symposium on Recent Trends in Science and Technology organized by Christ College, Rajkot, 22nd February. (Awarded 2nd prize for best presentation of session)
7. Chhaya Nirali, **Pithva Sheetal**. 2015 Probiotic Attributes of *Lactobacillus* strains Isolated from Curd presented at One Day National Seminar on “Recent Advances in Biochemical Research” organized by Department of Biochemistry, Saurashtra University, Rajkot, 14th February.
8. **Pithva Sheetal**, Vyas BRM. 2011. Probiotic attributes of *Lactobacillus* strains, presented at symposium on trends in biological research organized by Department of Biosciences, Saurashtra University, Rajkot on 18th October, 2011
9. Rathod R, Mervana P, **Pithva S**, Dave JM, Vyas BRM. 2011. Potential Probiotic Properties of *Lactobacillus* strains, presented at GSBTM sponsored National level seminar on ‘Functional Foods: A new concept for sustainable livelihood’ organized by Department of Biotechnology, Junagadh Agricultural University, Junagadh, 10th March.
10. Rathod R, Mervana P, **Pithva S**, Dave JM, Vyas BRM. 2010. Potential Probiotic Properties of *Lactobacillus* strains, presented at Swarnim Gujarat symposium on Trends in Biological Sciences, Department of Biosciences, Saurashtra University, Rajkot.
11. **Pithva Sheetal**, Vyas BRM. 2010. Potential of Lactic Acid Bacteria as Probiotics, presented at Swarnim Gujarat symposium on Trends in Biological Sciences, Department of Biosciences, Saurashtra University, Rajkot.

(B) Faculty development Programme & Workshops

- Participated in **FDP** on “Strengthening Experimental Microbiology for Undergraduate Study” organized by Department of Microbiology and Biotechnology, University School of Sciences, Gujarat University, Ahmedabad during 20/07/2022 to 26/07/2022.

- Participated in Online **UDAYAM E-Content** Development Course organized by Knowledge Consortium of Gujarat (KCG), Ahmedabad and HRDC, Gujarat University, Ahmedabad during 28/07/2020 to 18/08/2020.
- Completed **Certificate course** on Comprehensive Online Intellectual Property Rights (IPR) organized by Gujarat Student Startup and Innovation Hub (i-Hub) during 6/07/2020 to 14/09/2020.
- Completed two weeks **FDP** on Managing Online Classes and Cocreating MOOCs organized by Teaching Learning Centre, Ramanujan College, University of Delhi during 18/05/2020 to 03/06/2020.
- Attended National seminar on Intellectual Property Rights (IPR): Patents and Trademark organized by Christ College & SSIP Saurashtra University on 21st January, 2018.
- Participated in International Faculty Development Programme (IFDP) organized by Global Training Education Program (GTEP-UK) & Internal Quality Assurance Cell (IQAC), Saurashtra University on 3-4th November, 2017.
- Participated State Level Seminar on Structure and Ligand based Drug Discovery organized by Dept of Bioinformatics Christ College, Rajkot on 21st September, 2017.
- Participated in Faculty Development Program organized by Knowledge Consortium of Gujarat (KCG), Government of Gujarat during 16-21st May, 2016.
- Participated in Microbiology syllabus formation workshop organized by Microbiology board of studies Saurashtra University and Gyanyagna College of Science & Management held on 9th February 2016 at Gyanyagna College of Science and Management, Rajkot.
- Participated in MST-DST sponsored Faculty Development Program on “**Blog Making & Blog Management**” organized by Department of Biochemistry on 12-13th December 2014.
- Participated in the DBT sponsored Faculty Development program on “**Teaching Methods & How You Become You**” organized by Department of Biotechnology on 27th November 2014.
- Participated in the Universal Human Value Education workshop organized by Shree M & N Virani Science College during 25-31st May, 2015.

(C) Other Academic Activities

- Served as a judge in Microbiology and Biotechnology poster presentation competition in Sarvodaya Science Summit -2016 on 27th February, 2016 organized by Sarvodaya College of Science & Technology, Rajkot
- Worked as organizing committee member of the INSPIRE Science Camp-2016 sponsored by Department of Science & Technology (DST), New Delhi and organized by Christ College, Rajkot during 21-25th October, 2016.
- Served as a judge in the event of Microbiology poster presentation competition in 11th National level symposium held on 3rd February, 2019 at Christ College, Rajkot.

- Served as a judge in Microbiology oral presentation event at the 12th National Science Symposium on Recent Trends in Science and Technology held on 19th January, 2020
- Served as a judge in the Microbiology oral and poster presentation competition at the International Science Symposium on Recent Trends in Science and Technology organized by Christ College held on 8-9th April, 2021.
- Served as a judge in the Microbiology poster competition at the International Science Symposium 2022 on the 'Recent Trends in Science and Technology' held on 22-23rd January, 2022.
- Delivered expert talk as a resource person in GSBTM sponsored e-crash workshop on National Competitive Examinations for students of Biotechnology & Allied Life Sciences at Christ College on 13th September, 2020.
- Delivered scientific talk on the "Corona virus family" and its structure in One Day State Level Online Seminar on Man vs Microbe: The Story of COVID-19 organized by Department of Microbiology, Government Science College, Gandhinagar on 3rd January, 2021.
- Delivered expert talk as a resource person in GSBTM sponsored crash workshop on National Level Competitive Examinations for students of Biotechnology & Allied Life Sciences at Christ College on 11th February, 2024