

CURRICULUM VITAE

Name: Dr. Mrs. Rama Bhadekar *nee* Neeta Kulkarni

Designation: Associate Professor and Head, Dept of Microbial Biotechnology

Department/Institute/University: Microbial Biotechnology, Rajiv Gandhi Institute of IT and Biotechnology, Bharati Vidyapeeth (deemed to be) University (BVDU), Katraj, Pune-Satara Road, Pune – 411 046

Date of Birth: Nov. 11, 1968

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Ph: Ext: 211

Educational qualifications:

PhD (Microbiology) : National Chemical Laboratory (1999) (CSIR-JRF and SRF)

MSc (Microbiology): University of Pune (1991)

BSc (Microbiology): University of Pune (1989)

● **Major projects completed:**

- “Process optimization and cycle time reduction of PUFA synthesis using marine microorganisms” funded by DST, New Delhi (2012-2015). (Grant received: Rs. 15.00 lakhs) (P-I)
- “Microbial production of omega-3 fatty acids” funded by DBT, New Delhi (2007-10) (Grant received: Rs. 26.32 lakhs) (P-I)

● **Major project ongoing:**

- DBT-BUILDER-University of Bharati Vidyapeeth (Deemed to be University) Rajiv Gandhi Institute of IT and Biotechnology Interdisciplinary Life Science Programme for Advance Research and Education (2021-2026) (Grant received : Rs 184 lakhs) (Co-I)

● **Minor project completed:**

- “Evaluation of effects of NSAIDS on probiotics”, funded by BVDU (2011-12) (Grant received: Rs 0.50 lakhs)

● **Minor project ongoing:**

- “Isolation and Characterization of Phytopathogens from Bacterial Blight Infected of Economically Important Fruit Crops from Maharashtra”, funded by BVDU (2021-22) (Grant received: Rs 0.60 lakhs)

● **Publications**

- International: 37
- Book Chapters: 03
- Gene bank submissions: 30
- Citations: 1621, h-index: 13, i10- index: 15

- **Consultancy completed**

Geocon Products, A-312 Pratik Industrial Estate, Bhandup West, Mumbai, Maharashtra 400078 (October-December 2021)

- **Experience**

- Teaching: 20 years
- Research: 19 years (including Ph.D.)
- Ph.D. students: Completed: 03, pursuing: 02
- Conference proceedings: 20
- Orcid id: <https://orcid.org/0000-0002-4452-9462>

- **Awards/recognitions:**

- Recipient of “Certificate of Achievement” in Agri India Hikeathon organized by PUSA Krishi, ICAR, IARI, Ministry of Agriculture & Farmers Welfare, Government of India during 24 th Jan to 18th Feb 2021.
 - Organizing Secretary for One day workshop on “Entrepreneurship in Biotechnology-Issues and Challenges” organized at RGITBT, BVDU on Feb1, 2020.
 - Recipient of “Women Innovator Award” by German International Cooperation (GIZ) and MSME INNO team on 8th March 2019
 - Member, BOS Allied Health Sciences, Pravara Institute of Medical Sciences, Nagar (From 2017 till date)
 - Director - CAP and Coordinator -Computer Based Examinations, Rajiv Gandhi Institute of IT and Biotechnology, BVDU, (From 2017 onwards)
 - Member, BOS, Rajiv Gandhi Institute of IT and Biotechnology, BVDU, Pune
 - AQAR -Co-ordinator, Rajiv Gandhi Institute of IT and Biotechnology, BVDU, Pune (From 2010 till date)
 - Recognized PhD guide of BVDU for the subjects “Biotechnology” and “Microbiology”
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- **Publications during Ph. D. work**

1) **Kulkarni, N.**, Chauthaiwale, J., Rao, M., 1995, Characterization of the recombinant xylanases in *Escherichia coli* from an alkaliphilic thermophilic *Bacillus* sp, NCIM 59. *Enzyme Microb. Technol.* 17, 972-976. **(IF 2.322)**

2) **Kulkarni, N.** and Rao, M., 1996, Application of xylanase from alkaliphilic thermophilic *Bacillus* sp. NCIM 59 in biobleaching of bagasse pulp. *J. Biotechnol.*, 51, 167-173. **(IF 2.871)**

3) R. Gaikawai, A. Shendye, **Kulkarni, N.**, and Rao, M. 1996, Two phase separation of xylanases from alkaliphilic thermophilic *Bacillus* using a poly (ethylene glycol)-K₂HPO₄ system. *Biotechnol. Appl. Biochem.* , 23, 237-241. **(IF 1.362)**

4) **Kulkarni, N.**, Vaidya, A. and Rao, M., 1999, Extractive cultivation of recombinant *E. coli* using aqueous two phase systems for production and separation of extracellular xylanase. *Biochem. Biophys. Res. Comm.* 255, 274-278. **(IF 2.297)**

5) **Kulkarni, N.**, A. Shendye and Rao, M., 1999, Molecular and Biotechnological aspects of xylanases . *FEMS Microbiol. Rev.* 23, 411-456. **(IF 13.244)**

6) **Kulkarni, N.**, Lakshmikumaran, M. and Rao, M., 1999, Xylanase II from an alkaliphilic thermophilic bacillus with a distinctantly different structure from xylanases: Evolutionary relationship to alkaliphilic xylanases. *Biochem. Biophys. Res. Comm.* 263, 640-645 **(IF 2.297)**

● **Publications after PhD:**

1) Girish Gajanan Jadhav, Dipti Sambhaji Salunkhe, Devdas Punjaji Nerkar, **Rama Bhadekar** (2010) Novel *Staphylococcus* sp isolated from wall scrapings of historical building in India. *Annals of Microbiology*, 60, 197 – 201. **(IF: 1.596)**

2) Girish Gajanan Jadhav, Dipti Sambhaji Salunkhe, Devdas Punjaji Nerkar, **Rama Bhadekar** (2010) Isolation and characterization of salt-tolerant nitrogen-fixing microorganisms from food. *EurAsian J. Biosci.*, 4, 33 – 40. **(indexed in Scopus) (If 0.590)**

3) Vipra Vijay Jadhav, Manoj Mahadev Jamle, Pravin Dnyaneshwar Pawar, Mayur Nimbadas Devare, **Rama Bhadekar**. (2010), Fatty acid profiles of PUFA producing Antarctic bacteria: correlation with RAPD analysis. *Anna. Microbiol.* 60 (4), 693-99. **(IF: 1.596)**

4) Dipti Salunkhe, Neha Tiwari, Sandeep Walunekar, **Rama Bhadekar**, (2011), *Halomonas* sp. Nov., an EPA producing mesophilic marine isolate from the Indian Ocean. *Pol. J. Microbiol.* 60 (1), 73-78 **(IF: 1.052)**

5) M. Falaki Khalilsaraie, N. Saima, N. T. Meti, **Rama Bhadekar** and D. P. Nerkar (2011), Cytological study and antimicrobial activity of embryogenic callus induced from leaf cultures of *Tinospora cordifolia* (Willd.), *Miers. J. Med. Plants Res.* 5 (14), 3002-3006 **(IF: 0.33)**

- 6) Rachana Fulzele, Elisha DeSa, Amit Yadav, Yogesh Shouche & **Rama Bhadekar** (2011) Characterization of novel extracellular protease produced by marine bacterial isolate from the Indian Ocean. *Braz J Microbiol* 42: 1363-1374 (**IF 1.67**)
- 7) **Rama Bhadekar***, Swanandi Pote, Vidya Tale, Bipinraj Nirichan, "Developments in Analytical Methods for Detection of Pesticides in Environmental Samples," *American Journal of Analytical Chemistry*, 2011, 2, 1-15. (**Indexed in Scopus**) (**IF 0.26**)
- 8) R.S. Ganguly, S.D.Manjrekar, S.A. Shree, **R. K. Bhadekar**. Evaluation of marine microorganisms for characteristic presence of novel biomolecules. *Romanian Biotechnological Letters* Vol. 17, No.3, (2012). 7280- 7286. (**IF: 0.412**)
- 9) Vipra Jadhav, Dipti Salunkhe and **Rama Bhadekar**. Effect of alterations in conventional medium on lipid accumulation and fatty acid content in oleaginous yeasts. *Int. J. Pharm. Bio. Sci.* (2012), 3(4): (B) 757 – 769. (**Indexed in Scopus**)
- 10) Deepti Samarth, Chandrashekhar Chandekar and **Rama Bhadekar**. Biosorption of heavy metals from aqueous solution using *Bacillus licheniformis*. *Int. J Pure Appl. Sci Technol.* 2012, 10 (2), 12-19. (**ISSN 2229-6107**)
- 11) Gauri dixit, Deepti Samarth, Vidya Tale and **Rama Bhadekar** " Comparative studies on potential probiotic characteristics of *Lactobacillus acidophilus* strains", *Eurasian J of Biosciences* (7, 1-9 (2013)) (**indexed in Scopus**) (**IF 0.590**)
- 12) Vipra Jadhav, Amit Yadav, Yogesh Shouche, Shama Aphale, Alpana Moghe, Sruthy Pillai, Aditi Arora, and **Rama Bhadekar**, 'Studies on biosurfactant from *Oceanobacillus* sp. BRI 10 isolated from Antarctic sea water,' *Desalination*, (2013), vol 318, pp 64-71. (**IF : 3.756**)
- 13) Vipra Vijay Jadhav, Amit Yadav, Yogesh S. Shouche, **Rama Kaustubh Bhadekar** Isolation and cellular fatty acid composition of psychrotrophic *Halomonas* strains from Antarctic sea water *Songklanakarin Journal of Science and Technology*, 35(3), 2013, 287-292 (**indexed in Scopus**) (**IF 0.47**)
- 14) Vipra Vijay Jadhav, Swanandi Pote, Amit Yadav, Yogesh S. Shouche, **Rama Kaustubh Bhadekar** Extracellular cold active lipase from the psychrotrophic *Halomonas* sp. BRI 8 isolated from the Antarctic sea water. *Songklanakarin Journal of Science and Technology*, 2013 , 35(6): 623 (**indexed in Scopus**) (**IF 0.47**)
- 15) Sumer Amin, Vidya Tale and **Rama Bhadekar**, Evaluation of effect of non steroidal anti-inflammatory drugs on growth of probiotics (2014) *International Journal of Pure and Applied Sciences and Technology* 20(1) : 25-35 (ISSN 2229 – 6107) (**ISSN 2229-6107**)
- 16) Swanandi Pote and **Rama Bhadekar**, Statistical Approach for Production of PUFA from *Kocuria* sp. BRI 35 Isolated from Marine Water Sample, *BioMed Research International*. Volume 2014 (2014), Article ID 570925, 9 pages <http://dx.doi.org/10.1155/2014/570925> (**IF: 1.579**)
- 17) Swanandi Pote, Yamini Chaudhary, Shruti Upadhyay, Vidya Tale, Sandeep Walujkar, Yogesh Shouche, **Rama Bhadekar*** Identification and biotechnological potential of psychrotrophic marine isolates , *EurAsian Journal of BioSciences*, 8, 5, 51-60 <http://dx.doi.org/10.5053/ejobios.2014.8.0.5> (indexed in Scopus)

18) Chandrakant D. Shendkar 1*, Rasika C. Torane², Sangita M. Lavate¹, **Rama K. Bhadekar**³, Nirmala R. Deshpande¹ □ Efficient adsorption of Pb²⁺ and Cd²⁺ from effluents on Eco-Friendly and low cost adsorbent developed from *Achyranthes aspera* Linn. stem Vol 1, No 2 (2013)

BioMedRx, J of Pharmacy Research (ISSN (ONLINE) : 0974-6943

<http://jpronline.info> , **Impact Factor TM (India) = 2.667 as on date (12.03.2014)**

19) "Increase in production of biosurfactant from *Oceanobacillus* sp. BRI 10 using low cost substrates" Priyanka Parhi, Vipra Jadhav and **Rama Bhadekar**, Songklanakarin Journal of Science and Technology ., 38 (2), 207-211, Mar. - Apr. 2016 (**indexed in Scopus**)

20) Exopolysaccharide producing halophilic microorganisms from west coast of Maharashtra, India. Siddharth V. Deshmukh¹, Pradnya P. Kanekar², **Rama K. Bhadekar**^{1*}, Sunil K. Dhar³ International J of Pharma and Bio Sciences ISSN **0975-6299** SNIP=0.643, IPP=0.411, SJR=0.329 scopus indexed Jan 2017, 8 (1) : (B) 370-375

21) Effect of lactic acid bacteria on biofilm formation by *Streptococcus mutans*: an in vitro study, **Bhadekar R.** Raj A., Bhati P. International J of Pharmaceutical Sciences and Research, *IJPSR*, 2017; Vol. 8(6): 1000-06. **E-ISSN: 0975-8232; P-ISSN: 2320-5148, DOI: 10.13040/IJPSR.0975-8232.8(6).1000-06** (Indexed in Scopus and Web of Science)

22) Anuradha Mulik, Jinal Bholia and **Rama Bhadekar** (2018), Protein profiling and antioxidant enzyme activity of cadmium and lead tolerant *Kocuria* sp. BRI 36. Int. J. Appl. Engg. International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 10 (2018) pp. 8357-8363 (Scopus indexed).

23) Anuradha Mulik, Preeti Kulkarni and **Rama Bhadekar** (2018), Biosorption studies on nickel and chromium by *Kocuria* sp. BRI 36 biomass. International Journal of

Applied Engineering Research ISSN 0973-4562 Volume 13, Number 9 (2018)
pp. 6886-6893 (Scopus indexed).

24) Anuradha Mulik and **Rama Bhadekar** (2018), Extracellular Polymeric Substance (EPS) From *Kocuria* sp. BRI 36: A Key component in heavy metal Resistance. Int J Pharm Pharm Sci 2018; vol. 10 issue 5 (SJR IF: 0.2).

25) Anuradha Mulik and **Rama Bhadekar** (2017), Co-relation between heavy metal resistance and antibiotic susceptibility in halotolerant bacteria isolated from Antarctic oceanic region. Int J Pharma Bio Sci 2017 October; 8(4): (B) 302-306 (SJR IF: 0.2).

26) Anuradha Mulik, Priyanka Kumbhar and **Rama Bhadekar** (2017) Production and partial characterization of pigments produced by *Kocuria* sp BRI 36: influence of heavy metals. Int J Pharm Pharm Sci 2017; 9 Suppl 10 : 137-145(SJR IF: 0.2).

27) Anuradha Mulik and **Rama Bhadekar** (2017), Heavy metal removal by bacterial isolates from Antarctic oceanic region. Int J Pharm Bio Sci 2017 ; Suppl 8: 535-43(SJR IF: 0.2).

28) In vitro synergistic activity of lactic acid bacteria against multi-drug resistant staphylococci, Jinal Bhola; **Rama Bhadekar** BMC Complementary and Alternative Medicine (2019), 19:70, 1-8 (IF 2.109)

29) Priyanka Parhi¹, Anuradha Mulik¹, Vipra Jadhav¹, Amit Yadav², Yogesh Shouche² & Rama Bhadekar^{1*} Production and characterization of biosurfactant from *Halomonas* sp. BRI3 Indian Journal of Biochemistry & Biophysics Vol. 56, October 2019, pp. 384-391 (IF: 0.357)

30) AN EXPERIMENTAL STUDY OF ANTAGONISTIC EFFECTS OF HOMOEOPATHIC MEDICINES AGAINST PSEUDOMONAS AERUGINOSA, GLOBAL JOURNAL FOR RESEARCH ANALYSIS Radhika. M. Khandelwal, **Rama K. Bhadekar**, Arun. B. Jadhav, Manisha. P. Gajendragadkar*VOLGJRA - GLOBAL JOURNAL FOR RESEARCH ANALYSIS, Vol9, issue-3, March 2020, print ISSN 2277-8160, DOI: 10.36110/gjra (UGC approved, indexed in Google scholar, Indian Citation Index))

31) An in-vitro study on antibacterial activity of homoeopathic medicines-Silicea, Sulphur and Mercurius solubilis against Pseudomonas aeruginosa DEEPALI TAK, RAMA KAUSTUBH BHADDEKAR, ARUN BHARGAV JADHAV, MANISHA PRASHANT GAJENDRAGADKAR INTERNATIONAL JOURNAL OF PHARMACEUTICAL RESEARCH Apr - Jun 2020 | Vol 12 | Issue 3, 643-648 (IF

0.13, Scopus indexed)

● **Book chapters:**

- 1) **Rama Bhadekar** and Priyanka Parhi, “Non dairy functional foods: potential of probiotics “ In *Microbes in Food and Health*, Editors : Neelam Garg , Shadia Mohammad Abdel-Aziz , Abhinav Aeron , Copyright 2016 , (1-27)

Publisher : Springer International Publishing,

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eBook ISBN 978-3-319-25277-3 , Hardcover ISBN 978-3-319-25275-9 ,

Edition Number : 1

- 2) **Rama Bhadekar**, Anuradha Mulik and Sonali Ambulkar, “Marine microorganisms: Isolation and screening for bioactive compounds” IN *Marine Microorganisms: Extraction and Analysis of Bioactive Compounds*

Editor(s) Leo M.L. Nollet, PhD, is affiliated with University College Ghent (retired) in Belgium Se-Kwon Kim, PhD, is a Professor in the Department of Chemistry and Director of the Marine Bioprocess Research Center at Pukyong National University, Busan, South Korea September 12, 2016 by CRC Press Reference - 152 Pages - 5 B/W Illustrations ISBN 9781498702553 - CAT# K24617

Series: Food Analysis & Properties

- 3) **Rama Bhadekar** and Jinal Bholra (2019) "Nonconventional Preservation Techniques: Current Trends and Future Prospects" In a book "Preservatives for the Beverage Industry, Volume 15, Edited by Alexandru Grumezescu, Alina-Maria Holban , ELSEVIER, 2019, 115-147 , ISBN 978-0-12-816685-7

● Papers presented

- 1) **Rama Bhadekar**, N. Meti, V. Jadhav, G. Patil and D.P.Nerkar In vitro cultivation and RAPD analysis in *Withania somnifera* Paper presented at Global Ayurved Conference organized by Bharati Vidyapeeth University , Pune, between January 9-11, 2009.
- 1) Jyothsana Garg, **Rama Bhadekar**, Swanandi Pote ‘Effect of calcium hydroxide and mixture of antibiotics on viability of *Streptococcus faecalis*.’ presented at the Indian Society of Pediatric and Preventive Dentistry conference held on 4th November 2011 at Mangalore.
- 2) Avinash Bansode, Swanandi Pote, Aumir Beg , Shabina Khan, Alok Patel, **Rama Bhadekar**, S V Bhoraskar, V L Mathe. 'Atmospheric Non-thermal Plasma For Controlling the Growth of *E. faecalis*' Paper presented in the 6th international conference on biomedical electronics and devices held at Barcelona, Spain between 11-14th Feb 2013.
- 3) Priyanka Parhi, Anuradha Mulik and **Rama Bhadekar** ‘Production of biosurfactant from *Halomonas* sp BRI 3’ Paper presented at National Conference cum Industry-Academia Meet on Opportunities and Challenges in Fermentation Based Industrial Processes (IAMF-2018) on 13-14th Sept 2018 organised by CSIR-Indian Institute of Integrative Medicine, Canal Road, Jammu-180001
- 4) Ravikiran Jadav, Mangesh Solanki, Jinal Bhola, **Rama Bhadekar** “Antagonistic activity of Lactic Acid Bacteria on phytopathogenic isolates from bacterial blight infected pomegranate fruits” Paper presented in the International Conference (on-line) on “Emerging strategies in antimicrobial agents and Bio innovations” at School of Science, Bhavnagar highway, Kasturbadham, Rajkot, 360020, Gujarat, India on 18 and 19th Dec 2020.

● Posters presented

- 1) Ejaj Pathan, D. P. Nerkar and **Rama Bhadekar**. Studies on phytochemicals from *Abutilon pannosum*, (Kasali). Poster presented at Indo-Swedish International Conference on “Biotechnology for Sustainable Development” organized at NCL, Pune between Jan. 7-9, 2008.
- 2) **Rama Bhadekar** , N. Meti, M. Falaki Khalilsaraie, R. Alasandkar, and D. P. Nerkar, Antimicrobial activity of stem, leaf and callus induced from leaves of *Tinospora cordifolia*. Poster presented at Global Ayurved Conference organized by Bharati Vidyapeeth University , Pune, between January 9-11, 2009.
- 3) Pallavi Nirmal, Vipra Jadhav, D. P. Nerkar and **Rama Bhadekar**. Poster presented at 50th International Conference of Association of Microbiologists of India held at NCL, Pune, between Dec. 15 -18, 2009

- 4) Vidya Tale, **Rama Bhadekar**, Ratna Ganguli, Sonal Manjarekar and Shruti Shree. Poster presented at 52nd International conference of Association of Microbiologists of India held at Chandigarh in Nov. 2011.
- 5) Priyanka parhi, Vipra Jadhav and **Rama Bhadekar** , “ Cost effective medium for production of biosurfactant from the marine bacterial isolate” Won 2nd prize at UGC sponsored National seminar on Recent Trends in Life Sciences Organized by Dept. of Botany, Y.M. College, B.V.D.U. , Pune – 38.on 21st and 22nd Dec 2012.
- 6) Shraddha Sapkal, Gayatri Vaze, Munazza Muchhala and **Rama Bhadekar**. “Optimization of media for biosurfactant production from bacterium BRI 35 isolated from Antarctic water sample”. Poster presented in Indo-Mexico workshop on Biotechnology: Beyond borders organised at NCL, Pune 411008, between 7-9th Oct 2013
- 7) Archana Bhati, Swanandi Pote, Neelam Mishra and **Rama Bhadekar**. “Studies on extracellular lipase from bacterium BRI 35 isolated from Antarctic water sample”. Poster presented in Indo-Mexico workshop on Biotechnology: Beyond borders organised at NCL, Pune 411008, between 7-9th Oct 2013
- 8) Characterization of fungi isolated from Antarctic water sample in DBT Sponsored National Conference on Modern Analytical Techniques in Microbiology held on 17th and 18th January 2014 by Harshada Rane, Neelam Mishra and **Rama Bhadekar**.
- 9) Evaluation of heavy metal tolerance in Antarctic isolate *Kocuria* sp. BRI 35 presented at ‘The 2014 conference on solid waste management and technology’ at poona College of Pharmacy, BVDU on 8-9th January 2014 by Sonal Maida, Swanandi Pote and **Rama Bhadekar**.
- 10) Arati Borade, Munazza Muchhala and **Rama Bhadekar** .Heavy metal tolerance in Antarctic isolate *Halomonas* sp. BRI 40 presented at UGC sponsored National conference on Modern methods in detection, identification and quantification of microorganisms at Y. M. college, BVDU, Pune on 18th Feb. 2014
- 11) Gayatri Vaze and **Rama Bhadekar** , Optimization of media and functional characterization of biosurfactant produced by Antarctic isolate BRI 35, Received Best poster award in 3rd Int Conference on Biotechnology and Bioinformatics organised at Yashada, Pune during 5-7 Feb 2016
- 12) Jinal Bhola and **Rama Bhadekar**, ‘Comparative account of extraction methods for antimicrobial component from lactic acid bacteria consortium’ Poster presented at National Conference cum Industry-Academia Meet on Opportunities and Challenges in Fermentation Based Industrial Processes (IAMF-2018) on 13-14th Sept 2018

organized by CSIR-Indian Institute of Integrative Medicine, Canal Road, Jammu-180001

- 13) Priyanka parhi, Anuradha Mulik and **Rama Bhadekar**, Production of Biosurfactants from halomonas sp. BRI 3, Oral presentation at National Conference cum Industry-Academia Meet on Opportunities and Challenges in Fermentation Based Industrial Processes (IAMF-2018) on 13-14th Sept 2018 organized by CSIR-Indian Institute of Integrative Medicine, Canal Road, Jammu-180001

- 14) Shantinath Khot, Ravikiran Jadhav and **Rama Bhadekar**, Antimicrobial activity of stem extract of *Nothapodytes nimmoniana*: Interdependent effect of camptothecin with other components in the crude extract” Poster presented at National Conference on “Harnessing Microbial Wealth for Start-Ups in Life Sciences” Organized at SPPPU by Dept of Microbiology, between 29th Jan to 31st Jan 2020.

- 15) Ravikiran Jadhav, Mangesh Solanki, Jinal Bholra, **Rama Bhadekar** “Antagonistic activity of Lactic Acid bacteria on phytopathogenic isolates from bacterial blight infected pomegranate fruits. “International conference on emerging strategies in antimicrobial agents and bioinnovations (18-19 Dec 2020) organized by RK University, Rajkot, India (<https://www.rku.ac.in/events/esab-abstract-2020.php>)

- **Laboratory manuals**

- **Rama Bhadekar**, Deepti Samarth and Dipti Salunkhe. Laboratory manual of Microbiology for M.Sc. Biotechnology (Sem. I and II), Rajiv Gandhi Institute of I.T and Biotechnology, 2010.
- **Rama Bhadekar**, Vipra Jadhav and Deepti Samarth. Laboratory manual of Genetic Engineering for M.Sc. Biotechnology (Sem. III and IV), Rajiv Gandhi Institute of I.T and Biotechnology, 2010.

- **Participation:**

Participated in various national and international Faculty Development Programs, Conferences, Seminars and Workshops.
