

Dr. Manisha V. Junnarkar



Designation : Assistant Professor

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Academic Qualifications:

Ph.D. (Biotechnology) (2019) Dr. D.Y. Patil Vidyapeeth (DPU), Pune, India
Thesis title: "Potential of Lactic Acid bacteria for food preservation and Nutraceuticals".

M.Sc. (Biotechnology) (2004) Govt. Institute of science, Dr.B.A.M.U, Aurangabad, India.
Thesis title: Bacteriocin production from micro flora associated with Ginger (*Zingiber officinale*) and Radish (*Raphanus sativus*).

B.Sc. (Chemistry, Botany, Zoology) (2002) Dr.B.A.M.U, Aurangabad, India.

Teaching Experience:

1. **Assistant Professor** (July 2019 - till date): Pad. Dr. D.Y. Patil Biotechnology and Bioinformatics Institute, Tathawade, Pune, India.
2. **Lecturer** (October 2008 - June 2019): Pad. Dr. D.Y. Patil Biotechnology and Bioinformatics Institute, Tathawade, Pune, India.
Teaching: Biophysical chemistry, Cell Biology, Biopharmaceuticals, Food Biotechnology.
3. **Lecturer** (June 2006 - October 2008): Pad. Dr. D.Y. Patil College of Pharmacy, Pune University, Pune, India.
Teaching: Pharmaceutical Biotechnology, Pharmaceutical Microbiology, Pharmaceutical Biochemistry.

Research Interest: Pharmaceutical Microbiology and Microbial Biotechnology

Research Grants:

1. Dr. D. Y. Patil Vidyapeeth, Pune, 2019- 2020, Avapro: An ecofriendly probiotic formulation for discouraging the use of antibiotics and chemical growth hormones in poultry feed. Grant value Rs. 05 Lakhs.
2. Dr. D. Y. Patil Vidyapeeth, Pune, Jan 2016- Dec 2017, Screening of lactic acid bacteria for characteristic human and plant probiotic properties. Grant value Rs. 13.40 Lakhs.

Memberships

Life Member- Biotech Research Society of India (BRSI).

Publications:

Patents:

A probiotic formulation and a method thereof. Indian patent 1778/MUM/2015, Indian patent office journal publication dated 5 Aug 2016, page 55977.

Research Papers/Publications:

1. Mansuri, A., Lokhande, K., Kore, S., Gaikwad, S., Nawani, N., Swamy, K. V., **Junnarkar M & Pawar, S. (2020)**. Antioxidant, anti-quorum sensing, biofilm inhibitory activities and chemical composition of Patchouli essential oil: in vitro and in silico approach. **Journal of Biomolecular Structure and Dynamics**, 1-12.

1. **Manisha Junnarkar**, Sarika Pawar, Swapnil Gaikwad, Jana Jass, Abul Mandal, Neelu Nawani (2019) Probiotic potential of Lactic acid bacteria from fresh vegetables: application in food preservation. **Indian Journal of experimental biology**, 57: 825-838.
2. Sadaf Khan, Simran Singh, Swapnil Gaikwad, Neelu Nawani, **Manisha Junnarkar**, Sarika Vishnu Pawar (2019) Optimization of process parameters for the synthesis of silver nanoparticles from *Piper betle* leaf aqueous extract, and evaluation of their antiphytofungal activity. *Environmental Science and Pollution Research* <https://doi.org/10.1007/s11356-019-05239-2>.
3. **Manisha V. Junnarkar**, Prasad M. Thakare, Priti P. Yewale, Aminur Rahman, Jana Jass, Abul Mandal, and Neelu N. Nawani (2018) Evolution of probiotic potential of Lactic acid bacteria isolated from different sources. *Food Biotechnology*, 32(2):112–129.
4. Neeta A. Salgaonkar, Prasad M. Thakre, **Manisha V. Junnarkar**, Balasaheb P. Kapadnis, Abul Mandal, Cecilia Eriksson and Neelu N. Nawani (2016) Use of N, N'-diacetyl chitobiose in decreasing toxic effects of indoor air pollution by preventing oxidative DNA damage. *Biologia*. 71 (5): 508-515.
5. Ingale M.S., Devarshi A.D., **Andure M.S.**, Kulkarni S.N., and N.J.Chikhale “Bacteriocin production from Ginger (*Zingiber officinale*) and Radish (*Raphanus sativa*) associated microflora. *Bioinfolet* 1:32-33.”

Invited Speaker/resource person at state/national/international level

Invited speaker at Indian Institute of Food Science & Technology, Aurangabad, Maharashtra, India on 23rd October 2020 (Online on Zoom platform) during ‘The world of Microbiology’ State level Webinar Series on the occasion of World Polio Day 2020 for the talk “Probiotics: A Role in The Treatment of Intestinal Inflammation”.

Technical Abstract presented in conferences:

1. **Manisha Junnarkar**, Shraddha Chavan, Sarika Pawar, Swapnil Gaikwad, Neelu Nawani, Studies on safety and efficacy of probiotic formulation in overcoming intestinal inflammation. *New Horizon in Biotechnology (NHBT-2019)*, November 20-24, 2019 at CSIR-National Institute for Interdisciplinary Science and Technology, Thiruvanthapuram, India
2. **Manisha Junnarkar**, Priti Yewale, Sarika Pawar, Swapnil Gaikwad, Neelu Nawani Studies on safety and efficacy of probiotic formulation “AVAPRO” in overcoming inflammatory bowel disease. *Recent Advances in Modern Biology & Biotechnology 2019* March 14-16, 2019 at Dr. D.Y.Patil Biotechnology and Bioinformatics Institute, Tathawade, Pune, India

3. **Manisha Junnarkar**, Sarika Pawar, Neelu Nawani (2018) Probiotic potential of Lactic acid bacteria from fresh vegetables: application in food preservation. CSIR-IICT platinum Jubilee International Conference on Biotechnological Research and Innovation for Sustainable Development XV BRSI Convention and V Asia- Oceania Algae Innovation Summit (AOAIS) 22-25th November, 2018 at CSIR-Indian Institute of chemical Technology Hyderabad, India
4. **Manisha Junnarkar**, Prasad Thakre, Jana Jass, Abul Mandal, N. N. Nawani (2016) "Evaluation of probiotic properties of Lactic acid bacteria isolated from different sources" International Conference on Current trends in Biotechnology Conference 8- 10 December 2016 at VIT University, Vellore, India.
5. **Manisha Junnarkar**, Vedant Borghate , Pranjali Karkera, Alquama Lokhandwala, Jana Jass, Abul Mandal, N. N. Nawani(2016) "Phylogenetic analysis and probiotic potential of Lactic acid bacteria isolated from different plant sources" Next GenGenomics, Biology, Bioinformatics and Technologies (NGBT) Conference 3-5 October 2016, Cochin, India. (**Partial scholarship**)
6. **Manisha Junnarkar**, Prasad Thakre, Jana Jass, N. N. Nawani (2016) Isolation and screening of Lactic acid bacteria for bioactive potential International Conference on "Innovative trends in chemical, physical and biological sciences 2016" AM college, University of Pune, 9-10 Feb 2016, Pune.
7. Thakre PM, **M.V. Junnarkar**, J. Jass, A. Mandal and N.N. Nawani (2016) Antioxidant studies of lactic acid bacteria isolated from plant sources. International Conference on "Innovative trends in chemical, physical and biological sciences 2016" AM college, University of Pune, 9-10 Feb 2016, Pune.
8. **Manisha Junnarkar**, Prasad Thakre, Neelu Nawani (2013) Studies on Bioactive Potential of Lactic acid bacteria from Vegetables. International Conference on Advances in Biotechnology and Bioinformatics & X convention of BRSI, India, Pune 25-27 April 2013.
9. **Manisha Junnarkar**, N.N. Nawani (**Oral Presentation**) (2010) 'Studies on antimicrobial potential of lactic acid bacteria for food preservation' in national seminar on Frontiers in Biotechnology at C.K.T. College, new Panvel, Navi Mumbai-Dec. 2010.
10. Ingale M.S., Kulkarni S.N., **Andure M.S.**, Devarshi A.D., Kumaru R.R., Athawale A.A. and Bramhane S.A. (2004) Bacteriocin production from Ginger (*Zingiber officinale*) and Radish (*Raphanus sativa*) associated microflora in National conference on Biotechnological approaches in conservation utilization and improvement of plant wealth. Nanded Feb 14-15, 2004.

Workshops, Conferences & Seminars:

1. One day workshop on “Your Personality-The Power in Real You” on, by Dr. Vinay Chandratre, a Professional trainer and management expert. Nov 5th, 2014 DPU Dr.D.Y.Patil Biotechnology & Bioinformatics Institute, Pune.
2. International Conference on Advances in Biotechnology and Bioinformatics ICABB 2013 and X Convention of Biotech Research Society, 25 to 27 Nov 2013 DPU Dr.D.Y.Patil Biotechnology & Bioinformatics Institute, Pune.
3. 12th Indo-US Flow Cytometry Workshop Oct 19th-20th, 2011 DPU Dr.D.Y.Patil Biotechnology & Bioinformatics Institute, Pune.
4. Chemical Biology- International Year of Chemistry 2011 27th July 2011 Dr.D.Y.Patil Biotechnology & Bioinformatics Institute, Pune.
5. National Workshop on “Systems Biology” April 23rd, 2011 DYPBBI Dr.D.Y.Patil Biotechnology & Bioinformatics Institute, Pune.
6. National Seminar on Frontiers in Biotechnology and Bioinformatics 12th Feb 2011, DYPBBI Dr.D.Y.Patil Biotechnology & Bioinformatics Institute, Pune.
7. National Seminar On ‘Frontiers in Biotechnology’ CKT college, New Panvel, Navi Mumbai,India-2010.(presented)
8. “Chromatographic Techniques in Pharmaceutical analysis” Sinhgad College of Pharmacy,Pune,India-2007(Attended)
9. “*INSIGHT2008*”AnuradhaEngineering college,Chikhali,India-2008.(presented)
10. ‘Biotechnological Approaches In conservation, utilization and improvement of plant wealth’, Nanded Maharashtra India-2004.(presented)