



Lolly Jain

Associate Professor in Microbiology

Profile

I have been in the field of education as Assistant Professor in Microbiology since 1995 and as Associate Professor since 2014 at K. J. Somaiya College of Science and Commerce.

I have been currently also nominated on the following positions-

- Vice-Principal, K.J.Somaiya College of Science and Commerce,
- Member Secretary, Academic Council, K.J.Somaiya College of Science and Commerce,
- Head, Department of Microbiology, K.J.Somaiya College of Science and Commerce,
- Board of Studies in Microbiology, University of Mumbai,
- Member, Board of Studies, SIES College, Sion (Autonomous),
- Member, Board of Studies, Model College, Dombivli (Autonomous)
- Member, Board of Studies, Patkar Varde College, Goregaon (Autonomous),
- Member, Board of Studies, K. J. Somaiya College of Science and Commerce (Autonomous)

Education

Ph.D at K.J.Somaiya college of Science and Commerce, Mumbai

Use of extracts of Myrica nagi and Chenopodium album as food preservatives and in the treatment of bacterial wound infections.

Recognition as Guide

- Ph.D Research guide of University of Mumbai (2014)
- M.Sc. Research guide of University of Mumbai (2008)
- M.Sc. Lecturer of University of Mumbai (2003)

Research Profile

Grants received

- Received a grant of Rs. 35000/- from University of Mumbai as Co-Investigator for a Minor Research Project 'Study on applications of Biosurfactants extracted from Halophiles' (2016-2017)
- University of Mumbai Research Grant of Rs. 20,000/- for project Titled 'Isolation of microbial prodigiosin producers and studying the application of prodigiosin'. (2015-2016)
- University of Mumbai Research Grant of Rs. 27,400/- for project titled 'Bioindigo Production by Hydrocarbon degrading microorganisms.' (2012-2013)
- Somaiya Trust research grant of Rs. 66,000/- for project titled Bioremediation of Heavy Metals. (2011)
- University of Mumbai Research Grant of Rs. 30,000/- for project titled 'Characterisation of Bioemulsifier produced by Acinetobacter spp. and its application in Bioremediation'. (2009-2010)

Details

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Member

[Life Membership of The Indian Science Congress Association,](#)
[Society for Science and Environment](#)
[Mumbai Immunology Group, Advanced Centre for treatment, Research, and Education in Cancer \(ACTREC\).](#)

Skills

Teaching Pedagogy: Flipped Learning

ICT Tools in Teaching -Learning

Management and Administration

Languages

English

Hindi

Marathi

Hobbies

Reading

Crafts such as Paper Quilling, Embroidery

Warli Painting

- University of Mumbai Research Grant of Rs. 15,000/- for project titled 'Isolation and Identification of Surfactant Biodegraders'. (2007-2008).
- University of Mumbai Research Grant of Rs. 28,000/- for project titled 'Study of effect of salinity on the cellulolytic activity of Pneumatophore inhabiting Fungi from Godrej Mangrooves' (2005-2006).
- University of Mumbai Research Grant of Rs. 60,000/- for project titled 'Use of antimicrobials from flavouring plants as food preservatives.' (2000-2001).

Research Publications

- Exploring the use of *Myrica nagi* extracts as food preservative. Lolly Jain, Dr. K.N. Joishy, Biochemical Cell Archives, Vol. 9, Supplement-1, pp 35-39, 2009. (ISSN : 0972-5075)
- Analysis and Characterisation of Bioemulsifier produced by Surfactant degraders. Joyline Mascarenhas, Sushma Jahagirdar, Dr. (Mrs) Lolly Jain, Journal of Pure and Applied Microbiology, Vol. 06, No. 12, 2012. (Impact factor : 0.054)
- Biosorption of lead using immobilized cells of *Aspergillus niger*. Anisha Lapasiya, Dr. Lolly Jain, Asian Journal of Bioscience, Volume 7, Issue 2, October 2012, 192-195. (ISSN : 0973-4899)
- Biosorption of lead using pretreated cells of *Aspergillus* species. Aarti Shetty, Dr. Lolly Jain, Environment Conservation Journal, 13(3), 125-130, 2012. ISSN 0972-3099 (Impact factor : 0.667)
- Bio-Indigo Production by Hydrocarbon Degrading *Acinetobacter*-spp. GRJ, Nidhi Dubey, Dr. Lolly Jain, Biosciences, Biotechnology Research Asia, Vol. 10 (1), June 2013 (Impact factor : 0.968)
- Mechanism studies of Biosorption of Pb using *Aspergillus niger* biomass, Anjali Krishnan, Lolly Jain, Asian Journal of Microbiology, Biotechnology and Environmental Science, Vol. 16, No. 02, 2014, pg. no. 355-360. ISSN 0972-3005
- Biosorption of Chromium VI by *Aspergillus niger*, Manasi Dhuri, Lolly Jain, Bionano Frontier, Vol. 07, No. 02, June 2014 pg. no. 36-38, ISSN 0974-0678
- Screening, Biofilm formation and Sensitivity testing of Uropathogenic isolates from Pregnant Women. Patil Snehal, Jain Lolly, Life Sciences International Research Journal, Vol. 02 Spl. Issue, 2015 pg. 106 – 110, ISSN 2347 – 8691 and ISBN 978-81-928281-24-3.
- Paper published in Global Journal for Research Analysis, Vol. 04, Issue no. 04, April 2015, pg. 41 – 43 (an International Research Journal) titled "Use of aqueous extract of cranberry in the treatment of urinary tract infections during pregnancy." By Patil Snehal, Jain Lolly. ISSN 2277 – 8160.
- Paper published in Global Journal for Research Analysis, Vol. 05, Issue no. 05, May 2016, pg. 39 – 41 (an International Research Journal) titled "Effect of audible sound on microbial activity." By Vallary Hemant Belsare, Dr. Lolly Jain. ISSN 2277 – 8160.
- Full length paper published in conference proceedings: 'Innovations in Teaching and Evaluation' at the National Conference on Innovations in Teaching-Learning and Evaluation in higher education organized by SIES College of Arts, Science and Commerce, Sion on 26th and 27th Feb. 2016 by Vijay Joshi, Pradnya Prabhu, Chandana Basu, Lolly Jain, Madhavi Jardosh, ISBN no. 978-81-931391-3-4 pg. no. 2-7.
- Synthesis of Bioflavor (Butyl acetate) using bacterial lipases by Pratik Ghag, Lolly Jain in International Journal for Science and Advanced Research in Technology, Vol. 4 Issue 3, March 2018, pp 2109-2112, ISSN : 2395-1052.
- Isolation, Screening, Characterization and Identification of Biosurfactant Producing Halophiles from Sambhar Saline Lake, India by Shabib Khan, Lolly Jain in Aayushi International Interdisciplinary Research Journal (AIIRJ) Special Issue No. 25, UGC Approved Sr. No. 64259, ISSN: 2349-638x.
- Reinforcing culture of Excellence through IQAC by Vijay Joshi, Pradnya Prabhu, Lolly Jain, Madhavi Jardosh published in Proceedings of National Conference on College IQAC: Meaning and Manifestations organized by Deccan Education Society's Kirti M, Doongursee College of arts, Science and Commerce, Dadar (W), Mumbai. ISBN 978-81-930573-8-4
- Innovative Practices in Curriculum Design by Vijay Joshi, Pradnya Prabhu, Lolly Jain, Madhavi Jardosh published in Proceedings of National Conference on College IQAC: Meaning and Manifestations organized by Deccan Education Society's Kirti M, Doongursee College of arts, Science and Commerce, Dadar (W), Mumbai. ISBN 978-81-930573-8-4
- Production of Bioflavour using immobilized Lipase from *Bacillus megaterium* by Pratik Ghag and Lolly Jain in International Journal of Pharmacy and Biological Sciences, Vol. 8, Issue 2, June 2018, 647-659, ISSN: 2321-3272(Print) ISSN: 2230-7605 (Online); Peer Reviewed; UGC Approved UGC JOURNAL NO: 46322

- Isolation of trinitrophenol (TNP) degraders and its application in bioremediation by Poorvi Gujar and Lolly Jain in International Journal of Pharmacy and Biological Sciences, Vol. 8, Issue 3, Sep 2018, 223-227; ISSN: 2321-3272(Print)ISSN: 2230-7605 (Online) ; Peer Reviewed; UGC Approved UGC JOURNAL NO:46322
- Natural Preservatives from Fruit Peels by Tanuja Patil, Lolly Jain published in Acta Scientific Microbiology ,Volume 3 Issue 6 June 2020,on 28/05/2020, ISSN: 2581-3226, Peer Reviewed International Journal, Impact Factor: 1.172

Guided the following research projects for M.Sc.

- "Optimization of conditions for antibiotic production by Bacillus isolated from mangroove soils." By Shreedevi Goudar.2004-2005
- "Response of bacteria isolated from Godrej mangrooves to salt." By Swapna Arvind.2004-2005
- "Study of Cellulolytic activity of Aspergillus niger and Sporotrichum spp. isolated from pneumatophores of Godrej mangroove plants." By Hardik Kakkad.2005-2006
- "Study of lead tolerant organisms from mangrove ecosystem." By Monica Dube.2005-2006
- "Study of antibacterial activity of mangrove plants isolated from Vashi creek." by Varadraj Joshi. 2006-2007
- "Study of Heavy Metal Tolerance of halotolerant Fungi isolated from Mangrooves." By Nikita Ovalekar.2007-2008
- "Isolation and Identification of Surfactant Biodegraders ." By ShwetaPandit.2007-2008
- "Analysis of Bioemulsifier produced by Acinetobacter spp."By Joyline Mascarenhas.2008-2009
- "Production and partial purification of Streptokinase from Streptococcus pyogenes." By Reshma Jain.2008-2009
- "Chemical and Immunological Characterisation of Bioemulsifier produced by Acinetobacter spp." By Sushma Jahagirdar.2009-2010
- "Bioremediation of hydrocarbons using Bioemulsifier produced by Acinetobacter spp.."By Hetal Patel. 2009-2010
- "Biosorption of Lead using Aspergillus spp."By Aarti Shetty.2010-2011
- "Microbial Production of Indigo dye from hydrocarbon degrading Acinetobacter spp." By Nidhi Dubey.2010-2011
- "Biosorption of Lead using Immobilised cells of Aspergillus spp." By Anisha Lapasiya.2011-2012
- "Bioindigo Production by Hydrocarbon Degrading Acinetobacter spp." By Sunita Majumdar.2011-2012
- "Biosorption of Lead using Immobilised cells of Aspergillus niger- A promising bioremediation strategy " By Anjali Krishnan.2012-2013
- "Biosorption of Lead and Chromium from Industrial effluent using agricultural waste and yeast" By Neha Sawant. 2012-2013
- "Biosorption of Chromium VI by Aspergillus spp." By ManasiDhuri.2013-2014
- "Biosorption of heavy metal using fruit shell and yeast" By Hera Khan. 2013-2014
- 'Biodegradation of textile dyes by microorganisms isolated from dye effluent' by Sulakshana Sabale.2014-2015
- 'Extraction of Natural pigment from pigment producing bacteria for Dyeing of textile.' by Priyanka Salvi. 2014-2015
- Vallary Belsare: 'Effect of audible sound on microbial activity.' Nikita Gelye: 'Antimicrobial activity of fruit peels and application of enzyme isolated from banana peels as a pollutant degrader.'
- Divya Chauhan: 'Isolation of microbial prodigiosin producers and studying the application of prodigiosin'
- Tanvi Shah: 'Antibacterial activity of Myristica fragrans.
- Natural Preservatives from fruit peels by Ms. Tanuja Patil
- Exploitation of algae for wastewater treatment and Bio-oil production by Ms. Jinal Mota
- Isolation of bacteria and generation of electricity using cowdung as a substrate in microbial fuel cell by Mr. Jeet Mehta

Achievements or awards

- Natural Preservatives from fruit peels by Ms. Tanuja Patil, Dr. Lolly Jainin National Conference on Emerging trends in Science organized on 4/03/17 at N.G.Acharya and D.K.Marathe College, Chembur. (Paper). Was awarded the First Prize.
- Presented Poster titled 'Antimicrobial activity of fruit peels and application of enzyme isolated from banana peels as a pollutant degrader.' by Nikita gelye, Lolly Jain, in the Intercollegiate Poster Competition (PG level) organized by G.N.Khalsa College, Matunga on9th January 2016. Was awarded the First Prize.
- Presented Poster titled 'Use of Aqueous extract of cranberry in the treatment of urinary tract infection during

- pregnancy.' By Snehal Patil, Jain Lolly at The National Seminar on 'Biotechnology for better tomorrow' organised by R.P. Gogate college, Ratnagiri in collaboration with Microbiologist's society of India on 26th Feb. 2015. She was awarded the First prize in the PG section.
- National Level Award- 'Sitadevi Saravgi Pratibha Puruskar' and a cash prize of Rs. 51000/- for contribution towards Society on 11th Sep 2014 by Akhil Bhartiya Terapanth Mahila Mandal, at Delhi.
 - Was awarded the Overall Enhancement Award during the Foundation Day Celebrations 'Ekatva 2014' organized by Somaiya Vidyavihar on 16th Sep 2014.
 - 'Prerna Samman' for contribution towards Society on International Women's Day by Akhil Bhartiya Terapanth Mahila Mandal, Mumbai Wing on 13th March 2014, at Patkar Hall, S.N.D.T University, Churchgate, Mumbai.
 - Was awarded the Best Speaker Award during the 'Preksha Life Skill Training Programme' organized by Directorate of Distance Education, Jain Vishwa Bharati Institute from 3rd to 10th January 2014.
 - Was awarded the first prize for poster presentation at International Conference on Urban Lakes: Ecology, Rejuvenation, Technology and Economics held at Naushad Ali Sarovar Samvardhini, Powai on 7th and 8th Sep. 2012.
 - Was awarded the Best Oral Presentation Award for the oral presentation "Bioemulsifier –an avenue in Bioremediation." By Joyline Mascarenhas, Lolly J. The Abstract for the same was published in the proceedings of the UGC and University of Mumbai sponsored International Conference on 'Recent Trends in Environmental Biotechnology' organised by Birla College, Kalyan on 14th and 15th Nov. 2009.
 - Was awarded the FIRST PRIZE in Poster Competition for the poster titled "Bioemulsifier production- a step towards cleaner Environment." By Joyline Mascarenhas, Lolly J. The Abstract and full length paper for the same was published in the proceedings of Ministry of Environment and Forest sponsored National Conference on 'Environmental Management: Watch your Carbon Footprint'- organised by K.J.Somaiya College of Science and Commerce, Vidyavihar, Mumbai on 23rd and 24th Jan. 2009.
 - Was awarded third prize for Poster Presentation titled "Feasibility Study of Myrica nagi extract for food preservation and treatment of superficial bacterial wound infections" at the National Seminar on "Frontiers in Biotechnology and Bioinformatics" organized by D.Y. Patil Institute for Biotechnology and Bioinformatics, Navi Mumbai held on 2nd and 3rd Feb. 2007.

Invited as resource person/judge

- Resource person for National webinar on Development of Institutional Quality: Talk on Weightages for extracurricular and teacher's role in its promotion organized by IQAC Cluster from 31st Aug to 3rd Sep 2020 5.00pm to 7.00pm
- E-Tutor for National Workshop on ICT tools for online learning organized by SNDT Women's University TLC, Department of Educational Technology under PMMMNMTT-MHRD from 20/04/2020 to 28/04/2020
- Jury Member for presentation of review of literature for Home Science PG students on 04/02/2020 at Dr. Bhanuben Mahendra Nanavati College of Home Science, Matunga, Mumbai.
- Resource person for session titled 'ICT in Assessment and Evaluation' as a part of six-day short term course- 'Pedagogic Innovations: Challenges and Transformations in Inclusive higher education' for college and University teachers sponsored by RUSA under UGC-HRD, University of Mumbai organized by Department of Special Education, SNDT Women's University on 10/05/2020.
- Resource person for 2-day workshop on ICT enabled Teaching Process on 6th and 7th July 2019 at Bharat Shikshan Mandal's Arts, Commerce and Science College, Ratnagiri.
- Resource person for one day Workshop on 'Flipping the laboratory' at School of Biotechnology and Bioinformatics, D.Y. Patil University, Belapur on 19/12/2020
- Demonstration of Plickers as an ICT tool for Internal Assessment from 25/06/2018 to 03/07/2018 at K.J.Somaiya College of Science and Commerce.
- Workshop on 'Flipped Learning' on 09/05/2018 at K.J.Somaiya College of Arts and Commerce
- Workshop on 'Teaching, Learning and Evaluation' Faculty: Electronics and Electronic Telecommunication on 11/07/2018 at K.J.Somaiya College of Engineering.
- Workshop on 'Teaching, Learning and Evaluation' Faculty: Computer Science and IT on 12/07/2018 at K.J.Somaiya College of Engineering.
- Workshop on 'Teaching, Learning and Evaluation' Faculty: Mechanical and HSS on 13/07/2018 at K. .J.Somaiya College of Engineering.

- Judge for Dr. Dhalla's Felicitation Fund: Poster Competition for M.Sc Category on 08/09/2018 at Bhavan's College, Andheri
- Workshop on "Research Based Pedagogical Tools" from 28/09/2018 to 29/09/2018 at N.E.S.Ratnam College, Bhandup

● References

Dr. Pradnya Prabhu from K.J.Somaiya College of Science and Commerce
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