

Suruchi Jamkhedkar

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## **Education**

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**August, 2005 - November, 2008**

University of Mumbai

**Ph.D. in Life Sciences with specialization in Molecular Biology.** “Studies on The Genetic

Variation of Pearl Producing Indian Bivalve *Lamellidens corrianus* in Konkan Area.” The outcome of this research work indicate presence of three sub species of *L. corrianus* in Konkan area using Isozyme, RAPD and DNA sequencing techniques and its usefulness before embarking on breeding and pearl culturing programs.

**August, 2001 – April, 2002**

University of Mumbai (formerly Bombay)

**M. Sc. Life Sciences with specialization in Biotechnology, First Class**

**(68.8%)** Ranked 1/14 in Biotechnology; 1/26 in Molecular Biology.

**June, 1997 – May, 2000**

St. Xavier’s College, University of Mumbai

**B.Sc. Life Sciences (Honors Grade A), First Class (73.5 %).**

**June, 1996 - April, 1997**

R.D. National College and W. A. Science College, Mumbai

Maharashtra State Board of Secondary and Higher Secondary Education (**HSC**) Examination, Science, **First Class (70%)**.

**June, 1994 - April, 1995**

Cardinal Gracias High School, Mumbai

Maharashtra State Board of Secondary and Higher Secondary Education (**SSC**) Examination, Science, **First Class (74%)**.

**June 2004:** Council of Scientific and Industrial Research (CSIR) and University Grant Commission (UGC) **NET Examination Cleared with Junior Research Fellowship (JRF)** from University Grant Commission, Government of India.

<b>Institute</b>	<b>Department</b>	<b>Designation</b>	<b>Year</b>
University of Mumbai	Department of Life Sciences	Assistant Professor	January, 2016 to Till date
University of Mumbai	Department of Life Sciences	Visiting Faculty	December, 2002 to August, 2005, December, 2010 to December, 2015
University of Mumbai	Department of Biotechnology	Visiting Faculty	October, 2009 to December, 2016
University of Mumbai	Department of Biophysics	Visiting Faculty	October, 2009 to March, 2013
University of Mumbai	Department of Computer Science	Subject Domain Expert	February, 2009 to March, 2012

## **Teaching Experience**

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**Total years of teaching: 17 years at post graduation.**

**Number of M.Sc Students guided: 27**

**Number of M.Sc Students presently guiding: 5**

## Research Activities

### Publications

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1. **Suruchi Jamkhedkar** (2020). Characterization of the hypothetical proteins of Human Papillomavirus DNA consensus sequence. (Accepted). *Research Journal of Biotechnology*.
2. Sumaiya Shaikh, Sana Shaikh, Firdous Sayyed, Prerna Khan, Swaleheen Shaikh, **Suruchi Jamkhedkar** (2020). Traditional plants: *In vitro* analysis of medicinal properties. *International Journal of Pharmaceutical Research*. Vol 12(3) Special issue 2, 2449-2458.
3. K Meenakshi, **S Jamkhedkar**, IA George (2016). Molecular profiling of some Barleria species using rbcL, matK gene sequences and RAPD markers. *Journal of Applied Horticulture*. Vol 18(3), 203-206.
4. **Suruchi Jamkhedkar** (2016). Developmental Disorders- Genetic View. *Acta Medica International*. Vol 3(2), 24-26.
5. Neeti Kumar, B. L. Jadhav and **Suruchi Jamkhedkar** (2014). Genetic characterization of Non Descriptive Breed (*Bos indicus*) of Marathwada region using genetic markers. *Indian J.Sci.Res.* Vol 5(2), 13-18.
6. Alireza Shahrjerdi, B. L. Jadhav and **Suruchi Jamkhedkar** (2013). Study of single-nucleotide polymorphism within candidate genes associated with type 2 diabetes in Western Indian population. *Journal of Pharmacy Research*, Vol 6, 233-238.
7. **Suruchi Jamkhedkar**, Jyotsna Dongerdive, Kavita Jain, Siby Abraham and Jacinta S. D'Souza (2013). Arriving at a correlation between the flagellar arrangement and multicellularity. *Advances in Bioscience and Biotechnology*, Vol 4(1), 93-102.
8. **S. S. Jamkhedkar** and B. L. Jadhav (2011). Genetic variation of *Lamellidens corrianus* using Isozyme markers. *Bionano Frontier*, Vol. 4(1), 68-72.
9. **S. S. Jamkhedkar** and B. L. Jadhav (2010). Analysis of Genetic Diversity in *Lamellidens corrianus* using RAPD Markers. *Asian Journal of Experimental Sciences*, Vol. 24(2), 275-279.
10. B. L. Jadhav and **S. S. Jamkhedkar** (2009). Phylogenetic Analysis of *Lamellidens corrianus* obtained from Konkan Region of Maharashtra by 28s rRNA and 18s rRNA sequences. *Research Journal of Biotechnology*, Vol. 4 (1), 37-44.
11. B. L. Jadhav and **S. S. Jamkhedkar** (2008). The Reproducibility of RAPD profile of *Lamellidens corrianus* DNA. *Research Journal of Biotechnology*, Vol. 3(4), 15-17.
12. B. L. Jadhav, S.M. Mane and **S.S. Jamkhedkar** (2009). Activity Guided Fractionation and phytochemical analysis *Bruguiera cylindrica* leaf. *Asian*

### **Publications Communicated**

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1. Shivangi Joshi, Faizan Mansuri, Aditi Kulkarni and **Suruchi Jamkhedkar** (2020). A<sub>1</sub> and A<sub>2</sub> Milk caseins- Comparative FTIR and Spectrofluorimetry analysis. Communicated
2. Priyanka Lakhani, Kunj Joshi, Aditi Kulkarni and **Suruchi Jamkhedkar** (2020). Cow Urine- A Panacea. Communicated

### **Sequence Publication**

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1. **S. S. Jamkhedkar** and B. L. Jadhav (2008). Genetic Characterization of Pearl Producing Indian Bivalve *Lamellidens corrianus* in Konkan Area of Maharashtra-India. *Genbank (NCBI)* Gene sequence accession numbers: EU394233, EU394234, EU394235, EU394236, EU394237, EU394238.
2. Pathare,A.S., Yadav,K., Dhavan,P.P. and **Jamkhedkar,S.S** (2019). Isolation of microorganisms from landfill leachate. *Genbank (NCBI)* Gene sequence accession numbers: MK931424, MK951982.
3. Dhavan,P.P., Khan,M.S., Jadhav,B.L., Shimpi,N.G. and **Jamkhedkar,S.S.** (2019). Isolation of polymer degrading microbes. *Genbank (NCBI)* Gene sequence accession number: MN480586
4. Kadirvelu,S., Damle,S.V., **Jamkhedkar,S.**, Harshal,A. and Jha,V (2019). Genetic diversity between ethnobotanically important plants belonging to Rubiaceae. *Genbank (NCBI)* Gene sequence accession numbers: MN121830, MN096266, MN091842, MN091841, MN091840, MN091839, MN108324, MN108323, MN108322, MK809391, MK809390, MK697333
5. Kadirvelu,S., Damle,S.V., **Jamkhedkar,S.**, Harshal,A. and Jha,V (2019). Genetic diversity between ethnobotanically important plants belonging to Rubiaceae. *Genbank (NCBI)* Protein sequence accession numbers: QED20519, QEA08168, QEA01455, QEA01454, QEA01452, QDY91959, QDY91958, QDY91957, QDW61104, QEA01453, QDW61103, QCC28526.

### **Patent**

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1. Aishwarya Pathare and **Suruchi Jamkhedkar** (2019). Green synthesis of silver nanoparticles from microbial bioactive extract and its biogas generation (Published; Application No. 201921025580 A)

### **Book**

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1. **Suruchi Jamkhedkar** (2011). *Lamellidens corrianus*: A Pearl producing Bivalve. LAP Lambert Academic Publishing. ISBN 978-3-8454-0024-2, paperback, Pages: 172.

## Conference Presentation

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1. Shikha Singh, Prachi Singh and **Suruchi Jamkhedkar** (2020). Effects of lockdown during corona crisis on the environment. Oral Presentation, Two Day International e – Conference on Impact of Covid- 19 on Human Health & Environment organized by the P.G. Department of Botany, Tata College, Chaibasa, Jharkhand, India.
2. Ankita Gaikwad, Raghav Rajkumar, TejalPujare and **Suruchi Jamkhedkar** (2020). Review on vaccine development for COVID-19 in health sector. Oral Presentation, Two Day International e – Conference on Impact of Covid- 19 on Human Health & Environment organized by the P.G. Department of Botany, Tata College, Chaibasa, Jharkhand, India.
3. Sumaiya Shaikh, Sana Shaikh, Firdous Sayyed, Saleheen Shaikh, Prernabharti Khan and **Suruchi Jamkhedkar** (2019). Phytochemical Analysis of Indian Herbs. Poster Presentation, National Symposium on Facets of Life Sciences organized by University Department of Life Sciences, University of Mumbai.
4. Madhura Joglekar, Neha Pandey and **Suruchi Jamkhedkar** (2019). Pigment isolation from *Garcinia indica* and *Punica granatum*. Poster Presentation, National Symposium on Facets of Life Sciences organized by University Department of Life Sciences, University of Mumbai.
5. **Suruchi Jamkhedkar** (2015). Analysis of the Hypothetical E6 and E7 Proteins of Human Papilloma Virus (HPV) DNA Consensus Sequence. Paper presentation, International Conference on Biotechnology as better tomorrow. Organized by Pacific Ag Research, USA and Microbiologists Society, India at Tampa, Florida, USA.
6. **Suruchi Jamkhedkar** and B. L. Jadhav (2015). Genetic Characterization of *Lamellidens corrianus* using Type I and Type II Molecular Markers. Paper presentation, 102<sup>nd</sup> Indian Science Congress. Indian Science Congress Association.
7. **Suruchi Jamkhedkar** and Jyotshna Dongardive (2015). Characterization of the hypothetical proteins of Human Papillomavirus DNA consensus sequence using Homology Modelling Method. Poster Presentation, 102<sup>nd</sup> Indian Science Congress. Indian Science Congress Association.
8. **Suruchi Jamkhedkar** (2014). Genetics of Developmental disorders- A view. Paper Presentation, National Conference on Advances in Bioscience 2014 organized by Department of Biotechnology, University of Mumbai.
9. **Suruchi Jamkhedkar** and Jyotshna Dongardive (2012). Predicting 3-D Structure of Human Papillomavirus DNA consensus sequence using Homology Modeling Method. Paper presentation. International Symposium on Current Trends in Life Sciences organized by University Department of Life Sciences, University Grants Commission and University of Mumbai.

10. J. Dongardive, A. Patil, A. Bir, **S. Jamkhedkar** and S. Abraham (2010). Motif Finding using Harmony Search. Poster Presentation, ACM, International Symposium on Biocomputing 2010.
11. Bir A., Dongardive J., **Jamkhedkar S.** and Abraham S. (2009). Building Consensus of Human Papilloma Virus using Genetic Algorithm. Poster Presentation, IEEE, World Congress on Nature and Biologically Inspired Computing.
12. B. L. Jadhav, S.M. Mane, **S.S. Jamkhedkar** and A.S. Borkar (2009) Target Directed Isolation and Characterization of Essential Oil from leaves of *Bruguiera cylindrica* active against human pathogens. Poster Presentation, “Third International Conference on Drug Discovery and Development Challenges in Partnership” organized by South Asian Chapter (SAC) of American College of Clinical Pharmacology (ACCP),USA, Department of Clinical Pharmacology, Seth G S Medical College and KEM Hospital, India, Maharashtra University of Health Sciences (MUHS), Nashik, India, University of Mumbai and Indian Drugs Manufactures’ Association (IDMA).
13. **Suruchi Jamkhedkar** and B. L. Jadhav (December 2006) Genetic Characterization of Pearl Producing Bivalve *Lamellidens corrianus* using RAPD markers. Poster presentation, “An International 2<sup>nd</sup> Biotech Congress on Innovations in Biotechnology and their Applications” organized by Rajiv Gandhi Biotechnology Centre, University of Nagpur.
14. Bindu Maurya, B. L. Jadhav and **Suruchi Jamkhedkar** (February 2006) Antimicrobial screening of mangrove species occurring along Mumbai coast. Poster presentation, National Conference on “Environmental Technology – Biological Perspectives: Issues and Challenges” organized by of Department Life Sciences, University of Mumbai.

### **National Seminars and Conferences Organized**

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- December 2014: National Conference on Advances in Bioscience 2014. Department of Biotechnology, University of Mumbai.
- March 2017: National Seminar on Facets of Life Sciences. University Department of Life Sciences, University of Mumbai.
- March 2019: National Symposium on Facets of Life Sciences. University Department of Life Sciences, University of Mumbai.
- August 2019: One day Seminar on Higher Education and Research: Industrial Opportunity, GKS College, Khadavali and University Department of Life Sciences, University of Mumbai.
- February, 2020: National Conference on Water Resources: Remediation and Rejuvenation, University Department of Biotechnology, University of Mumbai.

## Resource Person

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- February, 2009: Delivered lecture on Bioinformatics at Refresher Course on the theme “Role of ICT Today” organized by Department of Computer Science, University of Mumbai.
- January, 2012: Delivered lecture on Application of Bioinformatics in Diagnosis at National Conference on Biotechnology in Diagnostics organized by Department of Biotechnology & Microbiology. B. N. Bandodkar College of Science, Thane.
- August, 2016: Delivered lecture on Computational Biology at Department of Computer Science, University of Mumbai.
- November, 2017: Delivered lecture on Genetics at Two day Workshop on “UGC-CSIR- NET (Life Sciences) exam” organized by Department of Biophysics, University of Mumbai.
- October, 2018: Delivered lecture on Fundamental Processes at Two day Workshop on “UGC-CSIR- NET (Life Sciences) exam” organized by Department of Biotechnology, University of Mumbai.
- May, 2019: Delivered lectures on Basic Molecular Biology and Fundamental Processes at Eight Day Lecture Series on “UGC-CSIR- NET (Life Sciences) exam” organized by Department of Biophysics, University of Mumbai.
- August, 2019: K.C College as a part of DBT-STAR Program on Careers in Life Sciences.
- February, 2020: K.C College as a part of DBT-STAR Program on Training and Understanding of Phylogenetic Trees- Bioinformatics.

## Honors

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- October 2015: Best Oral Presentation. International Conference on Biotechnology as better tomorrow. Organized by Pacific Ag Research, USA and Microbiologists Society, India at Tampa, Florida, USA.
- March 2012: Best Oral Presentation. International Symposium on Current Trends in Life Sciences organized by University Department of Life Sciences, University Grants Commission and University of Mumbai.
- August 2007: Promoted to Senior Research Fellowship (SRF) by the University Grant Commission, Government of India.
- January 2007: Best Research Scholar for Innovative Research and Publication by Department of Life Sciences, University of Mumbai.

## Activities

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- June, 2020: Workshop on Science Leadership sponsored by Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi, National Academy of Sciences, India, Allahabad, and Indian National Young Academy of Sciences, New Delhi.
- June, 2020: International faculty development programme on “Innovation and transformation on pharmacy research, Dept. of Pharmacy Practice, Chalapathi Institute of Pharmaceutical Sciences.
- June, 2020: Attended National Webinar on “Methods in isolation and purification of bioactive compounds from medicinal plants and its in vivo studies” organised by GKS College, Khadavali.
- May, 2020: Capacity Building Programme on ‘E Content Creation and Online Teaching’ under RUSA, University of Mumbai faculty.

- May, 2020: One Week FDP on R Programming organised by the Department of Computer Application under the aegis of Human Resource Development Centre (HRDC), Integral University in association with Spoken Tutorial, IIT Bombay, Mumbai.
- May, 2020: Workshop on “Moodle Learning Management System training” organized by KLS VEDIT, Haliyal.
- August, 2019: Workshop on “Learning technologies: learning and overview” organised by Department of Nanotechnology, University of Mumbai
- December, 2018: Workshop on "Cellular and Molecular Biology- from Gene Cloning to Protein Expression and Localization" organised by UM-DAE Center for Excellence in Basic Sciences (CBS).
- March, 2017: Attended National Seminar on Facets of Life Sciences organized by University Department of Life Sciences, University of Mumbai.
- December, 2016: Attended Seminar- Workshop on Neuroscience “Perception v/s Recognition” organized by Department of Life Sciences, Jai Hind College, Mumbai.
- October, 2015: Attended International Conference on Biotechnology as better tomorrow organized by Pacific Ag Research, USA and Microbiologists Society, India at Tampa, Florida, USA.
- February, 2015: Attended training session on “Mission to control Mosquito Menace” at Haffkine Institute for training, research and testing, Mumbai.
- January, 2015: Attended 102<sup>nd</sup> Indian Science Congress, University of Mumbai.
- December, 2014: Attended National Conference on Advances in Bioscience 2014 organized by Department of Biotechnology, University of Mumbai.
- March, 2014: Attended National Seminar on Climate Change in South Asia organized by Department of Biotechnology and Department of Civics and Politics, University of Mumbai.
- Various courses through Coursera.
- June, 2012 to till date: Genetic Counselor, Dr. Shreepad Khedekar’s Imperial Clinics.
- June, 2012: Workshops in Python, Linux, PHP-SQL and Latex. Spoken Tutorial project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt. of India.
- March, 2012: Attended International Symposium on Current Trends in Life Sciences organized by University Department of Life Sciences, University Grants Commission and University of Mumbai.
- February, 2012: Attended National Seminar on “Structural Biology and Bioinformatics” organized by Department of Biophysics and Department of Biotechnology, University of Mumbai.
- January, 2012: Invited Speaker. National Conference on Biotechnology in Diagnostics organized by Department of Biotechnology & Microbiology. B. N. Bandodkar College of Science, Thane.
- January, 2011- March, 2011: Counselor-Observer (Psychiatry) with Dr. Avinash De Souza.
- December, 2010: Postgraduate Diploma in Psychological Counseling (PGDPC) from Institute of Psychotherapy and Management Sciences.
- October- November 2010: Training in Genetic Counseling with Ms. Pooja Ramchandran.
- October, 2009: Poster Presentation. Third International Conference on Drug Discovery and Development Challenges in Partnership” organized by South Asian Chapter (SAC) of American College of Clinical Pharmacology (ACCP),USA, Department of Clinical Pharmacology, Seth G S Medical College and KEM

Hospital, India, Maharashtra University of Health Sciences (MUHS), Nashik, India, University of Mumbai and Indian Drugs Manufacturers' Association (IDMA).

- February, 2007: Attended National Seminar on More Crop Per Drop- Strategy for Water Conservation organized by Department Life Sciences, University of Mumbai.
- February, 2007: Attended workshop on "Bioinformatics – Application in Life Sciences" organized by Department Life Sciences, University of Mumbai.
- January, 2007: Attended one day seminar on "Animal Experimental in Pre-clinical Studies" organized by HSNCB's Facility for Animal Breeding and Experimentation [FABE].
- December, 2006: Poster Presentation. An International 2<sup>nd</sup> Biotech Congress on Innovations in Biotechnology and their Applications" organized by Rajiv Gandhi Biotechnology Centre, University of Nagpur.
- February, 2006: Poster Presentation. National Conference on "Environmental Technology – Biological Perspectives: Issues and Challenges" organized by of Department Life Sciences, University of Mumbai.
- October, 2001: Attended National Symposium on "Recent Trends in Life Science and Biotechnology," organized by Department of Life Sciences, University of Mumbai.
- January, 1999: Participated in science exhibition" Quest-99" organized by Royal College of Arts, Commerce and Science, Mumbai.
- August, 1998: Participated in Departmental exhibition - Bios 20 organized by Department of Life Sciences, St. Xavier's College, Mumbai.

### **Certifications from Coursera**

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- Understanding the Brain: The Neurobiology of Everyday Life, The University of Chicago
- Introduction to Forensic Science, Nanyang Technological University, Singapore
- Ethical and Social Challenges of Genomic and Precision Medicine, University of California, San Francisco
- Writing in the Sciences, Stanford University
- Introduction to Human Behavioral Genetics, University of Minnesota
- Bioinformatic Methods II, University of Toronto
- Bioinformatics: Introduction and Methods, Peking University
- Epigenetic Control of Gene Expression, The University of Melbourne
- Nutrition, Health, and Lifestyle: Issues and Insights, Vanderbilt University
- "Pay Attention!!" ADHD Through the Lifespan, University of Pennsylvania
- Genes and the Human Condition (From Behavior to Biotechnology), University of Maryland, College Park
- Nutrition for Health Promotion and Disease Prevention, University of California, San Francisco
- Drugs and the Brain, Caltech
- Fundamentals of Pharmacology, University of Pennsylvania