

MS. YUGANDHARA BABANAPPA JIRWANKAR

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Current Affiliation:

ICMR-National Institute for Research in Reproductive and Child Health, Mumbai. J M Street Parel, Mumbai. 400012.

Ph.D. thesis title: Identification and characterization of Sertoli and Leydig cell homing peptides

Guide: Dr. Vikas Dighe, Scientist F

MSc dissertation project: *In-vitro* Bioactivities of *Cyclea peltata*: An Important Ayurvedic Plant.

BSc dissertation project: *Pseudomonas spp.* NDD1 and *Bacillus spp.* NDD2 affects the seed germination and vigour index of *Triticum aestivum* and *Sorghum vulgare* in the Petri plate method without of soil.

Work experience:

S. No.	Position	Name of the Institute	From	To	Pay Scale
1	JRF	ICMR-NIRRH, Mumbai	October 2017	December 2018	25000/month
2	JRF	ICMR-NIRRH, Mumbai	January 2019	September 2019	31000/month
3	SRF	ICMR-NIRRH, Mumbai	October 2019	September 2022	35000/month
4	Project associate-I	ICMR-NIRRH, Mumbai	June 2023	Till date	31000/month

Academic Qualification:

S. No.	Degree	Year	Subject	University/Institution	% of marks
1	All India Secondary School Examination/10 th	2009	English, Marathi, Mathematics, Science, and Social Science	Central Board of Secondary Education (CBSE)	88.80%
2	All India Senior School Certificate Examination (AISSCE)/12 th	2011	English Mathematics, Physics, Chemistry, Biology, Marathi	Central Board of Secondary Education (CBSE)	77.66%
3	B. Sc.	2014	Biotechnology	Swami Ramanand Teerth Marathwada University, Nanded, Maharashtra	79.15%
4	M. Sc.	2017	Biotechnology	North Maharashtra University, Jalgaon, Maharashtra	5.57/6 (CGPA)

Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S. No	Name of Award	Awarding Agency	Year
1	SERB International travel support	SERB	2023
2	Gold medal/Merit certificate for University topper	North Maharashtra University, Jalgaon, Maharashtra	2018
3	BET (DBT-JRF) Category-I	DBT-BCIL	2017
4	GATE Biotechnology	NCB GATE	2017
5	Certificate Course in Spanish	Swami Ramanand Teerth Marathwada University Nanded	2012
6	LIC Golden Jubilee Foundation Scholarship	Life Insurance Corporation of India Golden Jubilee Foundation	2011

Conferences and Workshops:

1. Offline participation in Monsoon Advanced Proteomics School (MAPS 2023), organized at IIT Bombay on July 25 and 26, 2023.
2. 9th Indian Peptide Symposium and India Peptide Show 2023, organized by Indian Peptide Society at BITS Pilani, Goa Campus on February 23-25, 2023
3. Student Indian Peptide Symposium (sIPS-2022), a virtual symposium on “Peptides: Therapeutics, Biomaterials, and Beyond” organized by Indian Peptide Society in collaboration with IIT Bombay, on March 31-April 1, 2022.
4. International Conference on Women`s Health organized by ICMR-NIRRH, Mumbai on February 20-23, 2020.
5. World Congress on “Reproductive Health with emphasis on Reproductive Cancers, Infertility and Assisted Reproduction” organized by the Indian Society for the Study of Reproduction and Fertility (ISSRF) on February 14-16 February 2020 (ISSRF 2020).
6. Virtual training course in Structural Bioinformatics organised by EMBL-EBI on November 23-27, 2020.
7. 5th Hands-on workshop on “In vivo Preclinical Imaging and Drug Discovery” organized at Advanced Centre for Treatment Research and Education in Cancer (ACTREC), Navi Mumbai on September 26-28 2018.
8. Teaching Workshop on “Basics of Scientific Writing” led by Dr. Sonal Jhaveri, Science Program Director at Dana-Farber Cancer Institute held at Harvard Chan-India Research Centre, Mumbai on 14th February 2019.
9. UGC-SAP-DRS Seminar on Current Trends in Life Sciences (2017), organized by North Maharashtra University Jalgaon.
10. One Day Seminar and Exhibition on Genetically Modified Crops: Issues and Opportunities (2013) organized by S.R.T.M.U, Nanded.
11. National Seminar on Drug Discovery from plants: Promises and Challenges (2012) organized by S.R.T.M.U, Nanded.

Publications (List of papers published in SCI Journals, in year-wise descending order).

S.No	Author(s)	Title	Name of Journal	Volume	Page	Year
1	Jirwankar Y and Dighe V.	Identification and validation of Sertoli cell homing peptides as molecular steering for testis targeted drug delivery	Journal of Drug Targeting	31(4)	390-401	2023
2	Bhide AR, Suri M, Katnoria S, Kaur S, Jirwankar YB , Dighe VD, Jindal AB.	Evaluation of Pharmacokinetics, Biodistribution, and Antimalarial Efficacy of Artemether-Loaded Polymeric Nanorods	Molecular Pharmaceutics	20(1)	118-127	2023
3	Mehta S, Bongcaron V, Nguyen TK, Jirwanka Y , Maluenda A, Walsh APG, Palasubramaniam J, Hulett MD, Srivastava R, Bobik A, Wang X, Peter K.	An Ultrasound-Responsive Theranostic Cyclodextrin-Loaded Nanoparticle for Multimodal Imaging and Therapy for Atherosclerosis	Small	18(31)	e2200967	2022
4	Surve DH, Jirwankar YB , Dighe VD, Jindal AB.	Long-Acting Efavirenz and HIV-1 Fusion Inhibitor Peptide Co-loaded Polymer-Lipid Hybrid Nanoparticles: Statistical Optimization, Cellular Uptake, and In Vivo Biodistribution	Molecular Pharmaceutics	17(10)	3990-4003	2020