



Rushigandha Salunke

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PROFESSIONAL SUMMARY

Dedicated and innovative PhD Scholar with a strong academic background in the field of life sciences. I have got CSIR-NET assistant professorship and currently pursuing my research at ICMR- National Institute of Research in Reproductive and Child Health, Mumbai. My research aims to understand the role of Toll-like- receptor signaling in triple negative breast cancer that has resulted in two publications and two presentations in national conferences. I further intend to grow in the area of cancer biology research and attain new heights.

ACADEMIC BACKGROUND

National Institution of Research in reproductive and child health, Mumbai

PhD Joined in 2022- 2nd Year

Ramnarin Ruia autonomous college, Mumbai

MSc Life Sciences 2021 CGPA: 8.9

V G Vaze Kelkar college, Mumbai

BSc Zoology 2019 CGPA: 8.73

St. John the Baptist Jr. College, Thane

HSC 2016 Percentage: 75.30%

St. Xavier's English High School , Thane

SSC 2014 Percentage: 86.80%

EXAMS QUALIFIED

CSIR- NET Assistant Professorship June 2022

MU-PET- university of Mumbai December 2021

PUBLICATIONS

- Anusha Shettigar, **Rushigandha Salunke**, et.al Targeting molecular cross-talk between tumor cells and tumor associated macrophage as therapeutic strategy in triple negative breast cancer, International Immunopharmacology (Impact factor = 4.8),2023, <https://doi.org/10.1016/j.intimp.2023.110250>.
- Mayur Jondhale, **Rushigandha Salunke**, et.al Immunomodulatory potential of Toll Like Receptor 4 in Triple negative breast cancer (Submitted to Cancer Letters Impact Factor = 8.6)

PROJECTS COMPLETED

- Survey of household average carbon footprint per year.
- Exploring the inhibitory potential of piperine against various cancer targets by in silico virtual screening.

PAPERS PRESENTED IN CONFERENCES

- Presented a poster entitled Immunomodulatory potential of Toll Like Receptor 4 in Triple negative breast cancer in 19th National RESEARCH SCHOLARS MEET, December, 2023 organized by ACTREC-TMC, Mumbai.
- Presented a poster entitled Role of placental secretome driven breast carcinogenesis during pregnancy in 93rd Annual Session of the NASI, December, 2023 organized by National Academy of Sciences, India (NASI), Prayagraj, and Bhabha Atomic Research Centre, Mumbai

WORKSHOPS AND SEMINARS ATTENDED

- Hands On training in Plant tissue culture of *capsicum annuum* by department of botany at V. G Vaze Kelkar College.
- State level seminar "higher education & research : industrial opportunities" at Mumbai university.
- Study of various types of heart by the department of zoology at V. G Vaze Kelkar College.
- One day workshop on Fluorescence In Situ Hybridization (FISH), RT PCR and Multiplex PCR techniques at ICMR- National Institute for Research in Reproductive Health held in September 2021.
- Molecular Docking in Rational drug design held from 4th to 6th February 2021 organized by Department of Bioanalytical Sciences under the aegis of the DBT Star College Scheme, Ramnarain Ruia autonomous college.
- Two day online workshop on orientation to online databases and algorithms for biologists organized by BIC department, ICMR- National Institute for Research in Reproductive Health, funded by DBT.

COURSES

- Coursera course on Python Programming in Genomic Data Sciences by John Hopkins university for about 4 weeks.

INTERNSHIP

- Studies on chemopreventive action of polymeric black tea polyphenols (PBPs) in experimental oral tumors under Dr. Manoj Mahimkar, Advanced Centre for Treatment, Research and Education in Cancer (ACTREC) (2 month).

INVOLVEMENT IN OTHER SCIENTIFIC ACTIVITIES

- Teaching in PhD coursework program (Stem Cell and Cancer Biology Module) conducted in the ICMR-NIRRH, Mumbai for training PhD students.
- Participated as volunteer in organization of talk series of Breast Cancer Awareness held in October 2023 at ICMR-NIRRH.
- Participated as volunteer in celebration of National Science Day jointly organized by ICMR-NIRRH, Mumbai and National Academy of Sciences, India (NASI) on 14th February 2024

SKILLS AND TECHNIQUES ACQUIRED

- Molecular Biology Techniques
- Cell Culture Techniques
- Animal Handling
- ELISA
- Histological techniques
- Immunochemistry
- Blotting Techniques (Western Blotting)
- Data Analysis
- Biostatistics (GraphPad Prism)
- Bioinformatics (Molecular Docking tools, SwissADME)
- Literature Review
- G-Suit and MS office
- Creative Thinking and Problem solving ability.
- Good communication and presentation skills