



Sajida Mahammad

Passport: Y2708459 **Date of birth:** 03/05/1993 **Gender:** Female

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Home: Manama (Bahrain)

ABOUT ME

A highly motivated, enthusiastic and goal-oriented scientist with 8+ years of research experience. Expertise in the field of cancer biology and molecular biology skills. Accomplished Laboratory Manager at Yenepoy at Research Centre with expertise in cell culture techniques and data analysis. Proven ability to lead research projects and enhance laboratory efficiency. Skilled in molecular biology and adept at fostering collaboration within teams to achieve significant research outcomes.

WORK EXPERIENCE

Yenepoya University – Mangalore, India

City:Mangalore | Country: India

Laboratory Manager

[27/03/2023 – 14/10/2025]

- Training new joiners and research scholars on cell culture, microbiology, molecular biology and analytical techniques. Collaboration and research article writing
- Management of routine laboratory activity to maintain the GLP and ISO standards. Data management and consultancy research studies.

Yenepoya University – Mangalore, India

City:Mangalore | Country:India

Demonstrator in Specialized research unit

[01/01/2024 – 14/10/2025]

Yenepoya institute of arts, science, commerce and management – Mangalore, India

City:Mangalore | Country: India

Guest lecturer

[01/10/2022 – 18/05/2023]

- Conducted theory and practical classes for BSc microbiology course, Internal and university examinations

Yenepoya University – Mangalore, India

City: Mangalore | Country: India

Technical Assistant

[01/12/2016 – 26/03/2023]

- Maintenance of Equipments and laboratory and SOP preparation and review
- Conducting microbiological and analytical assays for various samples such as dental materials, nanomaterial, novel drugs, etc. Testing of drugs on different cell line models for its activity.

Pragati English Medium School Kukkaje – Bantwal, India

City: Bantwal | Country: India

Secondary school teacher

[09/2015 – 11/2016]

EDUCATION AND TRAINING

PhD

Yenepoya University [14/05/2018 – 19/07/2024]

City: Mangalore | Country: India | Field(s) of study: Cancer Biology

Master Degree

Mangalore University [2013 – 2015]

City: Mangalore | Country: India | Field(s) of study: Biotechnology

Bachelor Degree

Mangalore University [2009 – 2013]

City: Mangalore | Country: India | Field(s) of study: Microbiology Zoology Chemistry

LANGUAGE SKILLS

Mother tongue(s): Beary

Other language(s):

English

LISTENING C2 READING C2 WRITING C2
SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

Hindi

LISTENING C2 READING C2 WRITING C2
SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

Kannada

LISTENING C2 READING C2 WRITING C2
SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

microbiology-bacteriology/ biology/ molecular biology/ good laboratory practice/ Cell Culture Techniques/ FTIR spectrometer/ Fluorescence imager/ UV-Vis spectrophotometer/ PCR (conventional and qRT-PCR)/ Semi-automated microtome and tissue embedding systems/ Histopathology/ Flow cytometry platforms/ Various optical and digital microscopes/ Microsoft Excel, Word, PowerPoint/ ImageJ, FCS Express, CorelDRAW, OriginLab

/ statistical analysis system software/ Graphpad Prism, SPSS, and Backbone/ Zotero and Mendeley

PUBLICATIONS

Kakunje S, Badiadka N, Kunhana SB, Mahammad S, Suchitra, Rekha D, Sesappa DB, Raghu SV. Fabrication, characterization and in vitro drug release behavior of electrospun eudragit/eugenol nanofibrous scaffold. *Fibers. Polym.* 2024; (IF: 2.2).

Suchithra KV, Hameed A, Mahammad S, Arun AB. Dual phage-incorporated electrospun polyvinyl alcohol-eudragit nanofiber matrix for rapid healing of diabetic wound infected by *P aeruginosa* and *S aureus*. *Drug Deliv Transl Res.* 2025;15:1092-108 (IF: 5.7).

Rex DAB, Palollathil A, Kumar STA, Chandrasekaran J, Upadhyaya SS, Parate, SS, Sajida M, Prasad TSK. Role of *Hemigraphis alternata* in wound healing: metabolomic profiling and molecular insights into mechanisms. *Sci. Rep.* 2024;14:3872. (IF:4.6).

Dalavi PA, Prabhu A, Sajida M, Murugan SS, Venkatesan J. Casein-assisted exfoliation of tungsten disulfide nanosheets for biomedical applications. *Colloids Surf. B Biointerfaces*. 2023; 232: 113595. (IF: 5.8).

Sajida, Pabhu A. Immunomodulatory compounds derived from medicinal plants as promising therapeutics for cancer. *Ethnic knowledge and perspectives of medicinal plants*. Vol. 1. 2023. CRC press, Taylor and Francis Group. Apple Academic press. 419-40. (Book chapter)

Sajida, Ashwini Prabhu. *Withania somnifera* deploys immunomodulation and exerts anticancer effects on lung adenocarcinoma cells. *S. Afr. J. Bot.* 2022; 151 (2022): 47-65. (IF:3.111)

Dalavi PA, Prabhu A, Sajida M, Chatterjee K, Venkatesan J. Casein-coated molybdenum disulfide nanosheets augment the bioactivity of alginate microspheres for orthopedic applications. *ACS Omega*. 2022; 7: 26092-26106 (IF: 4.132)

Sajida, Ashwini Prabhu. Anti angiogenic, apoptotic and MMP inhibitory activity of *Withania somnifera* (ashwagandha) on Lung adenocarcinoma. *Phytomedicine*. 2021; 90: 153639. (IF:7.9)

PROJECTS

[01/06/2014 – 15/05/2015] **Characterization of Enterobacter sp. NK- YG4 and uranium tolerance**

Possibility of urinary tract colonization by a recently described Kalamielliella piersonii strain YU-22 [2023 – 2024]

Evaluation of anti-diabetic potential of TRM 10 formulation using in vitro cell line diabetic model

CONFERENCES AND SEMINARS

[22/02/2022 – 27/02/2022] Alvas Education foundation, Moodubidire **Science Mela to exhibit research at International cultural jamboree 2022**

[15/12/2021 – 16/12/2021] Yenepoya Research Centre

Organising committee member for the Hands on training on Real Time-PCR technique

[25/11/2021 – 26/11/2021] Nitte (Deemed to be University)

42nd Annual Conference of Indian Association of Biomedical Sciences (IABMS) organised by Nitte (Deemed to be University) Immunomodulatory activity of *Withania somnifera* extract enhances the antiangiogenic effect on lung adenocarcinoma

[24/04/2021]

4th Global Cancer Summit 2021 and 2nd World Congress on Pathology and Cancer Diagnosis 2021 Apoptotic and anti-proliferative effect of *Withania somnifera* (ashwagandha) on lung adenocarcinoma cell line [21/11/2019]

Yenepoya Research Centre

A workshop on Next Generation Sequencing application in clinical research

[20/03/2019] Mangalore University

National Seminar on Research Trends in Frontiers Areas of Biological Sciences Antioxidant activity and cytotoxicity of *Streblus asper* aqueous and ethanolic extracts on lung adenocarcinoma cells [04/04/2017– 06/04/2017]

Yenepoya Research Centre

Hands on training in Molecular Biology Techniques

HONOURS AND AWARDS

Yenepoya Research Centre, Yenepoya (Deemed to be University) **Best researcher Award for the year of 2021**

Yenepoya Research Centre, Yenepoya (Deemed to be University)

Best Research Paper Award (2021)

Yenepoya (Deemed to be University)

Best oral presentation award Paper titled "Anticancer activity of *Catharanthus roseus* on lung cancer cells *in vitro*" in the "Healthcare and Medicine", session of National Symposium on "Future of STI: Impacts on Education, Skills and Work" on February 27th, 2021

[20/02/2020] Alvas College, Moodabidri

Best poster award Antioxidant, cytotoxic and anti-angiogenic activity of *Withania somnifera* on lung adenocarcinoma in a National conference on Current advances in medical and Industrial Biotechnology. **Reviewer of the Journal**

Phytomedicine, Journal of Ethnopharmacology and South African Journal of Botany [06/09/2019] Sri Ramakrishna

School, Puttur

Resource person one day workshop on "Research Ideation"

INSTITUTIONAL RESPONSIBILITIES

Capable of independently designing and conducting studies, as well as collaborating effectively within a team.

Participated in multiple collaborative projects, postgraduate dissertation research, and the design and execution of projects for school students.

Delivered both theoretical and practical sessions for BSc Microbiology students. Laboratory In-Charge:

Responsible for maintaining laboratory instruments, addressing equipment-related

issues, training new staff members, managing documentation, and overseeing overall lab operations.

Assisting with fluorescence imaging of renal biopsies for the diagnosis of kidney diseases. Certified to perform

bacterial endotoxin testing on R.O. water used in dialysis procedures Generating revenue by providing

consultancy services QA Team Member: Involved in the preparation and review of Standard Operating

Procedures (SOPs) to

ensure quality standards are maintained

Management of institutional portals for administering extramural project funds, including PFMS, NewFMS, CSIR AMS portal, and iSTEM.

Contributed to documentation for NAAC accreditation review, UGC review, NIRF ranking, and AIIRA rankings.

PATENT

1. Ashwini Prabhu, Sajida. Herbal formulation for targeting lung cancer. 2022. (Application No. 202241044762): Applied

CERTIFICATIONS

[Medvarsity in partnership with NAT Health & FICCI, 2020]

Certificate on COVID-19 awareness and management

Mode of learning: Online

[WHO and Health emergencies programme, 2020]

COVID-19: Operational planning guidelines and COVID-19 partners platform to support country preparedness and response

Mode of learning: Online

[National Institutes of Health, Department of Health and Human Service, 23/08/2024]

Good clinical practice conducted by NIDA Clinical Coordinating Center

Mode of learning: Online

RECOMMENDATIONS

Name: Dr Ashwini Prabhu | Associate Professor

Ph.D Supervisor, Yenepoya Research Centre, Yenepoya (Deemed to be University), Mangalore, India

Email: ashwinibiosciences@gmail.com

Name: Dr. Rekha P.D. | Director, R&D cell

Professor, Yenepoya Research Centre, Yenepoya (Deemed to be University)

Email: rekhapd@yenepoya.edu.in

Name: Dr. Yashodhar P Bhandhary | Deputy Director & Professor

Yenepoya Research Centre, Yenepoya (Deemed to be University)

Email: yash28bhandary@gmail.com