

SHIVALI GULERIA

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PROFILE SUMMARY

Seeking an opportunity to serve at a full time teaching position for a reputed educational institute. B.Sc. and M.Sc. in Zoology. PhD degree candidate; anticipated completion Feb, 2022. Skilled in Classroom Management and Creative Lesson Planning. Capable of building an open and interactive environment to help students express themselves in a better way. Proficient in a range of teaching styles and communication. I would like to utilize my skills and experience as well as my passion for teaching to train and educate young minds. Moreover, I would like to work with other professionals to improve my skills as an educator which will allow me to further contribute in the field of education.

EDUCATIONAL QUALIFICATIONS

| Course | School / College | Board / University | Year of Passing | Percentage |
|-----------------|---------------------------------------|--------------------|-------------------------|------------|
| Ph.D. | School of Sciences, Ahmedabad | Gujarat University | Pursuing (2016-Present) | Pursuing |
| M.Sc.- Zoology | School of Sciences, Ahmedabad | Gujarat University | 2015 | 80.8 % |
| B.Sc. - Zoology | Bhavans College of Science, Ahmedabad | Gujarat University | 2013 | 78.38 % |
| H.S.C | Urmi School, Vadodara, Gujarat | GSHSEB | 2010 | 63.7 % |
| S.S.C | DAV Public School, Jawali, Kangra HP | HPBOSE | 2008 | 86.1 % |

HONORS AND AWARDS

| Title of Award | Year |
|---|------|
| Science Congress Gold Medal & Prof. V. C. Shah Gold Medal M.Sc. Zoology | 2015 |
| Prof. R.K. Shah Gold Medal, Dr. V.M. Sukkawala Gold Medal & Dr. K.N. Desai Gold Medal T.Y.B.Sc. (Zoology) | 2013 |
| M/s. National Builders (Baroda) Gold Medal S.Y.B.Sc. (Zoology & Botany) | 2012 |
| Miss Twinkle Noel Frank Gold Medal S.Y.B.Sc. (Botany) | 2012 |

TEACHING EXPERIENCE

Gujarat University, Ahmedabad Aug 2016 – Present
Ph.D Scholar, Department of Zoology, School of Sciences

- M.Sc. Zoology Sem II, Practical labs with 30-35 students, Animal Behaviour
- M.Sc. Biomedical Technology Sem I, Theory classes covering the topics: Histology
- M.Sc. Biomedical Technology Sem I, Practical labs with 25- 30 students, Histochemical Techniques
- M.Sc. Bioinformatics, Sem II, Practical labs with 18-20 students, Haematology

Masters Students Advised

| Name | Dissertation Title | Year |
|-----------------|---|-----------|
| Annmaria Joseph | “An <i>in silico</i> approach for screening of phytocomponents as antimalarials” | May, 2021 |
| Yogesh Jadav | “ Antimalarial efficacy of the Plant <i>Lantana camara</i> against <i>Plasmodium falciparum</i> sporozoitic stages- an <i>in vitro</i> study” | May, 2020 |
| Ayesha Momin | ” An <i>in silico</i> and <i>in vitro</i> studies of the selected sulphonamides as gametocidal agents” | May, 2020 |

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| Krishna Vora | “ Prophylatic action of selected drugs/phytochemicals on prevention of malaria parasites” | May, 2020 |
| Palak Joshi | “Erythrocyte membrane stabilization of dual phytocombination against malaria” | May, 2019 |
| Patel Darshita | “An <i>in silico</i> and <i>in vitro</i> proteomic analysis of normal and <i>plasmodium</i> infected erythrocytes” | May, 2018 |
| Ruchika Amin | “ <i>In vitro</i> generation and maintenance of gametocytic stages of <i>Plasmodium</i> species for investigating drug efficiency” | May, 2017 |

RESEARCH EXPERIENCE

Ph.D., Gujarat University, School of Sciences, Ahmedabad **2016-Present**
Guide: Dr. Linz Buoy George, HOD-Department of Zoology, School of Sciences, Gujarat University, Ahmedabad

- **Title**, “Effect of selected phytocomponents on the life cycle stages *Plasmodium* species *an silico* and *in vitro* study”

M.Sc. Dissertation, Gujarat University, School of Sciences, Ahmedabad **2015**
Guide: Dr. Linz Buoy George, HOD-Department of Zoology, School of Sciences, Gujarat University, Ahmedabad

- **Title**, “Antimalarials effects and erythrocyte membrane stabilization of *Calotropis procera* extracts”

PUBLICATIONS

Journal Publications

Guleria, S., Momin, A., Sebastian, V., Menon, S., and George, L. B., (2019). *In silico* and *In vitro* studies of Acetazolamide as a gametocidal agent. *International Association of Biologicals and computational Digest*, 4(2): 68-84.

Noronha, M., Guleria, S., Jani, D., George, L. B., Highland, H., & Subramanian, R. B. (2018). Ethnobotanical database based screening and identification of potential plant species with antiplasmodial activity against chloroquine-sensitive (3D7) strain of *Plasmodium falciparum*. *Asian Pacific Journal of Tropical Biomedicine*, 8(2), 92.

George, L. B., Joshi, U. U., Jani, D. V., Guleria, S. D., & Highland, H. N. (2016). *Lantana camara* L. Aqueous-methanolic Extract Provides Potent Red Blood Cell Membrane Fortification against *Plasmodial* Attack. *European Journal of Medicinal Plants*. 11(4): 1-10.

George, L. B., Guleria, S., Jani, D., Joshi, U., Desai, K., & Highland, H. (2016). *Calotropis procera* Extract Halts *Plasmodium falciparum* Transgression through Red Blood Cell (RBC) Membrane. *International Blood Research & Reviews*, 6(2): 1-12.

George, L. B., Jani, D., Guleria, S., Joshi, U., & Highland, H. (2016). Hydroalcoholic extract of *Alstonia scholaris* arrests Invasion of *Plasmodium falciparum* by effective RBC membrane stabilization, *Journal of Advances in Medical and Pharmaceutical Sciences*, 9(2): 1-9.

Journal Papers in Review

“An *In-vitro* study to evaluate *Plasmodium falciparum* gametocidal efficacy of *Lantana camara* L. extract” in Indo Global Journal of Pharmaceutical Sciences with Ms. Ref. No. IGJPS-2020-MSA-0934

Conference Papers

Guleria, S., Amin, R., Hapani, U., Highland, H., & George, L. B. (2018). *Plasmodium falciparum* gametocidal activity of selected plant extracts conference proceedings National Symposium: Herbal Therapeutics: Biochemical and Biotechnological Interventions

Conference Papers in Review

“*In silico* and *In vitro* Evidence of Phytomolecular Intervention in *Plasmodium falciparum* Merozite Invasion of RBCs” in proceedings of “National Seminar on ‘Present Day Biology: Impact of Research on Cellular and Molecular Biology, organized by the department of Biochemistry-Biotechnology, St Xavier’s College on 3-4 January, 2020.

PRESENTATIONS

Paper Presentation

“*Plasmodium falciparum* Gametocidal Activity of Selected Plant Extracts” National Symposium: Herbal Therapeutics: Biochemical and Biotechnological Interventions on 29th – 30th December 2017 organized by the Department of Biochemistry- Biotechnology, St. Xavier’s College, Ahmedabad.

“*In silico* and *In vitro* Evidence of Phytomolecular Intervention in *Plasmodium falciparum* Merozite Invasion of RBCs” National Seminar Present day Biology: Impacts of Research at the molecular and cellular level on January 3rd – 4th , 2020 organized by the Department of Biochemistry- Biotechnology, St. Xavier’s College, Ahmedabad.

Poster Presentation

“*In silico* and *In vitro* evidence of RBC membrane stabilization and antiplasmodial activity by *Phyllanthus fraternus* hydro-alcoholic extract”– September 9 & 10, 2016 “Malaria Parasite Biology: Drug Designing & Vaccine Development”, Organized by Institute of Science, Nirma University.

2nd UGC National Conference on “Current trends in Biological Sciences” on January 20-21, 2017, Anand, India. Poster entitled: “Screening and characterization of potential antiplasmodial plant species”.

“*In vitro* gametocidal activity of selected plant extracts – approach for finding novel active gametocidal phytocomponents” at International workshop on Malaria Parasite Biology: Strategies for Drug and Vaccine Development on 29th November to 1st December 2017, ICGEB New Delhi.

“Antiplasmodial activity of *Acalypha indica* and *Averrhoa bilimbi* against chloroquine-sensitive strain (3D7) of *Plasmodium falciparum*”: at International Scientific Meeting and Workshop “Malaria Parasite Biology: Strategies for Drug and Vaccine Development”; November 29, December 1, 2017.

“Study of the protein profile of Normal and *Plasmodium* Infected Erythrocytes” at UGC National Conference on “Current Trends in Biological Sciences-II” CTBS-2018 Held on 9th February 2018 organized by Sardar Patel University, Vallabh Vidyanagar.

“Antimalarial Efficacy of Selected Plant Extracts- An *In vitro* Study” at 4th UGC National Conference on “Current Trends in Biological Sciences-III” CTBS2019 held on 11th February 2019 organized by Sardar Patel University, Vallabh Vidyanagar.

“An *In-silico* approach for finding phytocomponents as antimalarials targeting interactions of invasion proteins in blocking entry of the parasite” at 4th UGC National Conference on “Current Trends in Biological Sciences-III” CTBS-2019 held on 11th February 2019 organized by Sardar Patel University, Vallabh Vidyanagar.

“Antimalarial Efficacy of Selected Plant Extracts - An *In Vitro* Study” ” at 4th UGC National Conference on “Current Trends in Biological Sciences-III” CTBS-2019 held on 11th February 2019 organized by Sardar Patel University, Vallabh Vidyanagar.

“Efficacy of *L. camara* Leaf Extract against Malarial Transmission Gametocytic Stages of *P. falciparum* RKL9 Strain” at AICTE sponsored International Conference on Biomolecular and Biotechnological aspects of medicinal plants, October 18-19, 2019 organized by LM college of Pharmacy Ahmedabad.

“AMA 1 and PfMSP-180 Merozoite Surface Proteins Play Central Role in Erythrocyte Invasion by *Plasmodium* Species” at National Seminar Present day Biology: Impacts of Research at the molecular and cellular level on January 3rd – 4th , 2020 organized by the Department of Biochemistry- Biotechnology, St. Xavier’s College, Ahmedabad.

“Molecular Characterization and Role of *Plasmodium falciparum* Gametocyte Proteins Pfs11-1 and PfGEXP5 at National Seminar Present day Biology: Impacts of Research at the molecular and cellular level on January 3rd – 4th, 2020 organized by the Department of Biochemistry- Biotechnology, St. Xavier’s College, Ahmedabad.

PROFESSIONAL TRAINING

Conferences

“International Conference on Human Genetics & 39th Annual Meeting of Indian Society of Human Genetics” held on 22nd – 25th January, 2014, Ahmedabad.

EnviroNext- 2014 GUJCOST- sponsored State-level seminar on “Future Scenario of Environment” held on 2nd and 3rd August, 2014 at Government Science College K K Shastri Educational Campus, Khokhara, Ahmedabad.

“One Day Seminar Cum Demo of HPTLC” organized by Department of Zoology, School of Sciences, Gujarat University on 2nd March 2015, Ahmedabad.

Seminar on “Herbs N Health 2015 (HNH 2015) organized by Gujarat University Botanicals Society (GUBS) and Women Development Cell (WDC) on Friday, 10th July-2015.

Science Excellence 2015 organized by the Department of Botany, Gujarat University, Ahmedabad on 26th September-2015.

IBioA’s S symposium on Biotechnology platform “Pushing the frontiers of Biomedical research enterprise with modern technologies” held on 23rd Oct, 2015 at Ahmedabad Management Association, Ahmedabad.

International Seminar (sponsored by GSBTM & GUJCOST) on “ Current Trends in Biological Sciences” held on 26th & 27th December 2015 organized by Department of Biochemistry, M. G. Science Institute, Ahmedabad.

National conference on “Malaria Parasite Biology: Drug Designing & Vaccine Development”, Organized by Institute of Science, Nirma University on September 9 & 10, 2016 Ahmedabad.

Seminar on Bioinformatics Leads in Gujarat: Proteogenomics (BLG-2016) on 24th September 2016 organized by Department of Botany, Gujarat University, Ahmedabad.

National Symposium: Herbal Therapeutics: Biochemical and Biotechnological Interventions on 29th – 30th December 2017 organized by the Department of Biochemistry- Biotechnology, St. Xavier’s College, Ahmedabad.

UGC National Conference on “Current Trends in Biological Sciences-II” CTBS-2018 Held on 9th February 2018 organized by Sardar Patel University, Vallabh Vidyanagar.

One day seminar “Zoology: Current Scenario and Evolving Trends” organized by Department of Zoology, Biomedical Technology and Human Genetics, Gujarat University, Ahmedabad on 6th March, 2018.

International Conference on “Herbal Medicines: Research and Commerce - Global Perspectives” organized by L. M. College of Pharmacy, Opp. Gujarat University, Navrangpura, Ahmedabad -380 009 on December 27-29, 2018.

4th UGC National Conference on “Current Trends in Biological Sciences-III” CTBS-2019 held on 11th February 2019 organized by Sardar Patel University, Vallabh Vidyanagar.

National Seminar Present day Biology: Impacts of Research at the molecular and cellular level on January 3rd – 4th, 2020 organized by the Department of Biochemistry- Biotechnology, St. Xavier’s College, Ahmedabad.

Training/Workshops

“One Day Seminar Cum Demo of HPTLC” organized by Department of Zoology, School of Sciences, Gujarat University 2015, Ahmedabad.

Short term course on “Advances in Genetic Diagnosis” from 27th September to 3rd October 2016 at Department of Zoology, Biomedical Technology & Human Genetics, School of Sciences, Gujarat University Ahmedabad.

National Workshop cum Training Programme on “Current Approaches in Molecular Modelling of Proteins” held on 8th – 10th January 2016, organized by Bioinformatics Centre Birla Institute of Scientific Research, Jaipur.

Short term training program on the Instrumental methods of Chemical Analysis-2017, from 29th May- 2nd June at Pandit Deendayal Petroleum University, Gandhinagar.

International workshop on Malaria Parasite Biology: Strategies for Drug and Vaccine Development on 29th November to 1st December 2017, ICGEB New Delhi.

Two day state level workshop on Patent Drafting, Filing and Processing Criteria in India under the aegis of CPEPA, Phase-II sponsored by the UGC, New Delhi on 16th -17th February, 2018.

Two day workshop on “Computational Tools for Drug Design (Hands on training)” organized by Department of Chemistry, Gujarat University, Ahmedabad on 6th – 7th March, 2019.

Two Day Online Workshop on Scientific Document Preparation System: LaTeX on 16, 17 Oct, 2020 LaTeX. Workshop by Organized by Dept. of Mathematics, Pandit Deendayal Petroleum University, Gandhinagar.

One Day online workshop on How to publish in Scopus indexed and ABDC Journals. October 2, 2020, organised by Centre for Management Research (CMR) At DME Management School, Delhi.

2 Days Virtual Workshop on Confocal Microscopy and Image Processing on 17th & 18th September, 2020; Presented by: DST PURSE-II, University of Kalyani.

PROFESSIONAL SOFTWARE SKILLS

- **Statistical Analysis Software:** Student's t Test Software
- **Bioinformatics Tools:** Hex, Discovery Studio and Yasara Docking Software

COMPUTER SKILLS

- **MS Office:** Word, Excel and PowerPoint

LANGUAGES

- **English,** Hindi, Gujarati, Punjabi