

DR. SAHILA M.M.



Designation: Head of Department **Qualification:** MSc, MPhil,
Ph.D Email-ID: sahila.mm@siasindia.org

She is a post graduate in Bioinformatics from Bharathidasan University, Tiruchirapally and also done her Ph. D in Bioinformatics in the topic 'In-silico studies on GABA (A) inhibitors for schizophrenia' from Karpagam Academy of Higher Education, Coimbatore in the year 2018. Her teaching and research interests are in the area of Structural Bioinformatics, Computational Biology, Machine learning and Computer Aided Drug Design.

EDUCATIONAL QUALIFICATION

- **Ph.D:** Specialization in Bioinformatics, Karpagam Academy of Higher Education, Coimbatore, India.
- **M. Phil:** Specialization in Bioinformatics, Bharathidasan University, Trichy, India.
- **M.Sc.:** Specialization in Bioinformatics, Bharathidasan University, Trichy, India.
- **B.Sc.:** Specialization in Computer Science, Calicut University, India.
- **PG Diploma:** Post Graduate Diploma in Cheminformatics, Calicut University, India.

WORK EXPERIENCE

- **Asst. Professor** in the Department of Bioinformatics at SAFI Institute of Advanced Study from 1st June 2010 till date
- **Senior Research Fellow:** Bioinformatics Centre, Kerala Agricultural University, Thrissur, Kerala, India, November 2009- May 2010

AREA OF INTERESTS

- Structural Bioinformatics
- Cheminformatics and Drug Discovery
- Computational Biology
- Machine Learning

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Support Vector Machine

- Molecular Modeling
- Molecular Docking
- Sequence Analysis
- Phylogenetics

PUBLICATIONS

- P.T. Amrutha Vijay, M.M. Sahila, A.A. Mohammad Kunhi,(2020),Soil Bioaugmentation with *Pseudomonas aeruginosa* S-CSR-0013 Eliminates the Inhibitory Effect of Phenol on Germination of Chickpea (*Cicer arietinum*) Seeds; J. Environ. Sci. Pollut. Res. - Volume6 Issue 2 (2020) 420–425.
- Sahila M. M, Babitha PP, Srinivas Bandaru, Anuraj Nayarisseri, Doss VA, (2015), Molecular docking based screening of GABA (A) receptor inhibitors from plant derivatives; Bioinformation; 11(6). 280-289.Pubmed ID: 26229288.
 - Sahila M. M, Babitha PP, J. Anitha, Srinivas Bandaru, MukeshYadav, Anuraj Nayarisseri, Doss VA. Development of MLR and SVM aided QSAR models to identify common SAR of GABA uptake herbal inhibitors used in the treatment of Schizophrenia. Current Neuropharmacology. December 2016. Pubmed ID: 27919211.
- Babitha P. P, Sahila M. M, Srinivas Bandaru, Anuraj Nayarisseri, Sureshkumar S. (2015) Molecular Docking and Pharmacological Investigations of Rivastigmine-Fluoxetine and Coumarin–Tacrine hybrids against Acetyl Choline Esterase., Bioinformation 11(8): 378-386. Pubmed ID: 26420918.
- Babitha P. P, Sahila MM, Srinivas Bandaru, Anuraj Nayarisseri, Sureshkumar S. (2015) Common SAR derived from linear and non-linear QSAR studies on AChE inhibitors used in the treatment of Alzheimer’s disease. Accepted in Current Neuropharmacology. December 2016. Pubmed ID: 27964704.

CONSULTANCY

Invited Talks/Guest Lectures Delivered

- Bioinformatics : A Workshop to Faculty and Students of Biotechnology department of GEMS Arts and Science College (13-03-2022) • Invited Lecture on “Tools and Application of Bioinformatics” : Department of Biochemistry, Markaz Arts and Science College (11-02-2022)
- Bioinformatics: A workshop to Faculty and Students of Biochemistry and Microbiology departments of Pazhassiraja College (29-04-2021 & 30-04-2021)
- Bioinformatics: A national webinar to Faculty and Students of Microbiology department of Majlis Arts and Science College (26-04-2021)
- Talk on “Bioinformatics and Applications” : Department of Microbiology, Majlis Arts and Science College (10-02-2020)
- Talk on “Bioinformatics and Algorithms”: Department of Biotechnology , GEMS Arts and Science College (27-01-2020)

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- Practical Session on “Bioinformatics and its Tools” : Department of Microbiology, MAMO College (21-06-2019)
- Talk on “Application of Bioinformatics” : Department of Biotechnology, GEMS Arts and Science College (11-02-2019)
 - Practical Session on “Bioinformatics and its Tools” : Department of Microbiology and Biochemistry, Pazhassiraja College (9-10-2017)
 - Talk on “Bioinformatics” : Department of Microbiology , EMEA College of Arts and Science (28-07-2017)
 - Academic Lecture in Bioinformatics : Department of Microbiology, Majlis Arts and Science College (18-07-2016)
 - Lecture on “Sequence Analysis and Applications” : Department of Microbiology Markaz Arts and Science College (2-03-2016) • Talk on “Bioinformatics Applications and Tools” : Department of Microbiology, EMEA College of Arts and Science (30-07-2015)
 - A talk on “Bioinformatics” : Department of Microbiology , Majlis Arts and Science College (13-07-2015)
 - Lecture on “Bioinformatics Experiments” : Department of Microbiology, MAMO College (29 & 30-01-2015)
 - Lecture on “Bioinformatics” : Department of Biochemistry, Majlis Arts and Science College (12-08-2014)
 - Lecture on “Bioinformatics” :Department of Biotechnology, University of Calicut (2012 &2013)

WORKSHOPS/TRAINING ATTENDED

- Nurture Yourself with Yoga 2 Months Training programme organized by IQAC, Safi Institute of Advanced Study, Vazhayoor.
- Transformation Through NAAC Accreditation Process National Workshop organized by Institute of Academic Excellence, Hyderabad from 21-06-2021 to 22-06-2021.
- NPTEL Local chapter one day Training programme organized by SIAS Swayam NPTEL Local Chapter and IQAC, Safi Institute of Advanced Study, Vazhayoor on 18-06-2021.
- Enterprise Resource Planning one day Training programme organized by IQAC, Safi Institute of Advanced Study, Vazhayoor on 17-06-2021 .
- NPTEL-E-Awareness one day National Workshop organized by NPTEL & ASSAM University on 25-05-2021.
- Research Orientation programme organized by M.M. Institute of Computer Technology and Business Management, Maharishi Markandeshwar, Haryana, in association with Elsevier India and Rax labs Inc. USA from 26th to 31st October, 2020.
- Basic Statistical Tools in Research and Data Analysis one day National Workshop organized by Department of Statistics and Directorate of Research, Safi Institute of Advanced Study, Vazhayoor on 21-10-2020
- Utilisation of the Interactive Projector one day Training programme organized by IQAC, Safi Institute of Advanced Study, Vazhayoor on 23-03-2017.

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- Discover Yourself one day Workshop organized by IQAC, Safi Institute of Advanced Study, Vazhayoor on 21-11-2016.
BIOINFORMATICS TOOLS AND APPLICATIONS National Workshop organized by Department of Biotechnology Calicut University on 18th & 19th February 2015.

DISCOVER YOURSELF three day Workshop organized by Safi Institute of Advanced Study, Vazhayoor on 21-23 November 2014.

FACULTY DEVELOPMENT PROGRAMME ATTENDED

- Algorithm for Protein Modelling and Engineering organized by NPTEL-AICTE from July to October 2021(12 weeks).
- NAAC Accreditation Framework: An Overview in respect of New Guidelines organized by Sage University, Indore and Research Foundation of India from 17-08-2021 to 25-08-2021
- Prudent Teaching Dynamics organized by IQAC of SAFI Institute of Advanced Study from 21 -06-2021 to 28 -06-2021.
- Professional and Communicative English organized by Bharathiar University, Coimbatore from 16-06-2021 to 22-06-2021.
- Mending the Mentees, organized by Advisory Committee and IQAC, SAFI Institute of Advanced Study on 17 -05-2021.
- Challenges and Opportunities in Diverse Fields: Pre and Post Pandemic Era organized by Department of Biochemistry, Rayalaseema University, Kurnool, AP from 2-09-2020 to 6-09-2020.
- Technology Enabled teaching and learning organized by MES Kalladi on 1807-2020.
- Online faculty development programme for teachers organized by IQAC, Farook College from 17-07-2020 to 25-07-2020.

OTHER DUTIES (INTERNAL/ EXTERNAL)

- Senior Assistant Superintendent- University Examination (2011 onwards)
- Member-College Council (2010 onwards)
- Member- Science Club (2018 onwards)
- Member-Research Directorate (2017 onwards)
- Convener-Grievances Committee (2020-2021)
- Member- Open/ Audit Courses Committee (2021)
- Member-NAAC Steering Committee (2021)
- Convener-Institute Scholarship committee (2014-2018)
- Convener-Institute ID card committee (2014-2017)
- Additional Examiner for University of Calicut (2015 - 2022)
- External Practical Examiner for University of Calicut (2015)