

BIODATA

i) General Information

a) Name: Dr. M. M. Sudheer Mohammed

b) Address (Residential): 49-D , Sudharsanam House
Lakshmipuram,
Ganapathy
Coimbatore - 641006



Mobile No.:9443274469

c) Designation: Associate Professor

d) Department: DST-FIST Sponsored Department of Botany

e) Date of Birth: 02- 05 - 1972

f) Area of Specialization: Phytopharmaceutical technology

a) Academic Qualifications

Exam Passed	Subjects	Board/ University	Year	Division/ Grade/ Merit, etc.
High School	All subjects	Board of Public Examinations, Kerala	1987	First Class
Pre-degree	Biology, physics & chemistry	M G University, Kottayam.	1989	Second Class
Bachelor's Degree (s)	Botany Education	M G University, Kottayam.	1992	First Class
		M G University, Kottayam.	1995	First Class
Master's Degree (s)	Botany Bioinformatics	M G University, Kottayam. Bharathiar University, Coimbatore	1994	First Class

Research Degree (s) Ph. D	Biochemistry	M G University, Kottayam.	2001	Highly commented
SLET	Botany	Controller of Entrance Examinations, Kerala	2006	

ii) Research Experience & Training

Research Stage	Title of work / Thesis	University where the work was carried out
Ph. D.	STUDIES ON THE RELATION OF NICOTINE TO LUNG CANCER	M G University, Kottayam.
Publications	Separate List attached	
Research Guidance (give names of students guided successfully)	Separate List attached	
Training (please specify)	Separate List attached	

b) Research Projects carried out

S. No.	Title of the Project	Name of the Funding Agency	Duration	Remarks
1	“Studies on the Pathogenic Profile and Storage Management of Vegetables and Fruits in Shops for the Minimization of the Chemical Treatments”	UGC	2 Yrs	Completed

c) Seminars, Conferences, Symposia Workshops etc. attended: separate list attached

iii) Teaching Experience

Courses Taught	Name of the University / College / Institution	Duration
iv) UG (B.Sc.)	Government Arts College, Krishnagiri	02.11.1998 to 21.09.2001
v) PG (M.Sc.)	Government Arts College, Krishnagiri	02.11.1998 to 21.09.2001
iv) UG (B.Sc.)	Government Arts College, (Autonomous)	22.09.2001 – Till now
v) PG (M.Sc.)	Government Arts College, (Autonomous)	22.09.2001 – Till now

d) Total Teaching Experience (in years and months):

a) Under-graduate: 21 Years and 10 months

b) Post-graduate : 21 Years and 10 months

vi) Innovations/ Contributions in Teaching

- a) **Design of curriculum** : Designed syllabi for B.Sc. and M.Sc. Botany Courses.
- b) **Teaching methods** : Lecturing, , educational quiz, group discussions, seminars. Teaching through ICT, Field visits and training.
- c) **Laboratory experiments** : Experiments using Psychological tests and questionnaires.
- d) **Evaluation methods** : Tests, seminars, problem solving experiments, Paper presentation, Attentiveness of the student is

periodically watched, Problem solving exercises, Projects.

- e) **Preparation of resource material including books, reading materials, laboratory manuals etc.** : 1. Mainly prescribed text books
2. Consultation with senior professors
3. Journals and magazines
4. Internet, Magazines, News papers
- f) **Remedial Teaching/Student Counselling (academic)** : Special coaching classes, Identifying students' problems, helping them in solving problems, parental counseling

Any other : Regular search for the new editions of text books and reading current journals.

vii) Extension Work/ Community Service

g) Please give a short account of your contribution to:

Conducted Programs in Community work such as values of National integration, secularism, democracy, socialism, humanism, peace, scientific temper, drought relief in the adopted Tribal villages of Coimbatore District.

h) Positions held / leadership role played in organizations linked with Extension Work National Service Scheme (NSS): Progame Officer

i) Participation in Corporate Life:-

Please give a short account of your contribution to:

College/University/Institution : Helping the Principal, HOD in the admission processes for various classes, motivating the students to join the extracurricular activities.

- a) Co-curricular Activities : Medicinal plant gardening
- b) Enrichment of Campus Life : Helping/assisting the Principal, HOD, Colleagues and students to enrich the campus life.
- c) Students welfare and Discipline: Periodical counselling to the students,

their parents and family members

d) Membership/Participation in : Member- Syllabus framing, External and Internal examiner in Theory and Practical, Bodies/Committees on Doctoral Committee Member for Research Education and National Development

j) (a) Membership of Professional Bodies, Societies etc: IAAT.

(Signature of the Teacher)

PUBLICATIONS

Peer reviewed papers

1. Franklin Charles Jose, **Sudheer Mohammed**, George Thomas, George Varghese, N. Selvaraj and M. Dorai. **Genetic diversity and conservation of common bean (*Phaseolus vulgaris* L., Fabaceae) landraces in Nilgiris.** *Current science*, 97(2), 227-235(2009).
2. Franklin Charles Jose **M M Sudheer Mohammed**, R Sanil, R Dorai, MG Madanan, M. **Analysis of phaseolin and total storage protein-based diversity in common bean landraces of Nilgiri using SDS-PAGE.** *Indian Journal of Genetics and Plant Breeding*, 70 (1).34-38 (2010).
3. Selvaa C. Kumar, Nikhil Gadewal and **Sudheer M.M. Mohammed.** **Identification of Leads from Marine Seaweeds against Human β tubulin.** *Letters in Drug Design & Discovery*, **2013**, **10** (1). pp. 67-74.
4. K. Kalimuthu, R. Prabakaran, **M. M. Sudheer Mohammed** and V. Chinnadurai. Phytochemical, anatomical and nutritional analysis of in vivo and in vitro plants of *Ceropegia pusilla* Wight & Arn. *International Journal of Medicinal Plants*. Photon (2014); 106; 430-438.
5. Pravin Kumar, R., Roopa, L., Sudheer Mohammed, M.M. and Kulkarni, N. (2016). Azadirachtin(A) distinctively modulates subdomain 2 of actin - novel mechanism to induce depolymerization revealed by molecular dynamics study. *J Biomol Struct Dyn*. Vol. 34(12): pp. 2698-2710.
6. Pravin Kumar, R., Roopa, L., Nongthomba, U., Sudheer Mohammed, M.M. and Kulkarni, N. (2016). Docking, molecular dynamics and QM/MM studies to delineate the mode of binding of Cucurbitacin E to F-actin. *J Mol Graph Model*. Vol. 63: pp. 29-37.
7. Lalitha, R., Pravin Kumar, R., Sudheer Mohammed, M.M. (2016). Molecular Dynamics Simulation Reveal the Mechanism of Resistance of Mutant Actins to Latrunculin A – Insight into Specific Modifications to Design Novel Drugs to Overcome Resistance. *Current Computer-Aided Drug Design*. Vol. 12(2): pp. 107-118.
8. Roopa, L., Pravin Kumar, R. and Sudheer Mohammed, M.M. (2016). Molecular dynamics and high throughput binding free energy calculation of

anti-actin anticancer drugs—New insights for better design. Computational biology and chemistry. Vol. 64: pp. 47-55.

9. Samynathan, M., Ebanasar, J. and Sudheer Mohammed, M. M. (2017). New record of the earthworm species *Allolobophora chlorotica* (Savigny, 1826) green morph in the Nilgiri biosphere reserve of peninsular India. *International Journal of Current Research*. Vol. 9(03): pp. 48542-48544.
10. Preetha, J., Sudheer Mohamed, M. M., Mohan, A., Thulasibabu, R. and Rajani Gopal Gad (2015). Essence of Inhibitor Design Unveiled: Real Time Structural Analysis of Epidermal Growth Factor Surface Receptors in Pancreatic Cancer Drug Discovery – Incubation Science in Therapeutics?. *Int. J. Pharm. Life Sci.*, 6(8-9):4681-4685.
11. Ashokkumar, V; Salam, Z; Tiwari, O.N; Senthil Chinnasamy, **Sudheer Mohammed** and Ani. F N. An integrated approach for biodiesel and bioethanol production from *Scenedesmus bijugatus* cultivated in a vertical tubular photobioreactor *Energy Conversion and Management* 101 (2015) 778–786.
12. Vanitha A, Renganayagi R, Prabakaran R and **Sudheer Mohammed M M**. Pharmacognostic studies on *Trichodesma indicum* linn. (boraginaceae) an ethnobotanically important herb from tropics. *Pharmacie Globale (IJCP)* 2015, 01 (04)
13. Preetha, J. and **Sudheer Mohammed, M. M** (2018). “Identification of natural product leads against life style induced pancreatic ductal adenocarcinoma” *International Journal of Current Research in Life Sciences*, 7, (01), PP. 785 - 787.
14. Selvaakumar Chellasamy and Sudheer M. M. Mohammed (2013). An in silico based understanding of drug resistance and residual deletion in tubulin protein from sequential and structural perspective. *Res. J. Biotech* Vol. **8 (8)** August (2013)
15. Selvaakumar Chellasamy and Sudheer M. M. Mohammed.(2013). An *In silico* Based Comparison of Drug Interactions in Wild and Mutant Human β -tubulin through Docking Studies. *Avicenna J Med Biotech* 2014; 6(2): 81-93.

Protein Structure Model Submission

16.Selvaakumar Chellasamy and **Sudheer M M Mohammed. PMDB identifier, PM0078214** - Tubulin alpha-1A chain. Released in: 2012-08-05.

17.Selvaakumar Chellasamy and **Sudheer M M Mohammed. PMDB identifier, PM0078206** - Tubulin beta class 1. Released in: 2012-11-01.

Research Guidance

Course	On going	Completed
M.Phil.	1	9
Ph.D.	6	7

Administrative Responsibility

- Coordinator, National Assessment and Accreditation Council (NAAC) Task force for IVth cycle reaccreditation, GAC, Coimbatore.
- Escorting NAAC peer team to Adopted Villages to monitor Development Programmes.
- Sensitizing students on Quality Assurance and discipline
- Programme Officer, National Service Scheme
- Conducting Special Camps for improving student-society interactions
- Organizing Individual Development Programs to the students

Professional Training

- • FOUR week orientation course for college and University teachers
FOUR week orientation course for college and University teachers conducted by Academic Staff College, Pondicherry University under the Academic Staff Orientation Scheme of University Grants Commission (UGC), New Delhi, India (2000).
- Twenty one days Refresher Course in Bioinformatics conducted by UGC-ASC, Bharathiar University, Coimbatore, India (2004).
- University Grants Commission (UGC), New Delhi sponsored Refresher Course in Life Science of twenty one days duration held at by Academic Staff College, University of Madras, Chennai(2009).

Advanced Training

- **“Open Source Software on Molecular Modeling and Docking Analysis”** held at GRD College of Arts and Sciences, Coimbatore, from 8th to 9th September, 2008.
- **“Tools in Biosequence Analysis and Drug Designing”** held at KG College of Arts and Sciences, Coimbatore, from 7th to 8th August, 2008.
- **“Advanced topics in protein – ligand interactions Using Autodock & Suite”** held at GRD College of Arts and Sciences, Coimbatore from 10th to 11th September, 2007.
- **“Perspectives of Biodiversity Conservation: Status of species richness in Protected Areas”** held at Kongunadu Arts and Science college, Coimbatore from 8th to 9th February, 2007.
- **“Generation and Purification of Polyclonal and Monoclonal Antibodies for the Diagnosis of Infectious Diseases”** held at PSG College of Arts and Sciences (Autonomous) Coimbatore from 3rd to 7th October, 2005.
- **“Database and its applications in Agriculture”** held at the Department of Plant molecular biology, TNAU, Coimbatore from 26th to 27th September 2005.
- **“Remote sensing, Geographic Information System and their Applications”** held at Govt. Arts College (Autonomous), Coimbatore, from 27th to 29th January 2005
- **“Bioinformatics for Biologists”** held at GRD College of Arts and Sciences, Coimbatore from 23rd to 1st February, 2003.