




CURRICULUM VITAE

Dr. PRASOBH K MOHAN, MSc., PhD
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PERSONAL DETAILS

Name : PRASOBH KUNNEL MOHAN
Nationality : Indian
Date of Birth : 25-July-1994
Marital Status : Single

EDUCATIONAL QUALIFICATIONS

Year	Course	University/Board	% of Marks
2018-2024	Ph.D. in Botany	Bharathidasan University, Tamil Nadu, India	Highly Commended
2016-2018	M.Sc. in Botany	Bharathidasan University, Tamil Nadu, India	75%
2012-2015	B.Sc. in Botany	Mahathma Gandhi University, Kerala, India.	74%

PhD Title :-

"Isolation and Characterization of Phytoconstituent and Green Synthesis of Silver Nanoparticles from *Pleurolobus gangeticus* (L.) J. St.- Hil. ex H. Ohashi & K. Ohashi and their Anti-urolithiatic Activity"

TECHNICAL EXPERTISE

1. Extraction and isolation of bioactive various classes of phytochemicals from medicinal plants.
2. Physico-chemical and pharmacognostical profiling of medicinal plants and crude herbal drugs.
3. Taxonomical and molecular authentication of medicinal plants.
4. Evaluation of antiurolithiatic potential of herbal extracts and bioactive molecules.
5. Evaluation of antimicrobial and antioxidant potential of herbal products
6. Computational studies of secondary metabolites against various diseases.
7. *In vivo* animal modelling for antiurolithiatic studies
8. Synthesis of green nano materials and evaluation of their biological applications

INSTRUMENTS EXPERTISED

1. FTIR Spectroscopy (PerkinElmer Spectrum 400)
2. HPLC (Waters)
3. HPTLC (Camag, Switzerland)
4. GC-MS (Shimadzu Corp., Kyoto, Japan)
5. UV-Visible Spectroscopy (Jasco)

GENE SEQUENCE DEPOSITED

1. Mohan, P.K. and Kumari, B.D.R. *Pleurolobus gangeticus* rbcL sequence. Accession No. MW021162. Submitted To NCBI, USA 2021

RESEARCH DETAILS

Total Publications: 09	Research Papers: 08	Book Chapters: -	Review Papers: 01
Total Citation: 63	Cumulative IF: 19.5	h-index: 05	i10-index: 02 -
*Corresponding author: 03	First author: 04	Paper Reviewed: 12	Avg. Impact Factor: 2.16

RESEARCH PUBLICATIONS

1. Mohan, P. K*, Krishna, T. A., Stephy, P. P., Thirumurugan, A., Kumar, T. S., & Kumari, B. R. (2023). Nano-engineered silver rods from *Pleurolobus gangeticus* root extract and their antilithiatic and cytoprotective role on oxalate injured renal epithelial cells. *Biocatalysis and Agricultural Biotechnology*, 52, 102837. DOI: <https://doi.org/10.1016/j.bcab.2023.102837>. (IF-3.4).

2. **Mohan, P. K***, Krishna, T. A., Thirumurugan, A., Kumar, T. S., & Kumari, B. R. (2022). Chemical profiling and in vitro antiurolithiatic activity of *pleurolobus gangeticus* (L.) J. St.-Hil. ex H. Ohashi & K. Ohashi along with its antioxidant and antibacterial properties. **Applied Biochemistry and Biotechnology**, 194(11), 5037-5059. DOI: <https://link.springer.com/article/10.1007/s12010-022-04017-0>. (IF-3.1).
3. **Mohan, P. K***, Adarsh Krishna, T. P., Senthil Kumar, T., & Ranjitha Kumari, B. D. (2021). Pharmacochanical profiling of *Desmodium gangeticum* (L.) DC. with special reference to soil chemistry. **Future Journal of Pharmaceutical Sciences**, 7, 1-11. DOI: <https://link.springer.com/article/10.1186/s43094-021-00356-7>. (IF-3.4).
4. **Mohan, P. K.**, Moola, A. K., Kumar, T. S., & Kumari, B. D. (2020). A comprehensive review of the phytochemical and pharmacological properties of *Desmodium gangeticum* (L.) DC. **Journal of Advanced Scientific Research**, 11.
5. Aravinth, A., **Mohan, P. K.**, Perumal, P., Dhanasundaram, S., Kamaraj, C., & Rajaram, R. (2024). Phyto-fabrication of brown seaweed *Dictyota ciliolata* extract towards silver nanoparticles synthesis and evaluation of mosquito-larvicidal potential of the synthesized AgNPs. **Journal of Applied Phycology**, 1-13. DOI: <https://doi.org/10.1007/s10811-024-03206-0>. (IF-2.8).
- 6.. Ayyadurai, T., Moola, A. K., **Mohan, P. K.**, Thiruppathi, S. K., Shanmugam, A., & Bollipo Diana, R. K. (2022). Ameliorative effects of *Guilandina bonduc* L. aqueous seed extract on letrozole induced polycystic ovary syndrome in female wistar albino rats. **Advances in Traditional Medicine**, 22(4), 885-903. DOI: <https://link.springer.com/article/10.1007/s13596-022-00652-4>. (IF-1.8).
7. Meenaloshini, P., Thirumurugan, A., **Mohan, P. K.**, & Kumar, T. S. (2024). In vitro Anticancer Efficacy of Hydroalcoholic Extract from *Crateva religiosa* G. Forst. Bark on Human Ovarian Cancer Cells. **Journal of Herbal Medicine**, 100870. DOI: <https://doi.org/10.1016/j.hermed.2024.100870>. (IF-2.2).
8. Moola, A. K., Ayyadurai, T., Balasubramani, S., Vignesh, R., **Mohan, P. K.**, Sathish, S., & Diana, R. K. B. (2023). Chemical composition and larvicidal activity against *Aedes aegypti* larvae from *Hyptis suaveolens* (L.) Poit essential oil. **Journal of Natural Pesticide Research**, 3, 100018. DOI: <https://doi.org/10.1016/j.napere.2022.100018>.
9. Aravinth, A., **Mohan, P. K.**, Narayanan, M., Perumal, P., Dhanasundaram, S., Ramkumar, R., & Rajaram, R. (2025). Eco-friendly synthesis of silver nanoparticles from the red seaweed *Gelidiella acerosa* and their impact on larvae of *Anopheles stephensi*, *Aedes aegypti*, and *Culex quinquefasciatus*. **Journal of Applied Phycology**, 1-13. DOI: <https://doi.org/10.1007/s10811-025-03494-0>. (IF-2.8).

WORK IN PROGRESS (UNDER CONSIDERATIONS):

1. **Mohan, P. K***, Vignesh, K., Stephy, P. P., Thirumurugan, A., Krishna, T. A., Kumari, B. R., Raj, C.T.D., Kandaswamy, S. Evaluation of the in vivo anti-urolithiatic potential of stigmasterol: A potent phytosterol isolated from *Pleurolobus gangeticus*. *European Urology* (Submitted to journal – January 2025).
2. **Mohan, P. K***, Krishna, T. A., Stephy, P. P., Ceasar, A. S., Krishna, T. A., Aravinth, A., Abdurahman, H.H., Vinayagam, R. Anti-urolithiatic potential of ethanolic extracts and pharmacoinformatic profile of pterocarpan from *Pleurolobus gangeticus* against calcium-sensing receptor (5FBK) and oxalate oxidase (2ETE) targets. *Open Chemistry*– (Under review – January 2025). (Manuscript ID: OPENCHEM-D-25-00006).
3. **Mohan, P. K***, Krishna, T. A., Stephy, P. P., Krishna, T. A., Thirumurugan, A., & Kumari, B. R. Stigmasterol a potent anti-urolithiatic agent isolated from *Pleurolobus gangeticus* (L.) J. St.- Hil. ex H. Ohashi & K. Ohashi and their computational studies. *Chemical Papers* (Under review – July 2024). (Manuscript ID: CHPA-D-24-01980).
4. Stephy, P. P., **Mohan, P. K.**, Krishna, T. A., Krishna, T. A., Kumar, S., Walter, C., & Raj, S. S. Pharmacognostical studies on *Tetrastigma leucostaphylum* (Dennst.) Alston ex Mabb. with special reference to soil chemistry. *Vegetos* (Under review – August 2024). (Manuscript ID: VTOS-D-24-00563).

PAPER/POSTER PRESENTATIONS

1. **Prasobh K Mohan**, T. Senthil Kumar and B. D. Ranjitha Kumari. “In vitro antiurolithiatic activity of root extract of *Pleurolobus gangeticus* (L.) J. St.-Hil. ex H. Ohashi & K. Ohashi”. 45th All India Botanical Conference of the Indian Botanical Society on “Climate Change: Biodiversity, Adaptation and Mitigation” at University of Lucknow, Lucknow, Uttar Pradesh during 14th October, 2022 to 16th October, 2022
2. **Prasobh K Mohan**, T. Senthil Kumar and B. D. Ranjitha Kumari “Green synthesis of silver nanoparticles from *Pleurolobus gangeticus* root extract and their antiurolithiatic and cytoprotective role on oxalate injured renal epithelial cells”. 33rd IAAT Annual Conference of Indian Association of Angiosperm Taxonomy and International Symposium on “Advances in Plant Systematics, Biogeography and Biodiversity Conservation” at University of Calcutta, Kolkata -700 019, West Bengal during 25th to 27th

November 2022.

3. **Prasobh K Mohan.** "Pharmaco-chemical profiling of *Desmodium gangeticum* (L.) DC. An important medicinal plant". International Conference on "Microbial Diversity, Conservation and Bioprospecting" held at Thanthai Hans Roever College (Autonomous), Perambalur, Tamil Nadu, on 12th & 13th December, 2024.

SUPERVISION EXPERIENCE

MSc. THESIS GUIDED

1. Delviya P V, Phytochemical profiling and evaluation of anti-oxidant, anti-bacterial and anti-urolithiatic properties of *Ruellia tuberosa* L.. Submitted to the University of Calicut, Kerala.
2. Heuma Sasikumar K, Phytochemical screening and evaluation of anti-oxidant, anti-bacterial and anti-urolithiatic properties of *Sargassum wightii* Greville ex J. Agardh. Submitted to the University of Calicut, Kerala.

BSc. THESIS GUIDED

1. Adheena Arundhati M. S, Aleeja C. J, Ananya Shyjan, Anne Mariya Roy, Archana K. P, Pharmacognostical & anti - bacterial evaluation of *Simarouba glauca* DC. - an important medicinal plant. Submitted to the University of Calicut, Kerala.

TEACHING EXPERIENCE

1. Guest Lecturer (On Gov. Contract) at St. Thomas College (Autonomous), Thrissur, Kerala (2024-2025)

RESOURCE PERSON IN VARIOUS CAPACITIES

1. Delivered an **Invited Talk** on "Natural products in drug discovery: Advances and opportunities" in the International Conference on "Microbial Diversity, Conservation and Bioprospecting" held at Thanthai Hans Roever College (Autonomous), Perambalur, Tamil Nadu, on 12th & 13th December, 2024.)
2. Delivered an **Invited Talk** on "Botanical Survey of India: A brief info and their impact on modern research" in the "Plant Taxonomia: Two day National level hands-on training in plant taxonomy" held at St. Thomas College (Autonomous), Thrissur, Kerala, on 22nd & 23rd November, 2024.)

CERTIFICATIONS & TRAINING

1. Participated in the national conference on 'Emerging Trends in Plant Science for Sustainable Development' sponsored by UGC-SAP (DRS-II) organized by the Dept. of Botany, Bharathidasan University, Tamil Nadu, India - 2022.
2. Participated in the national seminar on 'Science and Society - Challenges in Biotechnology' organized by the Dept. of Botany, Bharathidasan University, Tamil Nadu, India - 2019.
3. Participated in the one-day national workshop on Terrace Gardening sponsored by RUSA 2.0 held at Dept. of Botany, Bharathidasan University, Tamil Nadu, India - 2022.
4. Participated in the 45th All India Botanical Conference of the Indian Botanical Society on "Climate Change: Biodiversity, Adaptation and Mitigation" at University of Lucknow, Lucknow, Uttar Pradesh during 14th October, 2022 to 16th October, 2022.
5. Participated in the 33rd IAAT Annual Conference of Indian Association of Angiosperm Taxonomy and International Symposium on "Advances in Plant Systematics, Biogeography and Biodiversity Conservation" at University of Calcutta, Kolkata -700 019, West Bengal during 25th to 27th November 2022.

ADDITIONAL POSITIONS

No	Position/Designation	Journal Name and Publisher
1.	Reviewer	Vegetos / Springer Publication
2.	Reviewer	Royal Society of Chemistry (RSC)
3.	Reviewer	Scientific Reports / Springer Publication
4.	Reviewer	Plant Foods for Human Nutrition / Springer Publication
5.	Reviewer	In Silico Pharmacology / Springer Publication
6.	Reviewer	Cell Biochemistry and Biophysics / Springer Publication

REFERENCES

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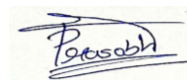
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DECLARATION

I am also confident of my ability to work in a team. I hereby declare that the information furnished above is true to the best of my knowledge.

Place: Tiruchirappalli

Date:



PRASOBH K MOHAN