

BIODATA (Dr.Rathy M.C.)

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Previous employment:

(2006 - 2008)

PGT in BIOLOGY, SIR SYED ENGLISH SCHOOL, Pavaratty, Thrissur

(2009-2011)

Lecturer in Environmental Science, CHRIST COLLEGE, Irinjalakuda, Thrissur

Educational qualifications:

Master of Environment Management (Mahatma Gandhi University)

Mphil in Environment Management (Mahatma Gandhi University)

Ph.D. in Environmental Sciences (Calicut University)

NET in Environmental science

Specialization:

Environmental science, Toxicology, Environmental pollution

Research Guidance:

M. Sc. Dissertations - one

Professional Qualifications:

Computer Skills- Windows and M.S.Office, G-tec Computer Education

Awards:

Environment and Climate Change Research Fellowship Programme, 2013-2016 (PARISTITHIPOSHINI) award of Fellowship.

Training programmes/ Seminars attended:

- 1 Training Programme in Chromatographic techniques at the Central Instrumentation Unit of KFRI during February 29 – March 04, 2016.

Conferences attended:

Regional

- Seminar on Natural Disaster Management with special reference to earthquakes jointly organized by School of Environmental sciences, CESS and Institute of Land Management, TVM-2001 at Kottayam.
- The regional seminar on Ramsar Sites of Kerala held at CWRDM campus, Kunnamangalam, Kozhikode-673571 on 21-02-2003.
- 26th Kerala ScienceCongress held at KVASU,Pookode Kerala, 28-31 January, 2014

National

- National Seminar on Remote sensing and Geographical Information System in natural resource management-current status and emerging trends,15-17, March 2003.Organisedby School Of Environmental Sciences,Mahatma Gandhi University,Kottayam.
- National space Science Symposium NSSS-2004,17-20 February 2004 sponsored by ISRO Bangalore in association with Astronomical Society of India, Organised by School Of Environmental Sciences,Mahatma Gandhi University,Kottayam.
- National Seminar on Hortus Malabaricus held at the Department of Botany,University of Calicut on 17th February 2012.
- National Seminar on Life Style and Diseases organized by School of Biosciences, Mahatma Gandhi University, Kottayam.on 19-20,2012
- National Seminar on Sustainable development: Recent trends in meeting the challenges20-21,January 2012.Organised by School Of

Environmental Sciences, Mahatma Gandhi University, Kottayam. in association with Directorate of Environment and Climate Change, Govt of Kerala.

International

- The 6th International Symposium on the family Zingiberaceae from 10-13 September 2012 held at the Department of Botany, University of Calicut, Kerala, and India. Organised by Department of Botany, University of Calicut and Indian Association for Angiosperm Taxonomy.

Paper presented:

Regional

- Has presented paper Secondary metabolites of *Spilanthus calva* and their effect on mosquito larvae in the 17th Kerala Science Congress held at KFRI, Peechi, Kerala, 29-31 January, 2005.
- Presented a paper Larvicidal activity of Crude Aqueous Extracts of *Adenocalymma alliaceum* against mosquito larvae (ISBN 978-81-928129-1-5) in the 23rd Swedish Science congress, 6-8 November 2013 organised by Swedish movement Kerala and Mahatma Gandhi University, Kottayam

National

- Studies on the effect of crude plant extracts on the control of Mosquito Vectors, at School of Environmental Sciences, Mahatma Gandhi University, Kottayam. National Conference on Conservation and Management of Wetland Ecosystems, 06-08 Nov 2012.
- A study on the Effect of Plant Secondary metabolites in the Control of mosquito vectors (ISBN-978-93-80095-47-9). National Symposium on Emerging Trends in Biotechnology 2014 organised by Dept of Biotechnology CUSAT, 22-23 January 2014.
- Phyto diversity for mosquito control, National Seminar on Socio-Economic Root Causes of Biodiversity Loss organized by Dept. of Botany S.N. College, Kannur, Kerala. 24-25 January 2014.
- Seasonal changes in the diversity pattern of Mosquito vectors from Ponnani municipal area of Malappuram district, Kerala. National Seminar on Lakes, Rivers and Wetland Ecosystems-A Climate change Perspective, 19-21 March 2014
- Larvicidal Activity of certain medicinal plant extracts in controlling mosquito vectors, UGC sponsored National Seminar on Environmental Impact Assessment to be held in Newman College, Thodupuzha on November, 27-28, 2014.
- Studies on Phytochemicals as potential and sustainable sources of larvicidal formulations for the control of mosquito vectors” The Third Indian Biodiversity Congress, at SRM University, Chennai during 18-20 December 2014

International

- Studies on the effect of plant Aqueous Extracts on the control of Mosquito vectors. International Conference on Ecosystem Conservation, Climate Change and Sustainable Development, Organised by Dept. Aquatic Biology and Fisheries, University of Kerala, 3-5 October 2013.

Extension/Research projects undertaken:

1. A study on the plant extract on the control of mosquitoes.
2. Secondary metabolites of *Spilanthus calva* and their effect on mosquito larvae.
3. Undertook the vegetational analysis of the Vagamon Hills, Western Ghats, and analyzed the riverine vegetation of the upper catchment area of Meenachil River.
4. Undertook a field study to Parambikulam Wild life Sanctuary and practiced various techniques applied in vegetation as well as birds sampling.
5. Undertook the Water Quality analysis and monitoring & Socio-economic aspects of Meenachil River.
6. A study conducted on Butterflies of the University campus of Mahatma Gandhi University, Kottayam.

7. Conducted an Environmental Audit Report (2015-2016) for Internal Quality Assurance Cell, University of Calicut

Book chapters contributed:

- Rathy, M.C., Sajith, U. and Harilal, C. C. (2014) A study on the Effect of Plant Secondary metabolites in the Control of mosquito vectors. National Symposium on Emerging Trends in Biotechnology 2014 organized by Dept of Biotechnology CUSAT, 22-23 January 2014. (ISBN-978-93-80095-47-9).
- Rathy, M.C., Sajith, U. and Harilal, C. C. (2013) Larvicidal activity of Crude aqueous extracts of Adenocalymmaalliaceum against mosquito larvae. 23rd Swadeshi Science congress 6th – 8th November 2013 organized by Swadeshi movement Kerala and MG university Kottayam. (ISBN 978-81-928129-1-5).

Journals:

- Rathy.M.C. Sajith, U .and Harilal, C.C. (2012). Impact of selected plants on the control of mosquito vectors.ECO-CHRONICLE.7 (1).
- Rathy, M.C., Sajith, U. and Harilal, C.C. (2014). Studies on the effect of Plant Aqueous Extracts on the Control of Mosquito Vectors. Journal of Aquatic Biology and Fisheries Vol. 2, pp. 539 to 543.
- Rathy, M.C., Sajith, U. and Harilal, C.C. (2015) Plant diversity for mosquito control: A Preliminary Study. Journal of Mosquito Research, Vol 2(1) pp 29-33.
- Rathy, M.C., Annie Mathai., Usha K. Aravind and Thomas,A. P. (2015) Mosquito Larvicidal activity of indigenous plant extracts against Culex quinquefasciatus (Diptera: Culicidae) International Journal of Current Research Vol 7(6) pp 16768-16772.
- Rathy, M.C., Usha K. Aravind and Thomas, A. P. and Annie Mathai. (2015) Secondary metabolites of Spilanthes calva and their effect on mosquito larvae. International Journal of Current Research Vol 7(7) pp 17702-17705.
- Rathy, M.C., Sajith, U. and Harilal, C.C. (2015) Larvicidal efficacy of medicinal plant extracts against the vector mosquito Aedes albopictus Journal of Mosquito Research, Vol 2(2) pp 80-82.
- Sajith, U., Rathy, M.C., and Harilal, C.C. (2015) Diversity assessment of mosquitoes with reference to the occurrence of vector-borne diseases in Thalassery Municipal area of Malabar coast, Kerala, India, International Journal of Development Research Vol. 5(6), pp. 4592-4594.
- Sajith, U., Rathy, M.C., and Harilal, C.C. (2015) Assessment of Mosquito Vector Diversity across Habitats in the Ponnani Municipal area, Kerala, India. International Journal of Biological & Medical Research 6(2):4879-4882
- Rathy, M.C., Sajith, U. and Harilal, C.C. (2015) Efficacy of Phytochemicals as Sustainable Sources of Larvicidal Formulations for the Control of Culex sitiens. International Research Journal of Environment Sciences, Vol 4(10) pp 16-21.
- Sajith, U., Rathy, M.C., and Harilal, C.C. (2016) Habitat characterization and diversity assessment of mosquitoes from selected coastal districts of Kerala, India. Recent Research in Science and Technology, 8(1): 1-5
- Rathy, M.C., Annie Mathai., Usha K. Aravind and Thomas,A. P. (2010) Mosquito Larvicidal activity of indigenous plant extracts against Aedes albopictus (Diptera: Culicidae). Journal of the American Mosquito Control Association 7: 68-72.
- Rathy, M.C., Usha K. Aravind and Thomas, A. P. and Annie Mathai. (2012) Secondary metabolites of Adenocalymmaalliaceum and their effect on Aedes mosquito larvae. Journal of Mosquito Research 5:43-45.