



SCOTT CHRISTIAN COLLEGE (Autonomous), Nagercoil.

Department of Chemistry and Research Centre



Name : Dr. R. Ragel Mabel Saroja

Designation : Head, Associate Professor

Qualification : M.Sc, M.Phil, Ph.D

Date of Birth : 30/07/1965

Gender : Female

Date of Appointment : 24/01/1997

Mobile Number : 9442303508

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Approved Guide by : Manonmanium Sundaranar University, Tirunelveli.

Ongoing Research Scholars:

S.No	Name	Title	Reg No	Full time / Part time
1	M.ShirleyNavis	Study on the activity concentration of natural radionuclides and trace metals in selected medicinal plants of Kanyakumari District	18223162032043 05-07-2018	Full Time
2	J.AnushaRajalin	Comparitive study of Natural Radioactivity in the coastal sediments of Kanyakumari District.	1913162032008 22-07-2019	Full Time
3	S. Benila	Phytochemical screening and Pharmacognestic study of Costuslgneus	1921316202009 23-07-2019	Full Time
4	M. Vini	Measurement and Accumulation of Radionuclide from soil to plants, Animals and Humanbeings	20113162032011 11-03-2020	Full Time



SCOTT CHRISTIAN COLLEGE (Autonomous), Nagercoil.

Department of Chemistry and Research Centre

5	S.MugilaSinduja	Biosynthesis of Silver Nanoparticles using AzadirachtaIndica extract and their antibacterial activity.	21113162032012 18-10-2021	Full Time
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List of Publications:

1. Benila.S and **R. Ragel Mabel Saroja**, R Studies on the isolation, identification and characterization of bioactive compound from *Costuslgneus* leaf extracts. *Eur. Chem. Bull* 2023 (Special Issue) 198-209
2. M. Shirley Navis, **R. Ragel Mabel Saroja**, and JammerAhamed Investigation on In-Vitro and In – silico anti- Diabetic potential of Diethylphthalate and nanoparticles (Silver & Gold) with Diethyl phthalate. *Eur. Chem. Bull* 2023,12(10), 1/893 – 11909
3. M. Shirley Navis, **R. Ragel Mabel Saroja**, studies on the investigation of Anti- Oxidant and cellular Toxicity on L929 cell Line of *Andrographispaniculata* and its Derivative of silver and Gold Nanoparticles. *Biological Forum – An International Journal* 2023 15(4) 590-597.
4. Benila. S and **R. Ragel Mabel Saroja**, “In vitro antibacterial activity evaluation of *Moringaolefera* (Lam.) leaf extracts”. *International Journal of Botany*, 56-59,6,
5. **R. Ragel Mabel Saroja**, A. Sreedevi and A. Aby Regieson Sylum, “Distribution and Enrichment of Radionuclides in the Southwest Coast of India. *International Journal of Research and analytical Review*, 2019,5, 961-967.
6. **R. Ragel Mabel Saroja**, and A. Sreedevi, “Thorium and Uranium in vegetables and fruits from a high background radiation region-along the south west coast of India” article, *World Journal of Pharmaceutical Science*, 2019, 5, 23-29.
7. **R. Ragel Mabel Saroja**, and A. Sreedevi, Evaluation of Phytochemical and Antimicrobial activities of *HybanthusEnneaspermus*”, *Journal of Basic and Applied Biology*, 2016, 1, 31-32.



SCOTT CHRISTIAN COLLEGE (Autonomous), Nagercoil.

Department of Chemistry and Research Centre

8. **R.Ragel Mabel Saroja**, and D. Vetha Roy, Evaluation of Radionuclides in Terrestrial Ecosystem in the vicinity of Western Ghats in India”, *Journal of Basic and Applied Biology*, 2008, 22.

9. **R.Ragel Mabel Saroja**, and D. Vetha Roy, “High background radiation sweeping along the southwest coast of Tamil Nadu, India”, article *Current Science*, 2008, 94. 1250.

10. **R.Ragel Mabel Saroja**, and D. Vetha Roy, “A Study on the Distribution Pattern of Radioactivity in the Heavy Minerals Suits of A High Background Radiation Area Along the South West Coast of India”, article *Indian Journal of Geochemistry*, 2007, 22, 431-439.

Conference Proceedings

1. Biosynthesis and characterization of Silver nanoparticles from *Azadirachta Indica* and their diabetic activity. Conference Proceedings. International conference on Biomaterials, Biodegradables and Biomimetics, Jan 2024

2. Synthesis and characterization of Silver nanoparticles from neem (*Azadirachta Indica*). Conference Proceedings. National conference on Biomaterials, Jan 2023.

3. Radiometric, Phytochemical and Microbial analysis of Seaweeds. Online International Conference on Innovation Research in Chemical science, Dec 2021.

4. Extraction of Essential Oil from Culantro Plant and their Characteristic Study. Online International Conference on Innovation Research in Chemical science, Dec 2021.

5. Studies on the Isolation, Identification and Antibacterial Activity of Bioactive compound from *Andrographis paniculata* Leaf Extract. *Annals of R.S.C.B* 1583-6258, 26, (1) 2002.

6. “Estimation of Radiation at sand of Kanyakumari District”, conference proceedings, International conference on innovative research in Chemical Science, Vol 1, 2019



SCOTT CHRISTIAN COLLEGE (Autonomous), Nagercoil.

Department of Chemistry and Research Centre

7. "Determination of Physicochemical Parameters of selected medicinal plants in Kanyakumari District", conference proceedings, International Conference on innovative research in Chemical Science, Vol 1, 2019.
8. "Measurement of Natural Radioactivity of selected coastal sands in the south coast sands in the south west coast of India" article, International Conference on innovative research in Chemical Science, Vol 1, 2019.
9. "Comparative study of Natural Radioactivity in Coastal sands of Selected Areas in Kanyakumari District" article, National Seminar on Modern Trends in Chemical Sciences, Vol 1, 2019.
10. "Pharmacognostic and antimicrobial study of Hybanthes enneaspermus", conference proceedings, National Conference on Recent Trends in Chemistry, Vol 1, 2016.
11. "Antimicrobial efficacy of a traditionally important medicinal plant Cymbopogon Citratus", conference proceedings, National Conference on Resent Trends in Chemistry, Vol 1, 2016.
12. Phytochemical study of Hybanthus Ennespermus", conference proceedings, National Seminar on Innovations in chemical and Nuclear Technology, Vol 1, 2015.
13. "Studies on the Distribution of Polonium Peroxide and Fatty acid content in selected Fin Fishes of Kanyakumari Coast", conference proceedings, National Seminar on Innovations in Chemical and Nuclear Technology, Vol 01, 2015.
14. "Assessment of Indoor Radiation Dose Received by the residents of Natural High Background Radiation Areas of Coastal villages of Kanyakumari District, Tamil Nadu, India", article, Green Chemistry & Technology Letters, Vol 01, 2015.
15. "Nuclear Energy – A Source of Suitable and Reliable Energy", conference proceedings, National seminar on non-conventional sources of Energy and Envirocare, Vol 1, 2019.



SCOTT CHRISTIAN COLLEGE (Autonomous), Nagercoil.

Department of Chemistry and Research Centre

16. "Novel Application of Coir-Geo textiles", conference proceedings Kanyakumari Academy of Arts and Science, Vol 1, 2004.

Project Details:

"Study of the Natural Radioactivity In The Soil And Vegetation Of Manavalakurichi", UGC Minor Project, Grant No: MRP- 934/06(UGC-SERO).

Seminar/Conference Organized:

S.No	Title	Seminar/ Conference	State level/ National/ International
1	National Seminar on Modern Trends in Chemical Sciences	Seminar 19-03-2019	National
2	International Conference on innovative research in Chemical Science.	Conference 16-12-2019	International
3	International Conference on Modern Research, Multimedia University Malaysia	Conference 01-11-2019	International
4	Entrepreneurship training on preparation of simple Chemical products.	Workshop	State Level
5	Entrepreneurship training on preparation of simple chemical products for staffs and non teaching staffs	Workshop	State Level
6	Entrepreneurship training on preparation of simple chemical products for students	Workshop	State Level
7	Value Based Education	Seminar 13-03-2020	National
8	Re-Connecting Mentor-Mentee in Pandemic SCC, Nagercoil	Online Workshop 24-05-2021	National



SCOTT CHRISTIAN COLLEGE (Autonomous), Nagercoil.

Department of Chemistry and Research Centre

9	Faculty Enrichment Programme on "Role of Surfactants in Covid 19.	Faculty Enrichment Programme 08-05-2021	National
10	Webinar on Phytochemical In Science: Polymer in Electronics.	Webinar 2023	State level
11	Innovation Research in Chemical Sciences: Polymers in Electronics.	Conference 10-12-2021	Online International
12	National Seminar on Research and Innovation and Innovation in Chemical Science	Seminar 2022	National
13	Workshops on advances in systems Engineering Approach Rocker Population.	Workshop 2021	Regional
14	National conference on Biomaterials	Conference 21-4-2023	National
15	International conference on Biomaterials, Biodegradables, Biomimetics.	Conference 23-01-2024	International

Served as Doctoral Committee Member:

1. P. Jona, Research Scholar, Women's Christian College, Nagercoil.
2. V. Vibi, Research Scholar, Women's Christian College, Nagercoil.
3. S. Subitha, Research Scholar, Women's Christian College, Nagercoil.
4. Asher Nebin, Research Scholar, Scott Christian College, Nagercoil.
5. R. Sreetha, Research Scholar, Scott Christian College, Nagercoil.
6. A. Francy, Research Scholar, Scott Christian College, Nagercoil.
7. S.K JohnsySugirtha, Research Scholar, Holy Cross College(Autonomous), Nagercoil.



SCOTT CHRISTIAN COLLEGE (Autonomous), Nagercoil.

Department of Chemistry and Research Centre

Served as Resource Person:

1. Microscale Experiments in Chemistry, Infant Jesus College of Arts and Science for Women, 2020.
2. Wonders of Background Radiation, Holy Cross College, Nagercoil, 2019.
3. Workshop on Micro Scale Experiments in Chemistry, WCC Nagercoil, 2017.
4. Capacity Development Training for Post Graduate Teachers (Chemistry), DIET-Theroor 2017.
5. Wonders of Background Radiation, WCC Nagercoil, 2017.
6. Content Enrichment Training for Post Graduate Teachers, DIET-Theroor 2016.

Additional Responsibilities:

1. Serving as Coordinator for Human Value Education, Scott Christian College (Autonomous) from June 2010.
2. Served as the external examiner for the Ph.D viva-voice of Mr. J. Venkatesan on 1-3-2-19.
3. Member in the board of studies as an external expert for MS University from 1-1-2016 to 31-12-2018.
4. Serving as the coordinator for the counseling program at Scott Christian College from 15-6-2012.
5. Serving as the convener remedial coaching for slow learners at Scott Christian College (Autonomous) from June 2019.