

## PROFORMA FOR BIODATA

1. Name : Dr.G.Dayana Jeyaleela  
2. Designation : Assistant Professor  
3. Department : Chemistry  
4. Correspondence Address : No-14/16, Aarasu Colony, First Street,  
Edamalipatti pudhur, Trichy-12.  
5. Email and Contact number : prncedayana1221@gmail.com & +91 9123511848  
6. Date of Birth : 12.01.1993  
7. Gender : Female  
8. Category : BC  
9. Whether differently abled : No  
10. Academic Qualification

S. No	Degree	Year	Subject	University/Institution	% of Marks
1	B.Sc	2013	Chemistry	Holy Cross College (Autonomous), Trichy	67%
2	M.Sc	2015	Chemistry	St.Joseph's College (Autonomous), Trichy	72%
3	Ph.D	2020	Chemistry	Bharathidasan University, Research Center: Holy Cross College, Trichy	-

11. Ph.D thesis title : Isolation and Characterization of Bioactive Principles from *Melia dubia* and *Combretum ovalifolium* and their Applications in Pharmacology  
Guide's Name : Dr.J. Rosaline Vimala  
Institution/ University : Holy Cross College (Autonomous), Trichy  
Year of Award : 2020  
12. Work Experience : 3 Years

S. No	Position held	Name of the Institute	From	To	Pay Scale
1	Assistant Professor	Holy Cross College	01.10.2020	30.01.2021	21,000
2	Assistant Professor	Shrimati Indira Gandhi College	01.10.2021	22.06.2023	18,600
3	Assistant Professor	St.Joseph's College (Autonomous)	23.06.2023	20.05.2024	22,000

### 13. Professional Recognition/ Award/ Certificate/ Fellowship received by the applicant

#### **AWARDS AND HONORS:**

- ❖ Received “International Distinguished Young Scientist Award 2023” from ASET Journal of Management Science, Division of ASET college of Science and Technology, Chennai.
- ❖ Received “Extraordinary Changemakers of the Year 2023 Awards” from TIP Community, Baghpat, Uttar Pradesh.
- ❖ Received “Professor C.N.R Rao Best Young Scientist Award” from Bose Science Society, Tamilnadu Scientific Research Organisation, Pudukkottai, Tamilnadu, India.
- ❖ Successfully done service as a NSS President at Holy Cross College in year 2011-2012.
- ❖ Got Gold medal from Holy Cross College (2011-2012) for Best volunteer.
- ❖ Got University Award from Bharathidasan University (2011-2012) for Best volunteer.

#### **RESOURCE PERSON:**

- ❖ **Resource Person** for Women`s Day - Celebration, organized by EXTENSION DEPARTMENT-SHEPHERD, St.Joseph's College (Autonomous), Trichy held on 08.03.2024.
- ❖ **Project evaluator** in 31<sup>st</sup> National Children's Science Congress 2023 organized by Tamilnadu Science Forum (TNSF) and St.Joseph`s College (Autonomous), Trichy on 17.10.2023.
- ❖ **Project evaluator** in 31<sup>st</sup> National Children's Science Congress 2023 organized by Tamilnadu Science Forum (TNSF) and Jamal Mohamed College (Autonomous), Trichy on 30.10.2023.
- ❖ **Resource Person** for an “Orientation Programme” for First year NSS Volunteers of Shrimati Indira Gandhi College, Trichy on 18.02.2023.
- ❖ **Trainer** in private institute “Bio Techno Solutions Training and Research Institute”, Subramaniyapuram, Tiruchirappalli, Tamilnadu, India.

## 14. Publications

S. No	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	<b>Gnana Sekar</b> <b>Dayana Jeyaleela,</b> Moses Stella Bharathy, Joseph Devaraj Rosaline Vimala, Aranganathan Agila, Arockiya raj Divya	Antibacterial Agent of Echinochloa esculenta-Mediated ZnO Nanoparticles on Urinary Infection-Causing Bacteria	Journal of Reports in Pharmaceuti cal Sciences,	January- Decembe r 2024; 12(1):	e146210	2024
2.	<b>G. Dayana</b> <b>Jeyaleela, J.</b> Rosaline Vimala	Separation, identification, and anti-Breast cancer efficacy of anthocyanin of Melia dubia bark	Materials Letters:X	March 2024	100223	2024
3.	<b>Dayana Jeyaleela</b> <b>Gnana Sekar,</b> Mahesh Narayanan, Ramesh Kannan Natarajan, Rojamalar Paramasivan, Balakumar Srinivasan, Zubair Ahmad & Farhat S. Khan	Enriched biological activity of copper oxide nanoparticles derived from Aloe vera extract	Biomass Conversion and Biorefinery	24 July 2023	1-18	2023
4.	<b>Dayana</b> <b>Jeyaleela,</b> Aranganathan Agila, Stella Bharathy, Rosaline Vimala, Margrat Sheela, Sivasangu Vimala, Kasirajan Gayathri	Green synthesis of paspalum scrobiculatum mediated copper oxide nanoparticles and its anti- bactericidal activities	Asia-Pacific Journal of Science and Technology,	28 (1)	1-8	2023
5.	<b>Gnanasekar</b> <b>Dayana Jeyaleela,</b> Palani Manogar, Jobu Esther Morvinyabesh, Ponnusamy Ramesh, Venkatesan Amalan, Jamaan S	Biosynthesis and antimicrobial activity of aluminium oxide nanoparticles using Lyngbya majuscule extract	Materials Letters	Volume 311, 15 March	131569	2022

	Ajarem, Ahmed A Allam, Jong Seong Khim, Natesan Vijayakumar					
6.	<b>Dayana Jeyaleela, Gnanasekar;</b> Prasanth, Manivannan; Muruganandam, Gurusamy,; Ravichandran, Krishnasamy; Shanthaseelan, Krishnasamy; Priyadharshini, Baskaran Pradhiba	Anticancer Activity of Tin Oxide and Cerium-Doped Tin Oxide Nanoparticles Synthesized from Ipomoea carnea Flower Extract.	Biomedical and Biotechnology Research Journal	6(3)	337-340	2022
7.	<b>Dayana Jeyaleela, Gnanasekar;</b> Agila, Aranganathan, Vimala, Joseph Devaraj Rosaline; Bharathy, Moses Stella; Sheela, Sagaya Adaikalaraj Margrat	Anti-Oxidant and Anti-Cancer Activities of Biogenic Synthesized Copper Oxide Nanoparticles	Biomedical and Biotechnology Research Journal	6(3)	341-348	2022
8.	<b>Dayana Jeyaleela, Gnanasekar;</b> Agila, Aranganathan,; Vimala, Joseph Devaraj Rosaline; Bharathy, Moses Stella; Sheela, Sagaya Adaikalaraj Margrat	Inhibitory Effect of Basella alba-Mediated Zinc Oxide Nanoparticles against the Infection-Causing Bacteria	Biomedical and Biotechnology Research Journal	6(3)	353-359	2022
9.	<b>G. Dayana Jeyaleela, A.</b> Agila, J. Rosaline Vimala, M. Stella Bharathy, S. Margrat Sheela	In vitro Pharmacological Activities of Delonix Elata Extract Mediated Zinc Oxide Nanoparticles	Oriental Journal of Chemistry	38(4)	1037- 1046	2022
10.	<b>Jeyaleela, Gnanasekar Dayana;</b> Bharathy, Moses Stella; Vimala, Joseph Devaraj Rosaline; Agila,	Comparison of anti-inflammatory activities of biogenic gymnema sylvestre- and panicum sumatrense-	Biomedical and Biotechnology Research Journal	5(4)	405-411	2021

	Aranganathan; Sheela, Sagaya Adaikalaraj Margrat	mediated titanium dioxide nanoparticles				
11.	<b>G. Dayana Jeyaleela, J.</b> Rosaline Vimala, S. Margrat Sheela, A. Agila, M. Stella Bharathy M. Divya	Biofabrication of Zinc Oxide Nanoparticles using the Isolated Flavonoid from Combretum ovalifolium and its Anti-oxidative Ability and Catalytic Degradation of Methylene Blue Dye	Oriental Journal of Chemistry	36(4)	655-664	2020
12.	<b>G. Dayana Jeyaleela, .</b> Rosaline Vimala, T. Anthony Diwakar chandran, A. Benno Susai Vijayakumar	Preliminary Phytochemical Analysis, Antioxidant activity and Identification of Bioactive Compound in Stem and Leaf of Combretum Ovalifolium	International Journal of Scientific & Technology Research	9(3)	3125- 3132	2020
13.	<b>G. Dayana Jeyaleela, M.</b> Stella Bharathy, J. Rosaline Vimala, A. Agila and M. Hemadevi,	Potential Use of Copper Oxide Nanoparticles from Solanum Trilobatum against Pathogenic Bacteria	Oriental Journal of Chemistry	37(4)	991-996.	2020
14.	<b>G. Dayana Jeyaleela,</b> Kalaiselvi, B., Prathiba, K., Ramyasri, R., Shiyamli, S., & Vimala	Growth Evaluation of Marine Microalgae Chlorella sp. BDU G91771 in Calcium Rich Ossein Effluent–A Bioremediation Perspective	Asian Journal of Chemistry	31(10)	2361- 2366	2019
15.	<b>G. Dayana Jeyaleela, Vimala,</b> J. R., Senthil, R., Anandagopu, P., & Manjula, K.	Isolation, Characterization, Molecular docking and In-vitro studies of Inhibitory effect on the Growth of	Asian Journal of Chemistry	31(11)	2628- 2634	2019

		Struvite crystal of Bioactive Principle Derived from Melia dubia leaf Extract				
16.	<b>G. Dayana Jeyaleela,</b> Balasubramani N, J. Rosaline Vimala,	Isolation and Characterization of Antioxidant (Flavone-3-Rutinoside, 3,3',4',5,7-Pentahydroxy) from Leaves of Melia dubia,	Asian Journal of Pharmaceutical and Clinical Research	12 (2)	107-114	2019
17.	<b>G. Dayana Jeyaleela,</b> V.Rajasudha, R. Manikandan	Isolation and Identification of Flavonoid from Borreria hispida(linn)	International Journal of Scientific Research and Reviews	7 (3)	1696-1704	2018
18.	<b>G. Dayana Jeyaleela, S.</b> Irudaya Monisha, J. Rosaline Vimala, A. Anitha Immaculate	Isolation of 2-Chlorobenzimidazole from Melia dubia Leaf Extract and its Structural Characterisation	International Journal of Pharmacy and Pharmaceutical Sciences	9(10)	67-72	2017
19.	<b>G. Dayana Jeyaleela, S</b> Irudaya Monisha, A Anitha Immaculate, J Rosaline Vimala	Comparative studies on yield and the phytochemical appraisal (Quality and Quantity) of Manilkara hexandra (Roxb) Dubarb using leaf, stem, and bark	Journal of Pharmacognosy and Phytochemistry	6 (4)	2052-2058	2017
20.	<b>G. Dayana Jeyaleela, S.</b> Irudaya Monisha, A.Anitha Immaculate, J.Rosaline Vimala	Studies on Phytochemical, Nutritional Analysis and Screening of In Vitro Biological Activities of Meliadubia Leaf Extract	International Journal of Scientific & Engineering Research	7(8)	56-68	2016
21.	<b>G. Dayana Jeyaleela, J. Rosaline Vimala, S. Margrat Sheela, S. Irudaya Monisha</b>	Biosynthesis of Silver Nanoparticles by Melia dubia Leaf Aqueous Extract and its	World Journal of Pharmaceutical Research	5(3)	973-981	2016

		Antibacterial Activity				
22.	<b>G. Dayana Jeyaleela, S.</b> Irudaya Monisha , A. Anitha Immaculate , J. Rosaline Vimala	GC-MS Analysis and Green Synthesis of Copper Nano Particles using Vitex Negundo. L Leaf Extract	International Journal of Scientific & Engineering Research	7(8)	154-161	2016
23.	<b>G. Dayana Jeyaleela, JK.</b> Alphonsa Juliet Helina, V. Alex Ramani, T. Francis Xavier, A	Phytochemical Screening and Antimicrobial Studies on the Medicinal Plant Vitex altissima L	World Journal of Pharmacy and Pharmaceutical Sciences	4(9)	705-716	2015
24.	<b>G. Dayana Jeyaleela, JK.</b> Alphonsa Juliet Helina, V. Alex Ramani, T. Francis Xavier, A	Phytochemical Screening and Antimicrobial Studies on the Medicinal Plant Flueggea leucopyrus (willd.)	World Journal of Pharmacy and Pharmaceutical Sciences,	4(9)	717-726	2015

### GOOGLE SCHOLAR

h-index : 06  
i10 index : 02  
Total citations : 97

### SCOPUS

h-index : 02  
Total citations : 14

### 15. Details of patents

**1. Indian Design Patent:** Title: Wound Healing Device, Patent No. 395385-001,

**STATUS: GRANTED**

**2. Indian Patent:** Title: Formulation of Novel Flavonoids-Based Nano-Encapsulated

Ointment for Wound Healing, Application Number- 202341061466,

**STATUS: PUBLISHED.**

16. Books/ Reports/Chapters/General articles etc

S. No	Title	Author's Name	Publisher	Year of Publication
1	Isolation, Characterizations of Bioactive Principles from <i>Melia dubia</i> and its In-Silico and In-Vitro Urolithiatic Activity. Current Perspectives on Chemical Sciences. Vol.11 (2021). Pg: 1-24. Print ISBN: 978-93-90888-69-6, E ISBN: 978-93-90888-77-1.	J. Rosaline Vimala, G. Dayana Jeyaleela	Book Publisher International	2021
2	Mechanism of oxidation of Hydroquinone, by N-chloropiperazine-2,5- Dione- A kinetic study. Recent Trends in Multidisciplinary Research, Chapter-XXI, ISBN: 978-93-91387-26-6, 412-430.	Dayana Jeyaleela, G Rajalakshmi, K.	Akinik Publications	2023
3	Optimization and Bio-Synthesis of <i>C. Ovalifolium</i> Mediated Nickel Oxide Nanoparticles, Futuristic Trends in Chemical Material Sciences & Nano Technology Volume 3 Book 25,IIP Series, Volume 3, May, 2024, Page no.241-252, e-ISBN: 978-93-5747-881-6,	G. Dayana Jeyaleela, Ms. L. Raveena, N. Ramesh Kannan	Iterative International Publishers (IIP),	2024

17. Research guidance

Ph.D.	: Awarded	: -
M.Phil.	: Awarded	: -
M.Sc. Dissertation	: Awarded	: 02

18. List of Completed/Ongoing/Submitted projects

S.No	Title of the Project	Duration		Total Cost (Rs.)	Name of Funding Agency	Status
		From	To			
1	Formulation Of Wound Healing Ointment For Diabetic Patients Derived From Anthocyanin Loaded Silica Doped Nanocomposites	2024	2027	20,25,000	SERB	Accepted for Evaluation



2	Synthesis of protonated 4-aminopyridine with some organic complexes and investigation of its anticancer activity by In-silico, In-vitro and In-vivo studies	2024-2027	11,00,000	ICMR	Accepted for Evaluation
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- (a) Major Results/ Highlights of the project including achievement(publications, patents etc.), for *completed projects*  
 (b) Up-to date Technical progress report for *on-going projects*.

## 19. Membership

- (a) Professional bodies

### JOURNAL REVIEWER:

- **Reviewer** in ‘Oriental Journal of Chemistry’, <https://www.orientjchem.org/list-of-the-peer-reviewers/>
- **Reviewer** in “American Journal of Applied Chemistry (AJAC)” <http://www.applchem.org/reviewers>
- **Reviewer** in “Journal of Scientific Research and Reports”
- **Reviewer** in ‘Journal of Pharmaceutical Research International’ <https://journaljpri.com/index.php/JPRI/libraryFiles/downloadPublic/44>
- **Reviewer** in ‘Asian Journal of Research in Biochemistry’
- **Reviewer** in ‘Asian Journal of Research in Medical and Pharmaceutical Science’
- **Reviewer** in International Journal “Advance Journal of Pharmaceutical Research”

### PROFESSIONAL MEMBERSHIP:

- **Member** in International Journal “Advance Journal of Pharmaceutical Research”
- **Member and Fellow** in **Bose Science Society**, Tamil Nadu Scientific Research Organisation, Pudukkottai - 622 003.
- Member in Google Scholar (**Citation- 97, H-index-6, i10 index-2**)
- Member in Research gate (**Citation-106, Research score-151.5, H-index-7**)
- Member in Scopus: (**Author ID: 57210796054, Citation- 13, H-index-2**)  
URL: <https://www.scopus.com/authid/detail.uri?authorId=57210796054>
- Member in ORCID, (**ORCID ID: 0000-0001-5038-4389**)  
URL: <https://orcid.org/0000-0001-5038-4389>
- Member in ResearcherID, (**ResearcherID: T-4227-2017**)  
URL: <https://www.researcherid.com/rid/T-4227-2017>

(b) Editorial board

- **Editor of Book** entitled “**Chemical, Material Science & Nano Technology**”, Iterative International Publishers (IIP), Selfypage Developers Pvt Ltd. USA & India, e - ISBN: 978-93-5747-881-6, 3-2024. <https://www.iipseries.org/view-publication.php?bookid=262&bookname=futuristic-trends-in-chemical-material-sciences-and-nano-technology-volume-3-book-25>
- **Editorial Board member** in “Journal of Applied Surface Science (JASS)”. <https://www.opastpublishers.com/journal/journal-of-applied-surface-science/editorial-board>

(c) Advisory board

(d) Academic bodies

- ❖ **NACC Coordinator for CRITERIA-2** at Shrimati Indira Gandhi College, Trichy (2021-2023).
- ❖ **RESEARCH AND DEVELOPMENT CELL Coordinator** for Physical Sciences at Shrimati Indira Gandhi College, Trichy(2021-2023).
- ❖ **EVENT TEAM and CULTURAL TEAM** member at Shrimati Indira Gandhi College, Trichy(2021-2023).

20. Countries visited: -

21. Any other Information: -

**DECLARATION:-**

I certify that the foregoing information is correct and complete to the best of my knowledge and belief.

**Place: Trichy**

**Date: 19.07.2024**

**Signature :**

