

**The American College, Madurai**  
**Department of Biochemistry**  
**FACULTY PROFILE**

**Name** : Dr. R. JEYAPANDI  
**Designation** : Assistant Professor  
**Department** : Biochemistry  
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**I. Education Qualification:**

Degree	Subject	College/University & Place	Year Completed
Ph.D	Biochemistry-Zoology (Inter-disciplinary)	Manonmaniam Sundaranar University, Tirunelveli.	2017
M.Phil	Biochemistry	Bharathidasan University, Tiruchirapalli	2008
M.Sc	Biochemistry	Bharathidasan University, Tiruchirapalli	2004
B.Ed	Biochemistry	Madurai Kamaraj University, Madurai	2005
B.Sc	Biochemistry	Madurai Kamaraj University, Madurai	2002

**Specialization in Teaching:**

- Bio molecules
- Enzymes
- Biochemical techniques
- Metabolism
- Immunology
- Clinical biochemistry
- Molecular Biology
- Nutritional Biochemistry
- Plant Biochemistry
- Cancer Biology

**Specialization in Research:**

- Bio Pesticides
- Bio Fertilizer

**Research Interests:**

- Bio Pesticides
- Clinical Diagnosis

**Any Other Work Experience:**

Designation	Institution / Company	Year – From (month/year) To (month/year)
Lecturer and Head of the Department of Biochemistry	Sri Nagalakshmi Ammal College of Sciences, Pappunayakkanpatti.	26.12.2005 to 30.04.2010

**Training Courses Attended**

- One day training course on Advanced Biochemical & Molecular Techniques, organized by Department of Biochemistry & Biotechnology, Sourashtra College, Madurai on 26<sup>th</sup> February 2009.
- One Day First Aid Training Program organized by the Department of Biochemistry, The American College, Madurai in association with St.John Ambulance, India on 21 March 2018.

**Papers Presented in State level /National Conference:**

- **Jeyapandi. R**, 2016. Effect of the plant extract *Calotropis gigantea* against the *Blister beetle Mylabris indica* Thunb (Coleoptera: Meloidae). Paper presented in the State level seminar on Emerging trends in modern life science, organized by the Department of Biochemistry & Biotechnology, Sourashtra College, Madurai on 20<sup>th</sup> February 2010.
- **Jeyapandi. R**, 2016. Efficacies of the plant extract *Azadirachta indica* against the *Blister beetle Mylabris indica* Thunb (Coleoptera: Meloidae). Paper presented in the National conference on Botanical and phytochemicals : The challenges and promise for health care and drug development, organized by Rev. Jacob Memorial Christian College, Ambilikkai on 4<sup>th</sup> February 2016.
- **Jeyapandi. R**, 2017. Diversity of Medicinal Plants in and Around T. Kalluppatti, Madurai District in Tamilnadu. Paper presented in the ENERGY FEST'17 seminar on Advanced technologies and innovations in energy and environment, organized by the School of Energy, Environmental and Natural Resources, Madurai Kamaraj University, Madurai on 28<sup>th</sup> March 2017.

### **Papers Published in International Journals:**

- **Jeyapandi. R** and Shunmugavelu. M. 2011. “Effect of the plant extract *Calotropis gigantea* against the blister beetle *Mylabris indica*”- Journal of Ecobiology: 28(1) 69 – 72.
- Shunmugavelu. M and **Jeyapandi. R.** 2011. “Impact of the plant extracts *Tribulus terrestris* on Biochemical Content of the Polyphagous pest *Mylabris indica*- Journal of Ecobiology: 29 (3) 237 – 24.
- **Jeyapandi. R** and Shunmugavelu. M. 2020. Effect of plant extract *Pongamia pinnata* against Polyphagous pest *Mylabris indica*- Rev Biotechnol Biochem 1:001.RBB-001.000001.Volume 1, 1-3.

### **Resource Person:**

- **Causes and control of stress in youngsters**, organized by NSS Unit No: 3 of The American College, Madurai on 15<sup>th</sup> February 2018.
- **Open Defecation – Health Impacts Program on Awareness of Health**, at Nedunkulam, Madurai organized by department of social work, The American College, Madurai on 15<sup>th</sup> March 2018.
- **Open Defecation and it’s Effects on Environment**, at Indhra Nagar Colony, Madurai organized by Illozhithozham Arakattalai, Thiruparankundram, Madurai on 30.06.2019.

### **Awards & Honours:**

- **Best Faculty** on PEARL Foundation for Educational Excellence Awards to Higher Education in India 2017 organized by PEARL Foundation, Madurai on 10<sup>th</sup> December 2017.
- **Best Faculty – Official Spotlight Certificate** on 6<sup>th</sup> Academic Brilliance awards – 18 organized by Education expo- tv, Noida on 28 January 2018.
- **Har Gobind Khorana Best Young Scientist Award** on 8<sup>th</sup> NACON 2018, organized by Bose Science Society, Pudukkottai, Tamil Nadu on 15 September 2018.
- **Best Senior Faculty Award** on Novel Research Academy in 2019-20 organized by Novel Research Academy, Puduchery, India on 09.11.2019.

**Extra Curricular Activities:**

- Key responsibilities include NSS Program Officer, RRC Program Officer & Youth Welfare Program Officer in Sri Nagalakshmi Ammal college of Sciences, Pappunayakkanpatti from 21.04.2007 to 30.04.2010.
- Key responsibilities included Youth Red Cross (YRC) & Indian Red Cross Society Program Officer in Sri Nagalakshmi Ammal college of Sciences, Pappunayakkanpatti from 23.01.2009 to 30.04.2010.
- Project Associate in Village Ecology Action on Health, Service Learning Program (SLP), The American College, Madurai from June 2015 to till date.

**Seminars/ Orientation / Refresher /Workshop Attended:**

- NSS Orientation course organized by Training and orientation Centre, NSS, Avinasilingam University for Women, Coimbatore on 22<sup>nd</sup> – 31<sup>st</sup> August 2007.
- State Level Seminar on Healthy Youth for Healthy India organized by NSS, RRC & Lions club of Madurai Host, Sourashtra College, Madurai on 27<sup>th</sup> February 2008.
- One day Seminar on Peace and Non-Violence organized by NSS and Rajiv Gandhi National Institute of Youth Development, Sriperumbudur, Madurai Kamaraj University, Madurai on 13<sup>th</sup> October 2008.
- Two days State level Workshop on Capacity Building of NSS Programme Officers organized by Rajiv Gandhi National Institute of Youth Development & NSS Regional Center, Chennai on 27<sup>th</sup> & 28<sup>th</sup> February 2009.
- NSS Refresher Course organized by Training and orientation Centre, NSS, Avinasilingam University for Women, Coimbatore on 19<sup>th</sup> – 23<sup>rd</sup> January 2010.

**Faculty Development Program Attended:**

- ❖ UBCHEA sponsored Four- Days Faculty Development Program (FDP 2020) on Emerging Leaders of Service Learning Programme during 13-16 February 2020.
- ❖ Online Faculty Development Program on Recent Trends in Life Sciences organized by Department of Zoology St. Jude's College, Thoothoor on 6.7.2020 to 10.7.2020.
- ❖ FDP on "Responsibilities of Microbiologists in Combating Pandemic Diseases" organized by the Department of Microbiology, K. S. Rangasamy College of Arts and Sciences, Tiruchengode on 8, 9 & 10 July 2020.

### **Seminars/Symposium/Conferences/Workshops Attended:**

- One day seminar on Biochemistry in Human Health, organized by C.S.I. Darling Selvabai Thavaraj David College for Women, Madurai on 21<sup>st</sup> January 2002.
- National seminar on Emerging trends of Biotechnology in Health Sciences, organized by KMCH College of Pharmacy & Department of Biochemistry, Dr. NGP Arts & Science College, Coimbatore on 11<sup>th</sup> & 12<sup>th</sup> February 2002.
- One day seminar on Recent trends in Biotechnology & Stem cell Technology, organized by department of Life Sciences, V.P.M.M. Arts & Science College for Women, Krishnankovil on 9<sup>th</sup> January 2006.
- State Level Seminar on Bioinformatics, organized by Department of PG Biochemistry & UG Microbiology, V.V.V. College for Women, Virudhunagar, 8<sup>th</sup> February 2007.
- State level Conference on Research in Ethnomedicines, organized by Tamil Nadu Scientific Research Organisation, Pudukkottai on 28<sup>th</sup> & 29<sup>th</sup> January 2010.
- State level seminar on Emerging trends in modern life science, organized by the Department of Biochemistry & Biotechnology, Sourashtra College, Madurai on 20<sup>th</sup> February 2010.
- National Symposium on Bioinformatics and drug discovery, organized by department of Biotechnology and Chemical engineering, Kalasalingam university, Krishnankoil on 27<sup>th</sup> February 2010.
- Science day and Aqua-Terr Annual conference on Organismal & Functional Genomics, organized by School of Biological Sciences, Madurai Kamaraj University, Madurai on 6<sup>th</sup> March 2010.
- State level seminar on Resent trends in life science, organized by the PG and Research Department of Zoology, Yathava College, Madurai on 12<sup>th</sup> March 2010.
- MARINA'12 National Conference on Marine environmental Challenges and Coastal Zone Management Strategy, organized by the department of marine sciences, Bharathidasan University, Trichy on 13<sup>th</sup> & 14<sup>th</sup> February 2012.
- State level inter-collegiate seminar in Recent Challenges in Biotechnology, organized by PG department of Immunology & Microbiology, The American College, Madurai on 17<sup>th</sup> February 2012.
- Workshop on Freshwater Biodiversity conservation by completing the educator skills training, organized by Wildlife Information Liaison Development Society on 12<sup>th</sup> December 2012.
- National level seminar on Trends in Bioprospecting, organized by department of Microbiology, Biochemistry & Biotechnology, S.V.N. College, Nagamalai, Madurai on 27<sup>th</sup> December 2012.

- International symposium on Emerging issues on Health – A Comprehensive Therapeutic Approach, organized by Dept of Home Science & Zoology, Fatima College, and Madurai on 16<sup>th</sup> December 2013.
- State level seminar on Recent research trends in fresh water aquatic organisms, organized by department of Zoology, S.V.N. College, Nagamalai, Madurai on 30<sup>th</sup> January 2014.
- One day Workshop on Adolescent health, organized by PG department of Biochemistry, The American College, and Madurai on 17<sup>th</sup> October 2014.
- National conference on Molecular genetics and Regeneration biology, organized by department of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli on 27<sup>th</sup> February 2015.
- Medlab 2015, National conclave on laboratory medicine, organized by Meenakshi Mission Hospital & Research centre, Madurai on 5<sup>th</sup> & 6<sup>th</sup> December 2015.
- DBT sponsored National conference on Community microbial consortia and the human holobiont- implications of Yet-unculturable microorganisms in systemic health, disease & personalized medicine, organized by department Immunology & Microbiology, The American college, Madurai on 7 & 8 December 2015.
- One day Seminar on Accreditation and quality management in library services: NAAC and NBA parameters, organized by Academic library association in collaboration with Daniel poor library, The American college, Madurai on 2<sup>nd</sup> April 2016.
- One day National seminar on Conservation methods and Biopotential assessment of biodiversity, organised by the Department of Microbiology and Biochemistry & Biotechnology, Sourashtra College, Madurai on 16<sup>th</sup> March 2016.
- International conference on Biomolecules and their prospects, organised by the Department of Microbiology and Biotechnology, Selvam Arts and Science College, Namakkal on 8<sup>th</sup> July 2016.
- New horizons, emerging challenges and recent paradigms in food mediated immunity and their role in human health and longevity, organized by PG and Research department of Zoology and department Immunology & Microbiology, The American College, Madurai on 31 August & 1 September 2016.
- Science Academies Lecture Workshop on Introduction to Modern Biology organized by PG and Research department of Zoology, The American College, Madurai on 19-21 January 2017.
- Tamil Nadu State Council for Science & Technology, Dept of Higher Education, Govt. Of Tamil Nadu & Indian Academic Researchers Association, Trichy sponsored National Workshop on Research Project, Funding Agencies and eResources organised by department of Zoology, Shaiva Bhanu Kshathriya College, Aruppukottai on 29 July 2017.

- National Conference on SMART SUMMIT – 2017, organized by PEARL Foundation for Educational Excellence, Madurai on 10 December 2017.
- Science Academies Lecture Workshop on Recent Trends in Modern Biology organized by PG and Research department of Zoology, The American College, Madurai on 23-25 January 2018.
- National conference on Impacts of Pollution on Health and Restoration of Quality Environment Through Biotechnology Applications organized by PG and Research Department of Zoology and PG Department of Immunology & Microbiology, The American College, Madurai on 2 & 3 February 2018.
- One Day Symposium on Mental Health & Physical Fitness organized by Department of Biochemistry, The American College, Madurai on 12 February 2018.
- Orientation workshop on SWAYAM, jointly organized by department of Library & Information Science and UGC-HRDC, Bharathidasan University, Trichy, 29 June 2018.
- 8<sup>th</sup> National Conference on Natural Science and award presentation ceremony, organized by Bose Science Society, Pudukkottai, Tamil Nadu on 15 September 2018.
- Science Academies Lecture Workshop on Human Genomics and Genetics Diseases organized by the PG Department of Zoology, Saiva Bhanu Kshatriya College, Aruppukottai on 5 & 6 October 2018.
- One Day workshop on Food Technology organized by Department of Biochemistry, The American College, Madurai on 16 October 2018.
- National Conference on Western Ghats: Threats and Conservation organized by PG & Research department of Zoology, The American College, Madurai on 17 October 2018.
- National Conference on Recent Trends in Modern Immunology organized by the department of Immunology & Microbiology, The American College, Madurai on 23 January 2019.
- National Conference on Coral Reefs: Threats and Conservation organized by PG & Research department of Zoology, The American College, Madurai on 12 February 2019.
- National Conference on Emerging Trends in Microbiology, organized by the Postgraduate Department of Immunology & Microbiology, The American College, Madurai on 12 March 2019.

- International conference on Values & Spirituality for Overcoming Challenges organized by Annamalai University and Brahma Kumaris & Education Wing, Raiyoga Education & Research Fountation at Annamalai University, Annamalai Nagar, Tamil Nadu on 8 & 9 June 2019.
- “Self-Empowerment for Excellence in Social Service” organized by Rajyoga Education & Research Foundation (Education Wing) Brahma Kumaris, Mount Abu on 17.11.2019 at Madurai.
- National conference on “Recent Trends in Biological Sciences (RTBS-2020)” organized by PG & Research Department of Zoology, The American College, Madurai in association with Indian Science Congress Association , Chennai Chapter on 3.2.2020.
- National Seminar on “Avenues of Research in Biology” organized by PG & Department of Zoology Fatima College Madurai on 12.2.20.
- National level online webinar on “Stem cell Therapy (Past, Present, Future) organized by the Department of Biochemistry, SLS.MAVMM.Ayira Vaisyar College Madurai on 05.06.2020.
- Research Avenues in Biochemistry Organised by Department of Biochemistry, The American College, Madurai, 11 & 12 June 2020.
- International webinar on “Role of Diet on Immunity” organized by the Department of Biochemistry, SLS.MAVMM.Ayira Vaisyar College Madurai on 15.06.2020.
- International webinar on “ Validating Ayurvedism with the Current Therapeutic Concepts For The Management of Movement and Mental Disorders” organized by Department of Pharmacy, Annamalai University on 17.06.2020.
- International webinar on “Innovation in Transdermal Drug Delivery – Key Considerations” organized by Department of Pharmacy, Annamalai University on 20.06.2020.
- National Webinar on “ Traditional Agriculture: Self-reliant Bharat “ organized by Kshitij Foundation and Agrivision on 20 & 21 June 2020.
- International Technical Webinar on Advancements in Biotechnology” organized by Department of Biotechnology. St.Joseph’s College of Engineering OMR, Chennai on 22-24 June 2020.
- National level webinar on “Covid -19 and Indian Industry – Challenges Ahead” organized by Pg & Research Department of Economics, The American College, Madurai on 23.06.2020.

- Webinar on “Revolution in Structural Biology” conducted by PG & Research Department of Zoology, Rajah Serfoji Government College, Thanjavur on 25.06.2020.
- National level WEB conference on “Life Sciences” organized by the Department of Microbiology, K.R.College of Arts & Sciences, Kovilpatti on 29.06.2020.
- “National level Workshop on Importance of Value Education in the Modern World” organized by the St.John’s College of Education, Palayamkottai on 01.07.2020.
- Webinar on “Wildlife Resources of Oriental Region: Conservation Challenges “ organized by Faculty of Applied Sciences, AIMST University, Malaysia on 03.07.2020.
- International Webinar on “Forensic Science for Society” organized by the Department of Forensic Science, G .T. N. Arts College (Autonomous), Dindigul on 3. 7.2020.
- National level Webinar on “Effective Online Teaching Tools” organized by Bachelor of Commerce & Commerce (CA), K.S.Rangasamy College of Arts and Science, Tiruchengode on 04.07.2020.
- International Webinar on “Forensic Science for Society” organized by the Department of Forensic Science, G .T. N. Arts College (Autonomous), Dindigul on 4. 7.2020.
- International Webinar on “Forensic Science for Society” organized by the Department of Forensic Science, G .T. N. Arts College (Autonomous), Dindigul on 5. 7.2020.
- “Resistant Modulators: a possible solution foe AMR?” organized by Center for Research in infectious Diseases, School of Chemical & Biotechnology, SASTRA Deemed University, Thanjavur , 9.7. 2020.
- Webinar titled “Zebra fish infectious disease models” organized by Center for Research in infectious Diseases, School of Chemical & Biotechnology, SASTRA Deemed University, Thanjavur, 11.7. 2020.
- Webinar on Preparation of Files NAAC Accreditation Organized by IQAC Cell, Providence College for Women, Coonoor on 18 .7.2020.
- National Level Webinar on Teacher Vs Learner: Impact of COVID’ 19 in Colleges organized by Internal Quality Assurance Cell, The American College, Madurai on 22.7.2020.
- Organizing Secretary on “Vigyan Sarvatra Pujyate” organised by The American College, Madurai, 22- 28 February 2022.
- State Level Seminar on Intellectual Property Rights organized by BCA Department (Satellite Campus), The American College, Madurai on 03.02.23.

- International conference on Unifying Biology Through Diversity organized by PG & Research Department of Botany, The American College, Madurai on 14.10.22 to 15.10.22.
- International conference on Innovative Approaches in Life Sciences organized by Department of Food Science & Nutrition, The American College, Madurai on 24.03.23 to 25.03.23.

### **List of project guided for UG students of Biochemistry:**

- ✓ Antibacterial activity of *Coleus amboinicus* against *Staphylococcus aureus* and *Escherichia coli*.
- ✓ Biomarker of Myocardial infarction in Different age groups (Troponin).
- ✓ Comparative studies of Myocardial Infarction in different age groups (Creatinine Kinase, Basic Natriuretic Peptide).
- ✓ Comparative study of Bilirubin levels in Liver Diseases.
- ✓ Comparative analysis of Thyroid hormones.
- ✓ Effect of deficiency of hCG hormone in pregnant women.
- ✓ Comparative analysis of Vermicompost produced from animal waste material using *Eisenia fetida* and Its effect on Tomato (*Lycopersicon esculentum*) Plant.
- ✓ Analysis of Soil characteristic changes after application of Biofertilisers.
- ✓ Exploring Potassium Solubilising Fungi In Decayed Banana Peel.
- ✓ Soil Nutrient enrichment by *Tephrosia purpurea*.
- ✓ Heavy metal testing in drinking water.
- ✓ Antibacterial activity of *Pongamia pinnata* and *Annona squamosa* against *Staphylococcus aureus*.
- ✓ Antibacterial resistance of the Corn silk (*Zea mays*) against bacteria which cause urinary tract infection.
- ✓ Antifungal activity of *Millingtonia hortensis* against *Candida albicans*.
- ✓ Development of traditional cosmetic product using available natural compounds.
- ✓ Comparative analysis of Germinated Pulses and Non-germinated Pulses determine their Nutritive values by using several methods.
- ✓ Recent Nutritional Research Advances in Seaweeds.
- ✓ Analysis of Nutritive values in Health Mixture prepared from Cereals, Pulses, and Nuts & Oil Seeds.
- ✓ Comparative analysis of Nutritional value of different types of Rice.
- ✓ Survey of Medicinal Plants in Azhagar Kovil Hills, Madurai District.
- ✓ Comparative studies on Nutritional values of Honey.
- ✓ Comparative analysis of Antibacterial activity of *Centella asiatica* and *Acalypha indica* against *Escherichia coli* and *Staphylococcus aureus* using different concentrations of leaf extract.

## **Membership in Professional Bodies**

- Editor and Member of International Journal of Reviews in Biotechnology and Biochemistry, Astroid Publishers, USA.
- Member, International Society of Intraoperative Radiation Therapy, Italy.
- Member, Asia Society of Researchers, Hong Kong.
- Member, The Indian Science Congress Association, Kolkata.
- Member and Fellow of Bose Science Society in Biochemistry, recognized by Bose Science Society, Pudukkottai.
- Member, Board of studies, Department of Biochemistry, The American College, Madurai.
- Member, Board of studies, PG Department of biochemistry, SVN College, Madurai.
- Member, Academic Audit, UG Biochemistry, Sourashtra College, Madurai.
- Member, Academic Audit, UG Biochemistry, Yadava College, Madurai.
- Member, Anti-Ragging Squad & Green club, The American College, Madurai.
- External Examiner, Biochemistry Division of the Madurai Kamaraj University central Valuation, Madurai.
- External Examiner, Biochemistry & Biotechnology Division of the Mother Teresa University central Valuation, Kodaikanal.
- External Examiner for practical exam for UG Biochemistry, Sourashtra College, Madurai.
- External Examiner for practical exam for PG Biochemistry, SVN College, Madurai.
- External examiner for PG Biochemistry, Seethalakshmi Ramaswami College, Tiruchirapaalli.
- External examiner for Department of Biochemistry, Edayathangudy G.S. Pillay Arts & Science College, Nagapattinam.
- External examiner for Department of Biochemistry, Yadava College, Madurai.