

Curriculum Vitae

Dr. R. Radhakrishnan, M.Sc.,Ph.D

(Recognized as World's top 2% scientist by Stanford University,

USA)

Assistant Professor, P.G and Research Department of Botany

Jamal Mohamed College (Autonomous)

Affiliated to Bharathidasan University

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Educational Qualification

- Ph.D. (Plant Science), Bharathidasan University, Tiruchirappalli, Tamil Nadu
- M.Sc. (Botany), Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi (Affiliated to Madurai Kamaraj University, Madurai), Tamil Nadu
- B.Sc. (Botany), Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi (Affiliated to Madurai Kamaraj University, Madurai), Tamil Nadu

Academic (Teaching and Research) Experiences

- Assistant Professor** : P.G and Research Department of Botany, Jamal Mohamed College (Autonomous), Tiruchirappalli, Tamil Nadu, India
- Assistant Professor** : Department of Microbiology, Karpagam Academy of Higher Education, Coimbatore, Tamil Nadu, India.
- Assistant Professor (International faculty)** : Department of Biotechnology, Yeungnam University, Gyeongsan, South Korea
- Contract Professor** : School of Applied Biosciences, Kyungpook National University, Daegu, South Korea
- Post-Doctoral Researcher** : School of Applied Biosciences, Kyungpook National University, Daegu, South Korea
- Post-Doctoral Researcher** : National Institute of Crop Science, RDA, Miryang, South Korea
- Post-Doctoral Researcher** : School of Applied Biosciences, Kyungpook National University, Daegu, South Korea

Academic Activities/ Responsibilities

1. **Doctoral Committee Member** for Bharathiar University, Coimbatore and St. Joseph's College (Autonomous), Tiruchirappalli (*Role: Suggestions and directions to research work for doctoral students*).
2. **Board of Studies Member** for B.Sc., M.Sc. and M.Phil. (Botany) courses in Jamal Mohamed College, Tiruchirappalli from 2020 to till date (*Role: Revise/add the syllabus of allotted course papers*).
3. **Deputy Departmental Coordinator, DBT Star College Scheme**, Jamal Mohamed College, Tiruchirappalli from 2020 to 2022 (*Role: 1. Purchase and account maintenance of all DBT sanctioned instruments, glasswares and chemicals; 2. Flyer & agenda preparation, Participants attendance,*

Programme moderator and Report preparation of 50 number of Programmes along with claim form submission and their financial account maintenance).

4. **Department Annual Report preparation** for College day, Jamal Mohamed College, Tiruchirappalli from 2019 to 2020. (*Role: Collection and compilation of faculty participated programmes, Papers published in proceeding, books and journal publications with evidences from individual staff members*).
5. **Member, Intellectual Property Rights Cell**, Jamal Mohamed College, Tiruchirappalli from 2021 to till date. (*Role: 1. Flyer & agenda preparation, Participants attendance and Report preparation of all programmes; 2. Annual report submission*).
6. **Vice President of Botany Association**, Jamal Mohamed College, Tiruchirappalli from 2021 to 2022. (*Role: Flyer & agenda preparation, Participants attendance, Programme moderator and Report preparation of all programmes*).
7. **Member, Student Monitoring Committee**, Jamal Mohamed College, Tiruchirappalli from 2021 to till date (*Role: Student Monitoring duty from 1.30 pm to 2.15 pm and 6.20pm to 7.05pm*).
8. **Department Test In-charge**, Jamal Mohamed College, Tiruchirappalli from 2022 to till date (*Role: 1. Collection and printout of CIA questions and distribution of answers scripts to individual staff members; 2. Preparation of question papers in-charge, schedule the exam duty and exam halls*).
9. **Moral Education Instructor**, Jamal Mohamed College, Tiruchirappalli from 2022 to till date (*Role: Teach the allotted lessons to students*).
10. **Mentor** for M.Sc Students (2020-2022) and B.Sc Students (2023- Till date) (*Role: Communication between students and all official documents and issues; discipline maintenance; bridge between parents, college and students*).

Programmes Organized

1. **Radhakrishnan R** (ORGANIZING SECRETARY). School Student Visit Programme sponsored by DST-SERB under Social Scientific Responsibility, Core Research Grant (GRC/2021/001806) at Jamal Mohamed College (Autonomous), Tiruchirappalli on 28-12-2023. (*Role: Flyer & agenda preparation, Participants attendance, Science Departmental Visit Organized and Report preparation*).
2. **Radhakrishnan R** (ORGANIZING COMMITTEE MEMBER). National Webinar on Molecular Evolution, Taxonomy and Ecology. Jamal Mohamed College (Autonomous), Tiruchirappalli on 16-01-2022. (*Role: Flyer & agenda preparation, Participants attendance, Programme moderator and Report preparation*).
3. **Radhakrishnan R** (ORGANIZING SECRETARY). Faculty Development Program (FDP): International Webinar on Biological Innovations for Resource Management and Sustainable Development on 24th to 26th August 2021. (*Role: Flyer & agenda preparation, Participants attendance, registration fee collection and certificates preparation and distribution, Co-Programme moderator and Report preparation*).
4. **Radhakrishnan R** (ORGANIZING SECRETARY). Botany Association Inauguration Function 2021-2022 on 14th September 2021. (*Role: Flyer & agenda preparation, Resource person communication, Participants attendance, Programme moderator and Report preparation*).
5. Bukhari S and **Radhakrishnan R** (ORGANIZING SECRETARY). An Entrepreneurial Development Program(EDP): Opportunities in Mariculture on 28th to 29th September 2021 (*Role: Flyer & agenda preparation, Participants attendance, and Report preparation*).
6. **Radhakrishnan R** (ORGANIZING COMMITTEE MEMBER). National Seminar on Frontiers in Biological Innovations for Resource Management, Patents and Entrepreneur Development organized by Department of Botany, Jamal Mohamed College, Tiruchirappalli on 10 - 11th March 2020. (*Role:*

Abstract collection, Proceeding book preparation, Participants attendance, registration fee collection and certificates writing and distribution).

Resource person in Workshop/ Training Programmes

1. **Radhakrishnan R. Resource person** for Young Student Scientist Programme 2022 conducted by Tamilnadu state council for science and technology at Jamal Mohamed College, Tiruchirappalli during 19th May 2022.
2. **Radhakrishnan R. Resource person** for Hands on Training: Micropropagation, Somatic Embryogenesis, Synthetic Seeds and Hairy Root Culture. National Workshop on Woody Plant Tissue Culture. Department of Biology, The Gandhigram Rural Institute, Gandhigram, Dindigul, Tamil Nadu on 4th March 2022
3. **Radhakrishnan R. Resource person** for Young Student Scientist Programme 2019 conducted by Tamilnadu state council for science and technology at Karpagam Academy of Higher Education, Coimbatore during 2nd-16th May 2019.

Research Area

Plant-microbes Interactions, Stress Physiology, Weed Science, Plant Tissue Culture, Food Chemistry and Water Pollution

Awards and Recognitions

1. **World's top 2% scientists by Stanford University, USA**
2. **Best Paper award** - International conference on microbes and microbial products in sustainable environment, agriculture and health (P.69) held at Selvam Arts and Science College (Autonomous), Namakkal, Tamilnadu, India on 9th February 2024.
3. **Best Paper award** - First International Conference on Sustainable Development in Energy & Environment (P. 77) held at Kamaraj College of Engineering and Technology, Tamil Nadu, India on 18-20th July 2019
4. **Best poster presentation award (First prize)** - International conference on technological advances in super foods for health care (P.48) held at Puducherry, India on 3-4th May 2013
5. **Best oral presentation award (Third prize)** - International conference on technological advances in super foods for health care (P.48) held at Puducherry, India on 3-4th May 2013
6. **Best poster presentation award** - the Korean Society of Crop Science held at Gyoungu, South Korea on 19-20th April 2012
7. **Awarded as Senior Research Fellow** - Department of Biotechnology, New Delhi, India (Aug 2008- Jul 2009)
8. **Awarded as University Research Studentship** - Bharathidasan University, Tamil Nadu, India (Feb 2005- Jan 2008)

Principal Investigator of the Projects

- 1. Major Project** : **Core Grant Research Project**
Funding Agency : DST-SERB, New Delhi, India
Amount : Rs. 25.5 Lakhs
Title of the Project : Soybean crop improvement against drought by using Endophytes
Duration : Dec 2021 – Dec 2024 (**On going**)
- 2. Minor Project** : **Seed Money Project**
Funding Agency : Karpagam Academy of Higher Education, Coimbatore, India
Amount : Rs. 1.0 Lakh
Title of the Project : Endophytic microbial Interactions on Pharmaceutically valuable compounds in plants
Duration : Jan 2019 – Jan 2020 (**Completed**)
- 3. Minor Project** : **Seed Money Project**
Funding Agency : Jamal Mohamed College (Autonomous), Tiruchirappalli, India
Amount : Rs. 0.1 Lakh
Title of the Project : Isolation and Identification of plant growth promoting endophytes for cucumber plant growth
Duration : May 2021 – April 2022 (**Completed**)

Editorial Member of Journal

Editorial Member, Journal of Pure and Applied Microbiology : <https://microbiologyjournal.org/>

Reviewer of Journals

1. Scientific Report (**Nature**)
2. Bioelectromagnetics (**Wiley**)
3. Plant Physiology and Biochemistry (**Elsevier**)
4. Physiologia Plantarum (**Wiley**)
5. Plant Growth Regulation (**Springer**)
6. Journal of Photochemistry & Photobiology, B: Biology (**Elsevier**)
7. Journal of Agriculture and Food Chemistry (**ACS**)
8. ACS Omega (**ACS**)
9. 3Biotech (**Springer**)
10. Indian Journal of Plant Physiology (**Springer**)
11. Proceedings of the National Academy of Sciences, Biological Sciences India (**Springer**)
12. Environmental Science and Pollution Research (**Springer**)
13. Indian Journal of Experimental Biology (**NISCAIR**)
14. Chiang Mai Journal of Science (**Scopus**)
15. Journal of Phytology (**Scopus/ ESCI**)
16. Plant Science Today (**Scopus/ ESCI**)
17. Chemosphere (**Elsevier**)
18. Biomass Conversion and Biorefinery (**Springer**)
19. PLOS One
20. Biocatalysis and Agricultural Biotechnology (**Elsevier**)
21. Journal of Traditional and Complementary Medicine (**Elsevier**)
22. Acta Physiologia Plantarum (**Springer**)
23. Agronomy (**MDPI**)

Abroad visits

- Malaysia : 3rd International Conference on Applied Life Sciences held at University Kebangsaan Malaysia, Malaysia
- Malaysia : Fundamental Science Congress held at University Putra Malaysia, Malaysia
- Japan : Research discussion and lab visit to Yamaguchi University, Japan
- South Korea : Post-Doctoral Research Programme, South Korea
- China : 2nd International Symposium on Sustainable Agriculture for Subtropical Regions (ISSASR-2) held at Institute of Subtropical Agriculture, Changsha, China (Financial support from CAS, China)

Membership in Professional Research Bodies

1. International Society for Applied Life Sciences
2. Society for Biocontrol Advancement
3. National Academy of Biological Sciences
4. Society for Plant Biochemistry and Biotechnology
5. The Indian Botanical Society

Research Profile in Websites

1. Researcher ID: A-2295-2019 <https://publons.com/researcher/1804792/ramalingam-radhakrishnan/>
2. Scopus ID: 36852283800 <https://www.scopus.com/authid/detail.uri?authorId=36852283800>
3. Orcid ID: 0000-0003-4972-7967 <https://orcid.org/0000-0003-4972-7967>
4. Google Scholar ID: uJE17EQAAAAJ <https://scholar.google.co.kr/citations?user=uJE17EQAAAAJ&hl=en>
5. Research Gate ID: https://www.researchgate.net/profile/Ramalingam_Radhakrishnan3
6. Vidwan ID: 231193 <https://vidwan.inflibnet.ac.in/myprofile>

Main author publications: 64/ 83

Cumulative impact factor: 160, Google Scholar citations: 5716; h-index: 37, i10-index: 56

Total no. of publications	First/ Corresponding author	Co-author	No. of Articles in Journals			No. of Book Chapters	No. of Books	No. of Article in Proceedings
			Scopus	WOS	Peer reviewed			
83	64	19	1	66	5	6	3	2

Publications in Journals, Books & Proceedings

(* - Corresponding author; #- Equal first author)

Single Author (4)

1. **Radhakrishnan R.*** 2019. Magnetic field regulates plant functions, growth and enhances tolerance against environmental stresses. **Physiology and Molecular Biology of Plants**.25 (5), 1107-119. (IF: 3.4).
2. **Radhakrishnan R.*** 2019. Exposure of magnetic waves stimulates rapid germination of soybean seeds by enzymatic regulation in cotyledons and embryonic axis. **Biocatalysis and Agricultural Biotechnology**. 20, 101273. (IF: 3.4).

3. **Radhakrishnan R.*** 2018. Seed pretreatment with magnetic field alters the storage proteins and lipid profiles in harvested soybean seeds. **Physiology and Molecular Biology of Plants**. 24 (2), 343-347(**IF: 3.4**).
4. **Radhakrishnan R.*** 2018. Introductory chapter: Need of bioherbicide for weed control. R. Radhakrishnan (ed.). *In: **Biological Approaches for Controlling Weeds***, IntechOpen publisher, London, United Kingdom. pp 1-3.

Two Authors (22=21 first author+ 1 co-author)

5. **Radhakrishnan R*** and K.H. Baek. 2017. Physiological and biochemical perspectives of non-salt tolerant plants during bacterial interaction against soil salinity. **Plant Physiology and Biochemistry** 116, 116-126 (**IF: 6.1**).
6. **Radhakrishnan R** and I.J. Lee. 2017. Foliar treatment of *Bacillus Methylophilicus* KE2 reprograms endogenous functional chemicals in sesame to improve plant health. **Indian Journal of Microbiology**. 57 (4), 409-415. (**IF: 2.1**).
7. **Radhakrishnan R** and I.J. Lee. 2016. Gibberellins producing *Bacillus methylophilicus* KE2 supports plant growth and enhances nutritional metabolites and food values of lettuce. **Plant Physiology and Biochemistry** 109, 181-189 (**IF: 6.1**).
8. **Radhakrishnan R** and I.J. Lee. 2015. *Penicillium*-sesame interactions: A remedy for mitigating high salinity stress effects on primary and defense metabolites in plants. **Environmental and Experimental Botany** 116, 47-60.(**IF: 4.5**).
9. **Radhakrishnan R** and I.J. Lee. 2014. Endogenous antioxidants and phytohormonal regulation induced by spermidine improve cucumber plant growth. **Pakistan Journal of Botany** 46(6), 2151-2156. (**IF: 0.9**).
10. **Radhakrishnan R*** and I.J. Lee. 2014. Effect of low dose of spermidine on physiological changes in salt stressed cucumber plants. **Russian Journal of Plant Physiology** 61(1), 90-96. (**IF: 1.1**).
11. **Radhakrishnan R** and I.J. Lee. 2013. Regulation of salicylic acid, jasmonic acid and fatty acids in cucumber (*Cucumis sativus* L.) by spermidine promotes plant growth against salt stress. **Acta Physiologiae Plantarum** 35, 3315–3322. (**IF: 2.4**).
12. **Radhakrishnan R*** and B.D. Ranjitha-Kumari. 2013. Protective role of pulsed magnetic field against salt stress effects in soybean organ culture. **Plant Biosystems** 147 (1), 135-140. (**IF: 1.6**).
13. **Radhakrishnan R** and I.J. Lee. 2013. Spermine promotes acclimation to osmotic stress by modifying antioxidant, abscisic acid, and jasmonic acid signals in soybean. **Journal of Plant Growth Regulation** 32 (1), 22-30. (**IF: 3.9**).
14. **Radhakrishnan R** and I.J. Lee. 2013. Ameliorative effects of spermine against osmotic stress through antioxidants and abscisic acid changes in soybean pods and seeds. **Acta Physiologiae Plantarum** 35, 263-269. (**IF: 2.4**).
15. **Radhakrishnan R*** and B.D. Ranjitha-Kumari. 2013. Influence of pulsed magnetic field on soybean seed germination, seedling growth and soil microbial population. **Indian Journal of Biochemistry and Biophysics** 50, 312-317.(**IF: 1.1**).
16. **Radhakrishnan R*** and B.D. Ranjitha-Kumari. 2012. Pulsed magnetic field: a contemporary approach offers to enhance plant growth and yield of soybean. **Plant Physiology and Biochemistry** 51, 139-144. (**IF: 6.1**).

17. **Radhakrishnan R*** and B.D. Ranjitha-Kumari. 2009. Variations in morphology, photosynthetic pigments and protein content of micropropagated soybean. **Journal of Scientific Transactions in Environment and Technovation** 3(2), 79-82.
18. **Radhakrishnan R** and B.D. Ranjitha-Kumari. 2009. Changes in protein content in micropropagated and conventional soybean plants (*Glycine max* (L.) Merr.). **World Journal of Agricultural Science** 5 (2), 186-189.
19. **Radhakrishnan R** and B.D. Ranjitha-Kumari. 2008. Morphological and agronomic evaluation of tissue culture derived Indian soybean plants. **Acta Agriculturae Slovenica** 91 (2), 391-396. **Scopus (IF: 0)**.
20. **Radhakrishnan R** and B.D. Ranjitha-Kumari. 2008. Effect of N-triacontanol alleviates the toxic effects of soil salinity in soybean. **Journal of Bioscience (currently Tropical Life Sciences Research)** 19 (2), 53–62.
21. Ranjitha-Kumari B.D and **R. Radhakrishnan**. 2008. Plant with biotic and abiotic factors interaction proteomics. B.D. Ranjitha-Kumari (ed.). **In: Plant Proteomics**, A.P.H.Publisher, New Delhi, India (ISBN: 978-8-13130-409-9), pp 119-155.
22. **Radhakrishnan R** and B.D. Ranjitha-Kumari. 2008. Sucellular proteomics. B.D. Ranjitha-Kumari (ed.). **In: Plant Proteomics**, A.P.H.Publisher, New Delhi, India (ISBN: 978-8-13130-409-9), pp 55-118.
23. **Radhakrishnan R** and B.D. Ranjitha-Kumari. 2007. Oxidative stress and reactive oxygen species (ROS) in plants. P.C. Trivedi (ed.). **In: Plant physiology- Current trends**, Pointer Publisher, Jaipur, India (ISBN-13: 978-8171325221), pp. 84-110.
24. **Radhakrishnan R** and B.D. Ranjitha-Kumari. 2007. Ameliorative effects of plant growth regulators in textile effluent treated ground nut (*Arachishypogaea* L.). **Bionotes**, 9 (4), 127-128.
25. **Radhakrishnan R** and B.D. Ranjitha-Kumari. 2007. Callus induction and plant regeneration of Indian soybean (*Glycine max* (L.) Merr. cv. CO3) via half seed explant culture. **Journal of Agricultural technology**3 (2), 287-297.

Three authors (10=8 first author + 1 corresponding author + 1 co-author)

26. Pugazhendhi A, **Radhakrishnan R*** and Duc P.A. 2019. *Curtobacterium* sp. MA01 generates oxidative stress to inhibit the plant growth. **Biocatalysis and Agricultural Biotechnology**. 20, 101274. **(IF: 3.4)**.
27. **Radhakrishnan R***, Alqarawi A.A and E.F. Abd_Allah. 2018. Bioherbicides: Current knowledge on weed control mechanism. **Ecotoxicology and Environmental Safety** 158, 131-138 **(IF: 6.2)**.
28. **Radhakrishnan R***, Hashem A, and E.F. Abd_Allah 2017. Bacillus: A biological tool for crop Improvement through bio-molecular changes in adverse environments. **Frontiers in Physiology** 8, 667 **(IF: 3.2)**.
29. **Radhakrishnan R[#]**, Park J.M[#] and I.J. Lee. 2016. *Enterobacter* sp. I-3, a bio-herbicide inhibits gibberellins biosynthetic pathway and regulates abscisic acid and amino acids synthesis to control plant growth. **Microbiological Research** 193, 132-139 **(IF: 6.1)**.
30. Kang S.M, **Radhakrishnan R** and I.J. Lee. 2015. *Bacillus amyloliquefaciens* subsp. *plantarum* GR53, a potent biocontrol agent resists *Rhizoctonia* disease on Chinese cabbage through hormonal and antioxidants regulation. **World Journal of Microbiology and Biotechnology** 31 (10) 1517-1527. **(IF: 4.0)**.
31. **Radhakrishnan R**, Khan A.L and I.J. Lee. 2013. Endophytic fungal pre-treatments to seeds alleviate salinity stress effects in soybean plants. **Journal of Microbiology** 51 (6), 850-857 **(IF: 3.3)**.
32. **Radhakrishnan R**, Leelapriya T and B.D. Ranjitha-Kumari. 2012. Effects of pulsed magnetic field treatment of soybean seeds on calli growth, cell damage, and biochemical changes under salt stress.

Bioelectromagnetics 33, 670-681. (IF: 1.8).

33. **Radhakrishnan R**, Ramachandran A and B.D. Ranjitha-Kumari. 2009. Rooting and shooting: dual function of thidazuron in *in vitro* regeneration of soybean (*Glycine max.* L). **Acta Physiologiae Plantarum** 31, 1213-1217. (IF: 2.4).
34. **Radhakrishnan R**, Varman P.A and B.D. Ranjitha-Kumari. 2008. Analytical tools in proteomics. B.D. Ranjitha-Kumari (ed.). **In: Plant Proteomics**, A.P.H. Publisher, New Delhi, India (ISBN: 978-8-13130-409-9), pp. 11-54.
35. **Radhakrishnan R**, Dharmaraj K and B.D. Ranjitha-Kumari. 2007. A comparative study on the physico chemical and bacterial analysis of drinking, borewell and sewage water in the three different places of Sivakasi. **Journal of Environmental Biology** 28 (1), 105-108. (IF: 0.6).

Multiple authors (44= 26 first/ corresponding/co-first author+ 18 co-author)

36. Perumal S, **Radhakrishnan R***, Sathasivam R, Arun M, Song J.S and S.U Park. 2023. Endophytes: A vital source of medicine – A review. **Tropical Journal of Pharmaceutical Research** 22 (5), 1133-1142 (IF: 0.6).
37. Saravanan K, Vidya N, Halka J, Preethi R.P., Appunu C, **Radhakrishnan R** and M. Arun. 2023. Exogenous application of stevioside enhances root growth promotion in soybean (*Glycine max* (L.) Merrill). **Plant Physiology and Biochemistry** 201, 107881 (IF: 6.1).
38. Sathasivam R, Choi M, **Radhakrishnan R**, Kwon H, Yoon J, Yang S.H., Kim J.K, Chung Y.S and S.U.Park. 2022. Effects of various *Agrobacterium rhizogenes* strains on hairy root induction and analyses of primary and secondary metabolites in *Ocimum basilicum*. **Frontiers in Plant Science** 13, 983776 (IF: 4.1).
39. Velankanni, Vinoth S, Mary TN, Arun M, **Radhakrishnan R** and P. Gurusaravanan. 2022. Extraction of bioactive compounds from seaweed *Dictyota Dichotoma* (Hudson) J.V. Lamouroux and assessment of its antioxidant activity. **Journal of Pharmaceutical Negative Results** 13 (10), 3528 – 3539 (IF: 0)
40. Sathasivam R, **Radhakrishnan R**, Kim J.K and S.U. Park. 2021. An update on biosynthesis and regulation of carotenoids in plants. **South African Journal of Botany** 140, 290-302. (IF: 2.7).
41. Vidya N, Saravanan K, Halka J, Kowsalya K, Preetha J.S.Y, Gurusaravanan P, **Radhakrishnan R**, Nanthini U.A.R and M. Arun. 2021. An insight into *in vitro* strategies for bioproduction of isoflavones. **Plant Biotechnology Reports** 15, 717-740. (IF: 1.7)
42. **Radhakrishnan R**, Ajithkumar P, Arun M, Sathasivam R, Sandhya S, Choi J.Y, Pradeep B.V and S.U. Park. 2021. An endophyte *Paenibacillus dendritiformis* strain APL3, promotes *Amaranthus polygonoides* L. sprout growth and their extract inhibits food-borne pathogens. **Plant Science Today**. 8 (4), 941-947. (IF: 0.7).
43. Sandhya S, **Radhakrishnan R***, Sathasivam R, Arun M, Packiaraj G and Park SU. 2021. Influence of endophytic bacterium, *Cellulosimicrobium* sp. FRR2 on plant growth of *Amaranthus campestris* L. and bacterial survival at adverse environmental conditions. **Journal of Pure and Applied Microbiology**. 15(4), 2288-2294. (IF: 0) (ESCI).
44. Nallal VUM, Padmini R, Ravindran B, Chang SW, **Radhakrishnan R**, Almoallim H.S.M, Alharbi S.A and M.Razia. 2021. Combined *in vitro* and *in silico* approach to evaluate the inhibitory potential of an underutilized allium vegetable and its pharmacologically active compounds on multidrug resistant *Candida* species. **Saudi Journal of Biological Sciences** 28, 1246-1256. (IF: 0).
45. Venkatachalam R, Kalimuthu K, Chinnadurai V, Saravanan M, **Radhakrishnan R**, Shanmuganathan R and A. Pugazhendhi. 2020. Various solvent effects on phytochemical constituent profiles, analysis of

- antioxidant and anti-diabetic activities of *Hopeaparviflora*. **Process Biochemistry** 89, 227-232. (IF: 3.7).
46. Anand V, Velayuthaprabhu S, Rengarajan R.L, Kumar P and R. Radhakrishnan. 2019. Bioactive Compounds of Guava (*PsidiumGuajava* L.). In: **Reference Series in Phytochemistry. Bioactive Compounds in Underutilized Fruits and Nuts**, Springer publisher, Cham (ISBN: 978-3-030-30182-8). pp. 503-527.
 47. Sathasivam R, **Radhakrishnan R***, Hashem A and E.F.Abd_Allah.2019. Microalgae metabolites: A rich source for food and medicine. **Saudi Journal of Biological Sciences**. 26, 709-722. (IF: 0).
 48. Vijayakumar K, Rengarajan R.L, **Radhakrishnan R**, Mathew S, Qadri I and A.V. Anand.2019. *Psidiumguajava* leaf extracts and their quercetin protect HepG2 cell lines against CCL₄ induced cytotoxicity. **Indian Journal of Clinical Biochemistry**. 34 (3), 324-329 (IF: 1.5).
 49. Divya N, Rengarajan R.L, **Radhakrishnan R**, Abd_Allah E.F, Alqarawi A.A, Hashem A, Manikandan R and A.V. Anand. 2018. Phytotherapeutic efficacy of the medicinal plant *Teminaliacatappa* L. **Saudi Journal of Biological Sciences** 26, 985-988. (IF: 0).
 50. Vijayakumar K,RengarajanR.L, **Radhakrishnan R** and A.V. Anand. 2018. Hypolipidemic effect of *Psidiumguajava* leaf extract against hepatotoxicity in rats. **Pharmacognosy magazine** 14(53), 4-8 (IF: 0.6).
 51. Hashem A, Alqarawi A.A, **Radhakrishnan R**, Al-Arjani A.F, Aldehaish H.A, Egamberdieva D and E.F. Abd_Allah. 2018. Arbuscularmycorrhizal fungi regulate the oxidative system, hormones and ionic equilibrium to trigger salt stress tolerance in *Cucumissativus* L. **Saudi Journal of Biological Sciences**. 25(6), 1102-1114(IF: 0).
 52. Bharathi V, Rengarajan R.L, **Radhakrishnan R**, Hashem A, Abd_Allah E.F, Alqarawi A.A and A.V. Anand. 2018. Effects of a medicinal plant *Macrotylomauniflorum* (Lam.) Verdc. formulation (MUF) on obesity-associated oxidative stress-induced liver injury. **Saudi Journal of Biological Sciences**. 25(6), 1115-1121 (IF: 0).
 53. Abd_Allah E.F, Alqarawi A.A, Hashem A, **Radhakrishnan R**, Al-Huqail A.A, Al-Otibi F.O.S, Malik J.A, Alharbi R.I and D. Egamberdieva. 2018. Endophytic bacterium *Bacillus subtilis*(BERA 71) improves salt tolerance in chickpea plants by regulating the plant defense mechanisms. **Journal of Plant Interactions**. 13(1), 37-44(IF: 2.6).
 54. Kim M.J[#], **Radhakrishnan R[#]**, Kang S.M, You Y.H, Jeong E.J, Kim J.G and I.J. Lee. 2017. Plant growth promoting effect of *Bacillus amyloliquefaciens* H-2-5 in crop plants and their influence on physiological changes in soybean under soil salinity. **Physiology and Molecular Biology of Plants** 23(3),571-580(IF: 3.4).
 55. Hashem A, Abd_Allah E.F, Alqarawi A.A, **Radhakrishnan R** and A. Kumar. 2017. Plant defense approach of *Bacillus subtilis* (BERA 71) against *Macrophomina phaseolina* (Tassi) Goid in mung bean. **Journal of Plant Interaction**.12 (1), 390-401(IF: 2.6).
 56. **Radhakrishnan R[#]**, Park J.M[#], Leel J, Abd_Allah E.F and A. Hashem. 2017. Bio-herbicide effect of *Enterobacter* sp. I-3 on weed seed germination and seedling growth. **Pakistan Journal of Botany**. 49(5), 1959-1963 (IF: 0.9).
 57. **Radhakrishnan R**, Sathasivam R, Rengarajan R and E.F. Abd_Allah.2017. Isolation and identification of charcoal rot disease causing agent in sesame and their growth inhibition by *Bacillus methylotrophicus* KE2. **Pakistan Journal of Botany**. 46(6), 2495-2497 (IF: 0.9).
 58. Arun M[#], **Radhakrishnan R[#]**, Ai T.N, Naing A.H, Lee I.J and C.K. Kim. 2016. Nitrogenous compounds enhance the growth of petunia and reprogram biochemical changes against the adverse effect of

- salinity. **Journal of Horticultural Science and Biotechnology** 91(6), 562-572 (IF: 1.7).
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1. Sathish S, Perumal S, Hariharan M and R. **Radhakrishnan R**. Formulation and assessment of organic fertilizer for fenugreek seedling growth. *National Conference on Chemical, Biological and medical sciences organized by Department of Biochemistry, Thanthai Periyar Government Arts & Science College, Tiruchirappalli on 7th March 2023. P.33.*
2. Perumal S, **Radhakrishnan R** and Hariharan M. Endophytes: Suitable Resource for Biomedical Industry and Agriculture. *National Conference on Advances in Microbial Biotechnology: Current Trends and Future Prospects organized by Department of Microbiology, Biotechnology and Food Technology, Bangalore University on 28-29th April 2022. P. 21.*
3. **Radhakrishnan R**, Menaga J and Ajithkumar P. Isolation and Identification of Endophytic Bacterium, *Bacillus Amyloliquefaciens* MR3 From Mentha Plants against Foodborne Pathogens. *National Seminar on Frontiers in*

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5. Sandhya S., Madhumithra S., Susmitha B and **Radhakrishnan R**. Influence of *Ficus religiosa* L. endophytes on plant growth and their survival at adverse environmental conditions. *One day National conference On Ecological impacts of Microbiome held at Bharathiar University, Coimbatore, Tamil Nadu, India on 24th Jan 2020.*
6. **Radhakrishnan R**, Vasanth. M., Nirmal Evangelin. J., Prasanth. R., Saranya. R., and Sandhya. S. Formulation and antimicrobial activity of herbal hand sanitizer. *National Level Seminar on the Novel Microbial Technologies for Sustainable Development (P. 87). Dr. G.R. Damodaran College of Science, Coimbatore, Tamil Nadu, India on 11-12th Oct 2019.*
7. **Radhakrishnan R**, Susmitha. B., Dharchana. T and Sandhya. S. Effect of microbial interaction on medicinally valuable compounds in plants. *National Seminar on Bioprospecting of Biodiversity for Agriculture and Medicine: Current Status and Future Prospectives (P. 71) held at Bharathiar University, Coimbatore, Tamil Nadu, India on 3-4th Oct 2019.*
8. **Radhakrishnan R**, Kang S.M, Park J.M, Lee S.M and I.J. Lee. *Bacillus methylophilus* KE2, a potent agent to improve the crop plants and food values. *National Conference on Advances in Food, Chemical and Biotechnology (P.1) held at Kongu Engineering College, Tamil Nadu, India on 12th Sep 2014.*
9. **Radhakrishnan R**. Participated in *One day seminar on Recent Trends in Chemical Signaling at Bharathidasan University, Trichy on 2nd February 2009.*
10. **Radhakrishnan R**. Participated in *National Conference on Trends in Plant-Microbe Interactions at Bharathidasan University, Trichy on 21 – 22nd January 2009.*
11. **Radhakrishnan R** and B.D. Ranjitha-Kumari. Influence of pulsed magnetic field on soybean (*Glycine max* L.) seed germination and physico-chemical properties of seed leachates. *National conference on Modern trends in plant in vitro biology at Bharathidasan University, Trichy on 5-6th January, 2009.*
12. **Radhakrishnan R**, Abdullah S.A, Raja G. and B.D. Ranjitha-Kumari. Modulatory changes of enzyme activity in salt stressed and salt alleviated *Glycine max* L. (Merr.) by growth regulator (n-triacontanol). *National seminar on Advances in Enzymology at Bharathidasan University, Trichy on 9-10th March, 2006.*
13. **Radhakrishnan R** and B.D. Ranjitha-Kumari. Toxic effects of soil salinity alleviated by growth regulator n-triacontanol under salt stressed Soybean. *National seminar on Advances in Plant Sciences at Bharathidasan University, Trichy on 24 - 25th February, 2006.*
14. **Radhakrishnan R** and B.D. Ranjitha-Kumari. Assessment of polluted water in Sivakasi. *National Conference on Environment and Sustainable Development at Bharathidasan University, Trichy on 16-17th February 2006.*
15. **Radhakrishnan R**. Participated in *National level Seminar on Special Lectures in Biosciences at Bharathidasan University, Trichy on 31st March to 1st April 2004.*

Participation in Faculty Development Programmes

1. **Radhakrishnan R**. I Think Biology. NPTEL Course. Score 65 % (12 weeks course) on 22-01-2024-21-04-2024.
2. **Radhakrishnan R**. A Five day Faculty Development Programme organized by Jamal Mohamed College (Autonomous), Trichy, Tamil Nadu on 05-06-2023 to 13-06-2023.
3. **Radhakrishnan R** "A One Day Orientation Programme on Gender and Socialisation" organized by Bharathidasan University in association with Jamal Mohamed College (Autonomous), Trichy, Tamil Nadu on 21-12-2022.
4. **Radhakrishnan R**. "Online Two-week Interdisciplinary Refresher Course on Advanced Research Methodology" organized by Ramanujan College, University of Delhi on 22-01-2022 to 05-02-2022.

5. **Radhakrishnan R.** Three Day Faculty Development Programme on “Lab to Land Transformation – Focus on Entrepreneurial Skill Development” organized by *Department of Zoology, Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu* on 20-09-2021 to 22-09-2021.
6. **Radhakrishnan R.** Three Day Faculty Development Programme on “Challenges in Microbiological Invention and Intellectual Property Rights” organized by *Department of Microbiology in association with IQAC, Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu* on 22-09-2021 to 25-09-2021.
7. **Radhakrishnan R.** Plastic Waste Management. **NPTEL/SWAYAM course.** Score 67 % (8 weeks course), 02-01-2021 to 31-03-2021.
8. **Radhakrishnan R.** FDP on “E-Content Development” organized by *Internal Quality Assurance Cell (IQAC), Jamal Mohamed College (Autonomous), Tiruchirappalli* on 30-06-2020 to 04-07-2020.
9. **Radhakrishnan R.** "National Level Online 7 - Day Faculty Development Programme on Revised Accreditation Framework (RAF) of NAAC – A Paradigm Shift for Strategic Enhancement of Higher Education in India organized by *Internal Quality Assurance Cell (IQAC), Rajapalayam Rajus' College, Rajapalayam* on 08-06-2020 to 15-06-2020.
10. **Radhakrishnan R.** International Webinar Series Faculty Development Programme on Contemporary and Advanced Research in Life Science organized by *Department of Microbiology, Karpagam Academy of Higher Education, Coimbatore* on 04-06-2020 to 05-06-2020.
11. **Radhakrishnan R. Online Induction Training/Orientation Programme.** Organized by *Ramanujan College, University of Delhi* on 04-06-2020 to 01-07-2020.
12. **Radhakrishnan R.** FDP on Outcome-Based Education. *Inpods* on 03-06- 2020.
13. **Radhakrishnan R.** Biopython-Faculty Development Programme organized by *Department of Botany, Jamal Mohamed College, Tiruchirappalli and Spoken Tutorial IIT Bombay* on 29-05-2020 to 30-05-2020.
14. **Radhakrishnan R.** Uncovering PIAZZA for Effective Teaching. Virtual Faculty Development Programme organized by *Department of Plant Biology and Biotechnology, Presidency College, Chennai* on 27-05-2020.
15. **Radhakrishnan R.** Institution's Innovation Council (IIC) Online Sessions to promote Innovation, IPR, Entrepreneurship, and Start-ups among HEIs organized by *IIC, MHRD's Innovation Cell, New Delhi* on 28-04-2020 to 22-05- 2020.
16. **Radhakrishnan R.** Orientation programme on MOOC's and e-Learning organized by *Library, Jamal Mohamed College (Autonomous), Tiruchirappalli* on 29-01-2020
17. **Radhakrishnan R.** Organic Farming for Sustainable Agriculture Production. **NPTEL Course.** Score 76 % (8 weeks course).

Participation in Webinars

1. **Radhakrishnan R.** National Webinar on Industrial Spirulina Production Technology. Department of Microbiology, Ayya Nadar Janaki Ammal College, Sivakasi on 2nd June 2021.
2. **Radhakrishnan R.** Live webinar on Marine Microbes - A Wonder of the World. Department of Microbiology in association with NSS and KAHE-IIC, Karpagam Academy of Higher Education, Coimbatore on 11th December 2020.
3. **Radhakrishnan R.** Live Webinar on Impact of Probiotics in combating COVID-19- A Potential Preventive Strategy. Department of Microbiology, Karpagam Academy of Higher Education, Coimbatore on 12th October 2020.
4. **Radhakrishnan R.** Webinar on Best Practices in Acquiring Scholarly Knowledge. Jamal Mohamed College (Autonomous), Tiruchirappalli on 16th August 2020.
5. **Radhakrishnan R.** Webinar on National Education Policy- 2020. Jamal Mohamed College (Autonomous), Tiruchirappalli on 8th August 2020.
6. **Radhakrishnan R.** National Webinar Lecture Series on “Biosciences”. Department of Botany, Jamal Mohamed College (Autonomous), Tiruchirappalli on 13- 15th July 2020

7. **Radhakrishnan R.** International Webinar Lecture Series on “Biological Sciences”. Department of Botany, Jamal Mohamed College (Autonomous), Tiruchirappalli on 6- 8th July 2020
8. **Radhakrishnan R.** International Webinar on Life Sciences. PG and Research Department of Botany, Government Arts College (Autonomous), Karur, Tamilnadu on 22 – 24th June 2020
9. **Radhakrishnan R.** Webinar on "Tools for Designing E-Content". IQAC and General Library, quaid-E-Millath Government College for Women (Autonomous), Chennai on 17th June 2020.
10. **Radhakrishnan R.** Webinar Lecutre Series on Knowledge Access and Sharing: Challenges and Opportunities. Department of Library and Information Science, Bharathidasan University, Tiruchirappalli on 8 – 14th June 2020.
11. **Radhakrishnan R.** Webinar on Think Globally, Act Locally: Applicability to Educational Perspectives. Bharathiar University Arts and Science College, Modakurichi on 5th June 2020.
12. **Radhakrishnan R.** Webinar on Microbiologist in Every day. Biocon Academy and Biotechnika Info Labs Pvt Ltd, Bangalore on 3rd May 2020.
13. **Radhakrishnan R.** Indo-UK Virtual Conference on Current Innovations and the Future of Therapeutic Developments. Vellore Institute of Technology, Vellore, Tamilnadu on 1-3rd June 2020.
14. **Radhakrishnan R.** Webinar on Traditional Medicine. Department of Botany, SadakathullahAppa College, Tirunelveli, Tamil Nadu on 30th May 2020.
15. **Radhakrishnan R.** Webinar on The Crux of Online Teaching for Low Internet Bandwidth. Human Resource Development Centre and Internal Quality Assurance Cell, Academy of Maritime Education and Training (AMET), Chennai on 24th May 2020.
16. **Radhakrishnan R.** Webinar on Novel Insight into Plant Space Biology. Department of Botany, A.V.C. College (Autonomous), Mayiladuthurai on 21st May 2020.
17. **Radhakrishnan R.** Webinar on Human Origin, Health and Diseases. CAS Botany, University of Madras, Chennai on 23rd May 2020.
18. **Radhakrishnan R.** Webinar on Ecosystem Services and Management. Department of Botany, Alagappa University, Karikudi on 24 – 26th May 2020.
19. **Radhakrishnan R.** Webinar on Application of Molecular Markers in Plant systematics. Department of Botany, V.O. Chidambaram College, Thoothukudi on 23rd May 2020.
20. **Radhakrishnan R.** Two day national level webinar on Recent Trends in Biological Science. Department of Biochemistry, SreeNarayana Guru College, Coimbatore on 21 – 22nd May 2020.

Participation in Other Programmes

1. **Radhakrishnan R.** Intellectual Property Rights and Prior Art Search for Research Development. IPR Cell, Jamal Mohamed College (Autonomous), Tiruchirappalli 5th February 2020.

Participation in Training/ Workshops

1. **Radhakrishnan R.** Attended a National Training on “*Techniques for Isolation and Characterization of Bacterial Endophytes and its Application in Agriculture*” held at ICAR-NBAIM, Mau, India on 15 to 22nd December 2023.
2. **Radhakrishnan R.** Attended a workshop on “*Training programme on Bio fertilizers and Bio control agents in Forestry*” held at “*Institute of Forest Genetics and Tree Breeding*” Coimbatore, Tamilnadu, India on 18 to 20th December 2019.
3. **Radhakrishnan R.** Attended a workshop on “*One day Workshop on Professional Ethics and Plagiarism*” held at “*Sankara College of Science and Commerce*” Coimbatore, Tamilnadu, India on 31st August 2019.
4. **Radhakrishnan R.** Attended a workshop on “*National Seminar cum Workshop on Genomics and Proteomics 2019*” held at *Alagappa University,* Karaikudi, Tamilnadu, India on 06-08th February 2019.
5. **Radhakrishnan R.** Attended a workshop on “*Routine laboratory Safety Training Course*” held at *Environmental Science and Technology Institute*” at Kyungpook National University, Daegu, South Korea on 23th August 2011.

6. **Radhakrishnan R.** Attended a National workshop on “*Scholarly Information Access*” held at Bharathidasan University, Tiruchirappalli, India on 23 - 24th October 2009.
7. **Radhakrishnan R.** Attended a workshop on “*Access to e- Resources and Digital Library Consortium*” held at Bharathidasan University, Tiruchirappalli, India on 1 - 2th August, 2008.
8. **Radhakrishnan R.** Attended a workshop on “*Patent Awareness*” held at St. Joseph’s College, Tiruchirappalli, on 7th April, 2006.
9. **Radhakrishnan R.** Attended a workshop on “*Modern techniques in studies of abiotic stress response and stress inducible genes in plants*” held at Institute of Life Science, Nalco Squar, Bhubaneswar, India on 21-24th March, 2006.

PG and UG Botany Student’s Projects Guided

PG Student’s Project

S.No	Name	Title of Dissertation	Year of Award
1.	R. Jagan (22PBO009)	Survey of Medicinal Plants in Viralimalai Village of Pudukkottai Region	2024
2.	R. Jen Antony (22PBO010)	Medicinal Plant Survey in Narthamalai, Pudukkottai district, Tamil Nadu, India	2024
3.	M. Sathish (21PBO007)	Survey of Medicinal Plants in Oruvandur Pudur Village of Namakkal Region	2023
4.	R. Ramakrishnan (20PBO016)	Characterization of <i>Phyla nodiflora</i> .L Endophytic Bacteria for Plant Growth Promotion and Abiotic Stress Tolerance	2022
5.	S. Aravinthan (20PBO015)	Isolation and Characterization of Endophytic Bacteria Residing <i>Aloe vera</i> (L.) For Green Gram Plant Growth and Abiotic Stress Tolerance	2022
6.	Vijayakumar (19PBO022)	Antibacterial activity of <i>Cassia fistula</i> L.:an important ethnomedicinal plant	2021
7.	C. Vigneshwaran (19PBO021)	Antimicrobial activity of <i>Amaranthus gangeticus</i>	2021
8.	J. Veera Ragavan (19PBO020)	Antibacterial Activity of Crude Leaf Extract of <i>Solanum nigrum</i>	2021

UG Student’s Project

S.No	Name	Title of Dissertation	Year of Award
1.	S. Naveen Kumar (21UBO019) Benny Yohannan (21UBO021)	Plant growth promoting activity of endophytic bioformulations on soybean (<i>Glycine max</i> L.) plant	2024
2.	M. Aakash (20UBO027) R. K. Arjun (20UBO028) S. Sivakumar (20UBO029)	Nutraceutical Properties of Soybean Sprouts under Salt and Vinegar	2023

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|----|---|---|------|
| | M. Christian
Roshan
(20UBO030) | | |
| 2. | A. Mohamed
Nowfil
(19UBO030)
M. Mohammed
Majith
(19UBO031)
R. Mukilan
(19UBO032)
A. Najubudeen
(19UBO033)
M. Prabakaran
(19UBO034) | Applications of Table Salt and Vinegar on Green gram and Cowpea
Sprouts Growth | 2022 |
| 3. | S. Sarveswaran
(18UA4631)
M. Satham Hussain
(18UA4632)
M. Sathish
(18UA4633)
R. Sriram
(18UA4635)
K. Sugumaran
(18UA4636) | Formulation and Assessment of Organic Fertilizer for Fenugreek
Seedling Growth | 2021 |

Student Internship Training Programme under by DST-SERB-Core Research Grant:

Mr. M. Ashok, II M.Sc Microbiology (2023-2024), Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi, Tamil Nadu received internship training from 01.11.2023 to 28.12.2023 in the Department of Botany, Jamal Mohamed College (Autonomous), Tiruchirappalli, Tamil Nadu.

-----*updated as on July 2024*-----