

Curriculum Vitae

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

Assistant Professor, P.G and Research Department of Botany
Jamal Mohamed College (Autonomous)
Affiliated to Bharathidasan University
Tiruchirappalli, Tamil Nadu- 620020, India
Mbbile no: +918778367211
Email: rkbot@jmc.edu, ramradhakrish@gmail.com



World's top 2% scientists for the year 2020 by Stanford University

World's top 2% scientists for the year 2020 by Stanford University	Position of Dr. R. Radhakrishnan, JMC
World Rank	71,090
Indian Rank	728
Tamil Nadu State Rank	91
Central and State - Arts and Science Universities in Tamil Nadu Rank	23
Bharathidasan University, Tiruchirappalli Rank	2
State Arts and Science Colleges in Tamil Nadu Rank	2
Arts and Science Colleges Under Bharathidasan University, Tiruchirappalli, Tamil Nadu Rank	1

References:

Link: <https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3>

Indian Researchers in Stanford University's Top 2% Most Influential Scientists List for the Year 2020
<https://insights2techinfo.com/indian-researchers-in-stanford-universitys-top-2-most-influential-scientists-list-for-the-year-2020/>

Main author publications: 63/ 79

Cumulative impact factor: 168, *Google Scholar citations:* 3754; *h-index:* 33, *i10-index:* 52

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			
79	63	16	1	62	5	6	3	2

Research Profile in Websites

Researcher ID: A-2295-2019 <https://publons.com/researcher/1804792/ramalingam-radhakrishnan/>

Scopus ID: 36852283800 <https://www.scopus.com/authid/detail.uri?authorId=36852283800>

Orcid ID: 0000-0003-4972-7967 <https://orcid.org/0000-0003-4972-7967>

Google Scholar ID: uJE17EQAAAAJ <https://scholar.google.co.kr/citations?user=uJE17EQAAAAJ&hl=en>

Research Gate ID: https://www.researchgate.net/profile/Ramalingam_Radhakrishnan3

Vidwan ID: 231193 <https://vidwan.inflibnet.ac.in/myprofile>

Principle Investigator of the Projects

Major Project : Core Grant 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

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

Research Area

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

Educational Qualification

2005- 2010 : Doctoral (Ph.D. Plant Science) Degree, Bharathidasan University, Tiruchirappalli, TN

2002- 2004 : Post Graduate (M.Sc. Botany) Degree, Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi (Affiliated to Madurai Kamaraj University, Madurai), TN

1999- 2002 : Under Graduate (B.Sc. Botany) Degree, Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi (Affiliated to Madurai Kamaraj University, Madurai), TN

Academic (Teaching and Research) Experiences

Assistant Professor : P.G and Research Department of Botany, Jamal Mohamed College (Jan 2020 – Till date) (Autonomous), Tiruchirappalli, Tamil Nadu, India

Assistant Professor : Department of Microbiology, Karpagam Academy of Higher Education, (Jun 2018-Jan 2020) Coimbatore, Tamil Nadu, India.

Assistant Professor : Department of Biotechnology, Yeungnam University, Gyeongsan, South (International faculty) Korea (Mar 2016 – Feb 2018)

Contract Professor : School of Applied Biosciences, Kyungpook National University, Daegu, South Korea (Apr 2015 –Feb 2016)

Post-Doctoral Researcher : School of Applied Biosciences, Kyungpook National University, Daegu, South Korea (Feb 2014 – Mar 2015)

Post-Doctoral Researcher : National Institute of Crop Science, RDA, Miryang, South Korea (Feb 2012- Jan 2014)

Post-Doctoral Researcher : School of Applied Biosciences, Kyungpook National University, Daegu, South Korea (Feb 2011 – Jan 2012)

Abroad visits

Malaysia	3 rd International Conference on Applied Life Sciences held at University Kebangsaan Malaysia, Malaysia on September 2014
Malaysia	Fundamental Science Congress held at University Putra Malaysia, Malaysia on August 2014
Japan	Research discussion and lab visit to Yamaguchi University, Japan on February 2012
South Korea	Post-Doctoral Research Programme, South Korea (February 2011- February 2018)
China	2 nd International Symposium on Sustainable Agriculture for Subtropical Regions (ISSASR-2) held at Institute of Subtropical Agriculture, Changsha, China on September 2010 (Financial support from CAS, China)

Membership in Professional 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

Editorial Member

- Editor, Journal of Pure and Applied Microbiology : <https://microbiologyjournal.org/>

Reviewer

1. Scientific Report (**Nature**)
2. Bioelectromagnetics (**Wiley**)
3. Plant Physiology and Biochemistry (**Elsevier**)
4. PhysiologiaPlantarum (**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**)

Other Academic Activities/ Responsibilities

1. **Board of Studies Member** for B.Sc., M.Sc. and M.Phil. (Botany) courses in Jamal Mohamed College, Tiruchirappalli from 2020 to till date.
2. **Deputy Departmental Coordinator, DBT Star College Scheme**, Jamal Mohamed College, Tiruchirappalli from 2020 to 2022.
3. **Member, Intellectual Property Rights Cell**, Jamal Mohamed College, Tiruchirappalli from 2021 to till date.
4. **Vice President of Botany Association**, Jamal Mohamed College, Tiruchirappalli from 2021 to 2022.
5. **Member, Student Monitoring Committee**, Jamal Mohamed College, Tiruchirappalli from 2021 to till date.

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: 3.023).
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: 0; ESCI).
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: 3.023).
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: 5.437).
6. **Radhakrishnan R** and I.J. Lee. 2017. Foliar treatment of *Bacillus Methylophilus* KE2 reprograms endogenous functional chemicals in sesame to improve plant health. **Indian Journal of Microbiology**. 57 (4), 409-415. (IF: 0).
7. **Radhakrishnan R** and I.J. Lee. 2016. Gibberellins producing *Bacillus methylotrophicus* KE2 supports plant growth and enhances nutritional metabolites and food values of lettuce. **Plant Physiology and Biochemistry** 109, 181-189 (IF: 5.437).

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: 6.028**).
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: 1.101**).
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: 1.419**).
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: 2.736**).
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: 1.781**).
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: 4.640**).
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: 2.736**).
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: 1.476**).
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: 5.437**).
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. Subcellular 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 (*Arachis hypogaea* 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: 0; ESCI).
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: 7.129).
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: 4.755).
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: 5.070).
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: 4.253).
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: 2.902).
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: 1.848).
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: 2.736).
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; ESCI).

Multiple authors (40= 26 first/ corresponding/co-first author+ 14 co-author)

36. 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: 3.111).
37. 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: 2.496)
38. **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)(ESCI).
39. 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).
40. 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: 4.052).
41. 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 *Hopea parviflora*. **Process Biochemistry** 89, 227-232. (IF: 4.885).
42. Anand V, Velayuthaprabhu S, Rengarajan R.L, Kumar P and **R. Radhakrishnan**. 2019. Bioactive Compounds of Guava (*Psidium Guajava* 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.
43. 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: 4.052).
44. Vijayakumar K, Rengarajan R.L, **Radhakrishnan R**, Mathew S, Qadri I and A.V. Anand. 2019. *Psidium guajava* leaf extracts and their quercetin protect HepG2 cell lines against CCL₄ induced cytotoxicity. **Indian Journal of Clinical Biochemistry**. 34 (3), 324-329 (IF: 0; ESCI).
45. 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: 4.052).
46. Vijayakumar K, Rengarajan R.L, **Radhakrishnan R** and A.V. Anand. 2018. Hypolipidemic effect of *Psidium guajava* leaf extract against hepatotoxicity in rats. **Pharmacognosy magazine** 14(53), 4-8 (IF: 0.948).
47. Hashem A, Alqarawi A.A, **Radhakrishnan R**, Al-Arjani A.F, Aldehaish H.A, Egamberdieva D and E.F. Abd_Allah. 2018. Arbuscular mycorrhizal 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: 4.052).
48. 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: 4.052).
49. 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: 4.029).
50. Kim M.J[#], **Radhakrishnan R[#]**, Kang S.M, You Y.H, Jeong E.J, Kim J.Gand 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: 3.023).
51. Hashem A, Abd_Allah E.F,AlqarawiA.A, **RadhakrishnanR**and A. Kumar. 2017. Plant defense approach of *Bacillus subtilis*(BERA 71) against *Macrophominaphaseolina*(Tassi) Goid in mung bean. **Journal of Plant Interaction**.12(1), 390-401(IF: 4.029).
52. **Radhakrishnan R[#]**, ParkJ.M[#], Leel.J, Abd_AllahE.Fand 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: 1.101).
53. **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: 1.101).
54. 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: 1.918).
55. Kang S.M[#], **Radhakrishnan R[#]**, You Y.H, Lee K.E, Kim J.H, Joo G.J, Kim J.G and I.J. Lee. 2016. Mustard and Chinese cabbage plant growth promotion by optimal-medium-cultured *Acinetobactercalcoaceticus* SE370. **Journal of Pure and Applied Microbiology** 10(3), 1693-1699. (IF: 0; ESCI).
56. Lee S.M[#], **Radhakrishnan R[#]**, Kang S.M, Kim J.H, Moon B.K, Yoon B.W and I.J. Lee. 2015. Phytotoxic mechanisms of bur cucumber seed extracts on lettuce with special reference to analysis of chloroplast proteins, phytohormones and nutritional elements. **Ecotoxicology and Environmental Safety** 112, 230-237. (IF: 7.129).
57. Kang S.M[#], **Radhakrishnan R[#]**, Lee S.M, Park Y.G, Kim A.Y, Seo C.W and I.J. Lee. 2015. *Enterobacter* sp. SE992-induced regulation of amino acids, sugars, and hormones in cucumber plants improves salt tolerance. **Acta Physiologiae Plantarum** 37, 149. (IF: 2.736).
58. Lee K.E[#], **Radhakrishnan R[#]**, Kang S.M, You Y.H, Joo G.J, Lee I.J, Ko J.H and J.H. Kim.2015. *Enterococcus faecium* LKE12 cell-free-extract accelerates host plant growth via gibberellins and indole-3-acetic acid secretion. **Journal of Microbiology and Biotechnology** 25 (9), 1467-1475 (IF: 3.277).

59. Kang S.M[#], **Radhakrishnan R[#]**, You Y.H, Khan A.L, Park J.M, Lee S.M and I.J. Lee. 2015. Cucumber performance is improved by inoculation with plant growth promoting microbes. **Acta Agriculturae Scandinavica, Section B-Soil & Plant Science** 65 (1), 36-44. **(IF: 1.931)**.
60. Park J.M[#], **Radhakrishnan R[#]**, Kang S.M and I.J. Lee. 2015. IAA producing *Enterobacter sp.* I-3 as a potent bio-herbicide candidate for weed control: A special reference with lettuce growth inhibition. **Indian Journal of Microbiology** 55 (2), 207-212. **(IF: 0)**.
61. Kang S.M[#], **Radhakrishnan R[#]**, Lee K.E, You Y.H, Ko J.H, Kim J.H and I.J. Lee. 2015. Mechanism of plant growth promotion elicited by *Bacillus sp.* LKE15 in oriental melon. **Acta Agriculturae Scandinavica, Section B-Soil & Plant Science** 65 (7) 637-647. **(IF: 1.931)**.
62. Kang S.M[#], **Radhakrishnan R[#]**, You Y.H, Khan A.L, Lee K.E, Lee J.D and I.J. Lee. 2015. *Enterobacter asburiae* KE17 association regulates physiological changes and mitigates the toxic effects of heavy metals in soybean. **Plant Biology** 17, 1013-1022. **(IF: 3.877)**.
63. **Radhakrishnan R**, Khan A.L, Kang S.M and I.J. Lee. 2015. A comparative study of phosphate solubilization and the hostplant growth promotion ability of *Fusarium verticillioides* RK01 and *Humicola sp.* KNU01 under salt stress. **Annals of Microbiology** 65, 585-593. **(IF: 3.168)**.
64. Kang S.M[#], **Radhakrishnan R[#]**, Khan A.L, Kim M.J, Park J.M, Kim B.R, Shin D.H and I.J. Lee. 2014. Gibberellin secreting rhizobacterium, *Pseudomonas putida* H-2-3 modulates the hormonal and stress physiology of soybean to improve the plant growth under saline and drought conditions. **Plant Physiology and Biochemistry** 84, 115-124. **(IF: 5.437)**.
65. Kang S.M[#], **Radhakrishnan R[#]**, You Y.H, Joo G.J, Lee I.J, Lee K.E and J.H. Kim. 2014. Phosphate solubilizing *Bacillus megaterium* mj1212 regulates endogenous plant carbohydrates and amino acids content to promote mustard plant growth. **Indian Journal of Microbiology** 54 (4), 427-433. **(IF: 0)**.
66. **Radhakrishnan R**, Kang S.M, Park J.M, Lee S.M and I.J. Lee. 2014. Isolation and identification of plant growth promoting *Penicillium* species and their effect on amino acids to promote sesame plant growth. **Proceedings of Regional Fundamental Science Congress** held at University Putra Malaysia, Malaysia on 19-20th Aug 2014 (pp.17-19).
67. **Radhakrishnan R**, Kang S.M, Park J.M, Lee S.M and I.J. Lee. 2014. An evaluation of resistance to *Fusarium* disease in Korean sesame (*Sesamum indicum* L.) germplasm. **Proceedings of 3rd International Conference on Applied Life Sciences** held at University Kebangsaan Malaysia, Malaysia on 18-20th Sep 2014 (pp.27-30).
68. **Radhakrishnan R**, Kang S.M, Baek I.Y. and I.J. Lee. 2014. Characterization of plant growth-promoting traits of *Penicillium* species against the effects of high soil salinity and root disease. **Journal of Plant Interactions** 9(1), 754-762. **(IF: 4.208)**.
69. **Radhakrishnan R**, Shin J.H, Choo Y.S, Kim J.G and I.J. Lee. 2014. Studies on toxic effects of nitrogenous compound, putrescine and spermine on cucumber plant growth. **Journal of Environmental Biology** 35(1), 247-251. **(IF: 0; ESCI)**.
70. **Radhakrishnan R**, Pae S.P, Kang S.M, Lee B.K, Lee I.J. and I.Y. Baek. 2014. An evaluation of amino acid, fatty acid and isoflavone composition in Korean peanut (*Arachis hypogaea* L.) seeds to improve the nutritional quality of breeding lines. **Applied Biological Chemistry**. 57(3), 301-305. **(IF: 3.206)**.
71. **Radhakrishnan R**, Pae S.B, Kang S.M, Lee I.J and I.Y. Baek. 2014. Parental effects on nutritional

and antioxidants constituents in seeds of peanut cv. Boreom1. **Journal of Crop Science and Biotechnology** 17(1), 35-39.(IF: 0; ESCI).

72. **Radhakrishnan R**, Pae S.B, Shim K.B and I.Y. Baek. 2013. *Penicillium* sp. mitigates Fusarium-induced biotic stress in sesame plants. **Biotechnology Letters** 35(7), 1073-1078. (IF: 2.716).
73. **Radhakrishnan R**, Shim K.B, Lee B.W, Hwang C.D, Pae S.B, Park C.H, Kim S.U, Lee C.K and I.Y. Baek. 2013. IAA producing *Penicillium* sp. NICS01 triggers plant growth and suppresses fusarium induced oxidative stress in sesame (*Sesamum indicum* L.). **Journal of Microbiology and Biotechnology** 23(6), 856-863. (IF: 3.277).
74. **Radhakrishnan R**, Pae S.B, Lee B.K and I.Y. Baek. 2013. Evaluation of luteolin from shells of Korean peanut cultivars for industrial utilization. **African Journal of Biotechnology** 12 (28), 4477-4480.(IF: 0; ESCI).
75. Khan A.L, Hamayun M, **Radhakrishnan R**, Waqas M, Kang S.M, Kim Y.H, Shin J.H, Choo Y.S, Kim J.G and I.J. Lee. 2012. Mutualistic association of endophyte *Paecilomyces formosus* LHL10 offered membrane stability and thermotolerance to *Cucumis sativus*. **Antonie Van Leeuwenhoek International Journal of General and Molecular Microbiology** 101, 267-279. (IF: 2.158).
76. Khan A.L, Hamayun M, Ahmad N, Hussain J, Kang S.M, Kim Y.H, Adnan M, Tang H, Waqas M, **Radhakrishnan R**, Park E.S and I.J. Lee. 2011. Salinity stress resistance offered by endophytic fungal interaction between *Penicillium minioluteum* LHL09 and *Glycine max.* L. **Journal of Microbiology and Biotechnology** 21(9), 893–902. (IF: 3.277).

Books (Single Author: 2, Two Authors: 1)

77. **Radhakrishnan R**. 2021. **Mycorrhizal Fungi Utilization in Agriculture and Forestry** (Ed.), IntechOpen publisher, London, United Kingdom. ISBN 978-1-83881-942-2.
78. Mirmajlessi SM* and **R. Radhakrishnan*** 2020. **Biostimulants in Plant Science** (Ed). IntechOpen publisher, London, United Kingdom. pp. 1-162. ISBN 978-1-83880-162-5.
79. **Radhakrishnan R.***2018. **Biological approaches for controlling weeds** (Ed.), IntechOpen publisher, London, United Kingdom. pp 1-88. ISBN No: 978-1-78923-655-2.

Programmes Organized

- **Radhakrishnan R** (ORGANIZING COMMITTEE MEMBER). National Webinar on Molecular Evolution, Taxonomy and Ecology. Jamal Mohamed College (Autonomous), Tiruchirappalli on 16-01-2022.
- **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.
- **Radhakrishnan R**(ORGANIZING SECRETARY). Botany Association Inauguration Function 2021-2022 on 14th September 2021
- Bukhari S and **Radhakrishnan R**(ORGANIZING SECRETARY). An Entrepreneurial Development Program(EDP): Opportunities in Mariculture on 28th to 29th September 2021

Paper Presentation in International & National Conferences

International Conferences (32= 14 First author; 18 Co-author)

1. **Radhakrishnan R** and Sandhya S. Bioherbicidal activity of *Curtobacterium spp.* MA01 against petunia plant growth. *First International Conference on Sustainable Development in Energy & Environment* held at Kamaraj College of Engineering and Technology, Tamil Nadu, India P. 77, on 18-20th July 2019
2. Lee K.E, **Radhakrishnan R**, Kang S.M, Ko J.H and J.H. Kim. Characterization of plant growth promoting traits of *Enterobacter ludwigii* GAK2 in silica (Si) supplemented soil. *KMB 2015 42nd Annual Meeting and International Symposium*. P.176 on 24-26th Jun 2015.
3. Park Y.G, Kang S.M, Lee S.M, Kim A.H, Seo C.W, **Radhakrishnan R** and I.J. Lee. Application of phytohormones producing *Bacillus aryabhatai* SRB02 on soil can stimulate soybean plant growth during high temperature. *KMB 2015 42nd Annual Meeting and International Symposium*. P.181 on 24-26th Jun 2015.
4. Kang S.M, **Radhakrishnan R**, Lee K.E, Lee S.M, Park Y.G, Kim A.Y, Seo C.W and I.J Lee. Characterization of plant growth promoting potential of *Bacillus sp.* LKE15 culture filtrate on host plants via phytohormonal interaction. *Korean Journal of Horticultural Science and Technology*. 33 (Suppl 1): P.110 on May 2015.
5. Kang S.M, **Radhakrishnan R**, Lee K.E and I.J Lee. Minerals solubilization and gibberellins production traits of *Burkholderia abnormis* CS4-2 and *Liberibacter solanaceae* MO1 promote rice plant growth. *The 48th MSK Annual Meeting and . 32 (Suppl 2): P.57 on Apr 2015.*
6. Kang S.M, **Radhakrishnan R**, Park J.M, Lee S.M and I.J Lee. *Bacillus amyloliquefaciens* GR53 prevents Rhizoctonia disease on Chinese cabbage. *Korean Journal of Horticultural Science and Technology*. 32 (Suppl 2): P.57 on Oct 2014.
7. **Radhakrishnan R**, Kang S.M, Park J.M, Lee S.M and I.J. Lee. Isolation and identification of plant growth promoting *Penicillium* species and their effect on amino acids to promote sesame plant growth. *Regional fundamental Science Congress (P.17-19) held at University Putra Malaysia, Malaysia on 19-20th Aug 2014.*
8. **Radhakrishnan R**, Kang S.M, Park J.M, Lee S.M and I.J. Lee. Differential expression of *Penicillium* and *Fusarium* fungal interaction with three peanut (*Arachis hypogaea* L) varieties. *International Conference On "Agriculture, Forestry, Horticulture, Aquaculture, Animal Sciences, Food Technology, Biodiversity and Climate Change: Sustainable Approaches (P. 41) held at Jawaharlal Nehru University, New Delhi, India on 30- 31st Aug 2014.*
9. **Radhakrishnan R**, Kang S.M, Park J.M, Lee S.M and I.J. Lee. An evaluation of resistance to *Fusarium* disease in Korean sesame (*Sesamum indicum* L.) germplasm. *3rd International Conference on Applied Life Sciences (P.27-30) held at University Kebangsaan Malaysia, Malaysia on 18-20th Sep 2014.*
10. Kang S.M, **Radhakrishnan R**, Park J.M, Lee S., Shahzad R and I.J Lee. *Bacillus megaterium* mj1212 involves in phosphate solubilization and plant growth enhancement in mustard plant. 2014 Annual Spring Conference of the Korean Society for Horticultural Science. *Korean Journal of Horticultural Science and Technology*. 32 (Suppl 1): P.64 on May 2014.
11. **Radhakrishnan R**, Pae S.B, Lee B.Y, Oh K.W, Lee M.H and I.Y. Baek. A study of amino acid and fatty acid concentration in Korean peanut (*Arachis hypogaea* L.) seeds for improving the nutritional quality of breeding lines. *The Korean Society of Crop Science (P. 146) on 17-18th October 2013.*
12. **Radhakrishnan R**, Pae S.B, Park C.H, Hwang C.D, Lee C.H, Lee M.H and I.Y. Baek. An assessment of diversity of isoflavones concentration in Korean peanut (*Arachis hypogaea* L.) seeds. *International Conference on Technological Advances in Super Foods for Health Care (P.49) held on 3-4th May 2013.*
13. **Radhakrishnan R**, Pae S.B, Park C.H, Lee B.K, Kim S.U, Kim, M.S and I.Y. Baek. A nutritional evaluation and comparative study on breeding and parental varieties of Korean peanuts (*Arachis hypogaea* L.).

International Conference on Technological Advances in Super Foods for Health Care (P.55) held on 3-4th May 2013.

14. Pae S.B, Lee M.H, Park C.H, **Radhakrishnan R**, Kim S.U, Lee C.K, Hwang C.D, Lee B.G and I.Y. Baek. A study on variation of luteolin content in peanut shell harvested in different years. *The Korean Society of Crop Science (P. 143) on 2-3rd May 2013.*
15. Shim K.B, Hwang C.D, Kim S.U, Pae S.B, Baek I.Y and **R. Radhakrishnan**. Effect of potassium phosphate on the control of phytophthora blight of sesame. 2012 *International Symposium on Current Status and Prospects of Environment-Friendly Agriculture in Asian Region (P. 55) on 11-12th October 2012.*
16. Shim K.B, Hwang C.D, Pae S.B, Kim S.U, Lee C.K, Park C.H, I.Y. Baek, **Radhakrishnan R** and J.K. Lee. Development of black sesame variety 'Dahuck' with disease resistance, high yield potential. Innovative biotechnological tools for plant breeding. *The Korean Society of Breeding Science (P. 43) on 5-6th July 2012.*
17. Shim K.B, Hwang C.D, Pae S.B, Kim S.U, Lee M.H, Park C.H, Baek I.Y, **Radhakrishnan R** and N.G. Kim. Development of new sesame cultivation system adaptable to two times harvest in one year. *The Korean Society of Crop Science (P. 86) on 19-20th April 2012.*
18. **Radhakrishnan R**, Shim K.B, Pae S.B, Hwang C.D, Kim S.U and I.Y. Baek. Selection of plant growth-promoting fungi to enhance the plant growth of high yielding sesame (*Sesamum indicum* L.). *The Korean Society of Crop Science (P.94) on 19-20th April 2012.*
19. **Radhakrishnan R**, Shim K.B, Hwang C.D, Pae S.B and I.Y. Baek. Seed pretreatments with fungi influence on germination, growth and protein content in disease susceptible *Sesamum indicum* (L.). *The Korean Society of Crop Science (P.95) on 19-20th April 2012.*
20. Pae S.B, Hwang C.D, Kim S.U, Shim K.B, **Radhakrishnan R**, Lee M.H, Park C.H and I.Y. Baek. Distribution of oleic acid among different combinations in F2 generation. *The Korean Society of Crop Science (P.144) on 19-20th April 2012.*
21. Kim. S.U, Shim K.B, Pae S.B, Hwang C.D, Park C.H, Lee M.H, Kim N.G, **Radhakrishnan R** and I.Y. Baek. Comparison of the major varieties of sesame genetic resources (김성업*, 심강보, 배석복, 황정동, 박장환, 이명희, 김남구, 라말린감 라다크리쉬난, 백인열. *참깨 유전자원의 주요 품종특성 비교*). *The Korean Society of Crop Science (P.184) on 19-20th April 2012.*
22. **Radhakrishnan R**, Khan.A.L, Kim.Y.H, Kang. S.M, Waqas. M, Kim. D.H, Kamran. M, Joo. H.S and I.J.Lee. Spermidine induced salinity tolerance through the regulation of antioxidants and phytohormones in cucumber. The Korean Society of Crop Science Conference. Danyang, South Korea. *Korean Journal of Crop Science (Vol. 56 Supp. 2) (P. 43) on October 20-21st 2011.*
23. Khan AL, Hamayun M, Waqas M, **Radhakrishnan R**, Kamran M, Kang SM, Kim YH, Lee IJ. Heat stress resistance offered by endophytic fungi *Exophiala sp.LHL08* and *Paecilomyces formosus* LHL10 to cucumber plants. The Korean Society of Crop Science Conference. Danyang, South Korea. *Korean Journal of Crop Science (Vol. 56 Supp. 2) (P. 43) on October 20-21st 2011.*
24. Waqas M, Khan AL, Hamayun M, Kang SM, Kim YH, Kamran M, **Radhakrishnan R**, Lee IJ. Endophytic fungi: an Eco-friendly strategy for mitigation of salinity and drought stress in cucumber. The Korean Society of Crop Science Conference. Danyang, South Korea. *Korean Journal of Crop Science (Vol. 56 Supp. 2) (P. 44) on October 20-21st 2011.*
25. Khan. A.L, Hamayun. M, Kang. S.M, Kim. Y.H, Waqas. M, **Radhakrishnan R** and I.J. Lee. Mutualistic interaction of endophytic fungus *Penicillium minioluteum* LHL09 with *Glycine max* offers salinity stress mitigation via GA₄ synthesis. Conference of the Korean Society for Horticultural Science. Jeju, South Korea. *Korean Journal of Horticultural Science and Technology (Vol.29 Suppl.1) (P. 98) on May 26-28th 2011.*
26. Kim. Y.H, Kang. S.M, Khan. A.L, **Radhakrishnan R**, Waqas. Mand I.J. Lee. Effect of Prohexidion-calcium application on growth retardation of Pot Chrysanthemum (*Dendranthem grandiflorum*) cv Green-Moon.

- Conference of the Korean Society for Horticultural Science. Jeju, South Korea. *Korean Journal of Horticultural Science and Technology*(Vol.29 Suppl.1) (P. 152) on May 26-28rd 2011.
27. Kim. Y.H, Khan. A.L, Kang. S.M, **Radhakrishnan R**, Waqas. M and I.J Lee. Changes of short-term silicon application on jasmonic acid contents of rice with and without wounding stress. The Korean Society of Crop Science Conference, Mukbo, South Korea. *Korean Journal of Crop Science*(Vol.56 Suppl.1) (P. 31) on 21-22nd April 2011.
 28. **Radhakrishnan R**, Rengarajan RL and B.D. Ranjitha-Kumari. Improving the nutritional quality of soybean through pulsed magnetic field. *International Conference on Food and Nutraceuticals for Nutrition and Health: Technology & Delivery* at Department of Food Science, Periyar University, Salem, Tamil Nadu, India on 20 - 22nd January 2011.
 29. Rengarajan RL, **Radhakrishnan R** and G. Archunan. Effect of folic acid plus B-vitamins on homocysteine levels in patients with cardiovascular disease. *International Conference on Food and Nutraceuticals for Nutrition and Health: Technology & Delivery* at Department of Food Science, Periyar University, Salem, Tamil Nadu, India on 20 - 22nd January 2011.
 30. **Radhakrishnan R** and B. D. Ranjitha-Kumari. Magnetic field as a new tool to enhancement of salt tolerant soybean. *Fourth International Conference Plants & Environmental Pollution at National Botanical Research Institute, Lucknow, India on 8-11th December 2010.*
 31. **Radhakrishnan R** and B.D. Ranjitha-Kumari. Role of magnetic field on food technology: An analysis in soybean (*Glycine max* L.). *International Conference on Food Technology Edition II at Indian Institute of Crop Processing Technology, Thanjavur, Tamil Nadu, India on 30 - 31st October 2010.*
 32. **Radhakrishnan R** and B.D. Ranjitha-Kumari. Enhancement of Soybean Seed germination, Plant growth and Yield by the Magnetic field treatments. *2nd International Symposium on Sustainable Agriculture for Subtropical Regions (ISSASR-2) at Institute of Subtropical Agriculture, Chinese Academy of Science (China) and Naresuan University (Thailand), Changsha, China on 15-18st September 2010.*

National Conferences/ Seminars (14= 11 First author; 3 Co-author)

1. 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.*
2. **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 Biological Innovations for Resource Management, Patents and Entrepreneur Development organized by Department of Botany, Jamal Mohamed College, Tiruchirappalli on 10 - 11th March 2020. P. 16.*
3. Megala M, Naveena Sri ST, Saraswathi J, Srilekha PR, **Radhakrishnan R**, Thirunavukarasu P.S. Identification and the application of endophytic bacteria's to enhance the plant growth. *National Conference on Espials of Biomolecules, Department of Microbiology, Karpagam Academy of Higher Education, Coimbatore. 26th February 2020.*
4. 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.*
5. **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.

6. **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.*
7. **Radhakrishnan R**, Kang S.M, Park J.M, Lee S.M and I.J. Lee. *Bacillus methylotropicus* 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.*
8. **Radhakrishnan R**. Participated in *One day seminar on Recent Trends in Chemical Signaling at Bharathidasan University, Trichy on 2nd February 2009.*
9. **Radhakrishnan R**. Participated in *National Conference on Trends in Plant-Microbe Interactions at Bharathidasan University, Trichy on 21 – 22nd January 2009.*
10. **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.*
11. **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.*
12. **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.*
13. **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.*
14. **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 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 Everyday. 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 Faculty Development Programmes

1. **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.
2. **Radhakrishnan R.** Three Day Faculty Development Programme on "Lab to Land Transformation – Focus on Entrepreneurial Skill Development" organized by *Department of Zoology, AyyaNadarJanakiAmmal College, Sivakasi, Tamil Nadu* on 20-09-2021 to 22-09-2021.
3. **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, AyyaNadarJanakiAmmal College, Sivakasi, Tamilnadu* on 22-09-2021 to 25-09-2021.
4. **Radhakrishnan R.** Plastic Waste Management. **NPTEL/SWAYAM course.** Score 67 % (8 weeks course), 02-01-2021 to 31-03-2021.
5. **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.
6. **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), RajapalayamRajus' College, Rajapalayam* on 08-06-2020 to 15-06-2020.

7. **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.
8. **Radhakrishnan R. Online Induction Training/Orientation Programme.** Organized by *Ramanujan College, University of Delhi* on 04-06-2020 to 01-07-2020.
9. **Radhakrishnan R.** FDP on Outcome-Based Education. *Inpods* on 03-06- 2020.
10. **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.
11. **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.
12. **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.
13. **Radhakrishnan R.** Orientation programme on MOOC's and e-Learning organized by *Library, Jamal Mohamed College (Autonomous), Tiruchirappalli* on 29-01-2020
14. **Radhakrishnan R.** Organic Farming for Sustainable Agriculture Production. **NPTEL Course.** Score 76 % (8 weeks course).

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.

Resource person in Conferences/ Seminars/ Webinars/ 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.

DNA sequence deposited in Genbank

1. **Radhakrishnan R,** Shim K.B, Hwang C.D, Pae SB., Kim S.U, Lee C.K and I.Y. Baek. 2012. *Penicillium sp.* NICS01, 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence. *Accession number: JX481980.*
2. **Radhakrishnan R,** Shim K.B, Hwang C.D. and I.Y. Baek. 2012. *Macrophomina phaseolina* strain NICS01, 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence. *Accession number: JX945162.*

3. **Radhakrishnan R**, Khan A.L. and I.J. Lee. 2013. *Fusariumverticillioides* isolate KNU01, 18S ribosomal RNA gene, internal transcribed spacer 1, 5.8S ribosomal RNA gene, internal transcribed spacer 2, and 28S ribosomal RNA gene. *Accession number: KC684889*.
4. **Radhakrishnan R**, Khan A.L. and I.J. Lee. 2013. *Humicola sp.* KNU01, 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence. *Accession number: KC797230*.
5. **Radhakrishnan R** and S.B. Pae. 2013. *Penicillium sp.* DFC01, 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence. *Accession number: KC852152*.
6. **Radhakrishnan R**, Shim K.B and S.B. Pae. 2013. *Penicillium sp.* isolate RDA01, internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence. *Accession number: KC710943*.
7. Kang S.M, **Radhakrishnan R**, Lee K.E and I.J. Lee. 2014. *Enterococcus faecium strain* LKE12, 16S ribosomal RNA gene, partial sequence. *Accession number: KJ956040*.
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Participation in Workshops

1. **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.
2. **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.
3. **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.
4. **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.
5. **Radhakrishnan R**. Attended a National workshop on “*Scholarly Information Access*” held at Bharathidasan University, Tiruchirappalli, India on 23 - 24th October 2009.

6. **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.
7. **Radhakrishnan R.** Attended a workshop on *“Patent Awareness”* held at St. Joseph’s College, Tiruchirappalli, on 7th April, 2006.
8. **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.

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