

Name : Dr. S. RajkumarImmanuel
Designation : AssociateProfessor
Department :Botany
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Educational Qualification: M.Sc., M.Phil., Ph.D

Degree	Subject	College / University & Place	Year Completed
B.Sc	Botany	The American College	1986
M.Sc	Botany	Thiagarajar College	1988
M.Phil	Botany	Thiagarajar College	1989
Ph.D	Biotechnology	Bharathidasan Institute of Technology (Anna University) Trichy	2012

Specialisation in Teaching: Microbiology & Nanotechnology

Specialisation in Research: Fungal Biotechnology

Research Interests: Bioprocessing & Fermentation Technology

Administrative /Academic Position/s (held / currently holding):

Positions held / currently holding	Year - From (month/year) To month/year)
Project Leader - SLP	2014 – till date
Solid Waste Management	

Membership in Professional Bodies:

- National Technical Advisory Committee Member of JNNURM
(Jawaharlal Nehru National Urban Renewal Mission – Central Govt. Project)

Publications:

Articles Published in International Journals:

1. Rajkumar Immanuel, S & Vennison, SJ 2011, 'Cellulosic ethanol production by *Saccharomyces cerevisiae* harboring an endoglucanase gene from *Humicolain solens* Plant Archives', vol. 11 no. 2, 1159–1163.
2. Rajkumar Immanuel, S, & Vennison, SJ 2011, 'Purification and characterization of β 1,4 endoglucanase from a thermophilic fungus, *Humicolain solens*', Plant Archives, vol. 11, no. 2, 1129–1133.
3. Rajkumar Immanuel. S., Anusha. P and Aiesvaryaa.S. 2018. Production of Lovastatin by soil microfungi *Mycocladius corymbifer* (Cohn) Vuill. International journal of Engineering Technology Science and Research. Abstract.5 (1).
4. Anusha. P and Rajkumar Immanuel.S. 2019. Antioxidant and antibacterial activities of leaves extract of *Hydrophila auriculata* (Schumach.) Heine. Journal of Pharmacognocny and Phytochemistry. 8(2):1784 – 1789.
5. Rajkumar Immanuel. S and Anusha. P. 2019. Production of Lovastatin by Soil Microfungi *Rhizopus oryzae*. Acta Scientific Medical Sciences. 3(1): 70-74.
6. Anusha. P and Rajkumar Immanuel.S. 2019. Anticancer activity and GCMS analysis of methanol leaves extract of *H. auriculata* (Schumach.) heine. Journal of Pharmacognocny and Phytochemistry. 8(5):1453-1457.

Articles published in National Journals:

1. Baburaj S, Thamaraiselvan A , and Rajkumar Immanuel, S, 1990. Anti-inflammatory action of *Cassia occidentalis*
2. Rajkumar Immanuel S and Subramanian, SK 1999. Effect of fresh extracts and seaweed liquid fertilizers on some cereals and millets, seaweed Res. Utiln, 21 (1&2):91-94, 1999.
3. Rajkumar Immanuel S, and Rajan TPD, 2000. Biocorrosion of Metals, MET News, The Institute of Metals vol 18 No2

Conference / Seminar Presentations:

1. Rajkumar Immanuel, S, 1995. Decomposition of lignocellulosic materials by two leaf litter fungi, *Lasiodiplodia theobromae* and *Memnoniella echinata*, National Seminar on Microorganisms in Sustainable Agriculture,p.26
2. Rajkumar Immanuel S, and Velladurai P, 1997. Production of protein from lignocellulosic materials by two soil fungi – *Aspergillus japonicas* and *Fusarium oxysporum*, UGC- National seminar on Recent advances in Plant Biotechnology, ABT 4,p.5
3. Velladurai P, and Rajkumar Immanuel, S, 1998. Antimicrobial Activity of *Allium sativum*, Association of Microbiologists of India, 39th Annual Conference, vol. 39, p.61
4. Rajkumar Immanuel, S, 1999. Biotransformation of lignocellulosics on growth and flowering of sunflower, National Seminar on Biotechnology: Hitherto&Henceforth,p.33
5. Rajkumar Immanuel, S, &**Vennison, SJ** 2009. Production of cellulose on solid state fermentation in different plant residues by *Humicolainsolens*,INB:84.
6. Rajkumar Immanuel S, 2010. Screening and kinetic studies of fungal cellulases isolated from the native environmental sources. International conference on Genomic Sciences
7. RajkumarImmanuel,S,&**Vennison,SJ**2010.Cellulosic production by *Humicolagrisea* on lignocellulosic substrates by solid state fermentation, National symposium on recent advances in Biotechnology, p.61.
8. Rajkumar Immanuel.S. 2015. Production, optimization and characterization of wine from pineapple (*Ananascomosus* Linn). J Food Process Technol. Abstract. 6 (10).
9. Rajkumar Immanuel. S. Oral presentation at the 7th Indo-Global Summit and Expo on Food & Beverages held on October 08-10, 2015 in New Delhi, India.
- 10.Jannath Prathosh,M., Bakkiam, A., Sindhuja,T. and Rajkumar Immanuel.S. 2015 Isolation, Screening and Efficacy of yeast strains for wine making. International Conference on Biotechnology and Bioinformatics. Abstract. 30

11. Jannath, Bakkiam, Sindhuja and Rajkumar Immanuel, S, 2015. Isolation, screening and efficacy of yeast strains for wine making, International Conference on Biotechnology & Bioinformatics, vol 2, p.21.
12. Rajkumar Immanuel. S. Oral presentation at the 6th Asia-Pacific Pharma Congress held on July 11-13, 2016 in Kuala Lumpur, Malaysia.
13. Rajkumar Immanuel. S. Oral presentation on Production of Lovastatin by Soil Microfungi *Rhizopusoryzae* at the Global congress on Biotechnology held during September 06-07, 2018 in Bangkok, Thailand.
14. Rajkumar Immanuel. S. Presented a paper on Biology and Biotechnology of Algae in National conference on Biodiversity organized by Centre for advanced studies in Botany, University of Madras, Jan 9-10, 2017.

Lectures / Talks given:

1. Delivered lecture on Global Warming to Secondary & Hr. Sec. students of TVS School, Palanganatham during October 2012.
2. Delivered lecture on Anti Tobacco to all NCC contingent of Madurai Region during February 2013 at Sourashtra School Madurai.
3. Rajkumar Immanuel. S. Effect of fresh extracts and seaweed liquid fertilizers on some cereals. Abstract. NCAT 2016.

Awards / Fellowships:

- **Young Scientist Award**, Tamil Nadu State Council for Science & Technology (1998)
- **Visiting Professor Scholarship** from Oberlin College, Ohio, USA (2001)
- National Technical Advisory Committee Member of JNNURM (Jawaharlal Nehru National Urban Renewal Mission – Central Govt. Project)
- Ph.D Scholar Ms. P. Anusha received a fellowship for carrying out her research work for a period of two years from Tamil Nadu State Council for Science & Technology (TNSCST) during 2020 – 2022.

Overseas Academic Visits:

- Visiting Professor Scholarship from Oberlin College, Ohio, USA(2001)

Other Activities / Academic Credentials:

1. Participated in Training programme on **Effective methods of Teaching& Evaluation** for college Teachers sponsored by AIACHE at Kodaikanal from 5-10th June1993.
2. Participated in Training programme on National Service Scheme sponsored by Sri Avinashilingam Educational Trust Institutions from 21 -30th August 1996 at Coimbatore.
3. Attended a training programme on NSS under the auspices of the department of youth affairs and sports, Govt. Of India from 14-18th December1998.
4. Participated in **Entrepreneurial skills in Higher Education system** in collaboration with department of entrepreneurship studies, MKU from 27thJanuary to 16th February2000.
5. Participated in the **workshop on PCR based Molecular Techniques**, organised by Bangalore Genei between 7th & 8th February2008.
6. Participated in the workshop on **“Protoplast Fusion Technology for Strain Improvement in Filamentous Fungi”** held at Centre for Advanced Studies in Botany, University of Madras, Chennai from 22- 27th May2000.
7. Rajkumar Immanuel. S. National Workshop on Research integrity & Awareness organized by University Grants Commission, South Eastern Regional Office, University of Hyderabad, Gachibowi, Hyderabad on 5th August 2019.

Extention Activities:

- Conducted workshop on Mushroom Technology to science studentsatthe senior level in Maharishi VidyaMandir, Chennai during August 2012.
- Conducted Hands on TraningProgramme to College students and unemployed women folk of Uthamapalayam area sponsored by Haji Karuvuthar College, Uthamapalayam 2015.

- Training program to School students on Mushroom Cultivation Technology held at department of Botany, The American College, Madurai on 2017.

Consultancy Services:

- BiodieselProject
- OrganicFarming
- MushroomTechnology
- PoultryFarming
- Fermentation Technology of Food &Beverages
- Solid WasteManagement