

BRIEF CV



Name : **Dr. R. Balagurunathan**

Designation : Professor & Head

Department : Department of Microbiology, Periyar University, Periyar Palkalai Nagar, Salem – 636 011, Tamil Nadu.

Qualifications : M.Sc., M.Phil., M.Phil. (Biotech) Ph.D.

Experience : 19 years of Teaching & Research [Earlier worked
: Institutions Annamalai University & Sri Sankara College,
Kanchipuram]

Area of Specialization : Industrial Microbiology / Bioactive compounds from
Actinomycetes

M.Phil. Guided : 21

Ph.D. Guided : 4 (completed) 6 (on-going)

Fellowship Awarded : UGC Merit Scholarship in M.Sc.,
UGC-Research Associate;
China Government Fellowship for PDF;
Novartis Fellow for PDF at University of Malaya, Malaysia;
JNCASR-DST Visiting Fellowship Award on Nanotechnology
at JNCASR, Bangalore (2009)

Countries Visited : China, Malaysia, Thailand, Singapore.

List of Publications

(a) Books / Edited : 5 chapters in Book, 1 book edited, 3 Training Manuals

(b) Journals : 110 (National & International)

PATENT: "NEW ANTITUBERCULOSIS ANTIBIOTIC FROM MARINE ACTINOMYCETE STRAIN R2" Indian Patent Application No: 2435/DEL/2013, 16.08.2013 and PCT patent PCT Application No. PCT/IN2014/000020 Date of filing: 09.01.2014

Special Recognition: placed among top five institutions on Indian actinobacterial Research recognized by the Recent special Review on "Status of Actinobacterial Research in India" in the Indian Journal of Experimental Biology (CSIR Publications), August 2013.

Major / Minor Research Projects	:	Completed 5 (Nearly 50 lakhs) On-going 1 (ICMR – 26 lakhs)
Number of Conference / Seminar Attended	:	75
Number of Guest Lectures Delivered	:	40
Seminars / Conference Organized	:	10 National level symposia, 1 Workshop, 3 In-service Training Programmes
Membership in Professional bodies	:	Executive Member- Indian Association of Applied Microbiologists, Member association of Microbiologists of India, Indian National Academy
Associate Editor / Reviewer	:	1. Journal of Pharmacy Research -Elsevier 2. Drug Invention Today - Publisher-Elsevier 3. National Academy Science Letters- Springer 4. J. of Geo-Marine Sciences- NISCIR, CSIR
Board of Studies Member in Microbiology	:	Bharathidasan University, Thiruvalluvar University, DKM College (Vellore), KSR College of Arts & Science (Autonomous), Selvam College, Namakkal; Vivekananda College, Tiruchengode; Manonmaniam Sundaranar University.
Members in other academic boards	:	Recently Appointed as advisory committee member for the preparation of glossary of Biotechnology by the Commission for Scientific and Technical Terminology, Ministry of Human Resource Development, Govt. of India during September 2011 Chairman, Board of Studies in Microbiology (both University Department and Affiliated Colleges), Periyar University, Salem

Chairman, Board of Question paper setting, Gandhigram University, TN.

Member, Board of Studies in Microbiology course in Thiruvalluvar University, Vellore , Bharathidasan University, Trichy; Vel's University, Chennai.

University Nominee for the Microbiology Board of Studies for DKM College (Autonomous) Vellore.

University Nominee for Board of Studies in Microbiology, K.S.R College of Arts & Science (Autonomous), Tiruchengode

University Nominee for Board of Studies in Microbiology, Vivekananda College of Arts & Science (Autonomous), Tiruchengode and Selvamm College of Arts & Science, Namakkal

University Nominee for Autonomous College Nomination of Academic council, K.S.R. College of Arts & Science (Autonomous), Tiruchengode.

University Nominee for College Governing Body, Salem Sowdeswari College, Salem

Other Positions in Periyar University

- ✦ Senate Member, Periyar University, Salem
- ✦ Director i/c, Centre for Biodiversity and Forest Studies, Periyar University – July 2013
- ✦ In-Charge, Department of Environmental Science, Periyar University Member, University Horticulture Committee (2011- 2013)
- ✦ Camp Officer, April /May 2009, August 2010, November 2010, May 2011 examinations
- ✦ Member, Grievance Centre, Periyar University
- ✦ Convener, Food Committee, Science day Celebrations held on 28.2.2009 Convener, Civil,
- ✦ Electrical and Audio Committee; 2010 & 2011 convocations Member, Board of Studies in
- ✦ Bioinformatics
- ✦ Chairman, Board of Studies in Microbiology & Valuation Board of Microbiology for Affiliated College
- ✦ Member, Inspection Committee for the grant of affiliation for the Microbiology course
- ✦ Member, University day care Centre
- ✦ Member, Single Tender Committee - July 2011

- ✚ Administrator, Periyar Auditorium on 15.03.2011
- ✚ Scientist member in Periyar University Institutional Animal Ethical Committee (PUIAEC)
- ✚ Member, University NAAC committee, 2012
- ✚ Member, Calendar Committee 2012, 2013
- ✚ Member, DSIR certificate renewal committee
- ✚ NAAC – Convener, Periyar University, Salem
- ✚ Member, AGP & CAS-AGP Screening Committee, Periyar University, Salem
- ✚ Chairman, University Admission Committee, Periyar University, Salem.

RESEARCH COLLABORATIONS

International

- Dr.H.P.Fiedler** : University of Tubingen, Germany
- Dr.R.T.Hill** : University of Maryland Biotechnology Inst. USA
- Prof. Jiang Cheng Lin** : Yunnan University, China
- Dr. Vikineswary** : University of Malaya, Kuala Lumpur, Malaysia

National

- Dr. VanajaKumar** : Director, Centre for Drug Research, Sathyabama University
- Dr. Mukesh Doble** : Department of Biotechnology, IIT, Chennai
- Dr. P. Ellaiah** : Professor, Pharmaceutical Department, Andhra University, Visakhapatnam
- Dr. R.C.Dubey** : Professor Gurukul Gangri University, Haridwar
- Dr. Luke Hanna** : Scientist, National Inst. For Research Tuberculosis, (TRC)
Chennai
- Dr. Natarajan Seenivasan** : Bharathidasan University, Trichy

Recent Achievement for Patent : **Isolated and identified new Brominated antibiotic compound named “Transitmycin” from marine Actinomycete active against Tuberculosis in collaboration with TRC, Chennai & IIT, Chennai**

- Awards** :
1. Best Teacher Award, Sri Sankara College 2009
 2. Best Teacher Award, Periyar University – 2011
 3. Eminent Microbiology Teacher Award, Indian Association of Applied Microbiologists, October 2011
 4. Senior Researcher award, February 2012

Culture Collection on Marine Actinomycetes

Maintaining about 200 potential strains of *Streptomyces* and 30 strains of *Micromonospora* & *Actinosynnema* in the culture collection isolated from various extreme & Marine environments including Thar desert, Himalayas, Andaman & Nicobar islands, which are the sources for production of Bioactive compounds

Sequenced 16S rRNA genes and Group I Intron genes from Bacteria and actinomycetes and these Sequences were deposited in GenBank (NCBI)

GenBank Deposits

GenBank Deposits		
S. No	Microbial taxa used for 16S rRNA Sequencing	GenBank Accession No's (NCBI)
1	<i>Streptomyces</i> sp. R2 16S rRNA	HQ012501
2	<i>Enterobacter</i> sp. DC6 16S rRNA	HM625774
3	<i>Bacillus pumilus</i> strain X8	JN166722
4	<i>Bacillus licheniformis</i> strain 2J-1	JN166721
5	<i>Bacillus pumilus</i> strain X22	1504580
6	<i>Streptomyces</i> sp. Y19 16S rRNA	JQ619872
7	<i>Streptomyces</i> sp. M32 16S rRNA	JX073034
8	<i>Leptolyngbya valderiana</i> NTDM10	JQ867392
9	<i>Oscillatoria boryana</i> NTDM11	JQ867393
10	<i>Planktothrix pseudoagardhii</i> NTRD01	JQ867394
11	<i>Streptomyces</i> sp. MA7	KC113314
12	<i>Bacillus licheniformis</i> BL-01	KC866382
13	<i>Bacillus thuringiensis</i> BT-01	KC886606
14	<i>Streptomyces cavourensis</i> M10A89	KF537572
15	<i>Streptomyces diastaticus</i> PA2	KF537573
16	<i>Streptomyces griseoflavus</i> PRA2	KF537574
17	<i>Streptomyces fradiae</i> PE7	KF537575
18	<i>Streptomyces sampsonii</i> PM33	KF537576
19	<i>Streptomyces cacaoi</i> AA5	KF537577
20	<i>Streptomyces mutabilis</i> A6	KF304796
21	<i>Streptomyces cavourensis</i> A15	KF304797
22	<i>Streptomyces nogalater</i> MA30	KF724941
23	<i>Streptomyces mutabilis</i>	KF304796
24	<i>Streptomyces cavourensis</i>	KF304797
25	<i>Streptomyces minutiscleroticus</i>	JX905302

Citation indices

	All	Since 2009
<u>Citations</u>	389	342
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Contact Details

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