

Aditanar College of Arts and Science
Virapandianpatnam – 628216
Tiruchendur
Bio - Data



Name of the Department : BOTANY

Name of the faculty member : Dr. C. P. BALAKRISHNAN

Qualification : M.Sc., M.PHIL., PH. D

Present Designation : ASSISTANT PROFESSOR (Grade-III)

Vidwan id : 268355

Residential Address : PLOT NO.19, SAROJA ILLAM,
SUNDARAM NAGAR 2ND STREET
MUTHIAHPURAM, THOOTHUKUDI -628 005.

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Gender : MALE

Community : MOST BACKWARD CLASS (MBC)

Date of Birth and Age : 18-04-1980, 43

Date of joining : 10TH SEPTEMBER 2007

Date of Retirement : 30TH APRIL 2040

I. Particulars of Educational Qualification

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B.SC	BOTANY	2001	KAMARAJ COLLEGE, THOOTHUKUDI	MS UNIVERSITY, TIRUNELVELI	58%	II
PG	M.SC	BOTANY	2003	VOC COLLEGE TTHOOTHUKUDI	MS UNIVERSITY, TIRRUNELVELI	62%	I
M. Phil	M.PHIL	BOTANY	2004	SN COLLEGE MADURAI	MK UNIVERSITY, MADURAI	68%	I
Ph.D.	PH. D	BOTANY	2011	VOC COLLEGE THOOTHUKUDI	MS UNIVERSITY, TIRUNELVELI	AWARDED	

II Additional Qualification : NIL
NET/SLET

III Title of Ph.D. Thesis : STUDIES ON THE PHYCOCOLLOIDS AND CULTURE OF SEaweEDS OF GULF OF MANNAR

IV Faculty/Discipline/Subject in which Ph.D. was awarded :
 List of Publications : (Details Attach separate sheet)
 No. of Candidates Completed Ph.D. under your Guidance : 01 (Details Attach separate sheet)
 No. of candidates doing Ph.D. under your Guidance : 00

V Academic Experience:

Name of the College	Whether Govt/Aided/S.F.	Designation	Joining Date	Relieving Date	Experience		
					Years	Months	Days
ADITANAR COLLEGE OF ARTS AND SCIENCE	AIDED	ASSISTANT PROFESSOR	10-9-2007		16	01	08
Total					16	01	08

VI Administrative/other Experience:

- HEAD OF THE DEPARTMENT
- DIRECTOR/CONVENER OF VARIOUS CLUBS AND COMMITTEE
- PRINCIPAL INVESTIGATOR FOR UGC SPONSORED MAJOR RESEARCH PROJECT

VII Other Relevant Information:

- COORDINATOR FOR TNSCST, GOVT. OF TAMIL NADU FINANCIAL SUPPORTIVE WORKSHOP
- NODEL OFFICER FOR BAN PLASTIC
- BOARD OF STUDY MEMBER
- FORMER TREASURER & LIFE MEMBER OF PROFESSIONAL BODY (RESEARCH)
- GREEN AUDIT MEMBER

Research Guidance (Ph. D) : Area of Specialization: Algal Biochemistry, Phytochemistry & Technology

Sl. No.	Guide/ Co-Guide	Full Time/Part Time	Name of the Scholar	Reg. No.	Title of the Thesis	Status
1.	Guide	Full Time	P. Jenifer	11645	Extraction, Separation and Characterization of Phytoconstituents from Marine Red Algae Gracilaria of Manapad Coast, Tamil Nadu.	Awarded

List of Article published in Proceedings

1. Balakrishnan C.P., Venkataraman Kumar, Mohan V.R., Louis Jesudass and Athiperumal Sami, T. Survey of seaweeds for phycocolloids in the Gulf of Mannar. In Proceeding “Plant Medicine: Present Scenario” held on 23rd & 24th February 2007, Department of Plant Biology & Plant Biotechnology, St. Mary’s College, Tuticorin.
2. Balakrishnan C.P. Macro algae as Bio-fertilizer. In Proceeding “Implications of Biotechnology in Conservation of Biodiversity” held on 20 & 21st August 2009, Dept. of Plant Biology & plant Biotechnology, Govt. Arts & Science College, Udthagamandalam (Ooty), Tamil Nadu. “
3. Balakrishnan C.P., Athiperumal Sami, T. Venkataraman Kumar and Mohan V.R. Studies on the effect of seaweed extracts on seedling growth and biochemical parameters in *Vigna mungo* (L.) Heppter. In Proceeding “Marine Resources – Sustainable Utilization and Conservation” held on 11th & 12th December 2009, Dept. of Plant Biology & plant Biotechnology, St. Mary’s College, Tuticorin.
4. Balakrishnan C.P. and Venkataraman Kumar. Survey of alginophyte *Stoechospermum marginatum* with reference to estimation of alginic acid”. In Proceeding “Recent Trends in Bioactive Substances (RTBASS-2013)” held on 5 & 6th March 2013, P.G. & Research Dept. of Botany, Government Arts College (Autonomous), Karur – 639 005. ISBN:
5. Balakrishnan C.P. and Venkataraman Kumar. Pretreatment processes on yield of carrageenan from Carrageenophytes *Hypnea musciformis* and *Acanthophora spicifera*. In Proceeding “Marine Meet - 2015” held on 22 & 23rd January 2015, Dept. of Zoology, TDMNS College, Kallikulam, TN. ISBN:
6. Jenifer P. and Balakrishnan C.P. 2019. Free radical scavenging activity of different solvent extracts of *Gracilaria corticata* J. Agardh under in-vitro. In Proceeding “Environmental Protection and Sustainability” held on 19th August 2019 organized by the Deptt. Of Botany & Zoology, Sadakathullah Appa College, Palayamkottai, TN. ISBN:978-81-94248-0-0
7. P. Jenifer, C.P Balakrishnan, and S Chidambaram Pillai 2019. Morpho-anatomical studies of red algae *Gracilaria fergusonii* J. Ag. In Proceeding “Bio-Commerce” held on 14th – 15th March 2019 organized by the Deptt. of Zoology & Research Centre, Aditanar College, Tiruchendur, TN. ISBN: 978-93-5351-470-0
8. P. Jenifer, C.P Balakrishnan, and S Chidambaram Pillai 2019. Pharmacognostic standardization and UV spectrum analysis of marine red algae *Gracilaria* species of Manapad coast, Tamil Nadu. In Proceeding “Bio-Commerce” held on 14th – 15th March 2019 organized by the Deptt. of Zoology & Research Centre, Aditanar College, Tiruchendur, TN. ISBN: 978-93-5351-470-0
9. P. Jenifer, C.P Balakrishnan, and S Chidambaram Pillai 2019. Studies of physicochemical and biochemical composition of marine red algae *Gracilaria fergusonii* j. Ag. In Proceeding “Bio-Commerce” held on 14th –

15th March 2019 organized by the Deptt. of Zoology & Research Centre, Aditanar College, Tiruchendur, TN. ISBN: 978-93-5351-470-0

List of Scientific Research Papers Publications:

1. Balakrishnan C.P., Venkataraman Kumar, Mohan V.R. 2007. Studies on the effect of crude seaweed extracts on seedling growth and biochemical parameters in *Pennisetum typhoides* (Burm.f) Stapf C.E. Hubbard. *Seaweed Res. Utiln.*, 29 (1&2): 89-96.
2. Balakrishnan C.P., Sankaranarayanan C. 2007. Phytotoxicity of heavy metals nickel and lead on cyanobacterial pigments. *Seaweed Res. Utiln.* 29 (1&2): 217 – 226.
3. Balakrishnan C.P., Venkataraman Kumar, Mohan V.R. and Athiperumal Sami, T. 2007. Studies on the effect of crude seaweed extracts on seedling growth and biochemical parameters in *Cyamopsis tetragonoloba* (L.) Taub. *Pl. Archives* Vol. 7 No.2 pp. 563 – 567.
4. Balakrishnan C.P., Venkataraman Kumar, Mohan V.R. Louis Jasudass, L. and Athiperumal Sami, T. 2009. A general survey of the common agarophytes in the Gulf of Mannar in relation to agar ecology. *Seaweed Res. Utiln.*, 31 (1&2): 33 – 46.
5. Balakrishnan C.P., Venkataraman Kumar, Mohan V.R. Louis Jasudass, L. and Athiperumal Sami, T. 2009. A general survey of the common carrageenophytes in the Gulf of Mannar in relation to carrageenan ecology. *Seaweed Res. Utiln.*, 31 (1&2): 47 – 54.
6. Balakrishnan C.P., Venkataraman Kumar, Mohan V.R. Louis Jasudass, L. and Athiperumal Sami, T. 2009. A general survey of the common alginophytes in the Gulf of Mannar in relation to algin ecology. *Seaweed Res. Utiln.*, 31 (1&2): 55 – 65.
7. Balakrishnan C.P., Venkataraman Kumar and Louis Jasudass, L. 2011. Laboratory culture of *Gracilaria edulis* and *Hypnea musciformis* under varied treatments for phycocolloid assessment. *Seaweed Res. Utiln.*, 33(1&2): 119-124.
8. Balakrishnan C.P., Venkataraman Kumar and Louis Jasudass, L. 2011. Chemical composition and FTIR spectral study of carrageenan from selected carrageenophytes of Gulf of Mannar. *Seaweed Res. Utiln.*, 33(1&2): 83-89.
9. Balakrishnan C.P., Sankaranarayanan C. 2011. Phytotoxicity of heavy metals on the cell constitutions protein and enzymes of two Cyanobacterial strains. *J. Indian Hydrobiology* 13 (2):113-118, 2011.
10. Balakrishnan C.P., Bharathi, T., Mani Bharathi, K. and Maria vargies, S. 2012. Study of phytoplankton and physico-chemical characteristics of brackish water of Tiruchendur, Tamil Nadu. *J. Indian Hydrobiology* 15 (2):183-188, 2012.
11. Balakrishnan C.P., and Venkataraman Kumar 2013. Survey of *Gracilaria* species of Hare Island, Tuticorin with reference to agar. *Seaweed Res. Utiln.*, 35(1&2): 33-40.

12. Balakrishnan C.P., Jenifer, P. and Esakkilingam, M. Algal documentation and phytochemical studies of red algae *Gracilaria corticata* of Manapad Coast, Tamil Nadu. *Journal of Pharmacognosy and Phytochemistry* 2013; 2(4): 193- 197.
13. Balakrishnan C.P., and Venkataraman Kumar 2013. Survey of *Gracilaria* species of Hare Island, Tuticorin with reference to agar. *Seaweed Res. Utiln.*, 35; 33-40.
14. Balakrishnan C.P. and Venkataraman Kumar 2014. Effect of different extraction processes on yield and quality of agar in *Gracilaria edulis* and *Gracilaria verrucosa*. *Seaweed Res. Utiln.*, 36 (1&2): 59-65.
15. Balakrishnan C.P. and Jenifer, P. Morpho-anatomical and phytochemical studies of *Commenlina benghalensis* L. of *Commenliaceae*. *International Journal of Phytopharmacology* 2015; 6(3): 143-151.
16. Jenifer, P and Balakrishnan C.P. 2015 Anti-pesticidal and anti – nematocidal compounds from *Gracilaria corticata* L. Agardh under GC-MS analysis. *Seaweed Res. Utiln.*, 37 (1&2): 81-84.
17. Jenifer, P and Balakrishnan C.P. 2015. Free radicals scavenging activity of different extracts of *Gracilaria fergusonii*. *Asian J. Res. Biol. and Pharm. Science.* 3 (4): 162 – 168.
18. Jenifer, P and Balakrishnan C.P. 2016. Invitro antioxidant evaluation of *Gracilaria fergusonii* using various solvent extracts. *World J. Pharm. Research.* 5 (3): 779 – 789.
19. Jenifer Panneer and Balakrishnan C.P. 2016. Phytoconstituents screening and invitro evaluation of total antioxidant activity of marine red algae *Gracilaria fergusonii* J. Agardh. *Int. J. Res. Pharm. Phytopharmacol. Research.* 6 (1): 9 – 13.
20. Jenifer, P and Balakrishnan C.P. 2016. Mineral composition of red algae *Gracilaria* species of Manapad Coast, Tamil Nadu. *Indian J. Expr. Biol.* (Communicated).
21. Jenifer, P., Balakrishnan C.P. and Chidambaram Pillai S. 2017. Invitro antioxidant activity of marine red algae *Gracilaria foliifer*. *Asian J. Pharmacy and technology.* 7 (2): 779 – 789.
22. Jenifer, P., Balakrishnan C.P. and Chidambaram Pillai S. 2017. Identification of antioxidant compound Cholest-5-en-3ol from chloroform extract of *Gracilaria foliifera* using GC-MS analysis *World J. Pharm. Research.* 6: 1782-1792.
23. P. Iswarya, K. Bageerathi and C. P. Balakrishnan 2022. An application for decision making problem with Neutrosophic topology. *The Int. J. analytical and expt. Model analysis XIV* (1): 1017 - 11025.
