

PROFILE



PERSONAL DETAILS

Name : **B. Makeesh Kumar**
Date of Birth : 10.05.1974
Qualification : M.Sc., M.Phil., Ph.D
Designation : Associate Professor
Department : Botany
Community : Hindu
Nationality : Indian
Email ID : bala.makeeshkumar@gyncollege.edu.in

ACADEMIC QUALIFICATIONS

Degree	Specialization	School/College	University	Year of Passing
Ph.D	Plant Science	-	Madurai Kamaraj University	2004
M.Phil	Energy & Environmental Science	-	Madurai Kamaraj University	1998
M.Sc	Botany	J.M.C., Trichy	Bharathidaasan University	1996
B.Sc	Botany	J.M.C., Trichy	Bharathidaasan University	1994
H.Sec.	Mathematics & Biology	St. Mary's School, Dindigul	-	1991
SSLC	-	St. Mary's School, Dindigul	-	1989

ACADEMIC IDENTITY

*VIDWAN ID	176999
*ORCID ID	https://orcid.org/0000-0001-6656-9273
*SCOPUS ID	https://www.scopus.com/authid/detail.uri?authorId=55193608200
*RESEARCHER ID/ PUBLONS ID	https://www.researchgate.net/profile/Makesh_Kumar_Balkumar
GOOGLE SCHOLAR LINK	https://scholar.google.com/citations?hl=en

TEACHING EXPERIENCE

Date of Appointment	07.03.2009
Date of Retirement	31.05.2034
Teaching Experience	
UG	15
PG	9
Research	20

COURSES/CLASSES TAUGHT	NAME OF THE INSTITUTIONS	DURATION		
		From	To	Years
M.Sc, Biology	Madurai Kamaraj University	1998	2003	5

AWARDS RECEIVED

1.	Awarded Tamil Nadu Government, Aringar Anna Award & Rs. 15,000 Cash prize for the year 2023.
2.	Awarded Life Time Achievement Award by National Science Foundation, Coimbatore.
3.	Awarded Distinguished Professor Award 2021 by Institute of Researchers.
4.	Awarded Tamil Nadu Government Environment Patron Award & Rs.10,000 Cash prize for the year 2020.
5.	Awarded ATREE – BELL pin Environmental Conservation Award & Rs.10,000 Cash prize for the year 2018.
6.	Awarded “ Best NSS Programme Officer 2017-18 ” by M.S.University, Tirunelveli.
7.	Awarded “ Best Assistant Professor ” by PEARL foundation, Madurai.
8.	Recipient of NSERC (Natural Science and Engineering Research Council of Canada), Canada Postdoctoral Fellowship 2005-2006.
9.	Recipient of ICFRE (Indian Council of Forest Research Education) research fellowship Award for Senior Research fellow 2001-2003
10	Recipient of ICFRE (Indian Council of Forest Research Education) research fellowship Award for Junior Research fellow 1998-2001

ADMINISTRATIVE EXPERIENCE			
S. No	DESIGNATION	INSTITUTIONS	YEAR
1.	Controller of Examinations	G. Venkataswamy Naidu College.	2020
2.	College Governing Body	G. Venkataswamy Naidu College.	2020
3.	Deputy Co-Ordinator, IQAC	G. Venkataswamy Naidu College.	2012
4.	UGC – Liason Officer	G. Venkataswamy Naidu College.	2014
5.	AISHE Nodal officer	G. Venkataswamy Naidu College.	2013
6.	NSS Programme Officer	G. Venkataswamy Naidu College.	2016

ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT PROGRAMME UNDERGONE

S. No	Name of the Training	Name of the Sponsoring Agency	Place and Date
1.	Orientation Programme	Bhartahidasan University	20.05.2011 to 16.06.2011
2.	Refresher Course on “Life Sceince”	Pondicherry University	18.12.2013 to 12.01.2014
3.	Refresher Course on “Environmental Studies”	Academic Staff College, Bharathiar University, Coimbatore	10.05.2017 to 30.05.2017
4.	Orientation Programme for NSS Programme Officers	Rajiv Gandhi National Institute of Youth Development, Sriperumpudur	16.11.2016 to 22.11.2016
5.	Refresher Course in Reforms & Innovations in Higher Education (Multidisciplinary),	Bhartahidasan University	07.02.2023 to 20.02.2023

DETAILS OF RESEARCH WORK

Research Stages	Title of the Thesis	University where the work was carried out
Ph.D	Photosynthesis, Water relation and growth of <i>Casuarina equisetifolia</i> clones.	Madurai Kamaraj University
M.Phil	Heavy metals in some environmental samples around a few Industrial location of Tuticorin coast.	Madurai Kamaraj University
M.Sc	Effect of difference concentration of sucrose solution on pollen germination in <i>Physalis minia</i> L	Bharathidasan University

AREAS OF RESEARCH	
Plant Ecophysiology	

PH.D. THESIS ADJUDICATED:			
S.No	Name of the University	Title of the Thesis/ Name of Candidate/Year	Year
1	Manonmaniam Sundaranar University	Effect of Leaf Longevity on Production and Resource use efficiency of some forest tree species in a tropical environment.	2014

ONGOING/COMPLETED RESEARCH PROJECT						
S. No	Title of the Project	Amount Sanctioned In Rs.	Year	Name of the Funding Agency		
1.	Development of novel bio-face mask using plant molecules with special reference to 2019 nCoV.	1,75,000	2022	Tamilnadu State Council for Science & Technology		
2.	Photosynthesis or persistence: Effects of leaf longevity on Production and resource – use efficiency in a seasonal climate	7,72,300	2022	University Grants Commission		
3.	Assessment on Socio-Economic Status of Tribal and Rural People Based on the Plants used for Medicinal and Non-medicinal purposes practiced in three districts of Tamil Nadu.	6,00,000	2022	Indian Council of Social Science Research		

STUDENT RESEARCH PROJECTS GUIDED			
S. No	Student Name	Title of the Project	Year
1.	Ms. Anto Agnesh Reshma	Raspberry Pi-based IOT system for hydroponics	2022
2.	Ms. Mathimathika	Phytoremediation Potential of the selected Aquatic Macrophytes for Treating Match Industry Effluent in Kovilpatti.	2022
3.	Ms. Jeyasudha	Socio-economic impact of COVID-19 lockdown on women workers of match box industries in Kovilpatti.	2022
4.	Ms. Ayyammal	Bottom dumpsite ash from thoothukudi thermal power station: A suitable material for soil waste management through vermicompost - Novel report	2023

PUBLICATIONS				
BOOKS	BOOK CHAPTERS	SCOPUS	WEB OF SCIENCE	UGC LISTED
1	3	2		38
OTHER INDEXED	AS A RESOURCE PERSON	PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL SEMINARS	WEBINARS, SEMINARS, WORKSHOPS ATTENDED	
10	7	25	28	

PUBLICATIONS: BOOKS			
S. No	Title of the Book	ISBN No.	Year
1.	Flora of GVN College.	9789350677216	2012

BOOK CHAPTERS			
S. No	Title of the Paper	Name of the Book	ISSN No., Pg.No
1.	-	Global Environmental Justics	-93-5419-649-2
2.	Phytoremediation of fireworks' pollutants using Brassica juncea	Biological research in 2021: Aspects and prospects	978 – 620-4-73831-4
3.	Phytoremediation of Fireworks' Pollutants Using Amaranthus spinosus L	Human Behaviour and Environmental Sustainability	978-81-954992-3-6

PUBLICATIONS: SCOPUS INDEXED JOURNALS&WEB OF SCIENCE			
S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg. No
1.	solation, identification and characterization of phosphate solubilizing bacteria from different crop soils of Srivilliputtur Taluk, Virudhunagar District, Tamil Nadu	<i>Tropical Ecology</i>	2016, 57(3), pp. 465–474

2.	Antibacterial activity and heavy metal accumulation of edible oyster mushroom (<i>Pleurotus Sajor-Caju</i>) grown on two substrates	<i>International Journal of Pharmacy and Pharmaceutical Sciences</i> ,	2012, 4(2), pp. 238–240
3.	Phytochemical screening and Antimicrobial activity of <i>Borassus flabellifer</i> L. leaves exposed to human pathogens in collected from different geographical area in Thoothukudi District, Tamil nadu.	Eur. Chem. Bull.	2023, 12 (S3), 4255 – 4266

PUBLICATIONS: UGC LISTED JOURNALS

S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg. No
1.	Phytochemical screening and Antimicrobial activity of <i>Borassus flabellifer</i> L. leaves exposed to human pathogens in collected from different geographical area in Thoothukudi District, Tamil nadu.	Eur. Chem. Bull. 2023, 12 (S3), 4255 – 4266	20635346
2	Above ground biomass stockpile of Trees in Southern Tropical Region of G. Venkataswamy Naidu College Campus in Kovilpatti Taluk, Thoothukudi District, Tamil Nadu.	Journal of XI'an Shiyou University, Natural Science Edition	1673-064X
3	Comparative Phytoremediation Potential of <i>Amaranthus Spinousus</i> l. and <i>Brassica Juncea</i> HK.F. & T.For Soil Contaminated with Fireworks Pollutants.	Proceeding of International Conference "Environmental Pollution and Controlled Techniques"	9789356806948
4	"High efficiency phytoextraction of barium using <i>Amaranthus viridis</i> l. Fitoextracción de bario de alta eficiencia utilizando <i>Amaranthus viridis</i> l. "	Sustainability, Agri, Food and Environmental Research	0719-3726
5	Antimicrobial studies and GC-MS analysis on endocarp (young) of <i>Borassus flabellifer</i> L.	Antimicrobial studies and GC-MS analysis on endocarp (young) of <i>Borassus flabellifer</i> L.	0130-7673
6	Antimicrobial studies and GC-MS analysis on Cucumber Peel (<i>Cucumis sativus</i> L.)	International Journal of Pharmacy and Biological Sciences	2321-3272
7	Phytoremediation of soil contaminated with arsenic, nickel and copper	Indian Journal of Environmental Science	0971-8958
8	Comparative anatomical study of the grasses in the range lands of Kovilpatti, Tamil Nadu of India	Proceedings of Joint XXIV International Grassland and Rangeland Congress, Kenya.	978-9966-30-094-2
9	Phytoextraction potential of <i>Amaranthus</i>	"International Multidisciplinary Innovative Research Journal -An International refereed e-	2456 – 4613

		journal"	
10	Seasonal Diversity and Distribution of Butterflies in G.Venkataswamy Naidu College Campus, Kovilpatti, Tuticorin District, Tamil Nadu	Advances in Zoology and Botany 9(5) : 2021	2331-5091
11	<i>Amaranthus viridis</i> L. a best hyper accumulator for Arsenic Pollutants	International Journal of Scientific Research	2277-8179
12	Investigation on organ specific carbon concentration of Palmyra palm in Thoothukudi District, Tamil Nadu	International Journal of Botany Studies	2455-541X
13	Phytoremediation potential of Brassica Juncea in Nickel contaminated soil.	Indian Journal of Research of Research	2250 - 1991
14	Bioremoval of Gobalt Chloride by Sargassum Biomass	Journal of Bioremediation & Biodegradation	2155-6199
15	Stem Anatomy of Four Genera of Family Cucurbitaceae	International Journal of Advanced Research in Botany	2455-4316
16.	Importance of Lakes and Lake Bunds in Tamil Nadu and its conservation	Proceeding of the UGC Sponsored National seminar on Climate Change & Agricultural Development in India.	9386537881
17	Leaf Epidermal Features of Some Rangeland Species of Kovilpatti	Proceedings of the 10th IRC, Saskatoon, Canada.	978-1-77136-458-4
18	Isolation, Identification and Characterization of Phosphate solubilizing bacteria from different crop soils of srivilliputhur Taluk, Virudhunagar District, Tamil nadu.	<i>Tropical Ecology</i> 57(3): 465-474.	0564-3295 (IF - 0.887)
19	Antifertility activity in the acetone extracts of <i>Datura metel</i> L. seeds on female mouse.	Journal of Pharmacogenomics and Pharmacoproteomics. http://dx.doi.org/10.4172/2153-0645.1000111 .	2153-0645 (IF – 1.3)
20	Exploration of Different Azospirillum Strains from Various Crop Soils of Srivilliputtur Taluk.	J. Biofertil Biopestici. 2012. (3) 1.1000117.	2155-6202.
21	Effect of malathion in mediating stress response in <i>Oryza saliva</i> (L.).	South Asian Journal of Biological Sciences. 2012. 2 : 22-30.	2249-6599.

22	Comparative study on antibacterial activity and heavy metal accumulation of edible oyster Mushroom (<i>Pleurotus sajor-caju</i>) grown on two substrates.	International Journal of Pharmacy and pharmaceutical Sciences. 2012.4(2):238-240.	0975-1491. (IF - 0.38)
23	Beneficial usage of weeds in the tea fields of Pandalur village, Nilgiris District, Tamil Nadu.	Journal of Bioscience Research. 2011. 2(4) -.249-254.	0976-2272.
24	Folklore Usage of Medicinal Plants to Cure Dental Disorders among the People of Srivilliputtur Taluk, Virudhunagar District, Tamil Nadu.	International Journal of Pharmagenesis. 2011. 2(1): pp. 109-113.	0976-6154.
25	Some Common plants used by the people of Kovilpatti, Tamil Nadu, India to treat Rheumatism.	International Journal of Pharmaceutical Sciences and Research. 2011. Vol. 2(7): 1659-1661.	0975-8232.
26.	Leaf life span pigment and Mineral Concentrations of Two Semi Deciduous Forest Species.	South Asian Journal of Biological Sciences. 2012. 2(3): 167-172	2249-6599.
27.	Biosynthesis of silver nanoparticles using silver nitrate through biotransformation.	Journal of Ecobiotechnology. 2011. 2/11: 13-18.	2077-0464.
28.	A survey of Medically Important Plants in and around Srivilliputtur Taluk, Virudhunagar District, Tamil Nadu.	International Journal of Pharma, Research & Development Online (IJRD). 2011. Vol 3(2): 77-86.	0974-9446.
29.	Effect of light quantity and quality on the seedling development of <i>Dalbergia latifolia</i> .	International Journal of Plant Sciences. 2008 Vol.3. No.2: 587-592	0973-1547
30.	Provenance variation in growth and morphological characteristics of <i>Casuarina equisetifolia</i> grown in Semi arid region, Madurai.	Journal of Tree Science 19(2) : 22-32.	0970-7662
31.	Influence of shading on net photosynthetic rate, stomatal conductance and nitrate reductase of <i>Dalbergia sissoo</i> .	Journal of Current Bio Sciences, Vol 2 (2): 162-167.	2277-9493
32.	Effect of light quantity and quality on the seedling development of <i>Dalbergia latifolia</i> .	Journal of Current Bio Sciences, 2 (2) 290-298	2277-9493
33.	Heavy metals in some environmental samples around a few industrial location of Tuticorin Coast.	Ecol.Env & Cons. 7 (4) ;pp (379-385) .	0971-765X
34.	Plant characteristics, growth and fruit yield of <i>Capsicum annum</i> L. as affected by	Proceeding of the UGC Sponsored	978-93-5104-770-4.

	organic manure in pot culture.	National Conference on Environment & Sustainable Development.	
35	Antioxidant and Antimicrobial Properties of <i>Bacopa Monnieri</i> L.	International Journal of Biological Technology special Issue, Proceedings of the National Conference. Pp: 127-134	0976-4313
36	Knowledge of Ethnomedicine and Healthcare Practices among the tea plantation Labours of Valparai, Western Ghats, India.	International Journal of Biological Technology special Issue, Proceedings of the National Conference. Pp: 254-260	0976-4313
37	Effect of NaCl on forage crops Sorghum (<i>Sorghum vulgare</i>) seed germination.	Diverse Rangeland for a sustainable Society, Rosario, Argentina. Cataloguing in Publication, Argentina. Vol.1.437.	978-987-23175-1-5.
38	Industry, University Linkage for Students Employability.	Achieving Academic Excellence through Internal Quality Assurance cell (IQAC). 2011. Pp No : 22-27.	978-1-4507-8489-4.
39	A comparative study of matric and osmotic water stress on pearl millet (<i>Pennisetum typhoides</i>).	Diverse Rangeland for a sustainable Society, Rosario, Argentina. Cataloguing in Publication, Argentina. 2011. Vol.1.438.	978-987-23175-1-5.
40	'Effects of water and nutrient treatment on gas exchange and water relations of two <i>Casuarina equisetifolia</i> clones. Multifunctional Grasslands in a Changing World	Multifunctional Grasslands in a Changing World. Vol I .329.	978721805854-2.
41	Role of <i>Casuarina equisetifolia</i> in stabilization of shifting sand and its Impact on Integrated Rangeland Rehabilitation	African Journal of Range and Forage Science. Proceedings of IRC	1022-0119

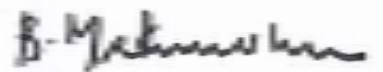
PATENT/COPYRIGHT DETAILS			
S.No	Title of the Patent / Copy Right / Technology transferred	Year	Status (Filed / Granted)
1.	Computer Software created with VBA in MS Excel.	2021	Granted – Copyright SW-14798/2021
2.	Isolation of Bioactive Molecules from the Operculum of Muricidae Gastropod Against Bone Cancer.	2021	Patent Published 202141043478 A
3.	Plant Seed Jewellery	2021	Copyright – Filed 18652/2021-CO/A
4.	Attendance Management System using open-CV	2022	Granted – Copyright SW-15992/2023
5.	Bio Face Mask Design Patent	2023	Design Patent Published 371452-001-26.09.2022

SEMINAR/WORKSHOP ORGANIZED			
S.No	Name of the Seminar/ Workshop Organised	Funding Agency	Venue & Date
1.	National Seminar on “Recent Trend in Plant Sciences and Biodiversity in Changing Environment.”	University Grants Commission, New Delhi.	G. Venkataswamy Naidu College, 22 nd to 23 rd January 2010.
2.	National Workshop on “Education through Information and Communication Technology and E-content development for College Teachers”	University Grants Commission, New Delhi.	G. Venkataswamy Naidu College, 14 th to 17 th September 2011.
3.	Environment and Sustainable Development: Issues and Challenges	University Grants Commission, New Delhi.	G. Venkataswamy Naidu College, 22 nd and 23 rd February 2013.
4.	Two day Workshop on “Statistical Methods and Applications”	Management	G. Venkataswamy Naidu College, 8 th and 9 th February 2016.
5.	One day workshop on “Mushroom Cultivation”	NSS	G. Venkataswamy Naidu College, 18 th January 2017.
6.	Science Academies’ sponsored lecture workshop on “Recent Advances in Biological Sciences”	Indian National Science Academy, Bangalore	G. Venkataswamy Naidu College, 26 th and 27 th Septemebre 2017.
7.	One day workshop on “Disaster Management”	National Disaster Management Authority	G. Venkataswamy Naidu College, 12 th December 2017.

8.	A one day popularisation of science workshop on “Conservation and Management of Marine resource in Gulf of Mannar”	TNSCST & NCSTC	G. Venkataswamy Naidu College, January 11, 2018.
9.	One day workshop on “Bee Keeping”	NSS	G. Venkataswamy Naidu College, 4 th February 2019.
10.	A three day programme on ‘Creation of Scientific Awareness’	TNSCST	G. Venkataswamy Naidu College, 6-8 th February 2019.
11.	National Conference on Conservation and Role of Academic Institutions.	Mag Edu Solutions Pvt. Ltd. Chennai	G.Venkataswamy Naidu Collge, 19 th August 2019.
12.	Webinar on “Environment and Covid-19 Pandemic”	Management	G.Venkataswamy Naidu Collge, 16 th May 2020.
13.	International Webinar on “The Science of Epigenetics”	Management	G.Venkataswamy Naidu Collge, 22 nd July 2020.
14.	Webinar on National Education Policy 2020.	Management	G.Venkataswamy Naidu Collge, 26 th September 2020.
15.	Workshop on Question Paper Settings in OBE	Management	G.Venkataswamy Naidu Collge, 5 th & 6 th January 2021.
16.	Two Day technical workshop on IPR	TNSCST	G.Venkataswamy Naidu Collge, 21 & 22, July, 2023.

MEMBERS IN PROFESSIONAL BODY

S. No	Name of the Body	Member ID	Location of the BOdy
1	Society for the Advancement of Library & Information Science (SALIS).	578947	Tamil Nadu
2	Bombay Natural History Society	0-71087	Bombay
3	Institute of Researchers	LMO22130	Kottaym
4	International Organization of Paleobotany.	-	Lucknow



Date : 26.07.2024

Signature