

**D.D.G.D. VAISHNAV COLLEGE (AUTONOMOUS)**

1	<b>Name</b>	Dr. M.D. BalaKumaran
2	<b>Designation</b>	Assistant Professor & Head
3	<b>Department</b>	Post Graduate Department of Biotechnology
4	<b>Employee Id</b>	EC04002
5	<b>Date of Birth</b>	26.12.1982
6	<b>Gender</b>	Male
7	<b>Date of Appointment in this institution</b>	10.06.2016
8	<b>Experience in this institution</b>	6.5 Years
9	<b>Official Mail Id</b>	balakumaran@dgvaishnavcollege.edu.in
10	<b>Blood Group</b>	A1B Positive

11	<b>EDUCATION DETAILS (from highest qualification):</b>				
S.No.	Degree	Institution	University	Year of study	Grade/Class
1.	Ph. D.,	Centre for Advanced Studies in Botany	University of Madras	2012-2015	Highly commended
2.	SET	Mother Teresa Women's University	Mother Teresa Women's University	20016	-
3.	M. Phil.,	Bharathidasan University	Bharathidasan University	2006-2008	1st Class with Distinction
4.	P.G. Diploma	Loyola Institute of Vocational Education	Loyola College	2005-2006	1st Class with Distinction
5.	M. Sc.,	Asan Memorial College of Arts and Science	University of Madras	2003-2005	2nd Class

12	<b>Details of ORIENTATION/REFRESHER COURSES attended:</b>			
S.No.	Orientation/Refresher	University/Institution	Duration	Date (from-to)
1.	One week "Faculty Orientation Programme"	"Internal Quality Assurance Cell", D.G.Vaishnav College, Arumbakkam, Chennai	7 days	21.11.2018 to 27.11.2018
2.	National Level "Orientation Program for Designing Doctoral Research"	Department of Biotechnology, AMET University, Chennai	1 day	03.02.2011

13	<b>Details of SEMINARS, CONFERENCES, WORKSHOPS, FDPs etc. attended:</b>				
S.No	Type (Regional/ National/	Theme (Workshop/Conference/ Seminar/FDP)	Organized by	Duration	Date

	<b>International)</b>				
1.	National	"Five-day Online Faculty Development Program (FDP) on Recent Advances in Science, Technology, Engineering and Mathematics (STEM)"	School of Allied Health Sciences, REVA University	1 Week	16.08.2021 - 19.08.2021, 23.08.2021
2.		Emerging Techniques in Biomedical Instrumentation-ETBI-2021	Koneru Lakshmaiah Education Foundation	1 Week	28.06.2021 to 03.07.2021
3.	International	International Faculty Development Program on Novel Materials for Energy and Biomedical (Covid-19) Healthcare Application	Department of Science & Humanities, M.Kumarasamy College of Engineering (Autonomous), Karur	6 days	11.05.2020 & 16.05.2020
4.	National	Three Day National Level Faculty Development Programme on 'Recent Trends In Artificial Intelligence And Impact On Teaching Professionals'	School of Business Management, Rathnavel Subramaniam College of Arts & Science, Autonomous, Coimbatore	3 days	22.04.2020 To 24.04.2020
5.	National	National Workshop on "Good Laboratory Practices"	Department of Biotechnology, Guru Nanak College, Chennai.	2 days	09 .02.2018& 10.02.2018
6.	National	Participated in 7-days workshop on "Medical Textiles" sponsored by UGC and MHRD	Department of Textile Technology, Anna University, Chennai.	7-days	14.03.2016 to 20.03.106

<b>14</b>	<b>Details of Papers published in CONFERENCES/attended Conferences:</b>				
<b>S. No</b>	<b>Type (Regional/National/International)</b>	<b>Name of the Conference</b>	<b>Name of the paper presented/Attended</b>	<b>Organized by</b>	<b>Date</b>
1.	International	International Conference on "Biotechnological Emergence in	Potential Use Of Halophilic Bacteria For The Production Of Primal And Secondary	Department of Biotechnology,	22.12.2022 & 23.12.2022

		Science and Technology" (ICBEST - 2022)	Metabolic Metabolites	SRMIST, Chennai	
2.	International	International virtual conference on Recent Advances in Biotechnology and Environmental Health Research	Bioactive potential of Halophilic bacteria for the production of primary and secondary metabolites	Department of Biotechnology, CSH, SRMIST, Ramapuram Campus	28.10.2021 & 29.10.2021
3.	International	International E-Conference 2021 on Novel Biotechnological Approach to Sustain in Pandemic Scenario	Isolation, characterization and antimicrobial potential of Streptomyces sp. from soil and a study on its antibacterial activity against clinical pathogens	Dept. of Biotechnology & Research, SNMV College	15.09.2021-17.09.2021
4.	International	International E-Conference 2021 on Novel Biotechnological Approach to Sustain in Pandemic Scenario	Effect of sand dune plant extracts against primary fouling marine organisms	Dept. of Biotechnology & Research, SNMV College	15.09.2021-17.09.2021
5.	International	International Web Conference on Advanced Materials Science and Engineering (ICAMSE – 2020) during September 11-12, 2020.	Synergetic antibacterial efficacy of bacteriocin with chitosan and silver nanoparticles as a potential biopreservative	Department of Physics, Bannari Amman Institute of Technology (BIT), Sathyamangalam	11.09.2020 to 12.09.2020
6.	International	Virtual conference on Aquaculture Techniques and Disease Management ATDM 2020	Exploring the bioactive potential of halophilic bacteria for multienzyme, polyhydroxy butyrate production and removal of hexavalent chromium from aqueous solution	Centre for Ocean Research at Col. Dr.Jeppiaar Research Park,Sathyabama Institute of Science and	14.09.2020 to 17.09.2020

				Technology, Chennai, Tamilnadu	
7.	National	National Conference on Recent Advances in Chemical Research, SRM Institute of Science & technology	Biodegradation and Bioremediation of reactive red using <i>Bacillus subtilis</i> isolated from oil contaminated soil sample	Department of Chemistry, SRM Institute of Science and Technology, Ramapuram, Chennai	12.09.2019
8.	International	International Conference on Current Research and Developments in Microbiology	Biosorption Studies Of <i>Aspergillus Niger</i> Dead Biomass Against Hexavalent Chromium Ions	Department of Microbiology, Saveetha Dental College, Chennai	03.08.2019
9.	International	International Conference on Current Research and Developments in Microbiology	Applications of microbial biopolymer in food packaging industry	Department of Microbiology, Saveetha Dental College, Tamil Nadu	03.08.2019
10.	National	7th National Conference on Emerging trends and New Challenges in Biotechnology - Advances in Bioplastics (NCETNCB-2019)	Microbial production of polyhydroxybutyrate using fruit peel waste – An economical aspect	PG and Research Centre in Biotechnology, MGR College, Hosur, Tamil Nadu.	30.01.2019 & 31.01.2019
11.	International	3rd International Conference on Recent Trends in Microbiology (RTM-2019)	Microbial removal of hexavalent chromium ions using <i>Aspergillus niger</i> isolated from oil contaminated soil	Department of Microbiology, Algappa University, Karaikudi, Tamil Nadu	24.01.2019 & 25.01.2019
12.	International	“Emerging Trends in Commerce, Management, Economics,	Bacterial decolorization of the reactive red, textile Dyes using <i>Bacillus subtilis</i> isolated from soil	Tagore College of Arts and Science, Tamil Nadu.	02.02.2018

		Computer Science and Microbiology (ICETCMECM 2018)”	sample and its phytotoxic studies		
13.	National	National Conference on “Recent Trends & Development in Health and Chemical Sciences	Biosorption of hexavalent chromium using <i>Aspergillus niger</i> and its optimization studies	PG and Research Department of Biochemistry & Departments of Microbiology, Chemistry and Psychology, Bhaktavatsalam Memorial College for Women, Chennai, Tamil Nadu	30.01.2018 & 31.01.2018
14.	International	International Conference on “Food Microbiology and Food Safety - Upcoming Changes, Technologies & Emerging Risks”	Utilization of agro food residues for the production of biodegradable polymer using polyhydroxybutyrate accumulating bacteria	PG and Research Department of Microbiology, DG Vaishnav College, Tamil Nadu.	11.10.2017
15.	National	10th NABS- National Conference on “Recent trends in Life Science: Research, Practices and Application for Sustainable Development	Antibacterial activity of silver nanoparticles using <i>Aspergillus terreus</i> and the biosorption ability of <i>A. terreus</i> dead biomass for the removal of silver nanoparticles	Bharathiar University, Coimbatore, Tamil Nadu	07.09.2017 & 08.09.2017
16.	National	One day National Seminar on “Awareness on Pathogen Carriage, Prevention and	Antimicrobial evaluation of cotton fabrics coated with biologically synthesized silver nanoparticles	Research Department of Microbiology, M.R. Government	28.07.2017

		Personal Health Promotion among rural adolescent learners of higher education”		Arts College, Mannargudi, Tamil Nadu	
17.	National	3rd National Conference on “New Renaissance in Chemical Research (NCNRCR - 2016)”	Removal of hexavalent chromium using metal resistant fungi isolated from tannery industry waste water	Department of Chemistry, Faculty of Science and Humanities, SRM Institute of Science and Technology, Tamil Nadu	19.08.2016
18.	National	National Conference on "Challenges and Opportunities in Mycological Research”	Screening of soil fungi for silver nanoparticles synthesis and their antimicrobial activity against human pathogens	Centre for Advanced Studies in Botany, University of Madras, Chennai, Tamil Nadu	11.02.2016 & 12.02.2016
19.	National	One-day National Seminar on “Contemporary Molecular Techniques and their Potential Applications in Current Applied Biology”	Mycosynthesis of silver nanoparticles using <i>Aspergillus niger</i> and their antibacterial activity against Methicillin Resistant <i>Staphylococcus aureus</i>	Research Department of Microbiology, M.R. Government Arts College, Mannargudi, Tamil Nadu.	30.01.2015
20.	International	International Conference on “Innovations and Future Research Dimensions on Nano Biopharmaceutical Technology	In vitro cytotoxicity assessment of silver nanoparticles synthesized using <i>Aspergillus terreus</i> against breast cancer cell line	Department of Pharmaceutical Technology, Anna University, BIT Campus, Tiruchirappalli, Tamil Nadu.	07.10.2014 & 08.10.2014
21.	International	International Seminar on	Biological synthesis of silver nanoparticles	Department of	21.07.2014

		“Nanobiotechnology in Cancer Research”	using <i>Aspergillus terreus</i> and its in vitro cytotoxic effect on human cervical cancer cell line	Biotechnology, Periyar University, Salem, Tamil Nadu	
22.	National	National Seminar on “Challenges for Microbiologists’ to become Bio-Entrepreneurs”	Utilization of fruit waste extracts for PHB production using <i>Bacillus subtilis</i> and its textile dye decolourization studies	Department of Microbiology, Periyar University, Salem, Tamil Nadu.	27.08.2014
23.	National	National Conference on “Recent Advances in Algology, Mycology and Plant Pathology”	Antifungal activity of silver nanoparticles synthesised from <i>Aspergillus niger</i>	Centre for Advanced Studies in Botany, University of Madras, Chennai.	19.02.2014 & 20.02.2014
24.	National	National Conference on “Challenges in Biomaterials Research”	Mycogenic synthesis of silver nanoparticles using <i>Aspergillus terreus</i> and its potency against Methicillin Resistant <i>Staphylococcus aureus</i>	VIT University, Vellore, Tamil Nadu.	23.12.2013 & 24.12.2013
25.	National	National Seminar on “Current Perspectives of Fungi in Health Care and Environment”	Fungus mediated synthesis of silver nanoparticles by <i>Aspergillus terreus</i> and evaluation of antibacterial activity of silver nanoparticles coated cotton fabrics	Department of Microbiology and Biotechnology, Bangalore University, Bangalore.	13.03.2013 & 14.03.2013
26.	International	Second International Workshop on “Advanced Functional Nanomaterials”	Biological synthesis of silver nanoparticles using <i>Aspergillus terreus</i> and its antibacterial potential of silver nanoparticles coated cotton fabrics	Anna University, Chennai	28.01.2013 to 30.01.2013
27.	National	National Conference on "Recent Advances in Algal Biotechnology”	Carbon sequestration by microalgae – A plausible solution	Centre for Advanced Studies in Botany, University of Madras, Chennai.	16.02.2012 & 17.02.2012
28.	National	National	Utilization of agro food	Indian	24.06.20

		Conference on “Career and Research Trends in Food Processing”	processing wastes for biopolymer production	Institute of Crop Processing Technology, Thanjavur, Tamil Nadu.	11 & 25.06.20 11
29.	International	International Conference on “Recent Trends in Life Sciences”	“Carbon sequestration by microalgae – An Innovative trajectory”	P.G. and Research Department of Zoology, Holy Cross College, Tiruchirapp alli, Tamil Nadu.	17.02.20 11 to 18.02.20 11
30.	International	International Conference on Bio-energy from Wastes: Green chemistry intervention	“Biosolids - A prospective energy source”	National Environmen tal Engineering Research Institute, Nagpu	25.11.20 10 & 26.11.20 10
31.	International	International Seminar on “Microbes - Elixir of Life”	“Carbon sequestration by microalgae – A plausible solution”	Department of Microbiolog y, Dr. MGR Janaki College of Arts and Science for Women, Chennai	28.10.20 10 & 29.10.20 10

15	Details of visit as a RESOURCE PERSON:			
S.No	Type (Guest Lectures, Workshops, Conferences Or Seminars/ Ph.D, Viva-voce Examination)	Title	Institution Name	Date
1.	1st International Symposium on Chemical and Environmental Engineering 2021 (ISECE 20 21)	Invited Speaker - Utilization of biosolids as carrier material for sustainable agriculture	Tecno Scientifica and Biointerface Research in Chemistry.	26.11.2021
2.	National Level Virtual Program on "World Antimicrobial Awareness	Invited Speaker - Silver Nanoparticles and	Department of Sciences, St. Mary's College,	17.11.2021



	Week" organized by the	its Antimicrobial Approach	Hyderabad, Telangana	
3.	Project MANAV – The Human Atlas Initiative	MANAV Scientific Reading and Comprehension Self-Assessment Module (for students)”	-	September, 2021 to October, 2021
4.	International virtual conference on Recent Advances in Biotechnology and Environmental Health Research	Chairperson	Department of Biotechnology, CSH, SRMIST, Ramapuram Campus	28.10.2021 & 29.10.2021
5.	National Webinar	Invited Speaker - Basics Of Cancer Cell Culture Techniques	Department of Biotechnology, SRM College of Science and Technology, Chennai	27.10.2020
6.	Two days National workshop on “Basic Molecular Techniques in Biotechnology” (NWMTB-2019)	Organizing Secretary	Department of Biotechnology, D.G. Vaishnav College, Chennai.	03.09.2019 - 04.09.2019
7.	National Seminar on “Biotechnological approaches towards sustainable future” (NSBA-2018)	Organizing Secretary	Department of Biotechnology, D.G. Vaishnav College, Chennai.	28.02.2018
8.	International Conference on Emerging Trends in Commerce, Management, Economics, Computer Science and Microbiology	Chairperson	Tagore College of Arts & Science, Chennai	02.02.2018
9.	National Level Intercollegiate Meet on “Upshot of Nano Biotechnology in Biological Science – A Short Hookup“	Invited Speaker - Nano Biotechnology and its application”	Jairam Arts & Science College, Salem, Tamil Nadu	22.11.2017
10.	National Workshop on “Nanobiotechnology and Molecular Biology - 2012”	Resource Person	Centre for Advanced Studies in Botany, University of Madras, Chennai.	25.09.2012 to 28.09.2012; 27.11.2012 to 30.11.2012; 11.12.2012 to 14.12.2012.
11.	Training program on	Resource Person	Centre for	09.02.2012

	“Standardization and Determination of Cost-effective Agricultural Inputs for Sustainable Farming by Selected Farmers for Income Generation”		Advanced Studies in Botany, University of Madras, Chennai.	to 15.02.2012
12.	National Workshop on “Nanobiotechnology and Molecular Biology - 2011”	Resource Person	Centre for Advanced Studies in Botany, University of Madras, Chennai.	06.07.2011 to 09.07.2011; 06.09.2011 to 09.09.2011;

16	Details of publication of Articles/ Chapters written in EDITED BOOKS:			
S.No	Book Name	Title of Articles/Chapters	Name & Address of the Publisher	Month & Year of Publication
1.	Microbes and Microbial Biotechnology for Green Remediation	Microalgal adsorption of carbon dioxide: a green approach,	Elsevier	2022
2.	Advances in Bioremediation and Phytoremediation for Sustainable Soil Management.	Bioremediation of Tannery Effluent Contaminated Soil: A Green Approach.	Springer, Cham	2022
3.	Fundamentals on Plant and Soil Microbial Interactions (Theory and Practice)	Microbial Phosphorus Solubilization and Its Role in Enhancing the Growth of <i>Vigna unguiculata</i>	Bharti Publications	2021
4.	Modern Methods in Phytomedicine	Cancer chemopreventive effects of garlic-derived second generation organosulfides: An overview.	Daya Publishing House, New Delhi, India	2015

17	Details of individual/collaborative MAJOR/MINOR research project undertaken:					
S.No	Title of the Project	Name & Address of the Collaborating Faculty	Funding Agency	Fund Sanctioned	Period	Duration
Nil	Nil	Nil	Nil	Nil	Nil	Nil

18	Details on RESEARCH GUIDANCE:				
S.No	Type (FT/PT)	Name of the candidate	Title of the Dissertation	University	Status
Nil	Nil	Nil	Nil	Nil	Nil

19	Details of papers published in JOURNALS:						
S. No	Journal Type (National/International)	Name of the Journal	Title of the article	Name of the Co-authors	Vol No, Issue No, Page Nos. ISSN No/DOI	Month and year of Publication	Impact Factor/S CI/S copu s (if any)
1.	International	Jundishapur Journal of Microbiology	<i>Streptomyces</i> sp Isolated from Vermicasts: Statistical Optimization of Culture Conditions for the Production of Bioactive Compounds	P.Vidya, S. Jagadeeswari, U. Sharmila, <b>M.D.Balakumaran</b>	15 (1), Pg.No: 2164-2171 ISSN: 2008-3645	May, 2022	0.82
2.	International	Trends in Sciences	In Silico Molecular Interaction Analysis and Pharmacokinetic Profiling of Flavonoids from <i>Catharanthus roseus</i> (Flower) Against TXNIP Protein	RRNS Pushpa, KS Babulal, R Kumaran, G Shoba, <b>MD Balakumaran</b>	20 (1), 6394-6394	2022	-
3.	International	<i>International Journal of Phytoremediation</i>	Integrating eco-technological approach for textile dye effluent treatment and carbon dioxide capturing from unicellular microalga <i>Chlorella vulgaris</i> RDS03: a synergistic	Silambarasan T.S., <b>BalaKumaran M.D.</b> , Ravikumar C., Sanjivkumar M., Dhandapani R. and Sendilkumar B .	pp.1-17 /https://doi.org/10.1080/15226514.2022.2090497	2022	<b>IF: 3.968</b>

			method.				
4.	International	<i>Chemosphere</i>	A review on the toxicity of silver nanoparticles against different biosystems.	Ramachandran R., PeiPei H., Krishnaraj C., <b>BalaKumaran M.D.</b> , Soon-Il Y. and Bo L	292, p.133397/ <a href="https://doi.org/10.1016/j.chemosphere.2021.133397">https://doi.org/10.1016/j.chemosphere.2021.133397</a>	2022	<b>IF: 8.943</b>
5.	International	<i>Journal of Molecular Structure</i>	Structural characterization, spectral investigation and antimicrobial studies Of ZnWO <sub>4</sub> and Zn <sub>0.9</sub> Cu <sub>0.1</sub> WO <sub>4</sub> nanoparticles synthesized by microwave and sucrose mediated solgel method	Kavitha K., Kumaran R., <b>BalaKumaran M.D.</b> , Augustine Arul Prasad T. and Vasanthi R	1253, p.132067/ <a href="https://doi.org/10.1016/j.molstruc.2021.132067">https://doi.org/10.1016/j.molstruc.2021.132067</a>	2022	<b>IF: 3.841</b>
6.	International	<i>Materials Technology</i>	Comparative analysis of antifungal, antioxidant and cytotoxic activities of mycosynthesized silver nanoparticles and gold nanoparticles	<b>BalaKumaran M.D.</b> , Ramachandran R., Balashanmugam, P., Jagadeeswari, S. and Kalaichelvan, P.T	pp.1-11/ <a href="https://doi.org/10.1080/10667857.2020.1854518">https://doi.org/10.1080/10667857.2020.1854518</a>	2022	<b>IF: 3.846</b>
7.	International	<i>ACS omega</i>	Electrochemical Investigation and Molecular Docking Techniques on the Interaction of Acridinedione Dyes with Water-Soluble Nonfluorophoric Simple Amino Acids.	Anupurath S., Vasanthi R., Shoba G., Anju K., Sangeetha M.S., Seba Merin V., <b>Balakumaran M.D.</b> , and Kumaran R.	6(46), pp.30932-30941/ <a href="https://doi.org/10.1021/acsoomega.1c03172">https://doi.org/10.1021/acsoomega.1c03172</a>	2021	<b>IF: 4.132</b>
8.	International	<i>Results in Chemistry</i>	Photophysical and molecular docking studies of photoinduced electron transfer (PET) and non-	Sumita, A., Shoba, G., Selvan, R.T., Anju, K., <b>Balakumaran M.D.</b> and	3, p.100187/ <a href="https://doi.org/10.1016/j.rechem.2021.100187">https://doi.org/10.1016/j.rechem.2021.100187</a>	2021	<b>Scopus Indexed</b>

			PET based fluorophores of acridinedione derivatives with a glycoprotein: Ovalbumin	Kumaran, R			
9.	International	<i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i>	Interaction of acridinedione dye with a globular protein in the presence of site selective and site specific binding drugs: Photophysical techniques assisted by molecular docking methods.	Anju, K., Shoba, G., Sumita, A., <b>Balakumaran, M.D.</b> , Vasanthi, R. and Kumaran, R.	258, p.119814/ <a href="https://doi.org/10.1016/j.saa.2021.119814">https://doi.org/10.1016/j.saa.2021.119814</a>	2021	<b>IF: 4.098</b>
10.	International	<i>Journal of Inorganic Biochemistry</i>	Controlling the reactivity of [Pd (II)(N <sup>+</sup> N <sup>+</sup> N) Cl] <sup>+</sup> complexes using 2, 6-bis (pyrazol-2-yl) pyridine ligands for biological application: Substitution reactivity, CT-DNA interactions and in vitro cytotoxicity study	Onunga, D.O., Bellam, R., Mutua, G.K., Sitati, M., <b>BalaKumaran, M.D.</b> , Jaganyi, D. and Mambanda, A	p.111261/	2020	<b>IF: 3.212</b>
11.	International	<i>RSC Advances</i>	Seven membered chelate Pt (ii) complexes with 2, 3-di (2-pyridyl) quinoxaline ligands: studies of substitution kinetics by sulfur donor nucleophiles, interactions with CT-DNA, BSA and in vitro cytotoxicity activities	Bellam, R., Jaganyi, D., Mambanda, A., Robinson, R. and <b>BalaKumaran, M.D.</b>	9(55), pp.31877-31894/ <a href="https://doi.org/10.1039/C9RA06488E">https://doi.org/10.1039/C9RA06488E</a>	2019	<b>IF: 3.119</b>
12.	International	<i>International</i>	Studies on utilization of fruit	Santhi R, <b>Balakumaran</b>	8(3), 379-387.	2018	-

		<i>Journal of Pharmacy and Biological Sciences</i>	peel extracts for the production of polyhydroxybutyrate using <i>Bacillus subtilis</i>	<b>MD</b>			
13.	International	<i>International Journal of Pharmacy and Biological Sciences</i>	Screening, partial purification and characterization of antimicrobial compound from <i>Streptomyces rochei</i> SJKS1 isolated from the seashore soil of Dhanushkodi	Kiran Sharma B, <b>Balakumaran MD</b> , Kirthiga B, Jagadeeswari S	8(4), 518-528	2018	-
14.	International	<i>The Pharma Innovation Journal</i> ,	Exploitation of agro industrial residues as a substrate for the biodegradable polymer production using polyhydroxybutyrate accumulating bacteria.	<b>Balakumaran , M.D.</b> , Santhi R, Jagadeeswari S	6(11), 702-706.	2017	-
15.	International	<i>Appl Organometal Chem</i>	Solvent-assisted formation of ruthenium(II)/copper(I) complexes containing thiourea derivatives: Synthesis, crystal structure, density functional theory, enzyme mimetics and <i>in vitro</i> biological perspectives	Vijayan, P., Viswanathamurthi, P., Sugumar, P., Ponnuswamy, M.N., Malecki, J.G., Velmurugan, K., Nandhakumar, R., <b>Balakumaran , M.D.</b> and Kalaichelvan, P.T.	31:e3652/https://doi.org/10.1002/aoc.3652	2017	<b>IF: 3.14</b>
16.	International	<i>Inorganica Chimica Acta</i>	Synthesis, crystal structure, biomolecular interactions and anticancer properties of Ni (II), Cu (II) and Zn (II) complexes bearing S-allyldithiocarbamate	Nanjundan, N., Narayanasamy, R., Butcher, R.J., Jasinski, J.P., Velmurugan, K., Nandhakumar, R.,	455, pp.283-297/	2017	<b>IF: 2.304</b>

			te.	<b>Balakumaran M.D.,</b> Kalaichelvan, P.T. and Gnanasoundari, V.G.			
17.	International	<i>Journal of Photochemistry and Photobiology B: Biology</i>	Phytosynthesized gold nanoparticles from <i>C. roxburghii</i> DC. leaf and their toxic effects on normal and cancer cell lines.	Balashanmugam, P., Durai, P., <b>Balakumaran, M.D.</b> and Kalaichelvan, P.T.,	165, pp.163-173	2016	<b>IF: 4.383</b>
18.	International	<i>Inorganica Chimica Acta,</i>	Toward a new avenue in ruthenium-sulphur chemistry of binuclear $\mu$ -sulphido bridged ( $\mu$ -S) $2$ complexes having Ru $2$ S $2$ core: Targeted synthesis, crystal structure, biomolecules interaction and their in vitro anticancer activities.	Vijayan, P., Viswanathamurthi, P., Sugumar, P., Ponnuswamy, M.N., Velmurugan, K., Nandhakumar, R., <b>Balakumaran, M.D.</b> and Kalaichelvan, P.T.,	453, pp.596-617.	2016	<b>IF: 2.304</b>
19.	International	<i>ChemPlus Chem</i>	Luminescent Silver–Purine Double Helicate: Synthesis, Self-Assembly and Antibacterial Action	Venkatesh, V., <b>Balakumaran, M.D.,</b> Saravanan, R.K., Kalaichelvan, P.T. and Verma, S	81(12), pp.1266-1271	2016	<b>IF: 2.753</b>
20.	International	<i>Microbiological Research</i>	Phytogenic synthesis of silver nanoparticles, optimization and evaluation of in vitro antifungal activity against human and plant pathogens	Balashanmugam, P., <b>Balakumaran, M.D.,</b> Murugan, R., Dhanapal, K. and Kalaichelvan, P.T	192, pp.52-64	2016	<b>IF: 3.97</b>
21.	International	<i>Polyhedron</i>	Distorted	Nanjundan N,	110: 203-	2016	<b>IF:</b>

	nal	n	tetrahedral bis-(N,S) bidentate Schiff base complexes of Ni(II), Cu(II) and Zn(II): Synthesis, characterization and biological studies	Narayanasamy R, Geibb S, Velmurugan K, Nandhakumar R, <b>Balakumarn MD</b> , Kalaichelvan PT.	220		<b>2.343</b>
22.	International	<i>International Biodeterioration &amp; Biodegradation</i>	<i>In vitro</i> biological properties and characterization of nanosilver coated cotton fabrics - An application for antimicrobial textile finishing	<b>Balakumaran MD</b> , Ramachandran R, Jagadeeswari S, Kalaichelvan PT.	107: 48-55	2016	<b>IF: 4.074</b>
23.	International	<i>Microbiological Research</i>	Mycosynthesis of silver and gold nanoparticles: optimization, characterization and antimicrobial activity against human pathogens	<b>Balakumaran MD</b> , Ramachandran R, Balashanmugam P, Mukeshkumar DJ, Kalaichelvan PT	182: 8-20	2016	<b>IF: 3.97</b>
24.	International	<i>Journal of Academia and Industrial Research</i>	Synthesis, Characterization and Antibacterial Activity of Chitosan Nanoparticles and its Impact on Seed Germination	Hipalaswins W.M., <b>Balakumaran M.D.</b> and Jagadeeswari S	5(5), p.65.	2016	-
25.	International	<i>Microbiological Research</i>	Exploitation of endophytic fungus, <i>Guignardia mangiferae</i> for extracellular synthesis of silver nanoparticles and their <i>in vitro</i> biological activities	<b>Balakumaran MD</b> , Ramachandran R, Kalaichelvan PT.	178: 9-17	2015	<b>IF: 3.97</b>
26.	International	<i>RSC Advances</i>	Nickel(II) and copper(II)	Vijayan P, Periasamy V,	5:103321-103342	2015	<b>IF: 3.119</b>



			complexes constructed with N2S2 hybrid benzamidine-thiosemicarbazone ligand: Synthesis, X-ray crystal structure, DFT, kinetic-catalytic and <i>in vitro</i> biological applications	Velmurugan K, Nandhakumar R, <b>Balakumaran MD</b> , Kalaichelvan PT, Jan M			
27.	International	<i>RSC Advances</i>	Osteoblast compatibility of minerals substituted hydroxyapatite reinforced poly(sorbitol sebacate adipate) nanocomposites for bone tissue application	Govindaraj D, Rajan M, Munusamy MA, <b>Balakumaran MD</b> , Kalaichelvan PT	5: 44705-44713	2015	<b>IF: 3.119</b>
28.	International	<i>Journal of Photochemistry and Photobiology B: Biology</i>	Structural characterization, antioxidant and <i>in vitro</i> cytotoxic properties of seagrass, <i>Cymodocea serrulata</i> (R.Br.) Asch. & Magnus mediated silver nanoparticles	Chanthini AB, Balasubramani G, Ramkumar R, Sowmiya R, <b>Balakumaran MD</b> , Kalaichelvan PT, Perumal P	153: 145-152	2015	<b>IF: 4.383</b>
29.	International	<i>Inorganic Chemistry Frontiers</i>	Unprecedented formation of organo-ruthenium (ii) complexes containing 2-hydroxy-1-naphthaldehyde S-benzylidithiocarbamate: synthesis, X-ray crystal structure, DFT study and their biological activities <i>in vitro</i>	Vijayan P, Viswanathamurthi P, Sugumar P, Ponnuswamy MN, <b>Balakumaran MD</b> , Kalaichelvan PT, Velmurugan K, Nandhakumar R, Butcher RJ	2: 620-639	2015	<b>IF: 5.958</b>
30.	International	<i>Microbiology</i>	Exploitation of Agro-Industrial	<b>BalaKumaran MD</b> ,	5: 36-42.	2015	-

		<i>Journal</i>	Wastes as Substrates for Cellulase Production by <i>Bacillus licheniformis</i> MTCC 429	Kalaichelvan PT, Santhi R			
31.	International	<i>Biotechnology Reports</i>	<i>Acalypha indica</i> Linn: Biogenic synthesis of silver and gold nanoparticles and their cytotoxic effects against MDA-MB-231, human breast cancer cells	Krishnaraj C, Muthukumaran P, Ramachandran R, <b>Balakumaran MD</b> , Kalaichelvan PT	4: 42-49	2014	-
32.	International	<i>Pakistan Journal of Biological Sciences</i>	Production of Cellulase Enzyme by <i>Trichoderma reesei</i> Cef19 and its Application in the Production of Bio-ethanol	RaviKumar M, <b>BalaKumaran MD</b> , Balashanmugam P, Immaculate Nancy Rebecca A, MukeshKumar DJ, Kalaichelvan PT	17: 735-739	2014	-
33.	International	<i>Advanced Materials Letters</i>	Green synthesis of gold nanoparticles for controlled delivery	Malathi S, <b>Balakumaran MD</b> , Kalaichelvan PT, Balasubramanian S	4(12): 933-940	2013	-
34.	International	<i>Asian Journal of Biological Sciences</i>	Utilization of <i>Aspergillus terreus</i> for the biosorption of hexavalent chromium ions	<b>Balakumaran MD</b> , Prasathkumar M, Mukeshkumar DJ, Kalaichelvan PT	6: 312-321	2013	-
35.	International	<i>Dynamic Biochemistry, Process Biotechnology and</i>	Utilization of shrimp and crab wastes for the production of N-acetylglucosamine by chitinolytic	Jagadeeswari S, <b>Balakumaran MD</b> , Vidya P, Kalaichelvan PT, Panneer	6(2): 46-48.	2012	

		<i>Molecular Biology</i>	soil <i>Streptomyces</i> sp. SJKP9.,	Selvam K			
36.	Inter National	EJEAFCh e,	Isolation and characterization of bacteriocin producing <i>Lactobacillus</i> spp. from traditional fermented foods	Jagadeeswari, S., Vidya, P., Kumar, D.J.M. and <b>Balakumaran , M.D</b>	Vol.9 (3) , Pg.No: 575-581 ISSN: 15794377	2010	-

20	Details of AWARDS received:		
S.No	Title of the Award	Awarding Agency / University / Government	Month/Year
1.	IOP Publishing Outstanding Reviewer	IOP Publishing, Bristol	May, 2021
2.	Dr. APJ Abdul Kalam Award for young Scientist	Marina Labs, Chennai	Sep. 2017
3.	Project Fellow	NCNSNT, University of Madras under MHRD special grant	Sep. 2011
4.	Research Fellow	Vijaya Heart Foundation, Chennai	Dec. 2010
5.	Project Fellow	Sree Ramcides Chemicals Pvt. Ltd., Chennai	Oct. 2009
6.	Research Fellow	Reliance Industries Ltd., Hazira, Surat	Aug. 2008

21	Details of MEMBERSHIP IN EDITORIAL BOARD/ACADEMIC AGENCIES/BODIES:			
S.No	Name of the Journal/Magazine/Agency	Position in the Board	ISBN/ISSN No.(if any)	Year
1.	Mycological Society of India	Life Member	-	Since 2021
2.	International Journal of Infectious Diseases	Life Member	-	Since 2015
3.	Current Chinese Science	Editorial Board Member	ISSN: 2210-2914	Since 2020
4.	International Journal of Microbiology and Current Research	Editorial Board Member	ISSN: 2690-2273	Since 2018
5.	Journal Of Biotechnology And Immunology	Editorial Board Member	-	Since 2018
6.	Journal of Clinical Infectious Diseases: Open Access	Editorial Board Member	ISSN: 2684-4559	Since 2017
7.	EC Pharmacology and Toxicology	Editorial Board Member	-	Since 2017
8.	Dept of Bio Engineering, Sathyabama Institute of Science & Technology, Chennai	Doctoral Committee Member	-	2021

<b>22</b>	<b>POSITIONS HELD in this institution:</b>		
<b>S.No.</b>	<b>Institution/Department Level</b>	<b>Position</b>	<b>Duration</b>
1.	Biotechnology Department	Head	Since, Nov. 2020
2.	NAAC	Criteria 3, Sub criterion Member	From 2020 to 2022
3.	ARIIA	Co-ordinator	Since, October 2021
4.	Research and Development Cell	Member	Since, August, 2021