CURRICULLAM VITAE

PERSONAL INFORMATION

1. Name	: Dr. R.UMA MAHESWARI
2. Date of Birth	: 13.05.1983
3. Address	: 1/1355L,10 th Cross Vasan
	Nagar, Rettaivaikal,
	Vayalur Road, Trichy

ACADEMIC INFORMATION

4. Designation & Department: Assistant Professor, Department of Biotechnology

5. Educational Qualification :

Degree	Year of passing	College / University
B.Sc., Botany	2003	Holy cross College, Trichy.
M.Sc., Biotechnology	2005	Bishop Heber College, Trichy.
PGDBI	2006	Bharathiyar University
M.Phil.,Biotechnology	2007	Bharathidasan University, Tiruchirappalli
Ph.D	2015	Bharathidasan University, Tiruchirappalli

6. Experience

c) Experience Details regarding previous and present employment

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Date of Joining		INSTITUTION	Year o	Year of Experience	
From	То		Y	М	D
2.5.2011	30.6.2014	JUNIOR RESEARCH FELLOW BHARAHIDASAN UNIVERSITY	3	1	28
27.2.2016 6.10.2016		SENIOR RESEARCH FELLOW NRCB	-	7	9

7.10.2016	30.6.2017	Research Associate NRCB	-	8	23
		Total	4	7	00

Teaching Experience:

Date of Joining		INSTITUTION	Year of Experience		
From	То		Y	Μ	D
10.08.2005	30.4.2011	HOD, PAVENDAR BHARATHIDASAN COLLEGE OF ARTS & SCIENCE,TRICHY	6	2	20
7.7.2014	9.6.2015	HOD, PAVENDAR BHARATHIDASAN COLLEGE OF ARTS & SCIENCE,TRICHY	1	1	2
01.7.2015	26.2.2016	HOD, DHANALAKSHMI SREENIVASAN COLLEGE OF ARTS&SCIENCE FOR WOMEN,PERAMBALUR	-	8	-
01.10.2017	30.06.2018	HOD, PAVENDAR BHARATHIDASAN COLLEGE OF ARTS & SCIENCE,TRICHY		8	
02.07.2018	Till date		3	2	2
		Total	12	2	24

7. Areas of Specialization : PLANT BIOTECHNOLOGY

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8. Languages known : TAMIL&ENGLISH

9. Subjects Taught

UG	1.	Plant Tissue Culture
	2.	Microbial Biotechnology
	3.	Molecular Genetics
	4.	Bio molecules
	5.	IPR &Bio-ethis
	6.	Environmental Studies
	7.	Value Education
	8.	Plant Biotechnology

	9. Immunology				
	10. Cell Biology				
	11. Molecular Biology				
	12. Environmental Sciences				
	13. Clinical Mycology and Virology				
	14. Clinical Parasitology				
	15. Applied Microbiology				
	16. Microbial Biotechnology				
	17. Basic Microbiology				
PG	1.Nanotechnology				
	2. Plant Biotechnology				
	3.Molecular Biology				
	4.Biochemistry				
	5.Metabolomics				
	6.Enzymes				

10. Details of Papers Presented:

Date	Organizer	Name of the Seminar	Paper Name
6/03/2019- 8/03/2019	Pavendar Bharathidasan College of Engineering & Technology	International Conclave	Isolation, Purification and mass production of protease from <i>Bacillus cereus</i>
6/03/2019- 8/03/2019	Pavendar Bharathidasan College of Engineering & Technology	International Conclave	Anxiolytic and Anti- depressant effects of AgNps fabricated using Diosgenin
22/02/2019	Periyar EVR College (Autonomous), Trichy	International Conference on Cancer Inferno and Its Prevention Strategies	Synthesis of Plant Mediated Gold Nanoparticles using <i>Azima tetracantha</i> Lam. Leaves Extract and Evaluation of their Antimicrobial Activities.
11/09/2018	Holy Cross College (Autonomous), Trichy	International Conference on New Vistas in Life Sciences	Green Synthesis of Silver Nanoparticles using <i>Momordica</i> <i>charantia</i> Fruit Extract and its Anti- coagulant Activity

11. Details of Seminars / Conferences / Workshops Attended:

Year & Date	Organizer	Title	National /	Торіс
			International	
September 28-	Department of	Two days Science	-	Advances in
30, 2018.	Biotechnology, Cauvery	Academies' Lecture		Biosciences
	College For Women,	Workshop		
	Trichy.			
	Thanthai Hans Roever			Emerging
19/02/2019	College (Autonomous),	One Day Conference	International	Trends in
	Perambalur			Biosciences

12. Details of In-charge / Participation in Extracurricular Activities:

(NSS, NCC, Sports, Games, Voluntary Association and Cultural Activities):

Nature of Activity	Period of Incharge
Club Activity	2018-2019

13. Details of Membership in Academic Bodies/ Board of Studies:

S. No	Nature of Position	Institution Name	Topic / Competition / Function	Date
1	Board of Studies Member	Thanthai Hans Roever College(Autonomous), Perambalur-621220	Biotechnology UG, PG &M.Phil.	18.8.2018
2	Board of Studies Member	Thanthai Hans Roever College(Autonomous), Perambalur-621220	Biotechnology UG, PG &M.Phil.	4.01.2021

14. Any other information if any:

S. No	Nature of Position	Institution Name	Topic / Competition / Function	Date
1	Judge	Bharathidasan University	District Level Competition for Science project (TNSTC)	28.9.2018

15. Publications :

a.Books

Title	Author(s)	Year of Publication	Publisher	ISBN No.
"New Avenues in Life Sciences TRENDS AND CHALLENGES"	Dr.R.Uma Maheswari Dr.R.Sugunadevi Ms.P.Gajalakshmi	2016	Iyal Publication 23B/2739,Thoppil Pillaiyar koil St,South Rampart, Thanjavur- 613001,Tamilnadu,	938528352-9
			India.	
			Email:iyalpublication @gmail.com	

b. Book Chapters

Name of the Book	Title of the Chapter	Publisher	Year
International Conference on Energy and Environmental Engineering	Green Silver nanoparticle Synthesis from an important Medicinal Plant <i>Dioscorea</i> <i>oppositifolia</i> L. and their efficacy in neurological disorder.	Department of Petrochemical technology Anna University-BIT Campus Tiruchirappalli- 620024,Tamilnadu,India	2014

c.Popular articles

Newspapers – Thinakaran Paper Pg.No.19.Dated.24.January2013

S. No	Award	Instituted By	Year
1	Rajiv Gandhi Fellowship Meritorious Award	UGC	2011-2014.
2	G.N. Chakrapani Chetti Memorial Silver Medal for profiency in English in 12 standard public Exam	Seva Sangam Girls Higher Secondary School	2000
3	I prize for Proficiency in General English	Holy Cross College	2000-2001
4	Best Oral Presentation Award in International Conference for on Green Technology for Environmental Pollution Prevention and control (ICGTEPC 2014)	Department of Chemical Engineering National Institute of Technology, Tiruchirapalli (NIT)	2014
5	Best Oral Presentation Award in International Conference on Sustainable Utilization, Management and Conservation of Bio Resources (ICSMCB- 2013), Tamil Nadu, India on 10 &11 th Jan 2013.	St.Joseph's college. (Autonomous), Tiruchirappalli-620002	2013

Conference Organized Previously

- I organized the One day National Symposium on "Challenging Aspects in Environmental & Molecular Biotechnology" held at Pavendar Bharathidasan College of Arts and Science on 8th Feb 2008.
- I organized two days National Conference at Dhanalakshmi Srinivasan College of Arts& Science for Women, Affiliated to Bharathidasan University, Perambalur-621212 on 28&29 January 2016.

Workshop Organized Previously

- 1. Workshop on "Electrophoresis Techniques" in Pavendar Bharathidasan College of Arts and Science 0n Oct 2005.
- Two days workshop on "Recent tools in Bio-informatics" organized by Department of Biotechnology in association with NEOGEN Bio-solution, Chennai on 8 & 9 of September 2009.

g. Seminars/Conferences/Trainings attended and paper presented Previously

S.No	Name of the Seminar/Conference/	Organization name	Date
	Training		
1	International Conference on Climate Change and Bioresearch	Department of Biotechnology, Bharathidasan University	9-12 February 2010(Poster Presentation)
2	International Conference Plant Mediated Synthesis of Silver Nanoparticles by Using Leaf Extract of <i>Dioscorea oppositifolia</i> L. and their activity against Some Human pathogen (Oral Presentation)	PG and Research Development of Plant Biology and Plant Biotechnology, Quaid–E–Millath Government College for Women. (Autonomous),Chennai-600002	Conference 1-to 3rd February 2012(Oral Presentation)
3	International Conference on Sustainable Utilization, Management and Conservation of Bio Resources (Oral Presentation) (ICSMCB- 2013)	St.Joseph's college. (Autonomous),Tiruchirappalli- 620002,Tamilnadu,India on	10 &11thJan 2013(Oral Presentation)
4	Best oral Presentation Award International Conference on Green Technology for Environmental Pollution Prevention and control (ICGTEPC 2014) On "In vitro cytotoxicity of Silven nanoparticles synthesized from Diosgenin , a steroidal saponin an active constituents of <i>Dioscored</i> <i>oppositifolia</i> L. against Breast Cancer cell line MCF-7".	Engineering , National Institute of Technology Tiruchirapalli (NITT), India	27th-29th September 2014 (Oral Presentation)

5	International Conference 	Engineering , National Institute of Technology Tiruchirapalli (NITT), India	27th-29th September 2014 (Oral Presentation)
6	International conference on Energy and Environmental Engineering	Department of Petrochemical Technology, Anna University-BIT Campus,Tiruchirappalli- 620024,Tamilnadu,India .sponsored by TEQIP-II	6&7 November 2014(Oral Presentation)
7	International conference on Reasserting Microbial Biotechnology to deflate global disease burden	Laboratory, Department of Biotechnology, Manonmanian	28&29 September 2015(Oral Presentation)
8	International Conference On "New Vista in Life Sciences"	Presented paper On "Green synthesis of silver nanoparticle from <i>Momardica charantiae</i> fruit extract and its anti coagulant activity	 11 th September, 2018 Holycross College, (Autonomous) Trichirappalli- 620002. (Oral Presentation)
		National Conference	<u> </u>
9	č	Department of Plant Science, Bharathidasan University	March 28&29(2014)
10	5	J.J. Arts and Science college, Pudukkottai	16 th ,17 th March 2008

11	National Conference on Green Engineering & Technologies for sustainable future	Department of Petrochemical Technology, Bharathidasan Institute of Technology, Anna University,Tiruchirappalli-620 024,Tamil Nadu, India.	5&6 December 2014(Oral Presentation)	
12	National Conference on Genomics and genetic Engineering Strategies for Crop Improvement	Department of Biotechnology, Periyar University, Periyar University, Salem-636011, Tamilnadu.	27-28 February 2012(Oral Presentation)	
	Training Course			
13	One Month In-plant training on Bio-control in Sugarcane	Aringar Anna Sugar Industry, Thanjavur	May 2004	
14	In-plant training on Production of Biofertilizer by using coir pith based cyano bacteria & natural farming from	NFMC, Bharathidasan University, and Trichy - 24.	19.06.2008 to 21.06.2008	
15	Short term Training Course on Advances in Gene Identification and Marker development	Dept of Biotechnology. National Research Centre for Banana, NRCB. (ICAR)	1-10,Oct-2012	
16	Short Term training course on Plant Genetic Engineering	Department of Biotechnology & Genetic Engineering, Bharathidasan University, Trichy.	13-28, 2013	

h.Publications:

- 1. Uma Maheswari R(2021)Assessment of behavioral changes and antitumor effects of silver nanoparticles synthesized using diosgenin in mice model. Journal of Drug Delivery Science and Technology.(Under Accepted)(SCI –Impact-3.98)
- 2. Uma Maheswari R(2021)Isolation, purification, and mass production of protease from *Bacillus* subtilis.*International Journal of Botany Studies.Volume 6;Issue 2;2021.Page No. 95-98.*
- 3. In vitro cytotoxicity of Dioscorea oppositifolia L., against breast cancer cell line MCF-7.International Journal of Botany Studies.Volume 6;Issue 2;2021.Page No. 427-429.
- 4. Joe Antony Jacob, ArunPrasanna Vimalanathan, Ziyu Jiang, Rajesh Mani, Prasannabalaji Nainangu, Uma Maheswari Rajadurai, Baoan Chen. Influence of diet and dietary nanoparticles on gut dysbiosis. *Microbial Pathogeneis118,61-65*
- 5. Uma Maheswari R, Jayabarath J, Maanusha B, Bhavanisowndharya (2017). Detection of WSS Virus on Banana Prawn, *Peneaus mergueinsis by* PCR Technique. *Journal of Chemical and Pharmaceutical Sciences. October December 2017 JCPS Volume 10 Issue 4(SCI –Impact-1.68)*
- Uma Maheswari R, Selvarajan R, Nandagopalan V, Lakshmiprabha A. (2014). Genetic variation of *Dioscorea oppositifolia* L. from four different regions of Tamil Nadu. *International Journal of Chemical and Pharmaceutical Science*. (Vol.14) *PP* (36-36). (SCI Impact 0.68)
- Uma Maheswari R, and Lakshmi Prabha A. (2016). Antibacterial activity of silver nanoparticles developed using *in vitro* leaf extracts of *Dioscorea oppositifolia*. L. *International journal of Microbiology and applied biosciences*. (Impact 1.8) (74-77).
- 8. Uma Maheswari R, Selvamurugan C, Jayabarath J, Lakshmi Prabha A (2011). Hairy root culture of an important medicinal plant: *Coleus forskohlii*. International Journal of Agriculture Sciences. Vol. 3, Issue 2, 2011, PP-(82-89). (Impact -3.3)
- 9. Uma Maheswari R, Lakshmi Prabha A, Nandagopalan V, Anburaja V and Jaya Barath J (2012). Syntheses of silver nanoparticles by using fruit extract of *Dioscorea* oppositifolia L. Journal of Research in Nanobiotechnology 009-013 Vol 1.
- 10. Uma Maheswari R, Lakshmi Prabha A, Nandagopalan V, Anburaja V (2012). Green Synthesis of Silver Nanoparticles by Using Rhizome Extract of *Dioscorea oppositifolia* L. and their antimicrobial activity against Human pathogens. Journal of Pharmacy and Biological Sciences (IOSRJPBS) ISSN: 2278-3008 Volume 1. PP (38). (Impact-1.13)
- 11. Uma Maheswari R, Lakshmi Prabha A, Nandagopalan V, and Anburaja V (2012). Invitro Rhizome Production from Nodal Explants and Callus formation of a Medicinal Plant Dioscorea oppositifolia L. (IOSR) Journal of Pharmacy and Biological Sciences (IOSRJPBS) ISSN: 2278-3008 Volume 1, Issue 6, PP (17-21) (Impact-1.13)
- 12. Uma Maheswari R, Lakshmi Prabha A, Nandagopalan V, and Anburaja V (2011).

Antimicrobial Activity of *Dioscorea oppositifolia* L. an endangered Medicinal Plant against Some Human Pathogens. *International Journal of Research in Antimicrobials*.

- 13. Uma Maheswari R, Lakshmi Prabha A, Nandagopalan V. (2012). Plant mediated synthesis of silver nanoparticles by using leaf extract of *Dioscorea oppositifolia* L. and their antimicrobial activity. Society for biology and biotechnology. *Plant cell biotechnology and molecular biology* 13(1-4).
- 14. Anburaja V, Nandagopalan V, Lakshmi Prabha, A, and Uma Maheswari R. (2011). Antimicrobial activities of *Dioscorea oppositifolia* L. leaf ethanol extract. *Journal of Antimicrobials. PP* (1).

ANY OTHER INFORMATION -2020-2021

Seminar/ Conference /Workshop Attended

International Webinar	-5
National Webinar	- 15
Faculty Development Programme	-4
E Workshop	-1
Online Course Completed	-4