

CURRICULLAM VITAE

PERSONAL INFORMATION

1. Name : Dr. R.UMA MAHESWARI
2. Date of Birth : 13.05.1983
3. Address : 1/1355L,10th Cross
VasanNagar,
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.Researcher ID-**Dr. R.UMA MAHESWARI**

MOBILE: 8973761067

NEET EXPERIENCE: 5 Years

PREVIOUS NEET EXPERIENCE IN THE FOLLOWING CENTRES :

- TIME
- TEMPZ
- VISWAS
- POINT ACADEMY
- GREENS
- EDUTEL ACADEMY
- NIVEDITHA

Google Scholar: <https://scholar.google.com/citations?hl=en&authuser=2&user=fpOgCxoAAAAJ>

EMAIL:umamaheswari.bt@cauverycollege.ac.in

GOOGLE SCHOLAR:

https://scholar.google.co.in/citations?hl=en&user=fpOgCxoAAAAJ&view_op=list_works&sortby=title

ORCID : <https://orcid.org/0000-0003-3948-1932>

SCOPUS ID: 8788b662

PUBLONS:<https://publons.com/researcher/4345863/umamaheswari-biotechnology/>

MENDELEY:

c) Experience Details regarding previous and present employment

Date of Joining		INSTITUTION	Year of Experience		
From	To		Y	M	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	To		Y	M	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	CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS),TRICHY	4	7	5
		Total	13	2	27

6. Areas of Specialization : PLANT BIOTECHNOLOGY

7. Languages known : TAMIL&ENGLISH

- | | |
|--|---|
| | <ol style="list-style-type: none">9. Immunology10. Cell Biology11. Molecular Biology12. Environmental Biotechnology13. Clinical Mycology and Virology14. Clinical Parasitology15. Applied Microbiology16. Microbial Biotechnology17. Basics of Biotechnology18. Bioinstrumentation |
|--|---|

PG	<ol style="list-style-type: none"> 1. Nanotechnology 2. Plant Biotechnology 3. Molecular Biology 4. Biochemistry 5. Metabolomics 6. Enzymes
UG	<ol style="list-style-type: none"> 1. Plant Tissue Culture 2. Microbial Biotechnology 3. Molecular Genetics 4. Bio- molecules 5. IPR, Bio-ethics & Biosafety 6. Environmental Studies 7. Value Education 8. Plant Biotechnology

**8. S
ubjects
Taught**

9.Details of Papers Presented & Participated

Date	Organizer	Name of the Seminar	Paper Name
7.04.2022	KSR,Thiruchengode	Biotechnological Effective Apporaches in science and Technology	<i>Invitro</i> tuber production of medicinal plant Dioscorea oppositifolia L.for the enhancement of Diosgenin
26.04.2021	Patent Information Centre, Tamil Nadu State Council for Science and Technology	Participated	Technology transfer and commercialization aspects for SMEs
28.04.2021	Patent Information Centre, Tamil Nadu State Council for Science and Technology	Participated	Indigenous SMEs and Intellectual Property
30.04.2021	Mary Matha College of Arts and Science, Periyakulam.	Participated	The impact of Covid-19 Pandemic on Management and Business Practices
21/05/2021	Valluvar College of Science and Management, Karur	Participated	Explaining: Quality mandate for Higher Education Institutions in India
23/05/2021,	NSS & Kalasalingam School of Agricultural and Horticultural, Kalasalingam Academy of Research and Education, Krishnankoil	Participated	Certification Procedures for Organic standards
21/06/2021 & 22/06/2021	International School of technology & science for Women, East Ganuguden, Rajanagaram	Participated	A two day online Global submit on Enhancing Women Empowerment through Entrepreneurship
16/08/2021	Lady Doak College, Madurai, Tamil Nadu.	Participated	How to read Scientific Literature?
16.9.2021 & 17.09.2021	, School of Chemistry, Madurai Kamaraj University and India and BioSES Research Interest Group, Faculty of Science and Marine Environment, University of Malaysia, Terengganu.	Participated	Indo – Malaysian Two Days International E-Conference Partially funded by MKU-RUSA Phase II Scheme on Recent Trends in Natural Products Research and their Applications
27/09/2021 & 28/09/2021	Department of Microbiology, The Madura College (Autonomous),	Participated	A Juncture of Classical and Contemporary Research in Biological Sciences

	Madurai.		
28/10/2021 & 28/10/2021	, Department of Studies in Microbiology, Karnataka State Open University, Mysuru in Collaboration with Microbiology & Fermentation Technology Department, CSIR- Central Food Technological Research Institute, Mysuru	Anxiolytic and antidepressant efficiency of callus extract, in vitro tuber extract and in vivo tuber extract of Dioscorea oppositifolia L. in Swiss albino mice	Gut- Brain – Health Connections
05/06/2020 At 2.30pm	Fatima College, Madurai	International Webinar Novelties in Neutraceuticals	Participated
08/06/2020	GTN Arts of college (Autonomous), Dindigul	National level FDP on“ Future of examinations: Bloom’s Taxonomy and multiple assessment tools”	Participated
09/06/2020 at 3.30 pm to 5.30 pm	Mahatma Gandhi University, School of Management and Business Studies, Kerala &MAR Basilio Institute of Technology and Science, Kothamangalam	International Webinar on How to Get Research Grants from UGC, AICTE	Participated
11/06/ 2020	Seethalakshmi Ramaswami college (Autonomous), Trichy	National webinar on “Nature as medicine”	Participated
14/06/ 2020	Dr. Sivanthi Aditanar College of Engineering, Tiruchendur.	International Webinar on “Biomaterials and their applications”	Participated
10/07/2020 & 10/07/2020	Dr. M.G.R. Educational and Research Institute, Chennai	A Two day National Level Workshop on “Understanding OBS studio & Streamyard for E- content creation and Live streaming”	Participated
17/07/2020	Cauvery College for Women (Autonomous), Trichy	International Webinar on “The Paradigm shift in weight management”	Participated
24/07/2020 & 25/07/2020	New Prince Shri Bhavani Arts and Science College, Chennai	Two days National Level Workshop on “Revised NAAC Accreditation framework for Affiliated / Constituent Colleges”	Participated
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 charantia</i> Fruit Extract and its Anti-coagulant Activity

9. Details of Seminars / Conferences / Workshops Attended:

Year & Date	Organizer	Title	National / International	Topic
22/ 02/2022 & 23/ 02/2022	Department of Biotechnology, Cauvery College For Women, Trichy	National Science Academies' Education Programme	Lecture Workshop in Biotechnology	"Thrust Areas in Biosciences"
10.06.2021	Department of Biotechnology, Cauvery College For Women, Trichy.	Improving the Quality and Visibility of Scientific Research Publications	FDP	Improving the Quality and Visibility of Scientific Research Publications
10.06.2021	Department of Biotechnology and IQAC	Dr. K. S. Subramanian, Director of Research, Tamil Nadu Agricultural University, Covai.	FDP	Grantsmanship
September 28-30, 2018.	Department of Biotechnology, Cauvery College For Women, Trichy.	Two days Science Academies' Lecture Workshop	-	Advances in Biosciences
19/02/2019	Thanthai Hans Roever College (Autonomous), Perambalur	One Day Conference	International	Emerging Trends in Biosciences

10. 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
Cultural In-charge	2019-2020
Placement In-charge	2021-2022

11. 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

12. 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

13. 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, India. Email:iyalpublication@gmail.com	938528352-9

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 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

d. Medals, Awards and Fellowships obtained Previously (Local / National / International)

S. No	Award	Instituted By	Year
1	Rajiv Gandhi Fellowship Meritorious Award	UGC	2011-2014.
2	G.N. Chakrapani Chetti Memorial Silver Medal for proficiency 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 & 11th 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 On Oct 2005.
2. 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		
	International Conference		
1	International Conference on Climate Change and Bio research	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)	Department of Botany, St. Joseph's college. (Autonomous), Tiruchirappalli-620002, Tamilnadu, India on	10 & 11th Jan 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 Silver nanoparticles synthesized from Diosgenin, a steroidal saponin an active constituents of <i>Dioscorea oppositifolia</i> L. against Breast Cancer cell line MCF-7".	Department of Chemical Engineering, National Institute of Technology Tiruchirappalli (NITT), India	27th-29th September 2014 (Oral Presentation)

5	<p>International Conference on Green Technology for Environmental Pollution Prevention and control (ICGTEPC 2014)</p> <p>Oral Presentation award Silver nanoparticles synthesis from Aristolochia tagala Cham., an endangered plant for the application of Photocatalytic degradation of dyes and its antimicrobial activity.”</p>	Department of Chemical Engineering, National Institute of Technology Tiruchirapalli (NITT), India	27th-29th September 2014 (Oral Presentation)
6	<p>International conference on Energy and Environmental Engineering</p>	Department of Petrochemical Technology, Anna University-BIT Campus, Tiruchirappalli-620024, Tamilnadu, India. sponsored by TEQIP-II	6&7 November 2014 (Oral Presentation)
7	<p>International conference on Reasserting Microbial Biotechnology to deflate global disease burden</p>	Microbial Biotechnology Laboratory, Department of Biotechnology, Manonmanian Sundaranar University, Tirunelveli-627012, Tamilnadu, India.	28&29 September 2015 (Oral Presentation)
8	<p>International Conference On “New Vista in Life Sciences”</p>	Presented paper On “Green synthesis of silver nanoparticle from <i>Momardica charantiae</i> fruit extract and its anti coagulant activity	11 th September, 2018 Hollycross College, (Autonomous) Trichirappalli-620002. (Oral Presentation)
National Conference			
9	<p>Two days National conference on. “Recent tools in Bioprospectious of plants.”</p>	Department of Plant Science, Bharathidasan University	March 28&29(2014)
10	<p>National Symposium on use of RAPD technique for detection of Banana streak virus</p>	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*. (SCI –Impact-5.08)
- 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.Uma Maheswari R(2021).***In vitro* cytotoxicity of *Dioscorea oppositifolia* L., against breast cancer cell line MCF- *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 (2018).**Influence of diet and dietary nanoparticles on gut dysbiosis. *Microbial Pathogeneis*118,61-65
- 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)
- 6. 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)
- 7.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).** *In vitro* 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 -2021-2021

Seminar/ Conference /Workshop Attended

International Webinar -5

National Webinar - 10

Faculty Development Programme -4

Workshop -2

Online Course Completed -4

ANY OTHER INFORMATION -2021-2022

Seminar/ Conference /Workshop Attended

International Webinar -3

International Conference -2

National Webinar - 12

Faculty Development Programme -3

E Workshop -2