

DR. T. NARGIS BEGUM

Assistant Professor

PG & Research Department of Biotechnology

Jamal Mohamed College, Trichy – 20

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EDUCATION

SL.NO	INSTITUTION PLACE	DEGREE AWARDED	YEAR	FIELD OF STUDY
1	SEETHALAKSHMI RAMASWAMY COLLEGE, TIRUCHIRAPPALLI-620001	M.Sc	1990-1992	BIOCHEMISTRY
2	PONNAIYAH RAMAJAYAM COLLEGE, THANJAVUR- 614904	M.Phil	2003-2004	BIOCHEMISTRY
3	JAMAL MOHAMED COLLEGE, TIRUCHIRAPPALLI-620020	Ph.D	2004-2009	BIOCHEMISTRY

WORK EXPERIENCE

S.NO	INSTITUTION/PLACE	POSITION	FROM (DATE)	TO (DATE)
1	Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli- 620021	Assistant Professor	11/10/1993	11/03/2001
2	MIET Arts and Science College, Tiruchirappalli-620007	Assistant Professor	11/08/2003	08/06/2004
3	Pavendar Bharathidasan College of Arts and Science, Pudukkottai- 622515.	Assistant Professor	07/07/2004	30/11/2009
4	Jamal Mohamed College (Autonomous), Tiruchirappalli- 620020.	Assistant Professor	01/12/2009	Till date

HONORS / AWARDS

- ❖ Received **Best paper presentation** Award and also the **first prize** for “ Effects of biochemical parameters in granulation tissue of Wistar Albino rats treated with various extracts of *Azima tetraacantha* Lam. “at National seminar on current developments and future prospects of Biochemistry organized by P.G. Dept. of Biochemistry, Dhanalakshmi Arts & Science College for Women, Perambalur on Aug 30th and 31st 2006.
- ❖ Received **Minor project** from Tamilnadu State Council for Science and Technology in 2004 for “Antimicrobial activity of ethyl acetate extract of *Azima tetraacantha* Lam”
- ❖ Received **Best Women Researcher Award** from Jamal Mohamed College (Autonomous), Trichy -20 on 19-03-2018

SEMINARS / CONFERENCES / WORKSHOPS ORGANIZED

S.No	Name of the Seminar / Conference / Workshop	National / International	Date(s)	Name of the Organizing Secretary	Name of the Funding Agency	Total Grant Received
1.	Recent Trends in Biology and Biotechnology	National	January 29, 30 & 31st, 2014.	Dr. T. Nargis Begum	Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi, The National Academy of Sciences, Allahabad, India	1,68,280/-

GRANTS RECEIVED FROM GOVERNMENT FOR RESEARCH PROJECT

Name of the Project/ Endowments/ Chairs	Name of the Principal Investigator/ Co-Investigator	Name of the Funding agency	Type (Government/ Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
Tamilnadu State Council for Science and Technology (TNSCST) under Student project scheme	Dr. T. Nargis Begum	TNSCST	Government	Department of Biotechnology	2018	7500/-	2018-2019

RESEARCH GUIDANCE

M.Phil.

S.No.	Name of the Faculty	No. of Students Awarded		No. of Students Pursuing	
		Full-Time	Part-Time	Full-Time	Part-Time
1.	Dr. T.Nargis Begum	13	-	-	-

Ph.D.

S.No.	Name of the Faculty	No. of Students Awarded		No. of Students Pursuing	
		Full-Time	Part-Time	Full-Time	Part-Time
1.	Dr. T. Nargis Begum	-	6	1	3

BOARD OF STUDIES MEMBER

- ❖ Board of studies member in the Department of Biotechnology for UG and PG courses in Jamal Mohamed College.
- ❖ Acted as university representative to the board of studies in the Department of Biotechnology for UG and PG courses in Srimad Andavan Arts and Science college from 2014 to 2016.



DETAILS OF PAPERS PRESENTED

- ❖ Epitomizing nanoparticulated polymeric carriers encapsulating antidepressant drug to manoeuvre brain delivery in the International conference on recent advances in bionano-science & technology (ICBRT- 2015) on 25th & 26th February, 2015, organized by Department of Bioscience, Hindusthan college of arts and science, Coimbatore.
- ❖ Polymeric nano composites as dexterous drug carriers in steering up brain drug targeting: an approach to combat depression in DBT Sponsored VII Louis Pasteur Memorial National Symposium on “Momentous Microbes from Menace to Marvel - (PSMM-2014)” on 20th August 2014, organized by Department of Microbiology Dr. N.G.P. Arts and Science College (**Won 1st prize**).
- ❖ Polymeric nano composites as dexterous drug carriers in steering up brain drug targeting: an approach to combat depression in the International conference on modern progress in biotechnology -ICMPB -14; on 9th and 10th October 2014, organized by Bharathidasan Institute of Technology, Anna University Department of Biotechnology.
- ❖ “Plant and Microbial metabolites” in the IXth National conference, Feb 11-12.2010, Dept. of Microbiology, Karpagam University, Coimbatore.
- ❖ “Evaluation and formulation of natural hair colorants obtained from some dye yielding and hair care plants” in UGC sponsored National Seminar on Recent trends in Secondary metabolite engineering, 5.01.2010, Dept. of Plant Science, BARD Univ. Trichy-24.
- ❖ “A novel selection method in plant resistance / susceptibility to stress in relation to secondary metabolites” in UGC sponsored National Seminar on Recent trends in Secondary metabolite engineering, 5.01.2010, Dept. of Plant Science, BARD Univ. Trichy-24.
- ❖ “Dermal wound healing potential of *Acacia arabica* on Albino rats” in UGC sponsored regional seminar on recent trends in Biotechnology and its role in utilization of Biodiversity organized by P.G. & Research Dept. of Botany, JMCON 5-6th March, 2007.
- ❖ “*In vitro* evaluation of standard antibiotic against *Streptococcal sp.*” in UGC sponsored regional seminar on recent trends in Biotechnology and its role in utilization of Biodiversity organized by P.G. & Research Dept. of Botany, JMCON 5-6th March, 2007.

- ❖ “Analysis of phyto -constituents using GC-MS study in *Azima tetraacantha* Lam”. in UGC sponsored regional seminar on Recent trends in Biotechnology and its role in utilization of Biodiversity organized by P.G. & Research Dept. of Botany, JMCON 5-6th March, 2007.
- ❖ “Screening of antibacterial activity in *Acacia arabica* against clinical pathogens” at National seminar on current developments and future prospects of Biochemistry organized by P.G. Dept. of Biochemistry, Dhanalakshmi Arts & Science College for Women, Perambalur on Aug 30th and 31st 2006.



DETAILS OF SEMINARS / CONFERENCES ATTENDED

- ❖ National level seminar on Recent Advances in Plant Sciences, JMC, Trichy on 13, March 2014.
- ❖ Participated in One day seminar on “Teaching, Learning & Research in Higher – Excellence and beyond Excellence” Organised by the Internal Quality Assurance Cell, Jamal Mohamed College, Tiruchirappalli – 20 on 7th March 2012.
- ❖ Participated in Colloquim on ‘3R concept and its practice in Academia and Research” organized by Mahatma Gandhi-Doerenkamp chair for alternatives to use of animals in lifescience education, held at Bharathidasan University, Tiruchirappalli – 620024 on October, 2011.
- ❖ Participated in International conference on “Recent Trends in Life Science” Organised by PG & Research Department of Zoology, Holy Cross College (Autonomous), Tiruchirappalli – 2 from 17th – 18th Feb 2011.
- ❖ Participated in national level seminar on “-Quality Enhancement in Teaching, Research and Extension in Higher Education Institutions-Prospects and Problems” Organised by the Internal Quality Assurance Cell, Jamal Mohamed College, Tiruchirappalli – 20 on 15th and 16th April 2010.
- ❖ Participated in one day seminar on “-Creating Competitiveness to excel in higher education-a TQM approach” Organised by the Internal Quality Assurance Cell, Jamal Mohamed College, Tiruchirappalli – 20 8th December 2010.
- ❖ Participated in one day Regional seminar on “Biomolecules and Human Health ” Organised by Post graduate and Research Department of Biochemistry Ponnaiyah Ramajayam College, Thanjavur on 14th September 2004.
- ❖ National Seminar on “Recent trends in Animal Biotechnology” on March 17-19, 2004 at BARD Univ. Trichy-24.

- ❖ Lecture program on “Current concepts in Biological Research” under the auspices of IAS, Bangalore 27-28 Feb, 2004 at BARD Univ. Trichy-24.
- ❖ National Seminar on “Recent trends in Plant Biotechnology” March 22-23, 2004 at BARD Univ. Trichy-24.
- ❖ Lecture workshop on “Current trends in Biology and Biotechnology”, 19 -20, Sep, 2008 organized by the Dept. of Biochemistry and Science Academies in India at BARD Univ. Trichy-24.
- ❖ International symposium on” Trace organic pollutants in the Environment”, 23.01.2010, organized by the Dept. of Environmental Biotechnology School of Environmental Sciences; BARD Univ. Trichy-24.
- ❖ State level seminar on “Frontier studies in Chemistry”, 9-10, Feb, 2010 organized by the PG and Research Dept. of Chemistry, JMC, Trichy -20.

CERTIFICATE OF APPRECIATION

- ❖ Certificate of appreciation received from IQAC- JMC for presenting 8 papers during 2012-2013.

RESOURCE PERSON

- ❖ Acted as a Resource Person at Shrimathi Indira Gandhi college, Trichy during 2012-2013
- ❖ PG and Research Department of Biotechnology, Thanthai Hans Rover College, Perambalur. Doctoral Committee Member - 30.07.2018
- ❖ PG and Research Department of Biotechnology, Thanthai Hans Rover College, Perambalur. Doctoral Committee Member - 27.08.2018
- ❖ PG and Research Department of Biochemistry, Periyar EVR College, Board studies member - 10.10.2018
- ❖ Tamil Nadu Islamic Welfare Association, Green Valley Public School, Man Muna Township, Dindigul, Chair Person, Regional Science Fair, 2018 (Topic) – 18.10.2018
- ❖ Periyar EVR College Trichy. Scrutiny Board Member – 3.11.2018

- ❖ Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore. Doctoral committee member - 22.11.2018

DETAILS OF WORKSHOP ATTENDED

- ❖ National Conference cum workshop on Bioinformatics and computational Biology organized by PG & Research Department of Biotechnology, Bishop Heber College, Tiruchy on 26th May , 2014.
- ❖ National workshop on” Techniques in Animal Cell Culture and In Vitro Toxicology” organized by Mahatma Gandhi- Doerenkamp Center (MGDC), Bharathidasan University,Trichy-24
- ❖ DBT,Govt.of India sponsored Short Term Hands-On Training Course on Basic Techniques In Plant Molecular Biology on 18 April-3 May 2011,JMC,Trichy-20.
- ❖ “Workshop on medicinal plants prospects and challenges” 21.12.2002 & 22.12.2002 organized by the Dept. of Pharmacognosy at Periyar college Of Pharmaceutical Sciences for Girls, Trichy-21.
- ❖ “Workshop on Electrophoretic techniques ” on 3-4, Oct, 2005, organized by the Dept. of Biotechnology at Pavendar Bharathidasan College of Arts and Science, Mathur, Trichy – 24.
- ❖ National Level Forum On “ Emerging Debates On Communicable Disease” on 28th, Feb, 2011,organized by the Dept. of Microbiology, Jamal Mohamed College,Trichy-20.
- ❖ Five day workshop on “capacity building and gender sensitivity training” organized by centre for women’s studies Bharathidasan University on August 2007.

DETAILS OF SEMINAR ORGANIZED

- ❖ Seminar conducted as a convenor: State level seminar on “Current Scenario in Biological Sciences”, 20.02.2007 at Pavendar Bharathidasan College of Arts and Science, Mathur, Trichy – 24.



SELECTED PEER-REVIEWED PUBLICATIONS

- ❖ **Communicated paper** : Short Pulse Of Clinical Concentration Of Bevacizumab Modulates Human Retinal Pigment Epithelial Functionality. Investigative Ophthalmology & Visual Science (IOVS). 2016. Manuscript ID: IOVS-15-18330
- ❖ Computational Docking Study of p7 Ion Channel from HCV Genotype 3 and Genotype 4 and Its Interaction with Natural Compounds. Plos one. 2015.
- ❖ Chemical composition of the hexane extract of leaves of *Azima tetracantha* (Lam.). Asian Journal of Plant Science and Research, 2015, 5(3):1-5.
- ❖ A Strategy to Employ *Clitoria ternatea* as a Prospective Brain Drug Confronting Monoamine Oxidase (MAO) against Neurodegenerative Diseases and Depression. Nat. Prod. Bioprospect. 2015.
- ❖ Polymeric Nano Composites As Dexterous Drug Carriers In Steering Up Brain Drug Targeting: An Approach To Combat Depression. Asian Jr. of Microbiol. Biotech. Env. Sc. 17 : 2015. p. no : 109-116.
- ❖ Antimicrobial activity of silver nanoparticles stabilized by green strategy using *Clitoria ternatea* (Linn.). Letters in Applied NanoBioScience. 3:191-196. 2014.
- ❖ An Insilico Approach to Confront Monoamine Oxidase by Synthetic and Herbal Antidepressant Drug. International Journal of Computer Applications. 2014.
- ❖ Ecofriendly treatment of textile dyes: Biodecolorization using bacterial strains Journal: Scrutiny International Research Journals of Microbiology

and Bio Techniques. 2014.

- ❖ Biomarkers for virus-induced hepatocellular carcinoma (HCC). *Infection, Genetics and Evolution* Vol. 26, pp.327–339, June (2014).
- ❖ Antimicrobial activity of silver nanoparticles stabilized by green strategy using *Clitoria ternatea* (Linn.). *NanoBioscience*. Vol3(3); p.no: 191-196; 2014.
- ❖ *In Silico* Studies of Medicinal Compounds Against Hepatitis C Capsid Protein from North India. *Bioinformatics and Biology Insights*, Vol.8, May(2014).
- ❖ *In vitro* screening of antioxidant, antidiabetic and antibacterial activity of *clausena anisata* (willd) hook (Rutaceae) root extracts. *SCHOLARS WORLD-IRMJCR*. Vol. II, Issue III, (July 2014).
- ❖ *Azima tetracantha*: A Treasure to Be Hunted. *International Journal of Recent Scientific Research* Vol. 4, Issue, 5, pp. 597 - 602, May (2013).
- ❖ Hepatoprotective activity of *Azima tetracantha* Lam. in experimental animals. *Journal of pharmacy Research* 4(7):2359-2360 (2011).
- ❖ Clinical significance of hypertension,diabetes and inflammation, as predictor of cardiovascular disease. *International Journal of Biological and Medical Research* 2(1): 429-432 (2011).
- ❖ Hypertension, diabetes, metabolic syndrome, inflammation and the risk of stroke. *International Journal of Biological and Medical Research* 2(1):429-432 (2011).
- ❖ Analgesic activity of *Azima tetracantha* in Experimental Animals. *Research J. Pharmacology and Pharmacodynamics* 2 (6): 303-308. (2010).

- ❖ Antipyretic activity of *Azima tetracantha* in Experimental Animals. *Research J. Pharmacognosy and Phytochemistry* 2 (6): 103-108. (2010).
- ❖ Hypoglycemic & Anti-hyperlipidemic activity of ethanolic leaf extract of *Azima tetracantha* Lam. on Alloxan induced diabetic rats. *Cell and Tissue Research* .Vol:9(1) 1681-1685(2009).
- ❖ Effects of ethanolic leaf extract of *Azima tetracantha* Lam. on Ehrlich ascites carcinoma tumour bearing mice. *Research journal of medicine and medical sciences*. Vol: 4(2) 351-354(2009).
- ❖ Wound healing activity of *Azima tetracantha* Lam. on Albino rats. *Journal of Biosciences, Biotechnology Research Asia*. Vol: 3(2) 387-390(2005).
- ❖ Hepatoprotective activity of *Kadhaka Kadiradhi Kashaya*, *Journal of Ancient Science of life*. Vol: XIX (3&4): 135-136(2000).
- ❖ Biological Potential and Phytopharmacological Screening of *Gomphrena* Species Muhammad Ilyas, Arsia Tarnam, **Nargis Begum**. *Global Journal of Pharmacology* Volume7 Issue4 Pages457-464(2013).
- ❖ Study of invitro antioxidant, antidiabetic and antibacterial activity of *clausena anisata* (willd). hook (rutaceae) leaf extracts **Nargis begum**, arsia tarnam, deepa *Journal international journal of research in pharmacology & pharmacotherapeutics* Volume 3 Issue 2 Pages 112-125(2014).
- ❖ Shilu Mathew, Muhammad Faheem, Govindaraju Archunan, Muhammad Ilyas, **Nargis Begum**, Syed Jahangir, Ishtiaq Qadri, Mohammad Al Qahtani, Shiny



Mathew, Journal Bioinformatics and biology insights,Volume 8 Pages -159
(2014).

PERSONAL PROFILE

Born 12 April 1970 ; Indian ; Female

Dr. T. NARGIS BEGUM