

Curriculum Vitae

Name and address :	TASNEEM FATMA Professor & Ex. Head Department of Bio-Sciences Jamia Millia Islamia (Univ.), New Delhi – 110025
Date of Birth :	Jan. 23,1957
Gender :	Female
Category :	General
Email address :	tfatima@jmi.ac.in ; tasneem.jasola@gmail.com
Contact number(s) :	Mob. 9891408366, (O) 01126981717 ext.3414

Academic Experience (National) :			
Positions held	Name of the University	From	To
Professor	Jamia Millia Islamia (Univ.), New Delhi-110025	15.5.98	Till Date
Reader	Jamia Millia Islamia (Univ.), New Delhi-110025	15.5.90	14.5.98
Lecturer	Jamia Millia Islamia (Univ.), New Delhi-110025	15.5.86	14.5.90
Lecturer	Kanpur University (P.P.N. P.G. College)	29.1.82	14.5.86
Academic Experience (International) :			
Visiting Scholar	Texas A & M University, U.S.A.	19.11.91	18.08.92
Visiting Scholar (DBT –Associate)	Texas A & M University, U.S.A.	19.08.91	18.11.91
INSA-DFG (Exchange Scientist)	Rostock University, Germany	17.08 .97	17.12.97

Award/ Prize/ Professional Recognition/ Certificate/ Fellowship received :		
Name of Award	Awarding Agency	Year
Fellowship of The Year Award-2019	NESA, NEW DELHI	2020
International Research Peace Award, 2019	IJRULA	2019
Prof. Y.S.R.K. Sarma Memorial Award (Algology)	Society for Plant Research	2018
UGC-BSR One Time Grant	UGC	2014
Special Achievement Award on 25.2.2001, Constitution Club, New Delhi	Association of India's National News Papers(Day Today Events, Jan Ayog, Qaumi Zindagi)	2001
INSA – DFG Fellowship Tenable at Rostock Univ. Rostock, Germany	INSA	1997
DBT-National Associateship 1991-1992 (Component part) Tenable at Texas A & M Univ., USA	DBT	1991-1992
DBT-National Associateship 1989-1992 Tenable at CFTRI Mysore, India	DBT	1989-1990
Best paper award (Phycology, Madras, India)	Indian Botanical Society	1986
Birbal Sahni Memorial Gold Medal	Lucknow University	1978

Discovered/ Invented:
Insulin like protein from Cyanobacteria.
Bioplastic from cyanobacteria
Additional sources of high value cyanobacterial pigment as natural colorant and antioxidants
New water pollution monitoring technique based on cytoplasmic streaming velocity of characean algae.
New sources of cyanobacterial UV Protective pigments -MAA & Scytonemin
Stress Tolerance Mechanism of Cyanobacteria
Anticancerous Activity of cyanobacteria
Biomedical application of cyanobacterial silver, gold, selenium, titanium and zinc nanoparticles

Successfully Completed / On-going Research Projects : 10				
Project Title	Amount (Rs.)	Agency	Status	Sanctioned year
Cyanobacteria as bioreactor for the synthesis of nanoparticle	89,44 ,000	DRDO, India	Ongoing	2017
Evaluation of antidiabetic compounds from cyanobacteria	25,00,000	CCRUM, India	Complete	2009
Investigation of insulin-like proteins from <i>Spirulina</i>	11,99,000	UGC,India	Complete	2009
Interaction of malathion pesticide with osmolytes and free radicals in <i>Anabaena variabilis</i>	18,69,000	DST,India	Complete	2007
Antimicrobial activity of cyanobacteria	6,18,986	ICMR, India	Complete	2006
Studies on cyanobacterial proline for bioremediation of water pollution	3,50,000	UGC, India	Complete	2004
Phytotoxicity of heavy metals to <i>Spirulina platensis</i>	3,35,491	IFS, Sweden	Complete	1996
Phytotoxicity of heavy metals to <i>Spirulina platensis</i> and biomass analysis for its application	5,33,800	UGC, India	Complete	1994
Isolation and characterization of microalgal lipids and β -carotene	2,08,775	DST, India	Complete	1990
Use of cytoplasmic streaming in characean algae for monitoring aquatic pollution	2,16,228	DOEn, India	Complete	1989

Administrative Experience :

Head of the Department & Chairman BOS, Department of Biosciences, JMI (2001-2004)

Course Coordinator - e-content , Mass Communication, JMI (2013-2015)

Convenor- Research Committee Department of Biosciences, JMI (2018-2020)

V.C Nominee- PG Diploma in Development Communication, AJK-Mass Communications, JMI (2012); **Coding of Entrance test –M.A.** AJK-Mass Communications, JMI (2012); **Project Fellow**, Department of Biotech., JMI (2012); **Upgradation of JRF-SRF**, Centre for Interdisciplinary Research in Basic Sciences, JMI (2014); **Screening of panel of Visiting Faculty to teach BPT & MPT**, Centre for Physiotherapy and Rehabilitation Sciences 92012); **Appointment of Research Assistant**, Department of Biosciences, JMI (2015)

Member- Academic Council , JMI, New Delhi (2001-2004); Integral Univ. Lucknow (2012-2014); **Biology Panel**, NCPUL, New Delhi (2016-2018), **Board of Studies**, Department of Biosciences, JMI (1986-till date), Department of Physics, JMI (2013-2015); M. P. Bhoj Open Univ. Bhopal (2014-2015), Dr. Bhim Rao Ambedkar Univ. Agra (2011-2012); Jawaharlal Nehru University, Environmental Sciences, New Delhi (2009-2010); **Court**, JMI, (2002-2004); **Central Admission Co-ordination & Monitoring Committee** , Jamia Millia Islamia, New Delhi (2013-2016) , **Syllabus Committee** , MJP Rohilkhand Univ. (2016-2017); **RDC Expert Committee** , MJP Rohilkhand Univ. 2016-2017); Screening Committee- **Associate Professor**, Dental College, JMI (2014); **Principal** , Syed Abid Husain Sr. Sec. School (2014); **Admission committee, M.Sc - Biochem.** Department of Biosciences, JMI (2014) **PGT Biology**, Jamia School (2013), **TGT Biology**, Jamia School (2012), **Distance Education Programme- Sarva Shiksha Abhiyan** , Tele Conferencing Session, IGNOU (2012)

Involvement with Formulation of Academic Programs:

Member -Syllabus Committee; Department of Biosciences, JMI (1986-Till today)

Convenor- New Syllabus: B.Sc Biotech. Voc. (2001), M.Sc Biotechnology (2001)
Revision of Syllabus : B.Sc. Biosciences (2001), M.Sc. Biosciences (2001)

Member - Biology Panel, NCPUL, New Delhi 2016-2018; **Syllabus Committee**, MJP Rohilkhand Univ. (2015,2016), **Syllabus Committee** , NCERT; **Biology Syllabus Committee**, **National Open School**

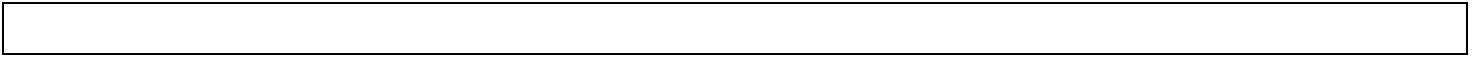
Participation and Contribution in Higher Education :	
Resource Person	DST-INSPIRE Programme , Kashmir University, Srinagar (2012), HR Group Institutions, Noida (2012)
Member	UGC-DRS Inspection & Evaluation Committee, Central Admission, Coordination & Monitoring Committee, JMI
Expert Selection Committee	UPSC – Lectureship, Indian Forest Officers, DOEn (Director –BSI, Calcutta), AMU, BHU (Professor, Reader/ Lecturer), Rohail Khand Univ. (Professor) LNJN National Institute of Criminology & Forensic Science (Professor), Indian Bank (Probationary Officer, Clerk), SSC –Northern Region (Sub Inspectors, Technical Assistant Wildlife), MHRD- Chinese Government Scholarship
Evaluator	DU (Research Proposal), AYUSH (Research Proposal), CSIR Delhi & U.P. (Research Proposal)
Paper Setter	Rajasthan and Assam Public Service Commission

Contribution to Journals and Books:	
Book Authored/ Edited	Cyanobacterial and Algal Metabolism and Environmental Biotechnology, Narosa Publishing House, New Delhi, 1999 14 Citations: Reference book in Algal & Cyanobacterial Research Labs in India & Abroad. Biodiversity determination, Algal biomass & Pigment production ,Understanding Salt Stress Physiology, Molecular Biology
Peer Reviewers for	Journal of Applied Phycology - Springer Link, Germany ;World Journal of Microbiol. & Biotechnol. - Springer Link, Germany ; 3Biotech – Springer on line (in Co-operation with King Abdul Aziz Univ.) ;Photosynthesis Research - Springer Link, Germany ;Environmental Monitoring & Assessment - Springer, America ; Biocatalysis and Agriculture Biotechnology - Elsevier, Netherland ,Ecotoxicology and Environmental Safety - Elsevier , Netherland ;Environmental Pollution - Elsevier, Netherland ;Plant Physiology & Biochemistry - Elsevier, Netherland ; Environmental Toxicology - Wiley Online Library

Seminar Conferences Attended with Paper Presentation :

S.No	Venue	Conferene/ Symposium	Year
56	Amritsar	Golden Jublee National Symposium “ Current Interventions to Plants and microbes for environmental & agricultural Sustainability”	2019
55.	Patiyala	National Conference “Plant and Microbial Research “	2019
54.	Malaysia (Kuala Lumpur)	Algae : New Perspectives Towards a Progressive and Sustainable Living	2017
53.	Delhi	Biotechnology & Environment	2017
52.	Delhi	Recent Advances in Environmental Toxicology	2017
51.	Calcutta	The Green Planet : Past, Present and Future	2016
50.	Patiala	Basic and Applied Researches in Plants and Microbes	2016
49.	Tiruchirapalli	Microalgal and Cyanobacterial Biotechnology	2016
48.	Delhi	New Processes & Applications for Plant & Microbial Products	2016
47.	Delhi	Impact of Emerging Toxic Chemicals on Humans, Plants, Diseases and Sustainable Development	2016
46.	Delhi	Recent Advances in Analytical Sciences and Applications	2015
45.	Noida	Afro-Asian Congress on Microbes for Human & Environmental Health	2014
44.	Varanasi	Biotechnology and Stress Biology of Algae and Cyanobacteria	2014
43.	Mauritius	Biotechnology for Better Tomorrow	2013
42.	Delhi	Current Environmental Challenges and Possible Solutions	2013
41.	Delhi	International Algal Summit	2012
40.	Bilaspur	National Symposium on Plant Biology and its Role in Sustainable Food and Energy Production	2012
39.	Lucknow	XXXIV All India Conference of the Botanical Society	2011
38.	Chennai	National Conference on Algae and Algal Products	2011
37.	Canada	4 th Congress of the International society for Applied Phycology	2011
36.	Aurangabad	International Conference on Biotechnology for Better Tomorrow	2011
35.	Delhi	Symposium on Strategies for Safety Study Requirements For Herbal Formulations	2010
34.	Germany	8 th European Workshop : Biotechnology of Microalgae	2010
33.	Varanasi	International Symposium on Phycological Research	2010
32.	Chennai	International Conference on Algal Biomass Resources and Utilization	2009
31.	Delhi	7 th Asia Pacific Conference on Algal Biotechnology	2009
30.	Patiala	National Symposium on Phycology in India : Basic to Applied	2009
29.	Chandigarh	National Symposium on Recent Advances in Phycology from	2007

		Molecules to Ecosystem	
28.	Philippines	Pacific Conference on Algal Biotechnology	2006
27.	New Delhi	International conference on Recent trends in Algal Biotechnology	2006
26.	Chennai	National symposium on Biology and Biodiversity of Fresh Water Algae	2004
25.	Patiala	National symposium on Recent Trend in Algal Biology and Biotechnology	2004
24.	Varanasi	Cyanobacteria and Plants under Environmental : Responses, Defence Strategies and Biotechnological Prospects Stress	2003
23.	China	International workshop on Microalgal Biotechnology	2002
22.	New Delhi	Seminar on Science , Technology and Development Academic Staff College, JMI (resource person).	2002
21.	New Delhi	Workshop on Reorienting Teachers training to Address Sustainable development , NCTE, JMI	2002
20.	Lucknow	World Summit on Sustainable Development Northern Region Workshop	2002
19.	Lucknow	The 2 nd International Conference on Plants and Environmental Pollution	2002
18.	New Delhi	Women Scientists and Technologists for National Development	2002
17.	Hong Kong	The 4 th Asia Pacific Conference on Algal Biotechnology	2000
16.	Chennai	National Symposium on Phycology in Millenium	2000
15.	Nainital	International Conference on Tropical Aquatic Ecosystems : Health, Management and Conservation	1999
14.	New Delhi	National Symposium on Toxicology & Environmental Health	1998
13.	Varanasi	Symposium on Algal Biology and Biotechnology	1997
12.	Lucknow	International Conference on Plant & Environmental Pollution	1996
11.	Tiruchirapalli	International Symposium on Cyanobacterial Biotechnology	1996
10.	Italy (Urbino)	Fourth International Symposium on Photosynthetic Prokaryotes	1994
09.	New Delhi	National Symposium, Emerging Technology in Environmental Conservation	1994
08.	Dehradun	International Seminar on MFP in Forestry	1993
07.	New Delhi	Frontiers in Modern Biology	1993
06.	New Delhi	International Conference on Recent Advances in Medical & Aromatic Plants	1989
05.	Australia (Melbourne)	Third International Phycological Congress	1986
04.	Varanasi	International Phycotalk Symposium	1987
03.	New Delhi	Indian Science Congress Association	1986
02.	Madras	International Symposium on Phycology	1986
01.	Hyderabad	Indian Botanical Congress	1985



List of Publications (Articles/ Reviews):

S.No.	Author(s)	Title	Name of Journal	Volume	Page	Year	Impact factor	Citation
120.	Afzal B, Yasin D, Naaz H, Sami N, Zaki A, Srivastava P, Kumar Raj, Fatma T	Biomedical potential of <i>Anabaena variabilis</i> NCCU-441 based Selenium nanoparticles and their comparison with commercial nanoparticles	Scientific Reports	11(1)	1-15	2021	4.379	-
119.	Asif N, Fatima S, Aziz N, ShehzadiZaki A, Fatma T	Biofabrication and characterization of cyanobacteria derived ZnO NPs for their bioactivity comparison with commercial chemically synthesized nanoparticles	Bioorganic Chemistry	113	104999	2021	4.831	-
118.	Ansari S, Sami N, Yasin D, Ahmad N, Fatma T	Biomedical applications of environmental friendly poly-hydroxyalkanoates	International Journal of Biological Macromolecules	183	549-563	2021	5.162	-
117.	Husain S, Verma SK, Hemlata, Azam M, QMR Haque, Fatma T	Antibacterial efficacy of facile cyanobacterial silver nanoparticles inferred by antioxidant mechanism	Materials Science & Engineering C	122	111888	2021	5.880	-
116.	Ahamad I, Aziz N, Zaki A, Fatma T	Synthesis and characterization of silver nanoparticles using <i>Anabaena variabilis</i> as a potential antimicrobial agent	Journal of Applied Phycology		1-13	2021	3.016	-
115.	Husain S, Verma SK, Yasin D, Hemlata, Rizvi M A, Fatma T	Facile green bio-fabricated silver nanoparticles from <i>Microchaete</i> infer dose-dependent antioxidant and anti-proliferative activity to mediate cellular apoptosis	Bioorganic Chemistry	107	104535	2020	4.831	1
114.	Sami N, Ahmad R, Fatma T	Exploring algae and cyanobacteria as a promising natural source of antiviral drug against SARS-CoV-2	Biomedical Journal	44 (1)	54-62	2020	3.697	4
113.	Sami N, Ansari S, Yasin D, Fatma T	Estrone degrading enzymes of <i>Spirulina</i> CPCC-695 and synthesis of bioplastic precursor as a by-product	Biotechnology Reports	26	e00464	2020	-	-
112.	Ansari S and Fatma T	Characterization of <i>Nostoc muscorum</i> NCCU-442 Derived Poly-3-hydroxybutyrate (PHB) and Polyethylene Glycol (PEG)	The Natural Products Journal	10 (3)	200-207	2020	-	-

		Blends						
111.	Fatima S, Asif N, Ahmad R, Fatma T	Toxicity of NSAID drug (paracetamol) to nontarget organism- <i>Nostoc muscorum</i>	Environmental Science and Pollution Research	27 (28)	35208-35216	2020	3.056	2
110.	Afzal B, Yasin D, Husain S, Zaki A, Srivastava P, Kumar Raj, Fatma T	Screening of cyanobacterial strains for the selenium nanoparticle synthesis and their antioxidant activity	Biocatalysis and Agricultural Biotechnology, Elsevier	21	101307 (1-7)	2019	-	4
109.	Husain S., Afreen S., Hemlata, Yasin D., Afzal B., Fatma T	Cyanobacteria as a bioreactor for synthesis of silver nanoparticles-An effect of different reaction conditions on size of nanoparticles and their dye decolorization ability	Journal of Microbial Methods, Elsevier	162	77-82	2019	1.7	15
108.	Aziz, N., Sherwani, A., Faraz, M., Fatma, T., & Prasad, R	Illuminating the anticancerous efficacy of a new fungal chassis for silver nanoparticle synthesis	Frontiers in Chemistry, Frontiers	7	1-11	2019	3.693	52
107.	Sami, N., & Fatma, T	Studies on estrone biodegradation potential of cyanobacterial species	Biocatalysis and Agricultural Biotechnology, Elsevier	17	576-582	2019	0.479	11
106.	Yasin, D., Zafaryab, M., Ansari, S., Ahmad, N., Khan, N. F., Zaki, A., & Fatma, T	Evaluation of antioxidant and anti-proliferative efficacy of <i>Nostoc muscorum</i> NCCU-442	Biocatalysis and Agricultural Biotechnology, Elsevier	17	284-293	2019	0.479	7
105.	Yasin D, Fatma T, Zafaryab M, Ahmad N, Aziz N, Rizvi MMA	Exploring the bio-efficiencies of methanolic extracts of <i>Nostoc muscorum</i> and <i>Calothrix brevissima</i> with their characterization using GC-MS	The Natural Product Journal, Bentham Science	8	1-13	2018	--	2
104.	Qumaizi KI, Anwer R, Ahmad N, Alosaimi SM, Fatma T	Study on interaction of antidiabetic drug Piogliazone with calf thymus DNA using spectrophotometric techniques	Journal of Molecular Recognition, Wiley	31	e2735	2018	1.919	10

103.	Shakeel T, Gupta M,.... Fatma T, YazdaniSS	A consensus –guided approach yields a heat stable alkane – producing enzyme and identifies residues promoting thermostability	Journal of Biological Chemistry	--	DOI: 10.1074/jbc.RA117.000639	2018	4.01	12
102	Shamsi TN, Parveen R, Afreen S, Azam M, Sen P, Sharma Y, Haque QMR Fatma T, Manzoor N & Fatima S	Trypsin inhibitors from <i>Cajanus cajan</i> and <i>Phaseolus limensis</i> possess antioxidant, anti-inflammatory and antibacterial activity	Journal of Dietary Supplements	2	939-950	2018	--	13
101.	Parveen R, Shamsi TN, Afreen S, Azam M, Fatma T, Haque QMR & Fatima S	<i>Vigna unguiculata</i> trypsin inhibitor : A protein with versatile biological application	Current Enzyme Inhibition	14	75-84	2018	--	-
100.	Hemlata, Afreen S & Fatma T	Extraction, purification and characterization of phycoerythrin from <i>Microchaete</i> and its biological activities	Biocatalysis and Agricultural Biotechnology	13	84-89	2018	-	12
99.	Afreen S, Anwer R, Singh RK & Fatma T	Extracellular laccase production and its optimization from <i>Arthrospira maxima</i> catalyzed decolorization of synthetic dyes	Saudi Journal of Biological Sciences	25	1446-1453	2018	2.802	39
98.	Parween T, Jan S, Mahmooduzzafar & Fatma T	Variation in elemental composition as influenced by chlorpyrifos application in mung bean (<i>Vigna radiate</i> L.)	Saudi Journal of Biological Sciences	25	1439-1445	2018	3.13	2
97.	Afreen S, Bano F, Ahmad N, & Fatma T	Screening and optimization of laccase from cyanobacteria with its potential in decolourization of anthraquinonic dye remezol brilliant blueR	Biocatalysis and Agricultural Biotechnology	10	403-410	2017	-	20
96.	Ahmad N, & Fatma T	Production of Indole-3-Acetic acid by cyanobacteria	The Natural Products Journal	7	112-120	2017	--	4
95.	Afreen S,	A novel multicopper oxidase	PLOS one	12(4)	1-20	2017	2.740	39

	Shamshi TN, Baig MA, Ahmad N, Fatima S, Qureshi, MI Hassan MI, Fatma T	(laccase) from cyanobacteria: purification, characterization with potential in the decolourization of anthraquinonic dye			e0175144			
94.	Anwer R, Ahmad N, Al Qumaizi KI, Al Khamees OA, Al Shaqha WM. Fatma T	Interaction of procarbazine with calf thymus DNA-a biophysical and molecular docking study	Journal of Molecular Recognition	30 (5)	e2599	2017	1.919	6
93.	Ansari S & Fatma T	Cyanobacterial polyhydroxybutyrate (PHB): Screening, optimization and characterization	PLOS ONE	11(6)	1-20	2016	2.740	79
92.	Ansari S, Yasin D & Fatma T	Key insights of natural bioplastic polyhydroxybutyrate (PHB) synthesis in cyanobacteria.	American Journal of Pharm Tech Research	6	110-127	2016	--	-
91.	Ansari MKA , Khatib U M, Owens G & Fatma T	Evaluation of methyl red tolerant cyanobacteria for simultaneous laccase production and dye decolorization	International Journal of Waste Resources	6	2-7	2016	0.456	2
90.	Shamsi TN, Parveen R, Rehsawla R, Afreen S, Azam M, Fatma T , Haque QM R & Fatima S	In-vitro antioxidant, antibacterial and anti-inflammatory characterization of Indian Honey.	International Journal of Pharmaceutical Research	8	33-38	2016	-	1
89	Parween T, Jan S, Mahmooduzzafar & Fatma T , Siddiqui ZH	Selective effect of pesticides on plant-A review	Critical Reviews in Food Science and Nutrition	56	160-179	2016	7.862	43

88.	Ansari, MKA, Zia MH, Ahmad A, Aref IM, Fatma T , Iqbal M, Owens G	Status of antioxidant defence system for detoxification of arsenic in <i>Brassica juncea</i>	Ecoprint: An International Journal of Ecology	22	7-19	2015	--	1
87.	Shamsi TN, Parveen R, Afreen S, Azam M, Fatma T , Haque QMR & Fatima S	Biological characterization of Indian aurvedic formulation, <i>Panchakola</i>	International Journal of Pharmaceutical Research and Bio-Science	4 (6)	17-27	2015	--	--
86.	Aziz N, Faraz M, Pandey R, Shakir M & Fatma T , Varma A, Barman I, Prasad R	Facile algae –derived route to biogenic silver nanoparticles : synthesis, antibacterial and photocatalytic, properties	Langmuir	31	11605-11612	2015	3.557	281
85.	Hussain S, Sardar M & Fatma T	Screening of cyanobacterial extracts for synthesis of silver nanoparticle	World Journal of Microbiology & Biotechnology	31 (8)	1279-1283	2015	2.477	39
84.	Shakeel T, Fatima Z, Fatma T & Yazdani S S	Heterogeneity of hydrocarbon chain in fresh water and marine cyanobacteria	Frontiers in Bioengineering and Biotechnology Synthetic Biology	3(34)	1-10	2015	3.644	14
83.	Aziz N, FatmaT, Verma A & Prasad R	Biogenic synthesis of silver nanoparticles using <i>Scenedesmus abundans</i> and evaluation of their antibacterial activity	Journal of Nanoparticles	2014	1-6	2014	--	53
82.	Shamshi TN, Parveen R, Afreen S, Azam M, Fatma T & Haque QMR, Fatima S	In-vitro antibacterial and antioxidant activities of sandalwood (<i>Santalum album</i>)	Austin Journal of Biotechnology & Bioengineering	1(2)	1-3	2014	--	7

81.	Kyadari M, Fatma T, Azad R & Velpandian T	Antiangiogenic and antiproliferative assessment of cyanobacteria	Indian Journal of Experimental Biology	52	835-842	2014	--	12
80.	Hemlata, Bano F & Fatma T	Cyanobacterial phycoerythrin with special reference to <i>Microchaete</i> sp. CCU 342	International Journal of Innovative Research in Science Engineering and Technology	3	10235- 10243	2014	--	3
79.	Mushir S, Deep,S & Fatma T	Screening of cyanobacterial strains for UV-screening compound scytonemin – environmental perspectives	International Journal of Innovative Research in Science Engineering and Technology	3(2)	919-9196	2014	--	7
78.	Ansari S & Fatma T	Poly hydroxybutyrate –a biodegradable plastic and its various formulations	International Journal of Innovative Research in Science Engineering and Technology	3(2)	9598- 9602	2014	--	20
77.	Zutshi N, Bano F, Habib K & Fatma T	Metabolic adaptations to arsenic induced oxidative stress in <i>Hapalosiphon fontinalis</i> -339	International Journal of Innovative Research in Science Engineering and Technology	3	9386- 9394	2014	---	14
76.	Parween T, Jan S, Mahmoodu zzafar & Fatma T	Differential response of <i>Vigna radiata</i> L. to varied doses of chlorpyrophos	Journal of Plant Nutrition	36	1565- 1577	2013	1.132	2
75.	Maniker N, Kumar S, Habib K & Fatma T	Biochemical analysis of <i>Anabaena variabilis</i> exposed to malathion pesticide with special reference to oxidative stress and osmolyte	International Journal of Innovative Research in Science Engineering and Technology	2 (10)	5403- 5420	2013	--	12
74.	Kyadari M, Fatma T, Azad R &	Evaluation of antiangiogenic and antiproliferative potential of the organic extract of green	Indian Journal of Pharmacology	45(6)	569-574	2013	1.040	16

	Velpandian T	algae <i>Chlorella pyrenoidosa</i>						
73.	Bharat N, Irshad M, Rizvi MMA & Fatma T	Antimicrobial and cytotoxic activities of cyanobacteria	International Journal of Innovative Research in Science Engineering and Technology	2 (9)	4328-4342	2013	--	14
72.	Sharma RD, Kanwal R, LynnA, Singh P, Pasha ST, Fatma T & Jawaid S	High temperature unfolding of a truncated hemoglobin molecular dynamics simulation	Journal of Molecular Modelling	19(9)	3993-4002	2013	1.346	2
71.	Ningthoujam M, Habib,K, Bano F, Zutshi S & Fatma T	Exogenous osmolyte suppresses the toxic effects of malathion on <i>Anabaena variabilis</i>	Ecotoxicology and Environmental Safety	94	21-27	2013	4.872	14
70.	Afreen S & Fatma T	Laccase production and simultaneous decolourization of synthetic dyes by cyanobacteria	International Journal of Innovative Research in Science Engineering and Technology	2(8)	3563-3568	2013	--	4
69.	Anwer R, Alam A, Khursheed S, Kabir H & Fatma T	<i>Spirulina</i> : possible pharmacological evaluation for insulin like protein	Journal of Applied Phycology	25(3)	883-889	2013	3.016	26
68.	Habib K, Manikar N, Ansari S & Fatma T	Carbaryl stress induced cellular changes in <i>Calothrix brevissima</i>	Environmental Science and Pollution Research	20	862-871	2013	3.056	6
67.	ParweenT, Jan S, Mahmooduzzafar & Fatma T	Evaluation of oxidative stress in <i>Vigna radiate</i> L. in response to chlopyrifos	International Journal of Environmental Science and Technology	9	605-612	2012	2.037	38
66.	Bano F, Zutshi S & Fatma, T	Chromium (IV) induced oxidative stress in <i>Hapalosiphon fontinali</i>	World Journal of Microbiology and Biotechnology	28	2505-2511	2012	2.1	9

65.	Khursheed S, Anwer R, & Fatma T	Insulin like antigen : sources other than pancreas	International Journal of Current Pharmaceutical Research	4 (3)	24-28	2012	-	5
64.	Khursheed S, Anwer R, Zutshi S & Fatma T	Screening of photosynthetic, O ₂ evolving prokaryotes for insulin like antigen	Journal of Phycology	48	243-245	2012	2.328	5
63.	Mushir S & Fatma T	Monitoring stress responses in cyanobacterial scytonemin: screening and characterization	Environmental Technology	3	153-157	2012	2.213	14
62.	Anwer R, Khursheed S, & Fatma T	Detection of immuno active insulin in <i>Spirulina</i>	Journal of Applied Phycology	24 (3)	583-591	2012	3.016	19
61.	Habib K, Kumar S, Maniker N, Zutshi S & Fatma T	Biochemical effect of carbaryl on oxidative stress, antioxidant enzymes and osmolytes of cyanobacterium <i>Calothrix brevisissima</i>	Bulletin of Environmental Contamination and Toxicology	87	615-620	2011	1.657	23
60.	Parween T, Jan S, Mahmoodu zzafar & Fatma T	Assessing the impact of chlorpyrifos on growth, photosynthetic pigments and yield in <i>Vigna radiate</i> L. at different phenological stages	African Journal of Agricultural Research	6(19)	4432-4440	2011	-	13
59.	Parween T, Jan S, Mahmoodu zzafar & Fatma T	Alteration in nitrogen metabolism and plant growth during different developmental stages of green gram (<i>Vigna radiate</i> L.) in response to chlorpyrifos	Acta Physiologiae Plantarum	33	2321-2328	2011	1.760	42
58.	Parween T, Jan S, Mahmoodu zzafar, Sharma MP, Mujib A & Fatma T	Genotoxic impact of cadmium on root meristem of <i>Vicia faba</i>	Russian Agricultural Science	37(2)	115-119	2011	--	11
57.	Hemlata, Pandey G, Bano F, & Fatma T	Studies on <i>Anabaena</i> sp. NCCU-9 with special reference to phycocyanin	Journal of Algal Biomass Utilization	2(1)	30-51	2011	--	24
56.	Mushir S, & Fatma T	Ultraviolet radiation-absorbing mycosporine-like amino acids in cyanobacterium <i>Aulosira fertilissima</i> : environmental perspective and	Current Research Journal of Biological Sciences	3(2)	165-171	2011	0.496	23

		characterization						
55.	Rakshit S, Rashid Z, Sekhar J C, Fatma T & Das S	Callus induction and whole plant regeneration in elite Indian maize (<i>Zea mays</i> L.) inbreds	Plant Cell Tissue Organ Cult	100	31-37	2010	2.196	77
54.	Gunjan P, Fatma T , Sudha M, Cowsik, Komath SS	Specific interaction of jacalin with phycocyanin, a fluorescent phycobiliprotein	Journal of Photochemistry and Photobiology B: Biology	97	87-93	2009	4.383	22
53.	Pandey G, Komat S, Fatma T	Specific interaction of the legume lectins, concanavalin A and peanut agglutinin, with Phycocyanin	Photochemistry and Photobiology	85	1126-1133	2009	2.721	13
52.	Hemlata & Fatma T	Screening of cyanobacteria for phycobiliproteins and effect of different environmental stress on its yield	Bulletin of environmental contamination and toxicology	83	509-515	2009	1.657	70
51.	Tabassum T, Bhat P, Kumar R , Fatma T , & Trisal CL	Vegetation of the river Yamuna floodplain in the Delhi stretch, with reference to hydrological characteristics	Ecohydrology	2(2)	156-163	2009	2.767	5
50.	Mathur T, Singhal S, Bhateja P, Rattan A, Bhatnagar P, Upadhyay D & Fatma T	Effect of Oxazolidinone, RBx (Ranbezolid) on inhibition of <i>Staphylococcal</i> adherence to plastic surfaces	Journal of Chemotherapy	20	420-427	2008	1.490	1
49.	Kumar S, Habib K & Fatma T	Endosulfan induced biochemical changes in nitrogen fixing cyanobacteria	Science of Total Environment	403	130-138	2008	6.551	111
48.	Zutshi S, Chaudhry M, Bharat N, Abdin M Z & Fatma T	Evaluation of antioxidant defence response to lead stress in <i>Hapalosiphon fontinalis</i>	Journal of Phycology	44 (4)	889- 896	2008	3.0	10
47.	Rao M, Malhotra S,	Antimycobacterial activity from cyanobacterial extracts	Pharmaceutical Biology	45	228-293	2007	1.241	22

	Fatma T & Rattan A	and phytochemical screening of methanol extract of <i>Hapalosiphon</i>						
46.	Choudhary M, Jetly UK, Khan A, Zutshi S & Fatma	Effect of heavy metal stress on proline and malondialdehyde contents and superoxide dismutase activity in cyanobacterium- <i>Spirulina platensis</i>	Ecotoxicology and Environmental safety	66(2)	204-209	2007	4.872	387
45.	Khan MA & Fatma T	Impact of environmental pollution on cyanobacterial proline content	Journal of Applied Phycology	19	625-629	2007	3.016	39
44.	Bhateja P, Mathur T, Pandya P, Fatma T & Rattan A	Activity of blue green algae extracts against invitro generated <i>Staphylococcus aureus</i> with reduced susceptibility to vancomycin	Fitoterapia	77	233-235	2006	2.345	24
43.	Mathur T, Singhal S, Khan S, Upadhy DJ & Fatma T	Detection of biofilm formation of the clinical isolates of <i>Staphylococcus</i> evaluation of three different screening methods	Indian journal of medical microbiology	24(1)	25-29	2006	0.988	676
42.	Rao M, Sood R, Malhotra S, Fatma T , Upadhy D J & Rattan A	Invitro Bactericidal activity of oxazoidinone, RBx 8700 against <i>Mycobacterium tuberculosis</i> and <i>Mycobacterium avium</i> complex	Journal of Chemotherapy	18(2)	144- 150	2006	1.661	14
41.	Bhateja P, Purnapatre K, Dube S, Fatma T & Rattan A	Characterisation of laboratory generated vancomycin – intermediate resistant <i>Staphylococcus aureus</i> strains	International Journal of antimicrobial Agents	27	201-211	2006	4.621	24
40.	Bhateja P, Mathur T, Pandya M, Fatma T & Rattan A	Detection of <i>Vancomycin</i> resistant <i>Staphylococcus aureus</i> : A comparative study of three different phenotypic screening method	Indian Journal of Medical Microbiol	23(1)	52-55	2005	0.988	35
39.	Mathur T, Singhal S, Khan S, Upadhy D.J & Fatma T	Adverse effect of <i>Staphylococci</i> slime on invitro activity of glycopeptides	Japanese Journal of Infectious Disease	58(6)	353-357	2005	-	46

38.	Kumar S, Jetly UK & Fatma T	Tolerance of <i>Spirulina platensis</i> and <i>Anabaena sp</i> to endosulfan, an organochlorine Pesticide	Annual review of Plant Physiology	18(2)	103-107	2004	-	12
37.	Fatma T & Pandey SK	Toxicological studies of pesticides on cytoplasmic streaming in <i>Nitella</i>	Indian Journal of Experimental Biology	242	732-735	2004	0.783	2
36.	Jetley UK, Choudhary M & Fatma T	Evaluation of biochemical productivity in cyanobacterium <i>Spirulina platensis</i> – S5 under heavy metal stress	Asian Journal of Chemistry	16(3)	1524 – 1528	2004	-	17
35.	Jetley UK, Choudhary M & Fatma T	Evaluation of biochemical productivity in cyanobacterium <i>Spirulina platensis</i> – S5 under heavy metal stress Part - II	Asian Journal of Chemistry	16 (3)	1868- 1874	2004	-	-
34.	Jetley U.K, Choudhary M & Fatma T	The impact of physical stress on the growth of cyanobacterium <i>Spirulina platensis</i> – S5	Journal of Environmental Science & Engineering	46(4)	303 – 31	2004	-	8
33.	Jetley U.K Choudhary M & Fatma T	Potentiality of cyanobacterium <i>Spirulina platensis</i> – S5 for bioremediation of zinc	Bulletin of Environmental Contamination and Toxicology	1	77-83	2004	1.657	-
32.	Mathur T, Bhateja P, Pandya M, Fatma T , & Rattan A	Invitro activity of RBX 7644 (Ranbezolid) on biofilm producing bacteria	International Journal of Antimicrobial Agents.	24	369-373	2004	4.621	24
31.	Jetley UK, Choudhary M, Fatma T	Bioremedial potential of cyanobacterium <i>Spirulina platensis</i> – S5 for lead	Bulletin of Environmental Contamination and Toxicology	1(2)	197-203	2004	1.480	-
30.	Taneja L, Fatma T	Potential use of <i>Phormidium</i> for bioremediation of copper	Indian Journal of Applied and Pure Biology	15	83-86	2000	--	2
29.	Badisa RB, Rabburi D and Fatma T	Partial characterization of an abundant human skin melanosomal 66 kDa protein tumors	Melanoma Research	10	515-526	2000	2.750	1
28.	Sultan S & Fatma T	Phytotoxicity of heavy metals on <i>Spirulina platensis</i>	Phykos	38(1&2)	87 – 92	1999	--	15
27.	Sharma SK, Fatma T &	A simple and rapid serum bactericidal assay and its evaluation in clinical isolates of <i>Klebsiella</i>	Journal of microbiological methods	39(1)	45-48	1999	1.707	9

	Thukral SS							
26.	Babu BD, Diwakar G, Ramaiah A & Fatma T	Effect of an abundant human skin, melanosomal 66 KDa protein (MP66) on murine tyrosinase: Its physiological implications on melanogenesis	Journal of Biosciences	23	125-129	1998	1.65	3
25.	Pandey, S.K., Khan AN, Singh AK, Fatma T , Amin M	Use of cytoplasmic streaming in <i>Nitella</i> for monitoring aquatic pollution	Indian Journal of Experimental Biology	35	1258-1260	1997	0.783	1
24.	Ramaswamy KS, Carrasco CD, Fatma T , Golden JW	Cell type specificity of the <i>Anabaena</i> , fdx N – element rearrangement requires Xis H & Xis I	Molecular Microbiology	23	1241-1249	1997	3.816	64
23.	Khan KA, Rattan A, Fatma T , Khan FG & Kalia A	Application of whole cell protein analysis by PAGE to establish source of <i>Salmonella typhimurium</i> SDS-PAGE	The Journal of Infection	33	169-171	1996	4.603	6
22.	Chauhan NP, Fatma T & Singhal GS	Development of anti-oxidative system of wheat seedlings in response to high light	Physiologia Planterum	94	97-103	1995	4.1	110
21.	SurpalBB, Khanna SP & Fatma T	In vitro activity of ofloxacin against clinical isolates of <i>Mycobacterium tuberculosis</i>	International Journal of Tuberculosis and Lung Disease	43	183-186	1995	-	10
20.	Khan .A, Rattan A, Fatma T , Khan FG and Kalia, A	Finger printing of <i>Salmonella typhimurium</i> – comparison between traditional and molecular methods	Indian Journal of Medical Microbiology	13 (3)	141-144	1995	0.988	-
19.	Singh BV, Fatma T & Goyal SK	Algal flora of saline alkali soil from rice fields of Siknaderpur, Hardoi	Acta Botanica Indica	23	67-70	1995	-	2
18	Singh BV, Goyal SK & Fatma T	pH tolerance in certain cyanobacteria	Phykos	34	97 –103	1995	--	7
17.	Fatma T , Sarda R & Venkatara	Evaluation of selected strains of <i>Spirulina</i> for their constituents	Phykos	33(1&2)	89-97	1994	--	27

	man LV							
16.	Fatma T & Venkataraman LV	Cyanobacterial and algal potential as biochemicals	Journal of Non-timber Forest Products	1	19-39	1994	--	-
15.	Chauhan NP, Fatma T & Mishra RK	Protection of wheat chloroplast from lipid peroxidation and loss of photosynthetic pigments by quercetin under strong illumination	J. Plant Physiology	140	409-413	1992	3.121	19
14.	Fatma T & Venkataraman LV	Conjugal gene transfer in filamentous cyanobacteria	Current Science	63(4)	186-191	1992	0.756	2
13.	Fatma T	Effect of culture filtrate on the growth of <i>Spirulina platensis</i>	Current Science	59	797-798	1990	0.756	5
12.	Fatma T	Ecological studies on Chaetophorales of two ponds of Lucknow	Phykos	29	89-94	1990	-	1
11.	Fatma T	Taxonomy and Ecology of a New Indian chaetophorean member <i>Stigeoclonium longipilum</i> Kuetz.	Acta Botanica Indica	18	276-277	1990	-	2
10.	Fatma T	<i>Stigeoclonium nanum</i> – A new biological indicator of water pollution	Research Journal of Plant and Environment	6 (2)	89-91	1990	--	-
9.	Fatma T	Morphological & ecological observations on <i>Stigeoclonium farctum</i> chaetophorales, Chlorophyceae	Current Science	58(24)	1366-1367	1989	0.756	1
8.	Fatma T	Micro algal lipids	Everyman Science	--	159-163	1989	--	-
7.	Fatma T	Epiphytic algal flora of fresh water ponds of Lucknow – Chaetophorales	Phykos	24	173-174	1985	--	2
6.	Prasad BN & Fatma T	<i>Epibolium polysporum</i> Duringer, Chlorophyceae Chaetophorales- A rare green alga from India	Geophytology	12	336-339	1982	--	-
5.	Prasad BN & Fatma T	<i>Leptosiroopsis torulosa</i> jao – A new addition to the Indian flora	J I B S	61	449-450	1982	--	4
4.	Prasad, B.N. & Fatma T	<i>Aphanochaete magna</i> Godward – A new addition to the Indian flora	Geophytology	11(2)	211-213	1981	--	2
3.	Prasad BN & Fatma T	<i>Stigeoclonium nudiusculum</i> (Kuetz) Kuetz emend – A new addition to the Indian flora	Current Science	50(11)	501-502	1981	0.756	3
2.	Prasad BN &	<i>Chaetosphaeridium pringsheimii</i> Klebhan -A new	Current Science	50(4)	187-188	1981	0.756	

	Fatma T	addition to the Indian flora						
1.	Prasad BN & Fatma T	<i>Bulbochaete ivorencis</i> , Gauthier Lievere, - A new addition to the Indian flora	Current Science	50(1)	31-32	1981	0.756	5

List of Published Book Chapters :

S.No	Title	Author's Name	Publisher	Publication Year
29	Biosynthesis of Gold Nanoparticles and their Potential Applications :with special references to Algae and Cyanobacteria	Shehzadi, Aziz,N, Ahmad,N, Fatma T , in Algae and Sustainable Technologies, Ed. Upadhyay A, and Singh DP	Taylor & Francis Group,U.S.A.	2021 (in press)
28	Effect of cyanobacterial salicylic acid in amelioration of pesticide stress	Naaz H , Khan NJ and Fatma T , in Algae as a sustainable green gold for the future, Ed. Upadhyay A, and Singh DP	Taylor & Francis Group,U.S.A.,	2021 (in press)
27	Flavonoids as food supplement with special reference to Algae and Cyanobacteria	Ahmad R and Fatma T , in Algae as a sustainable green gold for the future, Ed. Upadhyay A, and Singh DP	Taylor & Francis Group,U.S.A.	2021 (in press)
26	Paracetamol toxicity to cyanobacteria	Fatima S and Fatma T in Algae as a sustainable green gold for the future, Ed. Upadhyay A, and Singh DP	Taylor & Francis Group,U.S.A.	2021 (In Press)
25	Green synthesis of Titanium dioxide nanoparticles and their applications	Siddiqui T, Khan NJ and Fatma T , in Sustainable Nanotechnology: Strategies, Products, and Applications, Ed. Pathak YU, & Parayil G	John Wiley and Sons New York	2021 (In Press)
24	Silver nano-particle synthesis from cyanobacteria : Environmental and biomedical applications	Aziz MN, Zaki A, Ahamad I & Fatma T In Emerging Technologies for	Springer, Inc, USA	2021 (In Press)

		Nanoparticle Manufacturing, Ed. Patel J & Pathak YU		
23	Selenium nano-particles : green synthesis and exploitation	Afzal B, Yasin D, Husain S, Fatma T , in Emerging Technologies for Nanoparticle Manufacturing, Ed. Patel J & Pathak YU	Springer, Inc, USA	2021 (In Press)
22	Microalgal zinc oxide nanoparticles: current status and future prospects	Asif N, Aziz M N and Fatma T, In Applied Algal Biotechnology, Ed. <u>Arumugam M</u> , <u>S. Kathiresan S</u> , Nagaraj S, ISBN: 978-1-53617-524-0	Nova Science Publishers, USA	2020 (Proof Stage)
21	Cyanobacteria mediated remediation of estrone- an emerging pollutant in aquatic bodies	Sami N & Fatma T In Applied Algal Biotechnology, Ed. <u>Arumugam M</u> , <u>S. Kathiresan S</u> , Nagaraj S, ISBN: 978-1-53617-524-0	Nova Science Publishers, USA	2021 (Proof Stage)
20	Cyanobacteria as promising source of therapeutic agents against various human diseases	Durdana Y & Fatma T, In In Phycobiotechnology: Biodiversity and Biotechnology of Algae and Algal Products for Food, Feed, and Fuel Ed. <u>Sangeetha, J</u> , <u>Thangadurai D</u> , <u>Elumalai S</u> , <u>Thimmappa, SC</u> ISBN: 9781771888967	CRC Press, USA pp 187-214	2021
19	DNA rearrangement of cyanobacterial nitrogen fixing genes during heterocyst development	Sami N & Fatma T, in Phycobiotechnology: Biodiversity and Biotechnology of Algae and Algal Products for Food, Feed, and Fuel Ed: <u>Sangeetha, J</u> , <u>Thangadurai D</u> , <u>Elumalai S</u> , <u>Thimmappa, SC</u>	CRC Press, USA pp 251-270	2021

		ISBN: 9781771888967		
18	Apoptotic pathway: A propitious therapeutic target for cancer treatment	Yasin D, Zafaryab M, Fakhri KU, Husain S, Afzal B, Sami N, Hemlata, Rizvi MMA Rizvi, and Fatma T in Handbook of Research on Advancements in Cancer Therapeutics Ed: Sumit Kumar, Moshahid Alam Rizvi and Saurabh Verma	IGI Global Publisher, USA, ISBN: 9781799865315, 9781799865308, pp 290-311	2021
17	Cyanobacteria : A cure for cancer	Durdana Y & Fatma T in Bioprospecting of Algae, Ed. : Noor, MN; Bhatnagar, SK & Sinha, SK	Society for Plant Research ISBN: 978-81-937106-0-9, pp 79-98	2018
16	Bioplastic from cyanobacteria	Ansari S, & Fatma T in Bioprospecting of Algae, Ed.: Noor, MN; Bhatnagar SK & Sinha SK	Society for Plant Research ISBN: 978-81-937106-0-9, pp 99-107	2018
15	Biofilm : A next generation biofertilizer	Parween T, Bhandari P, Siddiqui ZH, Jan S, Fatma T & Patanjali PK in Mycoremediation and Environmental Sustainability, Fungal Biology Ed.: Prasad R	Springer International Publishing AG, ISBN : 3319689576, 9783319689579, pp 39-51	2017
14	Photosynthesis under abiotic stress environment	Parween T, Bhandari P, Jan S, Mahmooduzzafar, Fatma T & Raza SK in Environment and photosynthesis : A future prospects	Stadium Press ISBN : 978-93-85046-20-9, pp 305-316	2017
13	Cyanobacteria in book “The algae world” ,	Zutshi S & Fatma T . Ed.: Sahoo,D Seckbach J	Springer , Netherland, ISBN : 978-94-017-7321-657-89, pp 57-89	2015
12	Cytoplasmic streaming velocity of <i>Nitella</i> as a new aquatic pollution bio assay technique	Fatma T , & Pandey,S K in Phycotalk, Ed.: SC Gajaria	Pointer Publisher, Jaipur ISBN 10: 8171323952 ; ISBN 13: 9788171323951 pp 120-128	2005
11	Potentiality of cyanobacterium <i>Spirulina platensis</i> –S5 for bioremediation of chromium (Cr)	Jetly UK, Choudhury, M & Fatma T , Biotechnology for a better LD’Souza,	SAC Publications pp 302-314	2004

10	Biosphere	Fatma T , Ed. Zeenat Qidwai, in Environmental Education	Institute of Advanced Studies in Education, JMI, New Delhi pp 101-114	2002
9	Environmental Problems : Ethics & sustainable development : Environmental Education	Fatma T , Ed. Zeenat Qidwai, in Environmental Education	Institute of Advanced Studies in Education, JMI, New Delhi pp 74-86	2002
8	Algae and Human Welfare	Fatma T	IGNOU, LSE-12 Plant Diversity-1 pp 77-91	2000
7	Studies on potential use of cyanobacterium <i>Westiellopsis</i> for bioremediation of copper,	Fatma T & Taneja L in Environmental Stress; Indication, Mitigation & Eco-Conservation Ed.. M.Yunus N.Singh, L.J.de Kok	Kulwer Academic Press, Netherlands, ISBN: 07923-6410-4 pp 385-390	2000
6	Significance of n-3 poly-unsaturated fatty acids and algal potential as its source	Fatma T & Sultan S Ed. Fatma T, in Cyanobacterial and Algal Metabolism and Environmental Biotechnology	Narosa Publishing House, ISBN : 81-7319-273-1 pp 49-60	1999
5	Cyanobacteria and heavy metal stress	Fatma T & Sultan S , Ed. Fatma T, in Cyanobacterial and Algal Metabolism and Environmental Biotechnology	Narosa Publishing House, ISBN : 81-7319-273-1 pp 150-157	1999
4	Studies on cyanobacterium <i>Anacystis nidulans</i> with respect to biochemical constituents and copper uptake	Taneja L & Fatma T , in Cyanobacterial Biotechnology, Ed. Subramanian G, Kaushik BD, Venkataraman GS,	Oxford & IBH Publishing Co. PVT. Ltd, ISBN 81-204-1269-9 pp 433-437	1996
3	Ecology, taxonomy and basiphyte preference studies on genus <i>Coleochaete</i> with a review on its evolutionary tendencies,	Fatma T , in Recent Advances in Phycology, Ed.: Kashyap,AK and Kumar HD,	Rastogi and Company, Meerut ISBN 81-85711-05-4 pp 233-247	1994
2	Bioproducts from microalga <i>Dunaliella</i>	L V Venkataraman and T Fatma, in Microbiology Today, Volume 1,	The Society of Microbiologists of Delhi, New Delhi, 138-150,	1990
1	Periodicity , distribution and basiphyte preference of epiphytic chaetophorales	Fatma T , Perspectives in Phycology, Prof.	Centenary Celebration Volume	1990

in three fresh water ponds of Lucknow, India	MOP Iyengar, Ed. Raja Rao, VN	121-125	
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Ph.D Thesis Supervised :

S.No.	Candidate	Topic	Year
38.	Durdana Yasin	Determination of anticancer efficacy of cyanobacterial extract	2020
37.	Nazia Ahmad	Role of phytochrome (IAA) in pesticide stress resistance in cyanobacterial biofertilizer	2018
36.	Tabinda Shakeel	Screening of cyanobacterial strains for production of biofuels candidates and genetic characterization of its metabolic pathway	2018
35.	Shaheen Husain	Biosynthesis, screening, optimization and characterization of nanoparticles (gold & silver) using cyanobacteria	2018
34.	Sabbir Ansari	Screening, characterization and optimization of polyhydroxybutyrate (PHB) from cyanobacteria	2017
33.	Sumbul Afreen	Detection and characterization of laccase from cyanobacteria	2017
32.	N. Manikar	Interaction of malathion pesticide with osmolytes and free radicals in <i>Anabaena variabilis</i>	2013
31.	Fareha Bano	Effect of environmental pollution on β -carotene and astaxanthin pigment of cyanobacteria	2013
30.	Naveen Bharat	Screening of cyanobacteria for antimicrobial activity	2013
29.	K. Mahender	Studies on angiogenic and anti-angiogenic potential of algal isolates	2012
28.	Razique Anwer	Investigation of insulin like protein from <i>Spirulina</i>	2012
27.	Saima Khursheed	Isolation and characterization of Insulin like antigens from cyanobacteria	2012
26.	Khalid Habib	Toxicological impact of carbamate pesticide on cyanobacterial biofertilizer	2012
25.	Talat Parween	Effect of agrochemical pollution on growth, structure and some physiochemical aspects of <i>Vigna radiate</i>	2011
24.	Saman Musheer	Screening and optimization of mycosporine like amino acids and scytonemin (sunscreen pigments) in Cyanobacteria	2011
23.	Gunjan Pandey	Spectroscopic characterization of phycobiliprotein-lectin interaction	2011

22.	Fatma Zahra	Effect of organophosphate pesticide on the paddy field biofertilizer	2009
21.	Zerka Rashid	Regeneration and transformation studies in Indian maize (<i>Zea Mays</i> L.)	2009
20.	Hemlata	Exploitation of cyanobacteria for phycobiliprotein	2009
19.	Rajnee	Molecular characterization of <i>Bacillus anthracis</i>	2008
18.	Sunaina Zutshi	Heavy metal stress induced enzymes in cyanobacteria	2008
17.	Satyendra Kumar	Chlorinated pesticides stress responses in cyanobacteria	2008
16.	Abash Khan	Studies on Proline in cyanobacteria under environmental stresses	2007
15.	Madhvi Rao	Effects of antibiotics and cyanobacterial extracts on <i>Mycobacterim tuberculosis</i> and <i>Mycobacterium avium</i> sp.	2006
14.	Meenakshi Choudhary	Biochemical studies of cyanobacteria with respect to environmental stresses	2006
13.	Tanveera Tabassum	Study on biodiversity of floodplain wetlands of river Yamuna in Delhi stretch	2006
12.	Pragya Chawla	Generation and phenotypic characterization of vancomycin resistant <i>Staphylococcus aureus</i>	2005
11.	Tarun Mathur	Effect of antibiotics and cyanobacterial extracts on biofilms of <i>Staphylococcus</i> sp.	2008
10.	Sunita	In vivo efficacy determinants and interaction with cyanobacterial extracts	2004
9.	Safdar Jawed	Screening, isolation and identification of marine bacteria for agarase activity and characterization of agarase from a selected strain	2001
8.	Sudhir Kumar Pandey	Toxicological studies on <i>Nitella</i> Sp. with reference to cytoplasmic streaming	2000
7.	Sabeena Sultan	Studies of environmental stress on fatty acids and β -carotene of selected cyanobacterial strains	1999
6.	Satish Sharma	Studies on virulence factors and virulence associated plasmids of <i>Kliebsella pneumoniae</i>	1999
5.	N.K. Jain	In-vitro activity of ofloxacin alone and in combination with other antituberculosis drugs against <i>Mycobacterium tuberculosis</i>	1997
4.	Babu Ramesh	Characterization of an abundant human skin melanosomal 66 KDa protein	1996
3.	Inshad Ali Khan	Molecular fingerprinting of <i>Salmonella typhi</i>	1996
2.	Neelam Prabha Chauhan	Stress induced changes in photosynthetic apparatus	1994

1.	Brajvir Singh	Studies on the biology of alkaliphilic cyanobacteria	1992
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