

CURRICULUM VITAE



Professor (Dr.) Tanuja, Ph.D.

***Professor (Biological Science), Center for Interdisciplinary Research in Basic Sciences. & Director, CSSI
Chairperson ICC***

Google Scholar id: Tanuja Singh

GROUP LEADER- BIOLOGICAL RESEARCH AND NOVEL DRUG DEVELOPMENT (BRANDD) LAB

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S. Ramanujan Block, Center for Interdisciplinary Research in Basic Sciences, Jamia

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	E-mail	tanuja@jmi.ac.in ; tanujapatnabotany@gmail.com												
B	Research Interests	<ul style="list-style-type: none"> • Herbal Drug Development & Nanotherapeutics • Microbiology (AMR & Bioremediation) • Environmental Toxicology • Cancer Biology 												
C	<p>Citations: 620</p> <p>h-Index: 15</p> <p>I-10 index: 21</p>	<p>Cited by VIEW ALL</p> <table border="1"> <thead> <tr> <th></th> <th>All</th> <th>Since 2020</th> </tr> </thead> <tbody> <tr> <td>Citations</td> <td>620</td> <td>476</td> </tr> <tr> <td>h-index</td> <td>15</td> <td>14</td> </tr> <tr> <td>i10-index</td> <td>21</td> <td>19</td> </tr> </tbody> </table> <p>Public access VIEW ALL</p> <p>0 articles 3 articles</p>		All	Since 2020	Citations	620	476	h-index	15	14	i10-index	21	19
	All	Since 2020												
Citations	620	476												
h-index	15	14												
i10-index	21	19												
D	Personal Information													
	Date of Birth	20 February, 1966												
	Marital status	Married												
	Education													
	B. Sc. in Botany (Hons) (1987) from Miranda House, University of Delhi, New Delhi with First Class.													

E	M. Sc. in Botany (1989) from Centre of Advanced Studies in Botany, University of Delhi, New Delhi with First Class.	
	Ph.D. (1996) from Magadh University, 1996	
	UGC (SLET) Lectureship Eligibility Exam, 1996	
F	Details of Employment	
	2023-till date	Professor (Direct), Jamia Millia Islamia, New Delhi, India
	2018-2023	Associate Professor, Patliputra University, Patna
	2015-2018	Associate Professor, T.P.S College, Patliputra University, Patna
	2003- 2015	Assistant Professor, B.M.D College, BRA Bihar University, Muzaffarpur
	1992-2003 1998-2002	Guest Faculty: Patna Women's College, Patna University PG Department of Biotechnology, Patna Science College, Patna University PG Department of Biochemistry, Patna Science College, Patna University
Teaching experience & Research Experience	31 Years.	
Fellow of Academies		
1) Fellow of The International Society of Biotechnologist (Indore)		
2) Fellow Membership of The Academy of Environmental Biology (Prayagraj)		
3) Fellow Membership of The Society of Life –Sciences (Madhya Pradesh)		
Life Membership		
<ul style="list-style-type: none"> • Life Member of The Indian Botanical Society • Life Member of The Association of Microbiologists of India • Life Member of The National Environmentalists Association (N.E.A) • Life Member of The Indian Society for the Study of Reproduction and Fertility • Life Member of The Indian Science Congress • Life Member of The International Consortium of Contemporary Biologists • Life member of The Recent Life Science Mirror • Life Member of The Society for Bioinformatics and Biological Sciences • Life Member of The Academy of Environmental Biology 		

RESEARCH GUIDANCE

- Post Doctoral Supervision: 2
- Supervision of awarded Doctoral Thesis-12
- Supervision of Doctoral Thesis under progress – 7
- Co-Supervision of Doctoral Thesis under progress-2
- M.Sc Dissertation:12

BOOKS / MONOGRAPHS (Authored / Edited) -

- Fermentation Technology – Tanuja Singh and S.S. Purohit
ISBN: 81-7754- 352-Agrobios (india),Jodhpur,Rajasthan,2008
- A Handbook of Aromatic Plants: Cultivation, Chemistry, Processing and
Uses- S.Bedi, Tanuja and Vyas
ISBN: 81-7754-341-5,200 Agrobios (india), Jodhpur, Rajasthan.
- Biofertilizer Technology – Tanuja Singh and S.S. Purohit
ISBN:81- 7754-382- 2Agrobios(india),Jodhpur,Rajasthan,2008
- Course/Study Material – General Studies (B.A/B.Sc),Paper –V For Nalanda
Open University Bihar, ,Year – 2007
- Adhunik Sukshmajeev Vigyan(in Hindi) – S.S. Purohit and Tanuja ISBN:
81-7754- 359-8 Agrobios(india),Jodhpur,Rajasthan,2008
- Course /Study Material - M. Sc. in Environmental Science
Paper- VIII and Paper-IV, Published for Nalanda Open University,Bihar
,Units 3.1 to 3.6 and Units 18-22 Year – 2010
- Soil Microbiology- Tanuja Singh ,S.S Purohit and Pradeep Parihar, ISBN:
81-7754- 390-3 Agrobios(india),Jodhpur,Rajasthan,2010

- Microbial Ecology-Tanuja Singh , S.S Purohit;
ISBN: -978-81-7754-479-4 Agrobios (India),Jodhpur, Rajasthan,2012
- Hazards of Xenobiotics and Biotoxins, Tanuja, Anjali Singh and Krishna Gopal, ISBN: 978-93-89875-07-2, APH Publishing corporation, Ansari Road, Daryaganj, New Delhi, 2020.
- Women in Science: Oppurtunities and Challenges;Volume I, Maninder Kaur, Tanuja Singh &Ekta Menghani, ISBN Agrobios (India),Jodhpur, Rajasthan,2023.
- Women in Science:Oppurtunities and Challenges; Volume II, Tanuja Singh , Maninder Kaur &Ekta Menghani, ISBN Agrobios (India),Jodhpur, Rajasthan,2023

Projects

UGC funded

- 1.Principal Investigator, U.G.C. sponsored Research Project “Application of appropriate technology for thermohpilic microbial conversion of banana leaves and pseudostems”. .2004 – 2006 .
- 2.Principal Investigator U.G.C. sponsored Research Project“ Potential of utilizing fermented banana broth for alcohol production.” Duration 2006-2008.
- 3.Principal Investigator U.G.C. sponsored Research Project“Assessment of hepatoprotective effect of selected herbal extracts and evaluation of hepatotoxic effect of ecotoxicants endosulfan and dioxin Duration – 2009-2012

ICMR funded (Major)-2

- 4.Co –Principal Investigator, ICMR, Govt. Of India, New Delhi, sponsored major Project on”MolecularProfiling of Reproductive Disorder in Endosulfan and Arsenic induced mice and their Detoxification by Microorganisms with Probiotic Potential”,Duration:2015-2018
- 5.Principal Investigator ,Indian Council of Medical Research, Govt. of India funded project on “Reproductive toxicity study of Di(2-ethylhexyl) phthalate (plasticizer) in

animal Model and its correlation with infertility and reproductive disorder among common population in selected areas of Bihar". Duration: 2021-2023,

DST funded (Major as mentor)-3

6.As Mentor (Women Scientist A scheme, DST,Govt. of India)Investigator:Dr Pinky Prasad "Phylogenetic analysis and molecular characterization of Streptomycesstrains capable of bioethanol production". Duration:2012- 2015

7 As Mentor (Women Scientist A scheme, DST,Govt. of India) Investigator:Dr Anjali Singh "Effect of Di (2-ethylhexy 1) phthalate on estrus cyclicity, oxidativestress, genotoxicity and carcinogenicity in female mice". Duration:2013-2016

8.As Mentor (Women Scientist A scheme, DST,Govt. of India)Investigator:Dr Anjali Singh,Project on "Genotoxic effect of Di(2-ethylhexyl 1) phthalate on reproductive organ in mice model and its degradation by microorganisms".Duration:2017-2020

9.Principal Investigator ,Department of Science and Technology, Govt. of India funded project on "Assessment of Govt. of India's gender mainstreaming programme for women in science",Duration:2018-2021.

Publication (Selected)

	Publication details (Last Five Years)	Impact factor of journal
1	Mohammad Sameer Khan , B.H. Jaswanth Gowda , Nazeer Hasan , Garima Gupta , Tanuja Singh , Shadab Md , Prashant Kesharwani, Carbon nanotube-mediated platinum-based drug delivery for the treatment of cancer: Advancements and future perspectives, European Polymer Journal, 206 (2024) 112800.	6.28
2	Almalki, Ashok Kumar Mandal, Abdurrahman Alhamyani, Obaid Afzal, Abdulmalik Saleh Alfawaz Altamimi, Nabil K Alruwaili, Pradip Kumar Yadav, Md Abul Barkat, Tanuja Singh & Mahfoozur Rahman,Ankit Sahoo, Khusbu Dwivedi, Waleed H, Secondary metabolites in topical infectious diseases and nanomedicine applications, Journal of Drug Delivery Science and Technology. 19(30), (2024)2555–2576	6.5
3	Mahfoozur Rahman , Obaid Afzal , Shehla Nasar Mir Najib Ullah , Mohammad Y. Alshahrani , Ali G. Alkhathami , Ankit Sahoo , Abdulmalik Saleh Alfawaz Altamimi , Waleed H. Almalki , Salem Salman Almuji , Alhamyani abdulrahman , Aryam Riyadh Abdullah Alotaibi , Manal A. Alossaimi , Tanuja Singh , Sarwar	6.3

	Beg , Nanocarriers for delivering nucleic acids and chemotherapeutic agents as combinational approach: Challenges, clinical progress, and unmet needs, Journal of Drug Delivery Science and Technology, Volume 92, 2024, 105326	
4	Mohammad Sameer Khan , B.H. Jaswanth Gowda , WaleedH. Almalki , Tanuja Singh , Amirhossein Sahebkar , Prashant Kesharwani , Unravelling the potential of mitochondria-targeted liposomes for enhanced cancer treatment , Drug Discovery Today, Volume 29, Issue 1, 2024, 103819	8.36
5	Safar M Alqahtani, Ali Altharawi, Majed Alrobaian, Waleed H Almalki, Alhumaidi B Alabbas, Shehla Nasar Mir Najib Ullah, Tanuja Singh , Kamal Younus Thajudeen, Gyas Khan, Rehan A Rub, Md Abul Barkat, Sarwar Beg, Mahfoozur Rahman, UPLC–MS/MS Method Development for Simultaneous Estimation of Diclofenac and Resveratrol-Loaded LiposomalGel Formulation in Mice Skin Model: Application to Dermatokinetic Study, Journal of Chromatographic Science, 2023, 1–10	1.61
6	Yassine Riadi , Obaid Afzal , Mohammed H. Geesi , Waleed H. Almalki and Tanuja Singh , Baicalin-Loaded Lipid–Polymer Hybrid Nanoparticles Inhibiting the Proliferation of Human Colon Cancer: Pharmacokinetics and In Vivo Evaluation,Journal Polymers 2023, 15(3), 598	4.9
7	Abul Barkat, Mahfoozur Rahman,Khalid S. Alharbi, Waleed M. Altowayan,Majed Alrobaian,Obaid Afzal,Abdulmalik Saleh Alfawaz Altamimi,Fahad Saad Alhodieb, Waleed H. Almalki, Hani Choudhry, Tanuja Singh ,Sarwar Beg, Biocompatible Polymeric Nanoparticles for Effective Codelivery of Tamoxifen with Ganoderic Acid A: Systematic Approach for Improved Breast Cancer Therapeutics Vol.:(0123456789)1 3Journal of Cluster Science (2023) 34:1483–1497	3.4
8	Mohammad Javed Ansari, Mahfoozur Rahman,* Khalid S. Alharbi, Waleed M. Altowayan, Ahmed Mahmoud Abdelhaleem Ali, Waleed H. Almalki, Md. Abul Barkat, Tanuja Singh , Shehla Nasar, Md Habban Akhter, Sarwar Beg,* and Hani Choudhry, Hispolon-Loaded Liquid Crystalline Nanoparticles: Development, Stability, In Vitro Delivery Profile, and Assessment of Hepatoprotective Activity in Hepatocellular Carcinoma, ACS Omega 2022 7 (11), 9452-9464	3.5
9	Li S, Xu Z, Alrobaian M, Afzal O, Kazmi I, Almalki WH, Altamimi ASA, Al-Abbasi FA, Alharbi KS, Altowayan WM, Singh T, Akhter MH, Gupta M, Rahman M, Beg S. EGF-functionalized lipid-polymer hybrid nanoparticles of 5-fluorouracil and sulforaphane with enhanced bioavailability and anticancer activity against colon carcinoma. Biotechnol Appl Biochem. 2022 ;69(5):2205-2221	2.43
10	Sonal Suman and Tanuja , Isolation and Characterization of a Bacterial Strain Enterobacter cloacae (Accession No. KX438060.1) Capable of Degrading DDTs Under Aerobic Conditions and Its Use in Bioremediation of Contaminated Soil,	0.5

	Microbiology Insights, Vol14: Pp 1-7, 2021	
11	Chen L, Alrobaian M, Afzal O, Kazmi I, Panda SK, Alfawaz Altamimi AS, Al-Abbasi FA, Almalki WH, Katouah HA, Singh T , Soni K, Hafeez A, Beg S, Kumar V, Rahman M. Crotamiton-loaded tea tree oil containing phospholipid-based microemulsion hydrogel for scabies treatment: in vitro, in vivo evaluation, and dermatokinetic studies. <i>Drug Deliv.</i> 2021 ;28(1):1972-1981	6.0
12	Md Waris * , Naiyer Shahzad , Hasib Anjum , Saeed Saeed Al-Ghamdi , Showkat Rasool Mir , Tanuja Singh , Withania coagulans extract loaded nano- formulation ameliorates streptozotocin-induced diabetes and associated renal stress and inflammation, <i>Journal of Drug Delivery Science and Technology, Vol 63,2021` 102514</i>	6.3
13	Md.WarisNaiyerShahzad,Saeed Al-Ghamdi4 , Showkat Rasool Mir, TanujaSingh , Evaluation of the Antidiabetic Potential of an Isolated Hydro-Alcoholic Fraction from the Fruit of Withania coagulans, <i>Journal of Pharmacy and Bioallied Sciences</i> ,2021;13(4):367-372	
14	Rahman M, Almalki WH, Alrobaian M, Iqbal J, Alghamdi S, Alharbi KS, Alruwaili NK, Hafeez A, Shaharyar A, Singh T , Waris M, Kumar V, Beg S. Nanocarriers-loaded with natural actives as newer therapeutic interventions for treatment of hepatocellular carcinoma. <i>Expert Opin Drug Deliv.</i> 2021 ;18(4):489-513.	5.27
15	Abdulsalam Alhalmi , Sarwar Beg , Kanchan Kohli , Md. Waris and Tanuja Singh , Nanotechnology Based Approach for Hepatocellular Carcinoma Targeting, <i>Current Drug Targets</i> , 2021, 22, 1-14	3.25
16	Wang L, Wang X, Shen L, Alrobaian M, Panda SK, Almasmoum HA, Ghaith MM, Almaimani RA, Ibrahim IAA, Singh T , Baothman AA, Choudhry H, Beg S. Paclitaxel and naringenin-loaded solid lipid nanoparticles surface modified with cyclic peptides with improved tumor targeting ability in glioblastoma multiforme. <i>Biomed Pharmacother.</i> 2021 Jun;138:111461. doi: 10.1016/j.biopha.2021.111461. Epub 2021 Mar 9. PMID: 33706131.	6.5
17	Sarwar Beg , Imran Kazmi , Obaid Afzal , Abdulmalik Saleh Alfawaz Altamimi , Fahad A. Al-Abbasi , Waleed H. Almalki , Saad Alghamdi , Majed Alrobaian , Khalid S. Alharbi , Mohammed S. Alshammari , Sunil K Panda , Ibrahim Abdel Aziz Ibrahim , Tanuja Singh , Mahfoozur Rahman , Implications of phospholipid-based nanomixed micelles of olmesartan medoxomil with enhanced lymphatic drug targeting ability and systemic bioavailability, <i>Journal of Drug Delivery Science and Technology</i> ,2020, 62 (1)	5.0
18	Nassir AM, Ibrahim IAA, Md S, Waris M, Tanuja , Ain MR, Ahmad I, Shahzad N. Surface functionalized folate targeted oleuropein nano-liposomes for prostate tumor targeting: Invitro and invivo activity. <i>Life Sci.</i> 2019 ;220:136-146.	6.7

19	Gaurav I, Singh T , Thakur A, Kumar G, Rathee P, Kumari P, Sweta K. Synthesis, <i>In-Vitro</i> and <i>In-Silico</i> Evaluation of Silver Nanoparticles with Root Extract of <i>Withania somnifera</i> for Antibacterial Activity <i>via</i> Binding of Penicillin-Binding Protein-4. <i>Curr Pharm Biotechnol.</i> 2020;21(15):1674-1687.	3.1
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ACADEMIC MANAGEMENT WORK

- Nodal Officer She- Box portal 2.0 of Department of Higher Education, 26-11-2024 till date.
- Nominated Board of Studies (BoS) of the Department of Civil Engineering, Faculty of Engineering, Jamia Millia Islamia, 12/12/2024 till date.
- Board of Management of Center for Culture Media and Governance 26-04-2024 till date
- Nominated committee member to examine counting of past services of University teachers, Jamia Millia Islamia, 06-12-2024 till date.
- Member Academic Council, Jamia Millia Islamia, New Delhi, November 2023 till date
- Nominated Member of the Core Committee in Science to improve the course content and promote research, constituted by Hon^{ble} Chancellor & Governor of Bihar, Bihar, 2007.
- Nominated Member of the Committee to upgrade laboratories of colleges in Science faculty in universities of Bihar, by the Hon^{ble} Chancellor, & Governor of Bihar, 2018
- Member, Post Graduate Research Council, Patliputra University, Patna & Department Research Council, Dept. of Botany, Patliputra University, Patna, 2018 till June 2023 .
- Syndicate member, Patliputra University, Patna, 2018-to 2020
- Senate member, Patliputra University, Patna, 2018-to 2020
- Member IQAC of Patliputra University, Patna, Bihar, 2019 to 2020.
- Nodal Officer, PPU, Patna, B.Ed Post App of RajBhavan , Bihar
- Nodal Officer for Digital Initiatives in the University April, 2019 till June 2023
- Member Board of Studies, Botany, Patliputra University, Patna, 2018 to 2023.
- Member Syllabus Committee, Environmental Studies, Nalanda Open University, 2018 till date
- Member, Board of Studies, Microbiology, Patna Women's College, PU, Patna, 2020- till date
- Inter-university festival Tarang, College Representative, B.M.D College, Dayalpur, (a constituent unit of B.R Ambedkar Bihar University, Muzaffarpur, Bihar).
- Convenor and organizer of Sensitization programme for Women Scientists (WOS - A Scheme of DST , Govt. of India, New Delhi), Dec 2011, at B.M.D College, Dayalpur, BRABU
- Coordinator ,Department of Biotechnology, T.P.S College, Patna (Patliputra University), Patna, Bihar- September 2017 to date
- Member of the Evaluating Committee, of Basic Scientific Research Scheme presentation of UG Students at Patna Womens^{ce} College, PU, Patna, 2014 till 2023.
- Member of the Team for Up-gradation of Botany dictionary and glossary (English to Hindi) from 14th September to 18th September, 2015, Organized by The Commission for Scientific and Technical Terminology, Ministry of Human Resource Development, Department of Higher Education New Delhi.
- Member of the Team for Upgradation of Botany dictionary and glossary (English to Hindi by The Commission for Scientific and Technical Terminology, Ministry of Human Resource Development, Department of Higher Education, New Delhi.
- Member ANTPC (Affiliation and New Teaching Programme Committee), Patliputra University 2018 to 2020
- Member ,Purchase Committee, Patliputra University 2018-2020
- Member Secretary, Committee for Ordinance and Regulation of Vocational Courses,, Patliputra
- Member ,Seniority and Pay fixation Committee, Patliputra University, 2018-2019.
- Member , Admission Committee, Patliputra University, 2018-2020

- Vice-Chairman (Honorary), Shriyam Human Resource Trust, Patna

AWARDS/ SPECIAL ATTAINMENTS/ ACADEMIC DISTINCTIONS/ HONOURS.

- Chancellor's Award for "The Best Teacher" 2019-2020 conferred by His Excellency, the Governor of Bihar, Rajbhavan, Patna.
- Education Excellence Award, conferred by the Educational Development Council at the International Conference on "Emerging Skill and Technology for Teaching and Learning" at Mahabodhi Mahavidyalaya, Nalanda, 27th November, 2022.
- Awarded Dr. Ambedkar Distinguished service award by Dalit Sahitya Academy, 2021, New Delhi.
- Fellow Award for outstanding contribution in field of Microbiology, Environmental Biology on the occasion of International conference on Innovative & Current Advances in Agriculture & Allied Sciences, Meerut, 19th -21st July, 2021.
- Recognition Award and Gold medal in 2018, at Deen Dayal Upadhaya University, Gorakhpur, by Society of Life Sciences, Madhya Pradesh.
- Fellow of Education in Societal Mission Award (FESM), conferred by The Academy of Environmental Biology, Lucknow, 2020.
- Awarded Dr. APJ Abdul Kalam Green Award by Blue Planet Society, Prayagraj, Botanical Survey of India, CRC, Prayagraj, India, 2019
- Woman Scientist Award of the Society for Bioinformatics and Biological Sciences, 2018
- The Appreciation Honour, 2015 for Visionary and Creative Researcher, Environmental Activist and Human Resource Development Activities. Conferred by The Bihar State Productivity Council Patna (State level arm of National Productivity Council, Govt. of India.) on 10th September, 2015.
- Senior scientist award- 2013 under Prof. K.S Bilgrami Memorial Chair, awarded by the Academic Council of International Consortium of Contemporary Biologists & Madhavi-Shyam Educational Trust, Ranchi, Jharkhand, India.
- Young Scientist Award-2011, under Prof. Jwala Prasad Memorial Chair, awarded by
- International Consortium of Contemporary Biologists & Madhavi-Shyam Educational Trust, Ranchi, Jharkhand, India.