Curriculum Vitae

Dr. Tarun Kumar Upadhyay
Assistant Professor (Biotechnology)
School of Applied Sciences and Agriculture Research (Jointly working),
Suresh Gyan Vihar University (NAAC 'A' Grade), Mahal road, Jagatpura, Jaipur-302017
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Career Objective

Intend to build a career with leading corporate in analytical, Pharma and biosciences, which makes to explore my full potential of natural polymeric microparticulate formulation-based drug delivery to serve the organization involves in the formulation development, drug targeting or R&D activity with dedication and perseverance. Achieve a professional excellence in the field of infectious disease for targeted drug delivery studies by joining with a motivated team that works towards the growth of the organization.

Educational Qualification

2018 Ph.D. in Biotechnology from Department of Biosciences, Integral University, Lucknow, Uttar Pradesh, India (Thesis work at Pharmaceutics Division, CSIR-CDRI, Lucknow).
2012 M.Sc. (Biotechnology)* first division with Hons.
Integral University, Lucknow, India
2010 B.Sc. (Biotechnology)* first division with Hons.
Integral University, Lucknow, India
2007 Post Graduate Diploma in Bioinformatics* with first division,
NIELIT, (Jadavpur University, Campus), Kolkata, Govt. of India
2006 Diploma in Bioinformatics with first division from
NIELIT, (Jadavpur University Campus), Kolkata, Govt. of India
2005 Intermediate with first division from J.N.V Gonda, C.B.S.E Board, India
2003 High school with first division from J.N.V Gonda, C.B.S.E. Board, India

Project experiences

*As a part of M.Sc. dissertation (Biotechnology) undertook training on the project "Biosynthesis of Gold Nanoparticles and their Bioconjugation with Anticancerous drugs for their characterization using Column Chromatography and HPLC Methods" at Biotechnology Dept., Integral University, Lucknow from Jan 1, 2011 – March 31, 2011 (3 months).

* As part of B.Sc dissertation (Biotechnology) undertook 3 months training on the project "Sequence analysis program by using PERL & WINDOW XP programming." at Biotechnology Dept., Integral University, Lucknow from Jan 1, 2010 – March 31, 2010 (3 months).

*As part of PG Diploma in Bioinformatics undertook 3 months training on the project "*In silico* Secondary Structure Prediction of N-1 Neuraminidase in H5N1 Influenza: A Virus through Homology Modeling at Bioinformatics Dept. NIELIT-Gorakhpur, Govt. of India from May-July 2007 (3 months).

Appointments/Experience

- **June 2012 – Nov. 2012 (6 months industrial experience)**
  Quality Control Chemist, Patanjali Ayurved Ltd, Haridwar, India.
  Worked as a Quality Control Chemist in the QC Department for carrying out herbal drugs formulation and their testing for studies of new bioactive molecules (natural and semi-synthetic) and traditional preparation.

R&D experiences

- **Nov. 2012 - Nov. 2014 (02 years)**
  Research Assistant (UPCST Govt. Sponsored Project)
- **Nov. 2014-Nov. 2015 (01 years)**
  Senior Research Assistant (UPCST Govt. Sponsored Project)

Title of the Govt. Funded Project: (03 Year)

"Biochemical and Cellular Responses within Macrophages Following Administration of β-Glucan Particles containing Anti-TB Drugs". Funded by Uttar Pradesh Council of Science and Technology, Govt. of U.P at Department of Biosciences, Integral University, Lucknow In collaboration with CSIR-CDRI, Lucknow-India.

Oct. 2013- July. 2017 (Ph.D. Scholar)

The Title of Ph.D. Thesis: **Investigations on yeast cell wall derived β-glucan microparticles containing Anti-TB drugs for the treatment of Tuberculosis**.

Supervisor: Dr. Rolee Sharma, Associate Professor, Department of Biosciences, Integral University, Lucknow and carried thesis work in collaboration with Pharmaceutics Division (Dr. Amit Misra, Sr. Principal Scientist & Head) CSIR-CDRI, Lucknow.

Teaching experiences

Dec. 2015- April 2017 (1 years, 4 months, 25 days)

Visiting Faculty, Koshika Life Science Academy, Lucknow. Teaches Cell Biology, Immunology, Enzymology, and Biochemistry for CSIR-NET/GATE

1st August 2017 - 7th July 2018 (1 year)

Assistant Professor, Faculty of Life sciences, Department of Biotechnology & Microbiology, IAMR Groups of Institutions, Ghaziabad (**Affiliated to CCS University, Meerut**), besides teaching, I was also worked as Training & Placement In-charge of the Biotechnology &

Microbiology Department for the better placements of students and arrangement of industrial visits to explore exposure to work culture and current technologies.

Teaching Experience at B.Sc (UG) Level: Recent trends in Biotechnology, Nanotechnology, Genomics and Proteomics & Molecular biology.
Teaching Experience at M.Sc (PG) Level: Genomics & Proteomics, Bioinformatics, Cytogenetics and Molecular Genetics, Cell biology and immunology.
M.Tech Biotechnology: Tools and Techniques in Biotechnology, Lab Module in Bioinformatics, Animal cell culture techniques.
Students Guided for dissertation work: 02 (M.Tech Biotechnology and Biochemical Engineering).

Current Experiences
9th July 2018 – till date

- **Assistant Professor**, School of Applied Sciences and Agriculture Research, Suresh Gyan Vihar University (Accredited with NAAC 'A' Grade), Mahal road, Jagatpura, Jaipur-302025.
- **Teaching B.Sc/M.Sc students:** Animal Biotechnology, Bioinstrumentation, Cell Biology, Biotechnology, Agriculture Informatics, Bioinformatics, Plant Biotechnology and Plant Physiology.
- Designing of Laboratory protocols, paper setting at UG/PG level and continuous evaluation.
- Personal tutor and mentor for guiding students
- **Presently guiding one Ph.D. student** as a **Co-supervisor** with thesis entitled **"**Detection of Bacteria Associated with Turning of Compost during White Button Mushroom **(*Agaricus bisporus* Lange) Production"**

- **Member of Research Advisory Committee (RAC)**, School of Applied Sciences, Department of Biosciences, Suresh Gyan Vihar University, Jaipur and subject expert of Biotechnology to evaluate Ph.D. students synopsis/thesis.
- **Member of Research Advisory Committee (RAC),** School of Agriculture and Research to evaluate M.Sc student's thesis before final submission.

Govt. R& D Project

1. Submitted Major R&D Project as a Principal Investigator entitled "***Elucidation of Chemopreventive potential of bioactive compounds from Gmelina arborea var. canescens***" at DST-Rajasthan [Duration: 2 year, Cost: 12.48 Lacs]

2. Submitted Major R&D Project as a Co-Principal Investigator entitled "***Investigations on screening of Anticancerous bioactive compounds from Iris kashmiriana Baker and their chemopreventive potential against cancerous cells***" at DST Supra Project [Duration: 3 year, Cost: 34.34 Lacs]

3. Submitted **ERASMUS+ Agri. (European commission)** Project as a Co-Principal Investigator [Duration: 3 year, Cost: 65 Lacs] project approved but not sanctioned yet

Extra Achievements

- Received Global outreach award 2020 with Young Scientist in Biotechnology at 5th Global Outreach Conference on "Modern approaches in Smart Agriculture", Organized by Shobhit University, Meerut (28-29 Feb. 2020)

- Qualified Common State level eligibility test for Ph.D. in Life Science in 2012 Organized by Dr. RML Avadh University, Faizabad (U.P), India
- Second prize winner of Bio info Quiz competition during B.Sc Biotechnology, at Integral University, Lucknow in 2010
- Student Secretary in Fiesta Programme during B.Sc Biotechnology, at Integral University, Lucknow in 2010
- Coordinator of Fiesta 2017, Integral University Alumni Association member meet
- Coordinated National Agriculture fest (Agri-Expo 2019 and Agri-expo 2020), School of Agriculture and Research, Suresh Gyan Vihar University, Jaipur and received Certificate of Excellence.

Membership/Editorial board member/Reviewer of Scientific Bodies

- Member of Indian Society of Cell Biology (ISCB)
- Member of International Society for Infectious Diseases
- Reviewer of the Asian Journal of Medical Sciences
- Editorial board member of African Journal of Biological sciences https://www.afjbs.com/editorial-board
- Editorial member of International Journal of Techno-Scientific Research & Engineering (IJTSRE) http://cpjournals.com/editorial/
- Reviewer in International Journal of Research and Analytical Reviews (IJRAR) http://ijrar.com/committee_board.php
- Editorial board member of Acta Scientific Biotechnology https://www.actascientific.com/editorial_popup-asbt.php?editor_id=3280
- **Member** of International Natural Product Sciences Taskforce (INPST) http://inpst.net
- National Editorial Advisory Board member of Bio-Science Research Bulletin (Life sciences)-BPAS publications http://www.bpasjournals.com/life-sciences/editorial-board.html
- **Life membership** of Society for Biotechnologist (India).
- **Life membership** of Society for Immunology & Immunopathology
- **Brand Ambassador** of Bentham science publishers to promote publication of quality research.
- **Reviewer** of the Journal of Pure and Applied Microbiology https://microbiologyjournal.org/
- **Invited Reviewed of** manuscript titled "Zataria Multiflora Essential oil based nanoemulsion to improve the quality of Button Mushroom coated with Aloe Vera and Gelatin" of Journal of Food Quality (Hindawi publication).

Awards/Honours at international conferences

- Best Biotechnologist Award-2020
- Young Scientist Award in Biotechnology-2020
- Successfully completed 7 weeks an online non-credit course “Discover Best Practice Farming for a Sustainable 2050” with 96.8% authorized by **University of Western Australia** and offered through Coursera.
- Successfully completed 4 weeks course “DNA Decoded” an online non-credit course authorized by **McMaster University** and offered through Coursera

Computer Skills

Operating System	:	Windows NT /2000/ XP/2007
S/W Packages	:	MS – Office, Excel, and DBMS
Programming Skills	:	C, JAVA, and PERL
Statistical software	:	Prism, Instant, Graph Pad 5.0, SPSS
Image viewer	:	Photoshop, Irfan view, ImageJ
Software	:	ERP & LMS (Moodles) University attendance and evaluation system

Bioinformatics Skill

Protein and Nucleotide database, Sequence analysis, Homology Modeling, Molecular Docking, Phylogenetic analysis, *In silico* toxicity prediction through ADMET analysis, *In silico primer &* drug designing.

List of Book chapters/published/Communicated **(Total 9)**

Tarun Upadhyay, Akanksha Sharma, Nida Fatima, Amit Singh, Pavan Muttil and Rolee Sharma. **Book Chapter 22:** Targeted delivery of Antibiotics using microparticles to combat multi-drug-resistant Tuberculosis. **Book title:** Antibacterial Drug Discovery to combat MDR: Natural compounds, Nanotechnology and Novel synthetic source. **Editors: Ahmad**, Iqbal, **Ahmad**, Shamim, **Rumbaugh**, Kendra P. (Eds.) Springer Singapore, 2019, 441-458, ISBN No. 978-981-13-9870-4

Tarun K. Upadhyay, Rakesh K. Prajapat, Ekhlaque A. Khan. **Book Chapter 10:** Revisiting Brassinosteroids signaling in plants: current advances and challenges, ELSEVIER, 2020 (accepted).

Tarun K. Upadhyay, Manas Mathur, Rakesh Kumar Prajapat, Sunil Kumar Nagar, Kulveer Singh, Fahad Khan, Pratibha Pandey, Mohammad Mustufa Khan. **Book title:** Medicinal plants: Bioprospecting and Pharmacognocy. **Book Chapter:** Ethanopharmacology and Phytochemistry of medicinal plant: A multipurpose tree *Prosopis cineraria* (Khejri), Taylor and Francis, 2020 (accepted). **Editors: Prof. Amit Baran Sharangi and Prof. K.V Peter.**

Manzar Alam, Azhar Kamal, **Tarun Upadhyay. Book entitled:** AROMATIC PLANTS The Technology, Human Welfare and Beyond". **Book Chapter:** Role and effects of Aromatic Plants: Status, Scenario, Scope and trends of aroma including its impact on human health, Nova Pub (USA), 2020 (Communicated). **Editors: Prof. Amit Baran Sharangi.**

Mohammad Irfan Ali, Wilda Onyancha, Manas Mathur, Rakesh Kr. Prajapat, Samad Moin, R. Bajia, Sushil Kumar Sharma, Gaurav Sharma, **Tarun Kumar Upadhyay*. Book entitled:** AROMATIC PLANTS: The Technology, Human Welfare and Beyond". **Book Chapter 13:** Status, scenario, scope and trends of Aromatic Medicinal Plants including its impact on human health**,** Nova Pub (USA), 2020 (Communicated). **Editors: Prof. Amit Baran Sharangi.**

Deepak Sharma, Arunabh Joshi, Manas Mathur, Rakesh Kumar Prajapat, **Tarun Upadhyay**. **Book entitled:** Recent Trends in Biotechnology. **Book Chapter:** Genome Editing for Crop Improvement, Taylor and Francis, 2020 (accepted).

Manas Mathur, Rakesh Kumar Prajapat, Deepak Sharma, **Tarun Upadhyay***. **Book entitled:** Recent Trends in Biotechnology **Book Chapter:** Recent Advancement in Nanotechnology in Agriculture, Taylor and Francis, 2020 (accepted).

Rakesh Kumar Prajapat, Manas Mathur, **Tarun Upadhyay**, Deepak Sharma. **Book entitled:** Recent Trends in Biotechnology. **Book Chapter:** Molecular Assisted Breeding for Crop Improvement**,** Taylor and Francis, 2020 (accepted).

Deepak Sharma, Arunabh Joshi, Manas Mathur, Rakesh Kumar Prajapat, **Tarun Upadhyay**. **Book entitled:** Recent Trends in Biotechnology. **Book Chapter:** Advances in Genomics and Proteomics in Agriculture, Taylor and Francis, 2020 (accepted).

List of published Books **(Total 3)**

Fahad Khan, Pratibha Pandey**, Tarun Upadhyay**. **Book title:** Cytochrome P450 enzymes in the metabolism of drugs and chemical carcinogens: A perspective on the toxicity and carcinogenesis. Lambert Academic Publishing, Germany, 2019, ISBN No. 978-620-0-22974-8

Rakesh Kumar Prajapat, **Tarun K. Upadhyay**. Introductory Genomics and Bioinformatics, Agrotech Publisher, Udaipur (Rajasthan), 2020 ISBN No. 978-81-940691-3-3.

Tarun K. Upadhyay, Sushil Kumar Sharma. Geoinformatics and Nanotechnology for Precision farming, New Delhi Publisher, New Delhi, 2020 ISBN No. 9789388879880.

List of Research Paper published/Communicated (Scopus/Web of science/Science citation indexed= 15, UGC and others = 4)

Tarun Upadhyay, Nida Fatima, Akanksha Sharma, Deepak Sharma, Rolee Sharma. Nano-Rifabutin entrapment within Glucan microparticles Enhances Protection against intracellular Mycobacterium tuberculosis. *Artificial cells, Nanomedicine and Biotechnology (Taylor and Francis),* 2019; 47(1), 427-435

Tarun Upadhyay, Nida Fatima, Deepak Sharma, V. Saravanakumar, Rolee Sharma. Preparation and Characterization of Beta-Glucan Particles Containing A Payload Of Nano-embedded Rifabutin for Enhanced Targeted Delivery to Macrophages. *EXCLI Journal* 2017; 16:210-228–ISSN 1611-2156.

Fahad Khan, Pratibha Pandey, Varish Ahmad, **Tarun K. Upadhyay**. *Moringa oleifera* methanolic leaves extract induces apoptosis and G0/G1 cell cycle arrest via downregulation of Hedgehog Signaling Pathway in human prostate PC-3 cancer cells. *J Food Biochem (Wiley).* 2020; 00:e13338.

Nida Fatima, **Tarun K. Upadhyay**, Akanksha Sharma, Md Arshad, Deepak Sharma, Mohammad Amjad Kamal, Rolee Sharma. Particulate β-glucan activates Early and Delayed Phagosomal Maturation and Autophagy within Macrophage in a NOX-2 dependent manner. *Life Sciences* (*ELSIEVER*), 2020, Ref.: Ms. No. LFS-D-20-05357R2 (Accepted)

Satish Kumar Sinha, **Tarun K. Upadhyay**, Sushil Kumar Sharma. Nutritional-Medicinal profile and quality categorization of fresh *A.bisporus* (White Button Mushroom). Biointerface Research in Applied chemistry (Romania), 11(2), 2021, 8669-8685

Raj Singh, Sushil Kumar Upadhyay, Manoj Singh, Indu Sharma, Pooja Sharma, Pooja Kamboj, Adesh Saini, Reena Voraha, Anil Kumar Sharma, **Tarun K. Upadhyay**, Fahad Khan. Chitin, Chitinases and Chitin Derivatives in Biopharmaceutical, Agricultural and Environmental Perspective. Biointerface Research in Applied chemistry (Romania), 11(3), 2021, 9985 - 10005

Fahad Khan, Pratibha Pandey, **Tarun Upadhyay**, Asif Jafri, Rashmi Mishra, Vineeta Singh**.** Anticancerous effect of rutin against HPV- C33A cervical cancer cells via G0/G1 cell cycle arrest and apoptotic induction. *Endocrine, Metabolic & Immune Disorders-Drug Targets,* 2019, 19.

Nida Fatima, **Tarun Upadhyay**, Deepak Sharma, Rolee Sharma. Particulate Beta-glucan Induces Early and Late Phagosomal Maturation in Murine Macrophages. *Frontiers in Bioscience*, Elite, 2017, (9), 129-140.

Akanksha Sharma, Mohammad Hayatul Islam, Nida Fatima, **Tarun Upadhyay**, Mohammad Kalim Ahamad Khan, Uperndra Nath Dwivedi, Rolee Sharma. Elucidation of Marine Fungi Derived Anthraquinones as Maba and PKS18 Targeted Inhibitors: A Novel Dual-Enzyme Directed Approach to Inhibit *Mycobacterium tuberculosis* Mycolic Acid Synthesis. *Molecular Biology Reports,* 2019, *46*(2), 1715-1725.

Afsha Parween, Mohammad Mustufa Khan, **Tarun Upadhyay**, Rajya Vardhan Tripathi. Prevalence of Elevated Blood Lead Level in Children of India. *Scientific Journal Nature Environment and Pollution Technology* (p-ISSN 0972-6268; e-ISSN 2395-3454). 2018, 17(3), 703-710.

Akanksha Sharma, Mohammad Hayatul Islam, Nida Fatima, **Tarun Upadhyay**, Mohd. Kalim Ahmad Khan, Upendra Nath Dwivedi, Rolee Sharma. Deciphering the Binding of Natural Terpenoids to *Mycobacterium tuberculosis* Type III Polyketide Synthase18 (PKS18): An *In-Silico* Approach. *Journal of Applied Pharmaceutical Science,* 2018, 8(5), 026-034.

Ashish Kumar Sharma, Ajit Kumar Swami, **Tarun K. Upadhyay**, Dinesh Jangir, Mukesh Saran, Ashima Bagaria, Deepak Sharma, Rakesh Kumar Prajapat and Manas Mathur. An Eco-friendly Green synthesis of Tungsten Nanoparticles from Moringa oleifera Lam. and its Pharmacological studies. Gazi Medical Journal, 2020 (ahead of print)

Shailee Jain, **Tarun Upadhyay**. Quorum Quenching Of Bacteria Causing Dental Caries Through Herbal Formulation. *Bio-Science Research Bulletin* (Life sciences) 2017, 33(2): 63-84.

Radhakrishnan G., **Tarun Kumar Upadhyay**, Pradyuman Singh, Sushil Kumar Sharma. Impact of Hydroponics: Present And Future Perspective for Farmer's Welfare. *Suresh Gyan Vihar University International Journal of Environment, Science and Technology,* 2019; 5 (2), 19-26

Satish Kumar Sinha, **Tarun Kumar Upadhyay**, Sushil Kumar Sharma. Heavy Metals Detection in White Button Mushroom (*Agaricus bisporus*) Cultivated in State of Maharashtra, India. *Biochemical and Cellular Archives, 2019, 19(2), 3501-3506.*

Rakesh Kumar Prajapat, Pawan Mainkar, Vinay K. Kalia, **Tarun Kumar Upadhyay**, Rekha Kansal. Ectopic Expression and Molecular Characterization of *Vigna aconitifolia* Lectin for Insecticidal Activity against *Lipaphis erysimi*: An *In silico* and *In vitro* approach. *The Indian Journal of Agriculture sciences*, 2020 (ahead of print).

Satish Kumar Sinha, **Tarun Kumar Upadhyay**, Sushil Kumar Sharma. A review: Bacterial diversity, physiochemical factors and quality of compost for White Button Mushroom Cultivation. *Bulletin of the University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Agriculture*, 77(2), 2020.

Varun Kumar VS, **Tarun K. Upadhyay**, Satish Kumar Sinha, Manas Mathur, Rakesh Kumar Prajapat, Ravindra Kumar, Sushil Kumar Sharma. Recent Nanotechnological Advancement in Sustainable Agriculture, *Acta Scientific Biotechnology*, 2020.

Satish Kumar Sinha, **Tarun K. Upadhyay**, Sushil Kumar Sharma. Nutritional Assessment of Compost by SMC Method for White Button Mushroom Cultivation in Maharashtra, India. *African Journal of Biological Sciences*, *2020, 2(2) 16-24*.

Training was undertaken / Attended program (National and International)

Attend One-day National Workshop on Antibiotic Resistant-Current Trends & Challenges, 10th Dec. 2016 Organized by Dr. B.Lal Institute of Biotechnology & Dr. B. Lal Clinical Laboratory, Jaipur.

Attend one day Workshop on Basics of Flow cytometry, Dec. 2016 Organized by Dept. of Biosciences, Integral University, Lucknow.

Attend 5 days National Workshop cum training program (DBT sponsored) on "Computational Approaches in Biotechnology for Beginners" to be held from 17-21, February 2014 at Bioinformatics Centre of IVRI, Izatnagar, Bareilly.

Attend 3 days National Workshop on Nanomedicine (NWN-2014) Role of Nanomedicine as therapeutics agents against multi-drug resistant pathogens, Organized by Dept. of Biosciences, Integral University, Lucknow 7-9 March 2014.

Attend 3 days workshop on recent techniques in cell & molecular Biology, Organized by Dept. of Molecular & Human Genetics Laboratory, University of Lucknow 20-22 Nov 2014.

Attend 3 days international conference on Biotechnological advancement in free radical biology and medicine (ICBAFM-2015), Organized by Dept. Of Biosciences, Integral University, Lucknow 14-16 Nov 2015.

Attend one-day Inaugural CME in Electron microscopy: Basics, Applications, and Advances, Organized by Dept. of Pathology, King George's Medical University, Lucknow, 29 Nov 2015.

Attend 5 days Hands-on workshop on "Biosafety and Biosecurity" Organized by Department of Microbiology and Molecular Biology, National JALMA Institute for Leprosy and Other Mycobacterial Diseases (ICMR) Tajganj, Agra-282004.

Attend 2 days National Conference on Nanosciences, Nanotoxicology, and Nanoinformatics-Present and Future Perspectives (2015-Nano-LSFI-IU) organized by Dept. Of Bioengineering and Biosciences, Integral University, Lucknow, 14-15 March, 2015.

Attend 2 days International Symposium cum conference on "Cellular drug response" Organized by CSIR-CDRI in Collaboration with Indian Society of Cell Biology Dec 3-5 2014.

Attend 3 days international conference on TRENDS in "Cell and Molecular Biology (TCMB-2015)" Organized by BITS Pilani KK Birla Goa Campus Dec 19-21, 2015.

Attend 2 days "Research Symposium & Workshop on Scientific skill development" Organized by Department of Molecular Medicine & Biotechnology, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow 29-30th march, 2016 under the center of excellence in Modern Biology Supported by Ministry of Human Resource Development, Govt. of India, New Delhi.

Papers/Abstract Presented at the National/International Conferences

Kriti Dixit, Mustufa Khan, Rajya Vardhan Tripathi, **Tarun Upadhyay**. Biodegradable Microparticles Containing Potent Chemotherapeutic Agent for Targeting Cancer Cells. Selected Abstracts from GENOPRO-2017- 4th International Conference on “Emerging Trends in Protein Science and Proteomics Conference Proceedings, *BEMS Reports*, 2017; 3(2): 39-40.

Arpit Dixit, **Tarun Upadhyay**, Rajya Vardhan Tripathi, Mohammad Mustufa Khan. Adiponectin: A Potential Biomarker for Alzheimer's disease. Selected Abstracts from GENOPRO-2017- 4th International Conference on "Emerging Trends in Protein Science and Proteomics Conference Proceedings, *BEMS Reports*. 2017; 3 (2): 53.

Tarun Upadhyay, Mohammad Mustufa Khan, Radhakrishnan G. "Implications of Modern Genetic Tools and Techniques for Crop Improvement". Presented paper at National Conference on BioTrendz: Technological Advancement & Challenges in the Field of Biotechnology, Organized by Dept. of Biotechnology, Noida Institute of Engineering & Technology (NIET), Greater Noida, 23-24 April, 2019.

Mohammad Mustufa Khan, **Tarun Upadhyay**, Sanchit Tiwari. "Crosstalk between Hypoadiponectinemia, Sleep Disorders, and Metabolic Syndrome". Poster presentation at National Conference On BioTrendz: Technological Advancement & Challenges in the Field of Biotechnology, Organized by Dept. of Biotechnology, Noida Institute of Engineering & Technology (NIET), Greater Noida, 23-24 April, 2019.

Tarun Upadhyay, Mohammad Mustufa Khan. "Impact of physical activity on glycemic control of middle-aged diabetic patients". Central Zone Association of Clinical Biochemists of India (ACBICON-2018) with theme Recent Advancements in Molecular diagnostics Organized by Dept. of Biochemistry, King George's Medical University, Lucknow, 21-22 July 2018.

Tarun Upadhyay, Nida Fatima, Akanksha Sharma, Rolee Sharma. "Rifabutin-loaded β-1,3 Glucan Microparticles induces innate bactericidal responses within murine macrophages". First Indo-Russian Meet & 2nd International Conference on Biotechnological Advancements in Free Radical Biology and Medicine (ICBAFM-2017) Organized by Dept. of Biosciences, Integral University, Lucknow, 23-25 Jan. 2017.

Nida Fatima, **Tarun Upadhyay**, Akanksha Sharma, Rolee Sharma. "Role of NOX-2 in autophagy activation within murine macrophages by β-Glucan Particles". First Indo-Russian Meet & 2nd International Conference on Biotechnological Advancements in Free Radical Biology and Medicine (ICBAFM-2017) Organized by Department of Biosciences, Integral University, Lucknow, 23-25 Jan. 2017.

Akanksha Sharma, Nida Fatima, **Tarun Upadhyay**, M. Kalim A. Khan and Rolee Sharma. An *In silico* approach for the identification of novel anti-mycobacterial natural compounds. First Indo-Russian Meet & 2nd International Conference on Biotechnological Advancements in Free Radical Biology and Medicine (ICBAFM-2017) Organized by Department of Biosciences, Integral University, Lucknow, 23-25 Jan. 2017.

Tarun Upadhyay, Deepak Sharma, Amit Misra, Rolee Sharma. "Preparation and Characterization of Biopolymeric Microparticles for Improved Targeting of Alveolar Macrophage". Conference on Microscopy in Material Science and Biomimetic Technology, Organized by Academy of Microscope Science and Technology (AMST), DMSRDE, Kanpur, 26-28 Feb. 2015.

Tarun Upadhyay, Rolee Sharma, Swati Sharma, Deepak Sharma, Nida Fatima "Preparation and Characterization of Mushroom-Derived Biopolymeric Microparticles for Improved Targeting of Alveolar Macrophage". International Conference on Biotechnological advancement in free

radical biology and medicine (ICBAFM-2015) Organized by Department of Biosciences and Bioengineering, Integral University, Lucknow, 14-16 Nov. 2015.

Tarun Upadhyay, Deepak Sharma, Amit Misra, Rolee Sharma "Preparation and Characterization of Polymeric β-Glucan Microparticles for Targeting Alveolar Macrophage". International Conference on Advancements in polymeric materials (APM 2014) organized by CIPET LARPM, Bhubaneswar, 14-16 Feb. 2014.

Tarun Upadhyay, Deepak Sharma, Nida Fatima, A.K. Srivastava, Rolee Sharma. "Preparation and characterization of protein loaded Polymeric Microparticles for Oral Delivery". National Symposium on Recent Advances in Biochemistry and Biotechnology: Applications in health, Environment, and Agriculture, Organized by Dept. of Biochemistry, University of Lucknow, 29-31 Oct. 2013.

Tarun Upadhyay, Nida Fatima, Rolee Sharma. "Microparticulate β-Glucan Preparation from *Saccharomyces cerevisiae* For Use in Immune Potentiation". National Seminar on Stress, Development, and Adaptation: Biochemical Basis and Biotechnological Approaches Organized by Dept. of Biochemistry, University of Lucknow, 15-16 March 2013.

Tarun Upadhyay, Nida Fatima, Rolee Sharma." Preparation and Characterization of β-Glucan Particles for Targeting Alveolar Macrophage". Ist Lucknow Science Congress "Innovations in Science for Better Tomorrow, Organized by Babasaheb Bhimrao Ambedkar University, Lucknow, 20-21 March 2013.

Personal Details

Date of Birth : Sept 24, 1988
Father's Name : R.C Upadhyay
Address for Correspondence: H.No. 66, Deoria, Mankapur, Distt-Gonda (U.P)-271302
Permanent Address : H.No. 66, Deoria, Mankapur, Distt-Gonda (U.P)-271302
Marital Status : Married
Nationality : Indian
Language Known : Hindi, English, and Bengali

References

Prof. (Dr.) Neelam Pathak (Ph.D.)
Professor, Department of Biochemistry,
Dr. RMLA University, Faizabad–224001 U.P. (INDIA)
E-mail: pathak.neelam007@gmail.com
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Dr. Amit Misra (Ph.D.)
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Pharmaceutics Division,
CSIR-Central Drug Research Institute (CDRI), Lucknow–U.P. (INDIA)
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Dr. Ajay Kumar Bishnoi (Ph.D.)
Scientific Officer
Indian Pharmacopoeia Commission, Ghaziabad, U.P. (INDIA)
E-mail: Drajayipc@gmail.com
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Declaration

I hereby declare that all the information furnished above is true to the best of my knowledge and belief, and no related information is concealed.

Date: Nov. 2020

(Tarun Kumar Upadhyay)

Place: Jaipur