Detailed Biodata (any format) for attachment

Dr. Rahul M Shrivastava

Professor

Department of Biological Science and Engineering
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EDUCATION:

- MSc. & PhD (Biochemistry) from Devi Ahilya Univ. Indore (MP)

ACADEMIC ACCOMPLISHMENTS:

- Department of Science & Technology (DST), Govt. of India JRF ship to carryout PhD work
- Seconded by Ministry of Human Resources and Development, Government of India as a visiting faculty to Asian Institute of Technology (AIT), Bangkok, Thailand for 16 Week in 2013.
- Biotechnology Chair at the Addis Ababa University, Ethiopia in 04.11.2016 by ICCR, GOI, New Delhi
- Established Scientist Award 2016, Scientific Planet Society, Dehradun.
- Distinguish Scientist Award 2018, Venus Foundation, Chennai.

PROFESSIONAL ENGAGEMENTS:

- Nov. 2001- Aug. 2003, Dept. of Biochemistry, APS University Rewa (MP). (PG Teaching)
- Sep. 2003 - Dec. 2004, Dept. of Biochemistry SBSPGI, Balawala, Dehradun (UK) (PG Teaching)
- Dec. 2004 - April 2006, Dept. of Biochemistry, Cancer Hospital & Research Centre, Gwalior (MP)(PG Teaching)
- April 2006 - April 2008, School of Biotechnology, VIT University, Vellore (TN)(PG Teaching +UG Teaching)
- April 2008 - Aug. 2009, Dept. of Biochemistry, Index Medical College Hospital & Research Centre, Bhopal (MP) (MBBS Teaching)
- Aug. 2009 - May 2010, Dept. of Research, Bhopal Memorial Hospital & Research Centre (ICMR) , Bhopal (MP) (Research)
- June 2010- Dec 2018. Associate Prof. Department of Biological Science & Engg., MANIT Bhopal, India (PG Teaching)

- Jan 2019- Cont. Professor. Department of Biological Science & Engg., MANIT Bhopal, India (PG Teaching)

RESEARCH PROJECTS:

- Extramural Project from UGC DAE Consortium for Scientific Research Indore worth 1.35 lakh "Green synthesis of bi-metallic nanoparticles using leave extract of common arrowhead houseplant and its anticandidal and antibiofilm activity" (On-going)
- Extramural Project from CSIR, New Delhi worth 23.26 lakh "Screening of anti-venom potential of medicinal plants from Tribal region of Madhya Pradesh" (Completed)
- Extramural Project from MPCST, Bhopal worth Rs. 4.68 lakh "Phytochemical evaluation & chemical characterization of *Glycosmis Pentathylla* root extract in relation to various skin alignments" (Completed)
- Grant-in-aid Scheme of MANIT, Bhopal worth Rs. 7.5 Lakh "Stress response of E. coli & Staphylococcus aureus in relation to proteomic study" (Completed)
- MHRD-MANIT Scheme on Strengthening and Development of Research Laboratories entitled "Highway Pathway for Rapid Identification of New Promising Molecular Entities using Molecular Geometries for Human Viruses" worth 47.57 Lakh. (Completed)
- MPCST funded project, worth 1.8 lakh "Design and development of device for disinfecting air and surface in rural areas specially in dairy farms in the form of socio-economic development" (On-going)

FORIGN RESEARCH PROJECT/Consultancy

Ministry of Higher Education, Dept. of computing and information technology, King Abdul Aziz University, Rabigh, Saudi Arabia on "To investigate the effect of Isocynate groups to loss of immunity in exposed population against Mycobacterium Tuberculosis infection : An Molecular dynamics approach under deanship of scientific research grant (GS-511-830-37) with Dr. Iftikhar Asalam Taybi.

CONFERENCE & SHORT-TERM TRAINING PROG. ORGANIZED /ATTENDED:

- Short term training on "Bibliometric tools and techniques for measurement and evaluation of research output "held from 19-23 May 2014 in National Institute of science communication and information resources (CSIR), New Delhi.
- Short term training prog. on "Organic chemistry of drug design and drug action" held from 8- 12 Sep. 2014. In NITTTR, Bhopal (MP)
- Convener in National Conference on "Genomics; A Tool for Bio-prospecting" organized by Department of Bioinformatics, Maulana Azad National Institute of Technology, Bhopal, India During Nov. 20-21, 2010.
- Coordinator on Expert lecture on stem cell technology during May 2013.
- Coordinator in National Seminar "Recent Advances in Biotechnology and Human Health Care" Organized by Institutions of Engg. Bhopal during March 29-30, 2014

- Coordinator in Short term training prog. on biomaterial & their characterization during 22- 26 June, 2014
- Member of advisory and editorial boards of different national & International Journals.
- Reviewers of Science alert journals and J of Biophysics and Biochemistry.
- Chaired the technical session in International conference in Bioinformatics & Biomedical Technology, ICBBT-2012, Singapore.
- Member expert for PhD registration committee of Biotechnology, ARNI University (HP)
- Expert lecture in workshop held in Carrier college , Bhopal title "Phyto chemical Extraction & analysis Oct.2011 "
- Invited speaker in DBT sponsored training cum workshop in Dept. of Computer science, A.P.S. University, Rewa (MP) " Bioinformatics tools & its application" Jan.2012
- Invited speaker in UPCOST & ONGC sponsored National Symposium on Recent advances in Medical, Animal & Plant Biotechnology and given a lecture on Molecular docking and drug designing held in 15-16 March 2012 held in Beehive College, Dehradun.
- Invited speaker in MPCST & UGC sponsored national conference on Human Papiloma virus and control of cervical cancer - current Scenario and given a lecture on "Computational strategies for Cervical Cancer treatment" 16-17 March 2013 at Cancer Hospital & Research Institute , Gwalior (MP)
- Invited speaker on TEQIP II sponsored short term training prog. On an Advanced Instruments for Material Characterization during 1-5th April 2013 on UV Spectroscopy.
- Coordinator for an expert lecture on Stem Cell Technology during 13th March 2013.
- Invited Speaker On TEQIP II sponsored short term training prog. on Biomaterials during 22-26 June 2014.
- Invited Speaker on Self-financing short term training Prog. On "Frontiers of Material science and Technology (FMST)" during May 2-6 ,2016
- Invited Speaker on National Seminar "Recent Advances in Biotechnology and Human Health Care" Organized by Institutions of Engg. Bhopal during March 29-30, 2014
- Nine sequence of mineral solubilising bacteria has been submitted to NCBI.

SUPERVISORY ABILITIES:

PhD supervision (Thesis Awarded -04), (Submitted-01), (Ongoing-01)

- Computational study to investigate the role of Industrial pollutants on immune proteins against tuberculosis – Mr. Manish Tripathi (Sch. No. 123104004) (Awarded)
- Phytochemical evaluation and chemical characterization of *Glycosmis Pentaphylla* root extract in relation to skin ailments – Mr. Mohammad Yasir (Sch. No. 123104007) (Awarded).
- Study on Bacterial Diversity and Mineral Solubilizing Bacteria of Manganese Mining Area of Balaghat and Chhindwara Districts of Madhya Pradesh: Ms. Shikha Jaiprakash Dixit (Scholar No. – 123104001) (Awarded)
- Screening of anti-venom potential of medicinal plants from Tribal region of Madhya Pradesh – Mr. Pushpendra Singh (Sch. No. 143124001) – (Awarded)

- Fabrication of biosensing platform for the detection of oral carcinoma in biological samples- Ms. Ruchi Khare (Sch. No. 173124001) – (Submitted)

- Screening and formulation of Phospholipase A_2 inhibitors for snake envenomation management- Mr Sandeep Jhade (Scholar No. 203124001)- (Ongoing)

Dissertations work supervised: MSc. -06, MTech.-26, M Phil.-03

COUNTRY VISITED:

Singapore, London (UK), Newyork (USA) to present the papers and chair the session.

PATENTS:

1. Published Patent application number: 202321003262. "*Fabrication of electrochemical biosensing platform for detection of salivary biomarker CD44*".
2. Patent Published on 28/07/2023 Application number :202211004438 "Acyclovir loaded Eco- friendly liposomes for the management of atopic eczema"

RESEARCH PUBLICATIONS:

Web of Science (SCI/SCIE/ESCI)

1. **Rahul Shrivastava**, S.N. Bagchi, & U.K. Chauhan (2001) Effect of an allelochemical from a *Cyanobacterium Oscillatorialaete*-virens on photosynthesis of *Synechococcus* PCC 7942 Advanc. Pharmacol. and Toxicol Vol. 3 (1) 2002 , 33-40
2. K.C. Mathur, P.V. Khadikar, Ugam K. Chauhan and **Rahul Shrivastava** (2001) Topological modelling of toxic effects of organic explosives, propellants and related compounds using Szeged Index', Journal of Chem. and Enviro., 5(2): 68-70. **(I.F- 7.968)**
3. K.C. Mathur, Ugam K. Chauhan, **Rahul Shrivastava** and P.V. Khadikar (2001) Topological studies on toxic effects of organic explosives, propellants, and related compounds: Part I Intercorrelations of Topological Indices Orient J of Chem. (17) 2, 253-256
4. K.C. Mathur, Ugam K. Chauhan, **Rahul Shrivastava** and P.V. Khadikar (2001) Topological studies on toxic effects of organic explosives, propellants, and related compounds: Part II Environmental Modelling using Wiener Index Orient J of Chem. (17) 2, 271- 274
5. **Rahul Shrivastava**, Soma Ray and Suvendra N Bagchi (2001) Action of an algicide from a Cyanobacterium Oscillatorialaete-virens on Photosystem II, Ind. J of Exp. Biol. 39:1268-1273.**(I.F- 0.944)**
6. K.C. Mathur, **Rahul Shrivastava**, Vijay Bhaskar Reddy, Ugam K. Chauhan, and P.V. Khadikarn (2002). Rank order and the Krushal-Willis H-Test of the Meterology of Maihar location Madhya Pradesh situated in India, Enviro. Prot. and Eco. 3(2): 443-448**(I.F- 0.507)**

7. Soma Ray, **Rahul Shrivastava** and Suvendra Nath Bagchi (2003) Isolation and partial characterization of Synechococcus sp. pcc 7942 mutant resistant to natural herbicide Plant science, 165:785-791**(I.F- 5.2)**
8. N. Singh, K.K. Shukla, R. N. Patel, U.K. Chauhan, **Rahul Shrivastava** (2003) E.s.r., magnetic, optical and some biological (SOD and antimicrobial) studies of imidazolate bridged CuII-ZnII and CuII-NiII complexes with tris (Z-amino-ethyle) amine as capping ligand: a plausible model for superoxide dismutase. Spectrochimica Acta A, 59 :3111-3122. **(I.F- 4.831)**
9. **Rahul Shrivastava**, Shiladitya Mitra & Mainak Saha (2012) Biochemical profiling and pigment contents of different class of marine macro algae collected from Rameswaram-Mandapam coast in India. Oxidation Communication Vol. 35(3) pp. 759-766**.(I.F- 0.216)**
10. **Rahul Shrivastava**, Shiladitya Mitra & Mainak Saha (2012) Screening for the Presence of Antimicrobial Activity in Few marine macro algae collected from Rameswaram -Mandapam Coast of India. Oxidation Communication Vol. 35 (3) pp. 735-741. **(I.F- 0.216)**
11. Pradyumna K Mishra, Arpit Bhargava, Neelam Pathak, Prabha Desikan, Kewal K Maudar, Subodh Varshney, **Rahul Shrivastava** and Aruna Jain (2011). Molecular Surveillance of Hepatitis and Tuberculosis infection in a cohort exposed to Methyl Isocyanate. International Journal of Occupational Medicine and Environmental Health.24 (1): 1-8**. (I.F- 1.195)**
12. Protiti Bose & **Rahul Shrivastava** (2012) Production of eco-friendly Bioplastics in the weed Lantana camara through in-silico approach via Transplastomic Technology. Journal of Plastic Film and Sheeting. 28 (3)228-243.**(I.F- 2.694)**
13. **Rahul Shrivastava**, Manish Tripathi & Mohd. Yasir (2013) In-Silico analysis of toxicity generated by Methyl Isocynate in immune proteins responsible for defence against Mycobacterium Tuberculosis" in J Toxicology& Industrial health.2016 Jan;32(1):162-7 **(I.F- 1.851)**
14. Manish Kumar Tripathi, Mohammad Yasir, Vikram Singh Gurjar, Protiti Bose, Amit Dubey & **Rahul Shrivastava** (2014) Insights from the Molecular Docking of Hydrolytic Products of Methyl Iso-Cyanate (MIC) to Inhibition of Human Immune Proteins, Interdisciplinary Sciences: Computational Life Sciences ,6: 1-8. **(I.F- 4.8)**
15. M. Yasir, M. K. Tripathi, P. Singh, V. Prakash, R. Sarkar, Rahul Shrivastava (2015) efficacy of natural inhibitors from *Glycosmis pentaphylla* against protein kinase c: an *In-silico* approach to combat skin cancer in Oxidation communication Vol. 38 (1), pp 114 -121
16. M. Yasir , P. Singh , M. K. Tripathi , I. A. Tayubi , R. Shrivastava (2015) Antioxidant and Antifungal activity of *Glycosmis Pentaphylla* roots against Dermatophytes and Yeast-like fungi responsible for various skin ailments , Oxidation Communications 38, No 4, 1622–1631 **(I.F-0.35)**
17. Manish Tripathi, Mohd. Yasir, Pushpendra Singh & **Rahul Shrivastava** (2016) Toxic effect of chemicals dumped in premises of UCIL, Bhopal leading to environmental pollution: An *In-Silico* Approach, Asian J of Tropical Disease Volume 6, Issue 4, Pages 284–290**.(I.F- 3.1)**
18. Shikha Dixit, Appu Kuttan KK, J. Singh & **Rahul Shrivastava** (2016) Bacterial Diversity of Mineral Solubilising bacteria in Manganese Mining Area of Balaghat & Chhindwara, Madhya Pradesh, India, Research J of Chemistry and Environment. **(I.F-0.141)**

19. **Rahul Shrivastava**, Mohammad Yasir, Manish Tripathi, Pushpendra Singh. In-silico interaction of methyl isocyanate with immune protein responsible for Mycobacterium tuberculosis infection using molecular docking. Toxicology and Industrial Health, Volume 32, Year 2016, Pages 162-167. DOI:10.1177/0748233713498447. **(I.F-1.851)**
20. Mohammad Yasir, Jaspreet Singh, Manish Kumar Tripathi, Pushpendra Singh, **Rahul Shrivastava**. Green synthesis of silver nanoparticles using leave extract of common arrowhead houseplant and its anticandidal activity. Pharmacognosy Magazine 2017, 13(52): S840-844. **(I.F- 0.7)**

21. I. A. Tayubi, R. Shrivastava , Comparative Study of the Effect of Methyl Isocyanate (MIC) and Its Hydrolytic Products on Human Immune Proteins: an in-silico Approach. Oxidation Communications 41, No 1, 71–82 (2018) **(I.F- 0.35)**

22. Mohammad Yasir, Pushpendra Singh, Sunidhi Chohan, **Rahul Shrivastava**: Structure Based Computational Exploration of Beilschmiedia Compounds with Selected Targets against Multi-Drug Resistant Mycobacterium tuberculosis. Indian Journal of Pharmaceutical Education and Research 2019; 53(2s):s143-s150. **(I.F- 0.683)**
23. Pushpendra Singh, Mohammad Yasir, **Rahul Shrivastava**: Screening and Identification of Plant Metabolites against Snake Venom Enzymes using in vitro to in silico Approach. Indian Journal of Pharmaceutical Education and Research, 2019, 53(4S):s607-s618. **(I.F- 0.683)**
24. Manish Kumar Tripathi, Mohammad Yasir, Pushpendra Singh, **Rahul Shrivastava**: A comparative study to explore the effect of different compounds in immune proteins of human beings against tuberculosis: Insight from docking and molecular dynamics studies. Current Bioinformatics 2020, 15(2):155-164**.** (**I.F- 4.85)**
25. Ruchi Khare, Mohammad Yasir, Pushpendra Singh, **Rahul Shrivastava**: Diagnostic Aids for Early Detection of Oral Squamous Cell Carcinoma: Concepts and Emerging Techniques. Minerva Biotecnologica 2020, 32(1): 20-8. **(I.F- 2.024)**
26. Pushpendra Singh, Mohammad Yasir, Ruchi Khare, **Rahul Shrivastava**: Green Synthesis of Silver Nanoparticles Using Indian Male Fern (Dryopteris Cochleata), Operational Parameters, Characterization and Bioactivity on Najanaja Venom Neutralization. Toxicology Research, 2020 9(5):706-713. **(I.F- 2.680)**
27. Pushpendra Singh, Manish Kumar Tripathi, Mohammad Yasir, Ruchi Khare, Manoj Kumar Tripathi, **Rahul Shrivastava**: Potential Inhibitors for SARS-CoV-2 and Functional Food Components as Nutritional Supplement for COVID-19: A Review. Plant Foods for Human Nutrition, 2020 75(4):458-466. **(I.F- 4.0)**
28. Pushpendra Singh, Manish Kumar Tripathi, **Rahul Shrivastava**: In silico identification of linear B-cell epitope in coronavirus 2019 (SARS-CoV-2) surface glycoprotein: A prospective towards peptide vaccine. Minerva Biotechnology and Biomolecular Research, 2021 33(1):29-35. **(I.F- 2.024)**
26. Pushpendra Singh, Mohammad Yasir, **Rahul Shrivastava**. Ethnopharmacological screening of medicinal plants used traditionally by tribal people of Madhya Pradesh, India, for the treatment of snakebites. Journal of Herbal Medicine, Volume 29, Year 2021. DOI:10.1016/j.hermed.2021.100483. **(I.F- 2.542)**

27. S K Jhade, A Gupta and Rahul Shrivastava* (2024) 'Snake venom: An emerging anticancer agent', Research Journal of Biotechnology. Vol. 20 (7) July (2025) **(**I.F- **0.2)**

27. Jhade SK, Kalidoss K, Pathak PK, Shrivastava R. Proteogenomic approaches for snake venom protein-based drug development: current trends and challenges. Trans R Soc Trop Med Hyg. 2025 Jun 5;119(6):638-647. doi: 10.1093/trstmh/trae073. PMID: 39749538. **(I.F- 1.9)**

28. Jhade SK, Kalidoss K, Pathak PK, Shrivastava R. Artemisinin's molecular symphony: illuminating pathways for cancer therapy. Mol Biol Rep. 2024 Dec 31;52(1):95. doi: 10.1007/s11033-024-10202-7. PMID: 39739138. **(I.F- 2.6)**

Scopus

1. Ugam K. Chauhan, Padma Soni, **Rahul Shrivastava**, K.C. Mathur and P.V. Khadikar (2003). Antimicrobial activities of the Rhizome of Curcuma longa linn. Oxidation Communication 26 (2): 266-270. **(I.F- 0.216)**
2. **Rahul Shrivastava** and Neha Sharma (2009). Effect of Alfa Tocopherol& BHA on oxidised low density lipoprotein. Pharmacology online 3: 207-212**.(I.F- 0.62)**
3. **Rahul Shrivastava** and Roma Sarkar (2009) Electrophoretic Characterization of Embryo proteins in Rice Germplasm. Pharmacology online 3: 417-419.**(I.F- 0.62)**
4. **Rahul Shrivastava**, Ram Prakash Punde, Hemant Pandey, R.M. Samarth & K. K. Maudar (2010) Evolutionary development of Molecular Tools in the diagnosis of Mycobacterium tuberculosis; A Review. J. Med. Sci.,10(5); 124-129 **(I.F-3.642)**
5. **Rahul Shrivastava** (2011) Bhopal Gas Disaster; Review on Health effects of Methyl Isocyanate. Res. J. of Environ. Sci. 5 (2), 150-156. **(I.F- 6.796)**
6. **Rahul Shrivastava**, Sumukh Deshpande, Pooja Purohit, and Rashi Arora (2010) Biosynthetic pathway and molecular docking of methyl Isocyanate (MIC) –p53 interaction study. Pharmacology online 3; 696-715 **(I.F- 0.62)**
7. **Rahul Shrivastava**, Ram Prakash Punde, Sumukh Deshpandey, Pooja Purohit & Rashi Arora (2010). Molecular characterization and bioinformatics study of Tuberculosis infection prevalent in Methyl Isocyanate affected population in Bhopal. Pharmacologyonline3: 757-767. **I.F- 0.62**
8. M.K. Tripathi, L.K. Sinha, M.K. Yadav, Vinod Kumar Dhatwalia & **Rahul Shrivastava** (2011) Bioactive peptides in soybean and their potential impact on human health. J Med Arom Pl Sci 33: 115-127 **(I.F- 3.945)**
9. Mohd. Yasir, **Rahul Shrivastava**, Prateek Jain & Debajyoti Das (2012) Hypoglycemic and antihyperglycemic effects of different extracts and combinations of *Withania coagulans* Dunal and Acacia arabica Lamk in normal and alloxan induced diabetic and rats. Pharmacognosy Communications, Vol. 2 (2) pp.61-66**.(I.F 1.4)**
10. **Rahul Shrivastava**, Adityadav, Vikashrana, and Roma Sarkar (2015) establishment of in vitro culture and regeneration of plants in hypericum perforatum an antidepressant herb in India in Oxidation communication , Vol. 38 (1), pp 150-156. **(I.F- 0.216)**

11. M. Yasir, M. K. Tripathi, P. Singh, V. Prakash, R. Sarkar, **Rahul Shrivastava** (2015) efficacy of natural inhibitors from *Glycosmis pentaphylla* against protein kinase c: an *In-silico* approach to combat skin cancer in Oxidation communication Vol. 38 (1), pp 114 -121. **(I.F- 0.216)**
12. Pushpendra Singh, Mohammad Yasir, Risha Hazarika, Sunisha Sugunan, **Rahul Shrivastava**: A Review on Venom Enzymes Neutralizing Ability of Secondary Metabolites from Medicinal Plants. Journal of Pharmacopuncture 2017, 20(3): 173-178. **(I.F- 0.42)**
13. Esha Bala, Risha Hazarika, Pushpendra Singh, Mohammad Yasir, **Rahul Shrivastava**. A biological overview of Hyaluronidase: A venom enzyme and its inhibition with plants materials. Materials Today: Proceedings 2018, 5(2018): 6406–6412.
14. Pushpendra Singh, Mohammad Yasir, Manish Kumar Tripathi, **Rahul Shrivastava**: A Review on in Vitro Screening Assay for Inhibitory Effect against Venom Enzymes Using Medicinal Plants. Toxicology International 2016, 23(3): 207-211**. (I.F- 0.107)**
15. I. A. Tayubi, **Rahul Shrivastava**: Comparative Study of the Effect of Methyl Isocyanate (MIC) and Its Hydrolytic Products on Human Immune Proteins: an *In-silico* Approach. Oxidation Communication 2018, 41(1):81-82. **(I.F- 0.216)**
16. Mohammad Yasir, Manish Kumar Tripathi, Pushpendra Singh, **Rahul Shrivastava**: The genus Glycosmis (Rutaceae): A comprehensive review on its Phytochemical and pharmacological perspectives. The Natural Products Journal 2019, 9:98-124. **(I.F- 0.8)**
17. Ruchi Khare, Pushpendra Singh, Mohammad Yasir, Abey Joseph, **Rahul Shrivastava**: Emerging Trends of Non-Invasive Nano-Systems in Diseases Detection through Saliva and Sweat. Research Journal of Biotechnology 2019, 14(8): 131-136. **(I.F- 0.138)**
18. Pushpendra Singh, Mohammad Yasir, Ruchi Khare, Manish Kumar Tripathi, **Rahul Shrivastava**: A Review: Snake Venom Phospholipase A2 and its Natural Inhibitors. Natural Product Sciences, 2020, 26(3):259-267. **(I.F- 0.258)**
19. Ruchi khare, Pushpendra Singh, Sonal Verma, Souvik Pal, **Rahul Shrivastava**. Blueprint of Impedance-based Electrochemical Biosensors as Bioengineered Tools in the Field of Nano Diagnostics. Current Research in Biotechnology. 2022, available online at https://doi.org/10.1016/j.crbiot.2022.11.001 **(I.F- 5.64)**
20. S K Jhade, A Joseph and **Rahul Shrivastava* (2024)**. Chromo Sens: Harnessing chromogenic sandwich ELISA for cocaine detection on paper-based biosensors. Oxidation Communications (Vol. 47, Issue 2, pp. 362–367). **(I.F- 0.34)**

Peer Review

1. **Rahul Shrivastava** and U.K. Chauhan (2003) Action of commercial herbicide on PhormidiumUncinatum in photosynthesis and pigment composition', Asian J of Microbiol. Biotech. Env. Sc. 5(4):441-444
2. **Rahul Shrivastava**, Roma Sarkar and Ugam K Chauhan (2008) Effect of herbicides on biochemical and physiological properties of Oscillatorialaete-virens. Asian J of, Microbiol. Biotech. Env.Sc. Vol. 10, No. (3): 2008:563-567.
3. Harmandeep Kaur, NehaShrama and **Rahul Shrivastava** (2009) Nutritional quality of *Trigonella foenum-graceum*(desi) &*Trigonella corniculata* (kasuri) Methi. Ind. Res. Comm. Vol. 3(1); 20-22.

4. **Rahul Shrivastava** Roma Sarkar, Aniruddha Chatterjee and P.V. khadikar (2009). Quantitative–Structure-activity relationship study (QSAR) on the action of an algicide from a cyanobacterium; *Oscillatoria Laetevirens*, on Photosystem II activity J of Advance Biotech.pp-15-18
5. **Rahul Shrivastava**, Ugam K. Chauhan, Roma Sarkar &Aniruddha Chatterjee (2009). Observation on the reaction rate kinetics in cellulosic paper waste. J Advanced biotech. pp-21-25.
6. Sumukh Deshpandey, Pooja Purohit, Rashi Arora & **Rahul Shrivastava** (2011). Biosynthetic pathway analysis of Methyl Isocyanate (MIC)-p53 using bioinformatic approach. J. of Adv. Biotech. 11(1): 35-38
7. Neha Sharma and **Rahul Shrivastava** (2010). Evaluation of clinical utility of serum enzymes and Cardiac Troponins in the early stages of acute myocardial infarction. Ind. Res. Comm. Vol. 4(1); 18-19.
8. Vipul Sharma, AnkitMalla, R Sarkar & **Rahul Shrivastava** (2012). A comparative evaluation of antibacterial activity of some marine macro and micro algae from Indian coast. Adv Bio Tech. May 2012 11(11):21-24
9. Piyushi Singh, James Rohit Runda, Devanshu Umredkar & **Rahul Shrivastava** (2013) Analysis of Fractal Nature of Cancer Genes. Octa J of Bioscience.
10. Priya Pradhan, **Rahul Shrivastava** and Iftikhar Aslam Tayubi (2016). The unmasking of un-translated regions of Human coronavirus OC43againstSevere Acute Respiratory Syndrome: An *In-silico* case study for drug targeting. Bioscience Biotechnology Research Communications (BBRC).9(1): 55-68 (2016)
11. Mohammad Yasir, Manish Kumar Tripathi, Pushpendra Singh, Tayuir Muri, **Rahul Shrivastava** (2016). "In-silico inhibition study of Mycobacterium tuberculosis gyrase type IIA topoisomerase by marine natural products" Octa J of Biosci. Vol. 4(2) :78-80.
12. Pushpendra Singh, Mohammad Yasir, Ruchi Khare, Manish Kumar Tripathi, Manoj Kumar Tripathi, **Rahul Shrivastava**: Hyaluronidase an enzyme in snake venom and its natural inhibitors: A Review. Octa Journal of Biosciences, 2019, 7(2):82-88
13. M.K. Tripathi, R.S. Jadam, S.K. Giri, and **Rahul Shrivastava**, 2019, Food processing by-products: Future for food applications, *Octa. J. Biosci (International peer –reviewed Journal)*, Vol. 7(2):93-99
14. M.K. Tripathi**,** S.K. Giri and **Rahul Shrivastava** 2020. Prebiotic production from Agrofood Wastes: An Opportunity to develop high value compounds and generate employment. *Scientific India, Vol 8, Issue5, Sep*- Oct, 36-38.
15. M.K. Tripathi**,** S.K. Giri and **Rahul Shrivastava**, 2020. Role of prebiotic food ingredients in microbiome maintenance: healthy gut microbiome and covid-19. *Scientific India*, Vol 8 (3), 11-15.
16. Manoj Kumar Tripathi, Saroj Kumar, **Rahul Shrivastava**, Rajpal S Jadam and Anamika **(2021)** Role of dietary prebiotics in health management of infant microbiome. Octa J. Biosci. Vol. 10 (2):89-99.
17. Manoj Kumar Tripathi, Saroj Kumar Giri and **Rahul Shrivastava**, **(2021).** Development of Food grade Edible Growth Media Using Food Processing By-Products: Production and Delivery of Probiotics. Scientific India, Vol 9 issue 3, 25-27.

- Nine sequence of mineral solubilising bacteria has been submitted to NCBI and Published..

<u>Paper Presented/Conference Attended</u>

1. **Rahul Shrivastava**, S. Ray and S.N. Bagchi (2000). Effect of an allelochemical from CyanobacteriumOscillatoria late virens on photosynthesis in Synechococcus PCC 7942. 41st annual Conference of Association of Microbiologists of India, MICROBIOTECH, Nov. 25-27, held in Jaipur,
2. S.Ray, **Rahul Shrivastava** and S. N. Bagchi (2000). Effect of an algicidal metabolite from a Cyanobacterium on photosynthesis of higher plants. 41st annual Conference of Association of Microbiologists of India, MICROBIOTECH-2000, Nov. 25-27 held in Jaipur
3. Deepa Sharma, Ugam K Chauhan and **Rahul Shrivastava** (2002). Observation on the reaction rate kinetics in cellulosic paper waste. National Symposium on contemporary trends in biological Sciences. Dept. Of Biological Sciences, Rani Durgawati University, January 9-11, Jabalpur
4. **Rahul Shrivastava** (2002). Effect of PSII inhibitor (herbicides) on photosynthesis and polypeptides of *Cyanobacterium Phormidiumun cinatum*. 17th MPCST Young Scientist Congress, March 25-26, held in Mahatma Gandhi Chitrakoot Gramodaya University, Satna,
5. **Rahul Shrivastava** (2003). Effect of herbicides on pigment composition, lipid profile and photosynthetic activity in the *Cyanoba cterium Oscillatorialaete*-virens 18th MPCST Young Scientist Congress, March 4-5, held in Madhya Pradesh Bhoj University, Bhopal,
6. Attended National Workshop on Bioinformatics in Classrooms, April 8-10, 2005 held in Indian Institute of Information Technology & Management (IIITM) Gwalior
7. Attended National Seminar on Modern Trends In Intellectual Property Right (IPR) Issues, March 3-5,2006 held in Institute of Ethno biology, Jiwaji University, Gwalior
8. Attended National lecture workshop in Medical Biotechnology, Dec.26-28 ,2007 held in School of Biotechology, Chemical & Biomedical Eng. VIT University, Vellore
9. Riddhi Mukherjee and Rahul Shrivasatava (2008). Biochemical profiling of marine macro algae from Rameswaram- Mandapam coast. International Conference in Biotechnology , Feb. 6-8, 2008 held in School of Biotechology, Chemical & Biomedical Eng. VIT University, Vellore
10. **Rahul Shrivastava** (2008). Mechanism of Action of the natural & synthetic herbicides on photosystem II. International Conference in Photosynthesis in the global perspective, Nov. 27 - 29, 2008 held in School of Life Sciences, DAVV, Indore, India
11. Pradyumna K Mishra, **Rahul Shrivastava**, PrabhaDesikan&SubodhVarshney (2010). Molecular surveillance of hepatitis and tuberculosis infection in a cohort exposed to methyl isocyanate. National conference on Genomics; Tools for Bio prospecting Nov.20-21, 2010 held in Dept. Of Bio-informatics ,Maulana Azad National Institute of Technology, Bhopal.
12. Attended workshop on Patent Drafting, Feb.11-12, 2011 3-5, held in IPR Cell ,MANIT, Bhopal.
13. Attended short term course on "Recent Trends In Industrial Pollution and Energy Management", May 09-13, 2011, held in, Dept. of Chemical Engg. MANIT, Bhopal.
14. Priti & **Rahul Shrivastava** (2011). Molecular classification for the therapy of pancreatic cancer through cDNA microarray analysis" Indo-US Workshop on Bio computing , Sep. 12-13 Sep. 2011 held in NIT, Calicut
15. Hemant Pandey, Vikram singh Gujar, Ram Prakash Punde, Ravindra M Samarth, Puneet Gandhi & **Rahul Shrivastava** (2011). Effect of various physic- chemical factors on micro propagation of a medicinal plant Ecliptaalba. On national symposium "Emerging trends in Biotechnology" Sep. 1-2 Sep. 2011 held in Cochin University of Science and Technology, Kochi

16. Punde R, Pandey H, Gujar VS and **Rahul Shrivastava** (2011). Real Time PCR: A Sensitive Technique for the Detection and Quantification of Target Nucleic Acid Sequences "1st International Science Congress" held on 24th - 25th December 2011 at Indore, India.
17. **Rahul Shrivastava**, Madhukar Sirmaur, P. K. Mishra, Mohd Yasir & Akash Tiwari (2012). *In-silico* study of different proteins by MIC & HCN inhibition by using molecular docking. 4th International conference in Bioinformatics & Biomedical Technology, ICBBT-2012, Singapore.
18. Workshop on Innovative Teaching Methodology held in MANIT during Jan. 05-06 2012
19. National Seminar on Global Issues and challenges in health and business management Feb 27-28, 2013 held in Jiwaji University, Gwalior (MP)
20. **Rahul Shrivastava** & Manish Tripathi (2013) "Molecular docking simulation of Methyl Isocyanate and residue dumped in UCIL, Bhopal and Immune proteins provide protection against Mycobacterium Tuberculosis" Next generation sequencing data congress, 17-18 June 2013 London, UK.
21. Workshop on Managing Water Resources under Climate Uncertainty: Challenges and Opportunities, Asian Institute of Technology, Thailand, October 17-18, 2013.
22. **.** Delivered invited webinar "Self-Reliant India: Golden Opportunity in Pharma Sector". In Mittal College of Pharmacy, Bhopal (MP) on 5th June 2020.
23. **.** Delivered invited webinar on "Covid-19; A future diagnostic challenge" in Govt. Holkar Science College , Indore on 14th June 2020.
24. Delivered invited talk in popular lecture series in "Current trends in Biotechnology" on 13 Sep.2022 in Amity Gwalior (MP) Topic "Bio separation of Natural Product"
25. Delivered Invited talk in Symposium "Recent Trends in Bioengineering" held at VIT Bhopal on 18-19 May. 2023 Topic "Biosensor and Cancer Detection"

BOOKS:

Articles in Book:

- Soma Ray, **Rahul Shrivastava** and Suvendra N Bagchi (2003). Role of magnesium and phosphate limitations and low temperature in stimulating algicide production in a *Cyanobacterium Oscillatorialaete*-virens. Phycology Principle, processes and applications Daya Publishing House. ISBN 8170352967, Delhi, pp. 175-185.
- M.K.Tripathi and **Rahul Shrivastava** (2013). Biotechnological aspects of By-product Utilization. Advances in Bioprocessing system for development of functional food and value addition to byproducts. (Ed by L.K.Sinha ,Punit Chandra and M.KTripathi CIAE (ICAR) Bhopal. Page No. 63-73.Technical Bulletin No. CIAE/APPD/2013/162.
- Aakash Tiwari, Madukar Sirmaur, Priti, M.K. Tripathi & **Rahul Shrivastava** (2014). Bioinformatics: Towards a revolution in human healthcare. Biotechnology: Recent Advances and diverse application published by BIOTECH BOOKS, New Delhi ISBN 978-81-7622-315-7 PP 318-326.

- M.K. Tripathi and **Rahul Shrivastava** (2017). Processing and Utilization of Soy Food By-Products Food Processing By-Products and their Utilization, First Edition. John Wiley & Sons Ltd. Page 231 Anal Page- 231 ISBN: 9781118432884
- Ruchi Khare, Sandeep Kumar Jhade, Manoj Kumar Tripathi, **Rahul Shrivastava** (2023). Drug Repurposing: An Approach for Reducing Multidrug Resistance. 10.1007/978-981-19-9167-7_7. In book: Non-traditional Approaches to Combat Antimicrobial Drug Resistance. ISBN978-981-19-9166-0.
- Ruchi Khare, Mohammad Yasir, Alok Kumar Shukla, Sivarama Krishna Lakkaboyana and **Rahul Shrivastava** (2023). Foodomics and Green Analytical Technologies. In book: 1st Edition Green Chemistry in Agriculture and Food Production. Edited By Vinay Kumar, Kleopatra Tsatsaragkou, Nilofar Asim. ISBN 9780367254315. March 10, 2023 Forthcoming by CRC Press.
- Mohd. Yasir, Ruchi khare, Pushpendra Singh, **Rahul Shrivastava** (2021). Possibility of Probiotic in Colorectal Cancer: A Specific Countenance to Research. DOI: 10.1007/978-981-15-8214-1_6. In book: Probiotic Research in Therapeutics.

Reports:

- **Rahul Shrivastava** (2010). Funding Agencies for Research and Development in Science and Technology; J of Advanced Biotech. Vol. 9(7) pp 11-19.

Books:

- **Rahul Shrivastava**; (2010) "Analytical and Molecular Biology; Methods and Protocols" By Lambert Academic Publishing.
- M.K. Tripathi& **Rahul Shrivastava** (2013) " Modern Food: Current Issues & Perspectives " By Narendra Publishing House.
- **Rahul Shrivastava** & Bharat Modhera (Edited, 2014) "Recent Advances in Biotechnology and Human Health Care".
- **Rahul Shrivastava** & M.K. Tripathi (2018) "Bioactive Phytocompounds" by Brillion Publishing, New York.

MEMBERSHIP:

- Life Member - Asia-Pacific Chemical, Biological & Environmental Society (APCBEES), Hong Kong
- Life Member – Indian Society for Technical Education, India
- Life Member – Society for Biological Chemists, India
- Life Member – Science Planet Society, India (Registration No. SPS/LM/LS/147
- Life Member – Society for Bio safety, India

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