


NAME	Dr. Taru Singh	
DESIGNATION	Assistant Professor-II	
EMAIL ID	Tsingh17@amity.edu	
CONTACT NUMBER	+918860191281	
RESEARCH INTERESTS	AMR, Vector borne diseases, Climate change, Autoimmune diseases, Infectious diseases	

EDUCATIONAL QUALIFICATIONS:

Name of College / University	Degree	Year
University of Delhi	PhD (Medical Microbiology)	2018

Title of Ph.D. thesis: “Detection of multidrug resistance genes and transcriptional landscapes in diarrheagenic and commensal strains of *E. coli* from fecal isolates in children under five”

EXPERIENCE (in chronological order):

Designation	Type of post held (teaching/ research)	Name of the Institute	Year (From – To)
Scientist B	Research	ICMR-National Institute of Malaria Research, New Delhi	2017-2021
Scientist C	Research	Indian Council of Medical Research Headquarters, New Delhi	2021-2024
Assistant Professor-II	Teaching+ Research	AIB, Amity University, Noida	2024-Till Now

<p>PUBLICATIONS (25)</p>	<p>Details:</p> <p>Debnath, F., De, R. G., Chakraborty, D., Majumdar, A., Mukhopadhyay, S., Sarkar, M. D., Singh, T., Patra, S. K., Saha, S., Rehman, J., Roy, D., Chakrabarti, A., Basu, S., Mukhopadhyay, A. K., Mondal, A., Soren, S., Datta, K., Pain, S., Mondal, S. B., Mondal, P., ... Dutta, S. (2024). Antimicrobial stewardship implementation in primary and secondary tier hospitals in India: interim findings from a need assessment study using mixed method design. Scientific reports, 14(1), 28068. https://doi.org/10.1038/s41598-024-78111-0 Impact factor 3.8</p> <p>Matrujyoti Pattnaik, Ashish Kumar Nayak, Sonam Karna, Subrat Kumar Sahoo, Subrata Kumar Palo, Srikanta Kanungo, Jaya Singh Kshatri, Debaprasad Parai, Kamini Walia, Taru Singh, Hari Ram Choudhary, Sanghamitra Pati and Debduitta Bhattacharya. Perception and determinants leading to antimicrobial (mis)use: A knowledge, attitude, and practices (KAP) study in the rural communities of Odisha, India. Frontiers of Public Health. 2023 Jan 13;10:1074154. DOI: 10.3389/fpubh.2022.1074154. PMID: 36711396; PMCID: PMC9880167. Impact factor 6.064</p> <p>Praveen K. Singh, Shukla Das, Gargi Rai, Mohammad A. Ansari, Sajad A. Dar, Taru Singh, Deepika Pandhi, A Snapshot of T Cell Subset Cytokines in Pemphigus Vulgaris: A Cross-Sectional Study. Cureus 2022 Oct</p>
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4;14(10):e29890. doi: 10.7759/cureus.29890. PMID: 36348826; PMCID: PMC9630798.

T. Singh, P. Rastogi, U. K. Pandey, A. Geetha, M. Tiwari and M. K. Chakravarthi, "Systematic Healthcare Smart Systems with the Integration of the Sensor Using Cloud Computing Techniques," *2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE)*, Greater Noida, India, 2022, pp. 708-712, doi: 10.1109/ICACITE53722.2022.9823626. IEEE Xplore Impact factor **5.224**

Singh N, Shah D, **Singh T**, et al. Aetiology of hospital-acquired diarrhoea in under-five children from an urban hospital in East Delhi, India. *Indian J Med Res.* 2022;156(4&5):624-631. doi:10.4103/ijmr.IJMR_4138_20 **Indian Journal of Medical Research.** Impact factor **5.274**

Singh T, Dar SA, Singh S, Shekhar C, Wani S, Akhter N, Bashir N, Haque S, Ahmad A, Das S. Integron mediated antimicrobial resistance in diarrheagenic *Escherichia coli* in children: in vitro and in silico analysis. **Microbial Pathogenesis.** 2021 Jan; 150:104680. doi: 10.1016/j.micpath.2020.104680. Epub 2020 Dec 7. PMID: 33301859. Impact factor **3.8**

Singh T, Hussain SSA, Rawat M, Kar NP, Pasi S, Dhiman RC. Prevalence of sibling-species of Anopheles (*Cellia*) *fluviatilis* complex in Himachal Pradesh, India. *J Vector Borne Dis.* 2021 Jan-Mar;58(1):85-89. doi: 10.4103/0972-9062.321745. PMID: 34818868. **Journal of Vector Borne Diseases.** DOI:10.4103/0972-9062.321745. Impact factor **1.68**

Kumari N, Bhattacharya SN, Das S, Datt S, **Singh T**, Jassal M, Agrawal AK. *In Situ* Functionalization of Cellulose with Zinc Pyrithione for Antimicrobial Applications. **ACS Applied Materials & Interfaces.** 2021 Oct 13;13(40):47382-47393. doi: 10.1021/acsami.1c14113. Epub 2021 Oct 4. PMID: 34606229. Impact factor **9.5** <https://doi.org/10.1021/acsami.1c14113>

Snehaa K, **Singh T**, Dar SA, Haque S, Ramachandran VG, Saha R, Shah D, Das S. Typical and atypical enteropathogenic *Escherichia coli* in children with acute diarrhoea: Changing trend in East Delhi. **Biomed J.** 2020 Apr 21:S2319-4170(20)30043-3. doi: 10.1016/j.bj.2020.03.011. Epub ahead of print. PMID: 32330679. Impact factor **5.5**

Kumar N, Awasthi A, Kumari A, Sood D, Jain P, **Singh T**, Sharma N, Grover A, Chandra R. Antitussive nospapine and antiviral drug conjugates as arsenal against COVID-19: a comprehensive chemoinformatics analysis. **Journal of Biomolecular Structure and Dynamics.** 2020 Aug 20:1-16. doi: 10.1080/07391102.2020.1808072. Epub ahead of print. PMID: 32815796; PMCID: PMC7484584. Impact factor **4.4**

Taru Singh, Sajad Ahmad Dar, Shukla Das, Shafiul Haque, New strategies to combat drug resistance in bacteria, Editor(s): Prashant Kesharwani, Sidharth Chopra, Arunava Dasgupta, Drug Discovery Targeting Drug-Resistant Bacteria, Academic Press, 2020, Pages 377-

398, ISBN 9780128184806, <https://doi.org/10.1016/B978-0-12-818480-6.00013-8>.

Taru Singh, Sajad Ahmad Dar, Shukla Das, Shafiul Haque-Importance of efflux pumps in subjugating antibiotic resistance, Editor(s): Prashant Kesharwani, Sidharth Chopra, Arunava Dasgupta, Drug Discovery Targeting Drug-Resistant Bacteria, Academic Press, 2020, Pages 273-299, ISBN 9780128184806, <https://doi.org/10.1016/B978-0-12-818480-6.00010-2>.

Singh T, Singh PK, Das S, Wani S, Jawed A, Dar SA. Transcriptome analysis of beta-lactamase genes in diarrheagenic *Escherichia coli*. **Scientific Reports**. 2019 Mar 6;9(1):3626. doi: 10.1038/s41598-019-40279-1. PMID: 30842518; PMCID: PMC6403342. Impact factor **4.6**

Singh T, Singh PK, Dar SA, Haque S, Akhter N, Das S. Changing paradigm of antibiotic resistance amongst *Escherichia coli* isolates in Indian pediatric population. **PLoS One**. 2019 Apr 17;14(4):e0213850. doi: 10.1371/journal.pone.0213850. PMID: 30995225; PMCID: PMC6469777. Impact factor **3.7**

Taru Singh, Shukla Das, Rumpa Saha, V G Ramachandran, Samiran Mukherjee. Molecular detection of prevalent malarial species in north Indian population. **Indian Journal of Experimental Biology (IJEB)** 2018; 56:838-841 Impact factor **1.165**

Singh T, Das S, Ramachandran VG, Wani S, Shah D, Maroof KA, Sharma A. Distribution of Integrons and Phylogenetic Groups among Enteropathogenic *Escherichia coli* Isolates from Children <5 Years of Age in Delhi, India. **Frontiers in Microbiology**. 2017 Apr 10;8:561. doi: 10.3389/fmicb.2017.00561. PMID: 28443072; PMCID: PMC5385330. Impact factor **5.2**

Singh T, Das S, Ramachandran VG, Dar SA, Sneha K, Saha R, Shah D. Spectrum of diarrhoeagenic *Escherichia coli* in paediatric population suffering from diarrhoea and as commensals in healthy children. **Indian Journal of Medical Microbiology**. 2017 Apr-Jun;35(2):204-210. doi: 10.4103/ijmm.IJMM_16_21. PMID: 28681807. Impact factor **1.6**

Singh T, Das S, Ramachandran VG, Shah D, Saha R, Dar SA, Rai A. Typical & atypical enteropathogenic *Escherichia coli* in diarrhea & their role as carrier in children under five. **Indian Journal of Medical Research**. 2017 Apr;145(4):551-557. doi: 10.4103/ijmr.IJMR_25_15. PMID: 28862189; PMCID: PMC5663171. Impact factor **4.2**

Taru Singh, Shukla Das, V G Ramachandran, Khan Amir Maroof, Arvind Rai, Real-Time PCR Assay & Melting-Curve Analysis for the identification of diarrheagenic *Escherichia coli* in paediatric population. **Indian Journal of Experimental Biology** 55,876-879,2017. Impact factor **1.165**

	<p>Dar SA, Haque S, Mandal RK, Singh T, Wahid M, Jawed A, Panda AK, Akhter N, Lohani M, Areeshi MY, Rai G, Datt S, Bhattacharya SN, Ramachandran VG, Das S. Interleukin-6-174G > C (rs1800795) polymorphism distribution and its association with rheumatoid arthritis: A case-control study and meta-analysis. Autoimmunity. 2017 May;50(3):158-169. doi: 10.1080/08916934.2016.1261833. Epub 2016 Dec 23. PMID: 28010120. Impact factor 3.5</p> <p>Dar SA, Akhter N, Haque S, Singh T, Mandal RK, Ramachandran VG, Bhattacharya SN, Banerjee BD, Das S. Tumor necrosis factor (TNF)-α - 308G/A (rs1800629) polymorphism distribution in North India and its association with pemphigus: Case-control study and meta-analysis. Autoimmunity. 2016;49(3):179-87. doi: 10.3109/08916934.2015.1134512. Epub 2016 Jan 13. PMID: 26761187. Impact factor 3.5</p>
<p>PATENTS (2.)</p>	<p><i>Details:</i></p>
<p>RESEARCH PROJECTS Completed: (2) Ongoing: (<i>total no.-</i>)</p>	<p><i>Details:</i></p> <ol style="list-style-type: none"> 1. Molecular analysis of cytokine polymorphism in autoimmune skin diseases (UGC-Intramural grant) 2. Initiative on expansion of antimicrobial stewardship (AMSP) and infection control program (ICP) in secondary care hospitals and private nursing homes (Pfizer)
<p>AWARDS & HONOURS/ DISTINCTIONS</p>	<ol style="list-style-type: none"> 1. Fellow of the Royal Society of Tropical Medicine and Hygiene. 2. Bill and Melinda Gates Foundation Global Health Travel Award for the Keystone Symposium G1 Vaccinology: Horizons Across Disease, Demography and Technology conference to be held at the Marriott Marquis Washington, DC, Washington, DC, USA on Jun 4 - Jun 7, 2025. 3. AMR Insight Ambassador 2024 4. Women in Malaria (WiM) Attendance Grant (2025, and 2021). 5. Bill and Melinda Gates Foundation Global Health Travel Award for the Keystone Symposium F6 Vaccinology During and After COVID-19' conference to be held at the Atlanta Marriott Marquis, Atlanta, GA, USA on Sep 17 - Sep 20, 2023. 6. Travel Grant and best oral presentation from European Society of Paediatric diseases (ESPID-2023) for 41st Annual Meeting of the European Society for Paediatric Infectious Diseases in Lisbon & Online, 8-12 May 2023. 7. Travel Grant from the organizers for the 6th International Conference on Prevention & Infection Control, held from 14-17 September, Geneva, Switzerland 2021. 8. Travel Grant by organizing committee of European Society of Clinical Microbiology and Infectious Diseases (ECCMID 2020) held at April 18-21, 2020, at Paris, France.

	<p>9. Travel Grant by organizing committee of 15th Asian Conference on Diarrhoeal Disease and Nutrition (ASCODD 2020) held at January 28-30, 2020, at Dhaka, Bangladesh.</p> <p>10. Young Investigator Award by (4th International Interscience Conference on Infection and Chemotherapy) & ISAAR (12th International Symposium on Antimicrobial Agents and Resistance) ICIC & ISAAR 2019 held at Gyeongju, South Korea from September 26-28, 2019.</p> <p>11. WSPID fellowship by World Society for Pediatric Infectious Diseases for attending WSPID Conference in Shenzhen, China from 2- 5 December 2017.</p> <p>12. Bill and Melinda Gates foundation Travel Grant Award for Young Investigators from India and Southeast Asia for International Society for Infectious Diseases (ISID) from March 2-5, 2017.</p> <p>13. CSIR-UGC JRF NET 2012 in life science.</p> <p>14. ICMR-JRF 2013</p> <p>15. GATE-2013</p>
<p>MEMBERSHIP with Professional/ Academic bodies</p>	<ol style="list-style-type: none"> 1. Member of Royal Society of Tropical Medicine and Hygiene (RSTMH) 2025 2. Fellow of the World Society of Pediatric Infectious diseases. 3. Member of Infection Control Academy of India (IFCAI) till 2027. 4. Life member of Indian Immunological Society 5. Global Outreach Post-Doctoral Member of American Society of Microbiology (ASM) 6. Member of Infectious Disease Society of America (IDSA) 7. European Society for Pediatric Infectious Diseases- young ESPID 8. International Society for Infectious Diseases 9. European Society of Clinical Microbiology and Infectious Diseases 10. ISAAR society 11. Life member of Society of Biomedical Laboratory Scientists, India 12. Infection Prevention Society (Special Access IPS Membership) 13. Euraxess, India 14. Affiliate member of Microbiology Society, United Kingdom. 15. Indian Association of Medical Microbiologist-Delhi Chapter 16. Indian Association of Medical Microbiologist 17. Member of AMR Multi-Stakeholder Partnership Platform, United Nations 18. Member of International Society of Pneumonia and Pneumococcal Diseases (ISPPD)