



Name: Prof. Indu Sharma

Designation: Professor

Department/Institute/University: Department of Microbiology, Assam University, Silchar-788011 Email: drsharma7652@gmail.com

<http://www.aus.ac.in/microbiology-department/wp-content/uploads/sites/36/2026/04/Biodata-Prof-Indu-Sharma-1.pdf>

Area of research:

- Indu Sharma is currently serving as a Professor in the Department of Microbiology, Assam University, Silchar-788011. Her research interest lies in the geographically isolated tribal populations of North East India that continue to follow a traditional lifestyle, diet and plant-based medicine, and are largely unexposed to modern lifestyles. They therefore provide a unique opportunity to study the human microbiome unaffected by a modern lifestyle. Population based studies have helped her in understanding the gut microbiota as a target for medical interventions such as the role of fecal microbial transplantations in restoration of the healthy state both in adult as well as infants. Recently her research is mainly focused on microbiome of ethnic groups of North east India that elucidates microbiome and reveals the beneficial as well as harmful bacteria. She has studied the influence of diet and lifestyle on gut microbiome of adults belonging to tribes of North-East India, however the nature of microbiome in infants of same population remains unknown, thus her present interest is to contribute towards understanding the impacts of breast feeding and complementary feed on infant gut microbiome and relationships between dietary factor, microbial populations, and health of infants as gut microbiota has been linked to later health and disease susceptibility, and has been recognized as “a window of opportunity” for microbial modulation. So long-term interactions between breast feeding, complementary diets, and gut microbiomes are of great interest to predict effects of recent and rapid lifestyle and dietary changes on infant health from ethnic tribes of North-East India.

Also, she is vigorously involved in identifying unique probiotic strains from ethnic tribes in fermented foods and beverages which can effectively outcompete gut pathogens as an alternate successful therapeutic option, and help in providing better health benefits to North East region of India.

Position and Employment: (Starting with the most recent employment)

Sl No.	Institution Place	Position	From (Date)	To (date)
1.	Assam University, Silchar	Professor	9 th Oct'2009	Till date

Honours/Awards:

Awarded university fellowship from W.B. University of Animal and Fishery Sciences, Kolkata.

Research Grants (Completed):

Sl. No.	Title of Project	Funding Agency	Date of sanction and Duration	Amount
1	Evaluation of Antagonist Fluorescent Pseudomonads bacteria for the disease management in North-East region. (CO-PI) <u>(Completed)</u>	DBT	2011-2014	30 Lakhs
2	Screening and morphological characterization of biofilm communities from clinical samples. <u>(Completed)</u>	DBT	2018-2019	8 lakhs
3.	Studies on Metagenomics biomarkers of Gut microbial communities of Tribal Population from Arunachal Pradesh <u>(Completed)</u>	ICMR	2019-2021	20 lakhs
4.	Studies on shotgun metagenomic sequencing of probiotic microbial communities from rice-based fermented products in ethnic groups of southern Assam <u>(Completed)</u>	ASTEC	2022-2024	8 lakhs

On-going Research Grants:

Sl. No.	Title of Project	Funding Agency	Date of sanction and Duration	Amount
1.	PI -Assessment of anti-oral biofilm activity of exopolysaccharides and short chain fatty acids from probiotic strains of fermented soybean food Tungrymbai of Meghalaya	DBT	2025-2028	38,70,000

2.	PI -Studies on fecal metagenomics to identify Biomarkers with response to breast and complementary feeding in infants of Tribal Population from Arunachal Pradesh	ICMR	2025-2028	42,04097
3.	Elucidating the genomic signatures of tobacco and betel quid chewers of North-East India- CO-PI	CSIR	2025-2028	20,00,000

Highlights of research profile:

PhD awarded: 11(as Supervisor)

M.Sc. Project Guidance: More than 70

Research papers of National and International repute: 80

Research Project completed: 03 (as PI); 02 (as Co-PI)

Ongoing Research Project: 02 (as PI); 01 (as Co-PI)

Book Chapter: 15

Book Published: 01

Current Research Group:

- ✓ Hannah Yumnam-Research Scholar and **JRF-ASTEC (2022-2025)** and **DBT (2025-2028)**
- ✓ Anuradha Chakraborty– Research Scholar-**UGC Non-Net Fellow**
- ✓ Anamita Ghosh– Research Scholar-**UGC Non-Net Fellow**
- ✓ Bikram Singha- Research Scholar (**Project scientist-I, ICMR, 2025-2028**)
- ✓ Florence L Lungtau- Research Scholar-**UGC Non-Net Fellow**

Present Focused Research Area:

- Identifying unique probiotic strains from ethnic tribes in fermented based foods and beverages which can effectively outcompete gut-pathogens as an alternate successful therapeutic option, and help in providing better health benefits to North East region.
- Influences of infant breast feeding, complementary diet, host genetics and gut microbiota on previously unexplored tribal infant population from Arunachal Pradesh.

Goal:

- Promotion of good public health and hygiene practices in ethnic tribe population
- Preservation and promotion of traditional and indigenous knowledge

Professional membership

- ✓ Member of Indian Association of Veterinary Public Health Specialists.
- ✓ Member of Association of Public Health Veterinarians.
- ✓ Member of Indian Journal of Microbiology.
- ✓ Member of Association Microbiologist India (AMI)

Visiting Faculty of:

- Department of Agribusiness Management and Food Technology, North Eastern Hill University (NEHU), Tura, Meghalaya from **24thOctober-25thNovemeber’2025**.
- Department of Agribusiness Management and Food Technology, North Eastern Hill University (NEHU), Tura, Meghalaya from **12th-15th December’2023**.

Academic Assignments:

- ✓ Organising Secretary of National Conference MICRON 2016-Microbes of north-east; 22nd-24th September’2016
- ✓ Organising Secretary of National Workshop on good clinical practices (GCP), 24th-25th November’2023.
- ✓ Organising Secretary of National Seminar on Ethical Regulations in Health and Other Researches Involving Human Participation, 10th May 2024
- ✓ Organising Secretary of Awareness programme on Women’s Health, 25th February’2025

Recent Invited Talks (Selected):

1. Invited talk on ‘Exploring techniques and approaches in Microbiology’ on **25thFebruary’2026**; organised by IGNOU, Guru Charan University, Silchar, Study centre.
2. Invited talk on Probiotics and sustainable food practices in Faculty Induction Program in Education department, Assam University, Silchar under the aegis of Malviya Mission Teacher Training Centre (MMTTC) Assam University, Silchar, on **24thFebruary’2026**.
3. Invited talk on Gut microbiota and health: Power of probiotics in 3-days workshop on “Basic tools and techniques to advanced molecular diagnosis of microbial and parasitic diseases” on **31stJanuary’2026**; organised by DBT-NER Institutional level biotech Hub at Cachar College, Silchar during 29-31 January, 2026.

4. Invited talk on Impact of probiotics on gut microbiota and health in Inter-disciplinary Refresher course in Chemistry. Theme: Recent Advances in Applied Biological Chemistry: Concept and Advances, organised by Chemistry department, Assam University, Silchar under the aegis of Malviya Mission Teacher Training Centre (MMTTC) Assam University, Silchar, on **05thDecember'2025**.
5. Invited Series talk (25 lectures) on Microbiology of food spoilage and Pathogens; Visiting Faculty from **24thOctober-25thNovemeber'2025** in the department of Agribusiness Management and Food Technology, North Eastern Hill University (NEHU), Tura, Meghalaya.
6. Invited talk on Food waste management, quality control acts and standards for food safety in Inter-disciplinary Refresher course in Life Science. Theme: Recent Advances in Applied Biology, organised by Har Govind Khurana School of Life Sciences in collaboration with Advanced Level Biotech Hub, Assam University, Silchar under the aegis of Malviya Mission Teacher Training Centre (MMTTC) Assam University, Silchar, on **23rd August'2024**.
7. Invited talk on Food control and Management Strategies in Inter-disciplinary Refresher course in Life Science. Theme: Recent Advances in Applied Biology, organised by Har Govind Khurana School of Life Sciences in collaboration with Advanced Level Biotech Hub, Assam University, Silchar under the aegis of Malviya Mission Teacher Training Centre (MMTTC) Assam University, Silchar, on **27th August'2024**.
8. Invited talk on Food Microbiology and Public Health Significance, Emerging issues in Food Microbiology; Protection and Preservation of foods: Microbiological Perspective; Indicators of water and food safety quality: Microbiological Criteria; Visiting Faculty from **12th-15th December'2023** in the department of Agribusiness Management and Food Technology, North Eastern Hill University (NEHU), Tura, Meghalaya.
9. Invited talk in Three-day National workshop on “Plant Biology and Biotechnology” at Gurucharan College, Silchar from **15th to 17th May, 2023**.
10. Invited talk on ‘Sustainable and eco-friendly handicrafts empowering North East India’. Organised by Centre for Indian knowledge systems with special reference to North East studies on **07/08/2022**, Assam University, Silchar-788011, Assam.

11. Invited talk on 'Microbiology Techniques' in Five-day National workshop on 'Biotechnology: Principles and Application' organised by Department of biotechnology, Institutional Biotech Tech Hub & Bioinformatics centre, Gurucharan College, Silchar from 18th to **22th Feb, 2022**.
12. Invited talk on Awareness on Covid-19 pandemic –benefits and consequences if not followed on **26th June'2021**. 3rd International Virtual Lecture Series on: Covid-19 and its Associated Facets Organized by Department of Applied Biology, University of Science and Technology, Meghalaya in collaboration with Department of Biotechnology, NIT Arunachal Pradesh.
13. Two days invited talk on "Environment Management" during **21-22 January'2021**, MBA department, Assam University, Silchar-788011, Assam.
14. Invited talk on Mitigating the impact of COVID-19 pandemic on animal food production for human health on **11th September'2020**. International webinar on "covid-19: a big challenge for the scientific community in the 21st century" organised by department of biochemistry, Lady Keane college, Shillong.
15. Invited talk on Genetic diversity of Plasmodium falciparum isolates with special reference to merozoite surface protein-1(msp1) and merozoite surface protein-2(msp2) genes, **8th Oct'2018**; under "BIF Scheme of DBT, New Delhi" programme, Department of Bioinformatics Centre, G.C College, Silchar.
16. Invited talk on Morphological Study of Biofilm with the help of Foldscope, **5th Oct'2018**; on the workshop on 'Assembly and use of Foldscope Microscope'. Organised by Department of Botany, Pt. Deen Dayal Upadhyaya Adarsha Mahavidyalaya, Eraligool, Karimganj, Assam.
17. Invited talk on Methods and diagnostic techniques in microbiology, **5th Feb'2018**; under "BIF Scheme of DBT, New Delhi" programme, Department of Bioinformatics Centre, G.C College, Silchar.
18. Invited talk on Culture Media and Culture Methods, **6th Sept'2014**; under "BIF Scheme of DBT, New Delhi" programme, Department of Bioinformatics Centre, G.C College, Silchar.
19. Invited talk on Food and Public Health, **18th March'2013**. One day North East Zonal workshop on Entrepreneurship development for village industries with a special focus on

Food Processing. Khadi & village industries commission, ministry of MSME, Govt of India, Divisional office, Silchar, Assam.

20. Invited talk on “Recent trends in Bioinformatics, **20th February 2011**; under “BIF Scheme of DBT, New Delhi” programme, Department of Bioinformatics Centre, G.C College, Silchar.

Research Guidance:

Sl no	Name of scholar-guided	Thesis topic	Status
1.	Soumitra Nath	Role of cadmium and lead tolerant bacteria in sustainable cultivation of rice	Awarded
2	Paromita Chakraborty	Molecular characterization of Rotavirus associated with neonatal gastroenteritis of farm animals from Barak and Brahmaputra Valleys	Awarded
3	Uttaran Bhattacharjee	Studies on incident of porcine circovirus and porcine parvo virus and relation to postweaning multisystemic syndrome in Meghalaya	Awarded
4	Priyanka Mukherjee	Relative predisposition of porcine circovirus to postweaning multisystemic wasting syndrome- Role of maternal immunoprotection in Meghalaya	Awarded
5	Amit Chakraborty	Studies on the pathogenesis and prevalence of mucosal disease complex in cattles of Meghalaya	Awarded
6	C. Karuppasamy	Molecular detection and molecular drug resistance patterns of diarrheagenic Escherichia coli in infants and children of Aizwal district, Mizoram	Awarded
7	Dyuti Purkait	Studies on selected resistance traits including extended spectrum beta-lactamase among bacteria at the interface of plant-animal-human continuum	Awarded
8	Mitrajit Deb	Evaluation and nutriture of endangered western hoolock gibbon in Cachar district of Assam (India)	Awarded
9	Ramzan Ahmed	Studies on genetic diversity of Plasmodium falciparum isolates with special reference to selected surface proteins (msp1 and msp2)	Awarded
10	Sagolsem Yaiphatloi Chanu	Prevalence and characterization of methicillin resistant Staphylococcus aureus in foods of	Awarded

		animal origin and their public health significance	
11	Parijat Hazarika	Metagenomic insights into gut microbial communities of tribal population from Arunachal Pradesh	Awarded
12	Anuradha Chakraborty	Molecular insights into microbial communities of raw milk from bovine species of southern Assam	On-going
13	Hanna Yumnam	Studies of probiotic microbial communities from rice-based fermented products in ethnic groups of Southern Assam using shotgun metagenomic sequencing	On-going
14	Anamita Ghosh	Studies on gut microbiome and obesity relationship in infants of different age groups	On-going
15.	Bikram Singha	Identification of biomarkers through metagenomics approaches in infants from the tribal population of Arunachal Pradesh: a focus on breastfeeding and complementary feeding	On-going
16.	Florence L Lungtau	Assessment of anti-oral biofilm activity of exopolysaccharides and short chain fatty acids from probiotic strains of fermented soybean food Tungrymbai of Meghalaya	On-going

Publications-Peer reviewed (Selected):

1. Soumitra Nath, Mainak Paul, Puja Paul, Poulomi Chanda, Aniket Naha, Hanna Yumnam, **Indu Sharma (2026)**. Traditionally fermented dairy products harbouring multidrug-resistant bacteria with probiotic-associated characteristics, International Dairy Journal, 175 (2026) 106538, 1-12.
2. Anuradha Chakraborty, Florence Lalsiemvar Lungtau, and **Indu Sharma* (2025)** Antagonistic Effects of Probiotic Lactobacillus Strains on Multidrug-Resistant Staphylococcus aureus: Role of mecA/mecC and icaAD Gene Variants, Biotechnology and Applied Biochemistry, 1-23
3. Hanna Yumnam, Soumitra Nath and **Indu Sharma*(2025)** Brewing Traditions of Northeast India, South Assam: Exploring Rice Beer's Cultural Significance and Indigenous Craftsmanship, Biotechnology and Applied Biochemistry, 1-11.

4. Hanna Yumnam and **Indu Sharma*** (2025). Beneficial Microbiota in Indigenous Fermented Foods and Beverages Ethnic and Indigenous Food Technologies-Role in Climate and Health Resilience, 1:289-310, Springer.
5. Hanna Yumnam, Soumitra Nath, Pragya Chakraborty and **Indu Sharma*** (2025). Assessment of potential probiotic lactic acid bacteria in rice-based fermented products of Southern Assam, Northeast India, *Frontiers in Microbiology* 16 (doi: 10.3389/fmicb.2025.1536593), 1-15
6. Hanna Yumnam, Parijat Hazarika, **Indu Sharma*** (2024). Metagenomic insights into traditional fermentation of rice-based beverages among ethnic tribes in southern Assam, Northeast India. *Frontiers in Microbiology*, 15:1410098; pp: 1-10. IF=4.0
7. Soumitra Nath*, Ashim Das Astapati, Aniket Naha, **Indu Sharma**, Maulin P. Shah (2024). Algal-based membrane bioreactors for effective removal of hazardous and toxic contaminants: A comprehensive review. *Current Research in Biotechnology* 7(2024) 100201; pp1-16. IF=3.6
8. Parijat Hazarika, Indranil Chattopadhyay, Mika Umpo, Yashmin Choudhury and **Indu Sharma*** (2022). Elucidating the gut microbiome alterations of tribal community of Arunachal Pradesh: perspectives on their lifestyle or food habits. *Scientific Reports*; (2022) 12:18296. IF= 4.99; ISSN 2045-2322
9. Parijat Hazarika, Indranil Chattopadhyay, Mika Umpo, Yashmin Choudhury and **Indu Sharma*** (2022). Studies on antimicrobial stress with reference to biofilm formation of faecal microbial communities from Apatani tribe of Arunachal Pradesh. *Indian Journal of Medical Microbiology*; pp: 1-7. **IF=1.347**; ISSN 1998-3646.
10. K. Chellapandi, S. Subbarayan, S. De Mandal, L. Ralte, N. Senthil Kumar, T. K. Dutta and **Indu Sharma** (2022). Beneficial role of skim milk against drug-resistant *Escherichia coli* associated with pediatric diarrhoea, *New Microbe and New Infect* 2022; 48: 100999.**IF=1.94**; ISSN 2052-2975.
11. Parijat Hazarika, Indranil Chattopadhyay, Mika Umpo, Yashmin Choudhury and **Indu Sharma*** (2021). Phylogeny, Biofilm Production, and Antimicrobial Properties of Fecal Microbial Communities of Adi Tribes of Arunachal Pradesh, India, *Applied Biochemistry and Biotechnology* volume 193, pages1675–1687. **IF=2.92**

12. Soumitra Nath, Monisha Roy, Jibalok Sikidar, Bibhas Deb, **Indu Sharma**, Anupam Guha (2021). Characterization and in-vitro screening of probiotics potential of novel Weissella confuse strain GCC_19R1 isolated from fermented sour rice. Current Research in Biotechnology; 3 (2021) 99–108; doi.org/10.1016/j.crbiot.2021.04.001; **Corpus ID: 234899533**
13. Uttaran Bhattacharjee, Arnab Sen and **Indu Sharma**^{1*} (2021). Development of cost-effective quantitative PCR method for parallel detection of porcine circovirus2 and porcine parvovirus in perspective of North-eastern India. Tropical Animal Health and Production; 53:177; <https://doi.org/10.1007/s11250-021-02609-2> **IF: 1.33; Corpus ID: 231987516**
14. **Indu Sharma**^{1*}, Surajit Chanda² and Sagolsem Yaiphathoi³ (2021). In silico screening of some phytochemicals for treating urinary tract infection (UTI) targeting fimH gene. African journal of biological sciences; 3(1):157-164. <https://doi.org/10.33472/AFJBS.3.1.2021.157-164>. **IF: 1.08**
15. Sagolsem Yaiphathoi and **Indu Sharma**^{*} (2020). Characterization and Phylogenetic Reconstruction of MecA and Pvl Genes of Methicillin Resistant Staphylococcus aureus from Retail Meats in North East India. Indian Journal of Natural Sciences; 10(62): 27661-27670. **IF: 1.62**
16. Ramzan Ahmed and **Indu Sharma**^{*1} (2020). Genetic diversity and multiplicity of infection in Plasmodium falciparum isolates causing uncomplicated malaria infections in North-East India. National conference on Innovations in Biological Sciences, 10th January'2020; Elsevier: <https://ssm.com/abstract=3554236>
17. **Indu Sharma**^{*1}, L. Nungshi Henbi, Yaiphathoi (2019). Detection of virulence properties in E. coli isolated from packed food products from North East India. Journal of Biotech research, (10): 255-261
18. Karuppasamy Chellapandi, Lalsanglura Ralte, Surajit De Mandal, Nachimuthu Senthil Kumar, Tapan Kumar Dutta, **Indu Sharma** (2019). Diffusely Adherent E. coli Burden in Low Socio-Economic Pediatric Population. Journal of Medical Bacteriology, 8 (5,6): pp.44-55

19. Yaiphathoi S, **Sharma I*** (2019). *Spa* typing and prevalence of methicillin-resistant *Staphylococcus aureus* isolated in retail meats from Silchar, Assam, India. *Advances in Animal and Veterinary Sciences*, 7(8): 694-700. **IF: 0.26**
20. Mitrajit Deb, Shubhadeep Roychoudhury, Parimal C. Bhattacharjee, **Indu Sharma**, Sunil Nautiyal, Petr Sláma (2019). Distribution of western hoolock gibbons and nutritional status of food plants in cachar district of assam, India: reaching out to local communities for conservation. *Acta universitatis agriculturae et silviculturae mendelianae brunensis*, 67(1): 25-39. **IF: 0.47**
21. Ahmed R, Devnath K, Bhowmik D, **Sharma I*** (2018). High-sensitivity detection of human malaria parasites by the use of rapid diagnostic tests and nested polymerase chain reaction in burdened communities of North East India. *Indian J Med Microbiol* 36: 541-6. **IF: 1.112**
22. Amit Kr Chakraborty, Priyanka Mukherjee, Amarjit Karam, Samir Das, Luit Barkalita, Kekungo Puro, Rajkumari Sanjukta, Sandeep Ghatak, Ingudam Sakuntala, Ram Gopal Laha, Prabodh Bora, S.V. Ngachan, **Indu Sharma**, Arnab Sen^{1*} (2018). Evidence of BVDV in pigs from North Eastern part of India- Genetic Profiling and Characterisation. *Open Virol J*, 12: 03-13. **IF: 1.60**
23. Soumitra Nath and Bibhas Deb and **Indu Sharma** (2018). Isolation of toxic metal-tolerant bacteria from soil and examination of their bioaugmentation potentiality by pot studies in cadmium- and lead-contaminated soil. *International Microbiology* 21 (1-2), 35-45. **IF: 0.796**
24. A.K. Chakraborty, A. Karam, P. Mukherjee, L. Barkalita, P. Borah, S. Das, R. Sanjukta, K. Puro, S. Ghatak, I. Shakuntala, **I. Sharma**, R. G. Laha, A. Sen^{*} (2018). Detection of classical swine fever virus E2 gene in cattle serum samples from cattle herds of Meghalaya. *Virus Dis.* <https://doi.org/10.1007/s13337-018-0433-9>. **IF: 0.78**
25. Mukherjee P, Karam A, Singh U, Chakraborty AK, Huidrom S, Sen A, **Sharma I** (2018). Seroprevalence of selected viral pathogens in pigs reared in organized farms of Meghalaya from 2014 to 16, *Veterinary World*, 11(1): 42-47. **IF: 0.57**
26. Priyanka Mukherjee, Amarjit Karam, Luit Barkalita, Prabodh Borah, Amit Kr Chakraborty, Samir Das, Kekungo Puro, Rajkumari Sanjukta, Sandeep Ghatak, Ingudam Shakuntala, Ram Gopal Laha, Arnab Sen, **Indu Sharma** (2018). Porcine

- circovirus 2 in the North Eastern region of India: Disease prevalence and genetic variation among the isolates from areas of intensive pig rearing. *Acta Tropica* 182 (2018) 166–172. **IF: 1.84**
27. **Sharma I***, Saikia A, Chakraborty P. (2017). Epidemiology of malaria and MSP-2 gene-based genetic diversity of *Plasmodium falciparum* from patients attending community health centre, Jiribam, Manipur. *Indian J Med Microbiol* 2017; 35:410-4. **IF: 1.149**
28. P. Mukherjee¹, R. Dewry, A. Karam, U. Singh, A.K. Chakraborty, S. Das, K. Puro, R. Sanjukta, S. Ghatak, I. Shakuntala, R.G. Laha, S.V. Ngachan, A. Sen* and **I. Sharma (2017)**. Comparative of enumeration of cytokine immune response in PBMC'S of sows and piglets infected with porcine circovirus and classical swine fever virus. *Indian J. Comp. Microbiol. Immunol. Infect. Dis.* Vol. 38 No. 2 (July-Dec), 2017: 136-145
29. Karuppasamy Chellapandi, Tapan Kumar Dutta¹, **Indu Sharma**, Surajit De Mandal, Nachimuthu Senthil Kumarand, Lalsanglura Ralte (2017). Prevalence of multi drug resistant enteropathogenic and enteroinvasive *Escherichia coli* isolated from children with and without diarrhea in Northeast Indian population *Annals of Clinical Microbiology and Antimicrobials*, 16:49. DOI 10.1186/s12941-017-0225 x. **IF: 2.37**
30. D. Purkait, A. Ahuja, U. Bhattacharjee, A. Singha, K. Rhetso, T. K. Dey, S. Das, R. K. Sanjukta, K. Puro, I. Shakuntala, A. Sen, A. Banerjee, **I. Sharma**, R. S. Bhatta, M. Mawlong, C. Guha, N. R. Pradhan, S. Ghatak (2016). Molecular Characterization and Computational Modelling of New Delhi Metallo- β -Lactamase-5 from an *Escherichia coli* Isolate (KOE3) of Bovine Origin. *Indian Journal of Microbiology*, 56 (2), 182-189. DOI: 10.1007/s12088-016-0569-5. **IF-1.143**
31. Chakraborty P, Bhattacharjee MJ, **Sharma I**, Pandey P (2016). Unusual rotavirus genotypes in humans and animals with acute diarrhoea in Northeast India. *Epidemiology and infection*, 1-10. DOI: 10.1017/S0950268816000807. **IF-2.54**
32. **Indu Sharma*¹** and Kashmiri Das (2016). Detection of *invA* Gene in Isolated *Salmonella* from Marketed Poultry Meat by PCR Assay. *Journal of Food Processing & Technology*, 7: 564. doi:10.4172/2157-7110.1000564. **IF-2.3**

33. **Indu Sharma**^{*1} and Diajee Choudhury (2015). Detection of Pel A Gene in *P. aeruginosa* from Clinical Samples Using Polymerase Chain Reaction with Reference to Biofilm Production in N.E India. Indian journal of applied research, 4(10): 119-121.
34. **Indu Sharma**^{*1}, Deepanjali Rabha, Susmita Das and Devjani Ningombam (2015). Hemolytic activity and antibiotic resistance of *Aeromonas* sp. isolated from marketed fish. European Journal of Pharmaceutical and Medical Research, 2(4): 304-312.
35. Uttaran Bhattacharjee, Anuj Ahuja **Indu Sharma**, Amarjit Karam, Amit Kumar Chakraborty Sandeep Ghatak, Kekungu Puro, Samir Das Ingudam Shakuntala Sarbani Giri, R.K. Pegu, R. Laha, A. Pattanayak, S.V. Ngachan, ArnabSen (2015). Complete Genome Sequence of Emerging Porcine Circovirus Types 2a and 2b from India. Genome Announcements, 3(2): e00087-15. **IF-1.18**
36. P. Chakraborty, N. N. Barman and **I. Sharma**^{*} (2015). Restriction fragment length polymorphism analysis of rotavirus VP7-encoding gene from humans and animals of Northeast India: a relative study of Indian and global isolates. Epidemiol. Infect. Page 1-9, doi:10.1017/S0950268814003343. **IF-2.54**
37. Mitrajit Deb¹, Sudip Choudhury², **Indu Sharma**³, Parimal C. Bhattacharjee⁴, Grzesiek Formicki⁵, Jozef Bulla⁶ and Shubhadeep Roychoudhury^{1*} (2014). Nutritional stress in Western hoolock gibbon due to adverse changes in diet pattern. *J Microbiol Biotech Food Sci*. doi: 10.15414/jmbfs.2014.4.2.152-156.
38. Nath S, Deb B, **Sharma I**, Pandey P. *Pseudomonas aeruginosa* SN4 enhances Seedling Growth of *Oryza sativa* in Cadmium Contaminated Soil. Curr World Environ **2014**;9(2).
39. Nath S, Deb B, **Sharma I**, Pandey P (2014) Role of Cadmium and Lead Tolerant *Pseudomonas aeruginosa* in Seedling Germination of Rice (*Oryza sativa* L.). Journal of Environmental and Analytical Toxicology. 4: 221. doi: 10.4172/2161-0525.1000221. **IF-1.51**
40. **Indu Sharma**^{*1} and Heerabati Devi². Prevalence of Plasmodium Falciparum and Plasmodium Vivax Associated Infections in Malaria Suspected Patients Attending Community Health Centre, Manipur (Jiribam) N.E India. Indian journal of applied research. **2014**; 4(5): 517-518. ISSN - 2249-555X

41. **Indu Sharma¹**, T. L Devi¹ and S.S Sen². Significance of Widal test in diagnosis of Typhoid fever in Assam, India. World journal of Pharmacy and Pharmaceutical Sciences. **2014**; 3(3): 1719-1724.
42. **Indu Sharma¹**, Ane Laskar², Deepjyoti Paul³. Studies on Non-Cathether Related Urinary Tract Infections from Assam, North-East India. Online International Interdisciplinary Research Journal, **2014**; 4(2): 88-94.
43. **Indu Sharma¹**, A. Brinty². Isolation and Identification of *Staphylococcus Aureus* from Bovine Mastitis Milk and Their Drug Resistance Patterns in Silchar Town Dairy Farms, N.E India. Online International Interdisciplinary Research Journal. **2014**; 4: 256-260.
44. ***I Sharma**, JA Mazumdar. Assessment of bacteriological quality of ready to eat food vended in streets of Silchar city, Assam. Indian Journal of Medical Microbiology, **2014**; 32(2): 169-171. **IF-1.006**
45. **Indu Sharma***. Microbial analysis of raw meat and its environment in retail shops in Cachar district, Assam, North-East India. The Journal of Food Technology. Photon 105 (**2013**) 135-138.
46. Soumitra Nath^{1*}, **Indu Sharma²**, Bibhas Deb¹ and Virender Singh³. Isolation of Heavy Metal Resistant Bacteria for Sustainable Crop Production. *International Journal of Bio-resource and Stress Management* **2013**; 4(2):266-269.
47. Soumitra Nath^{1*}, Bibhas Deb¹, **Indu Sharma²**, Piyush Pandey². Isolation and characterization of heavy metal resistant bacteria and its effect on shoot growth of *Oryza sativa* inoculated in industrial soil. Annals of Plant Sciences. **2013**,02 (06), 188-193.
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