

CURRICULUM VITAE



Prof. Dr. Anjana (Maharjan) Singh
Kathmandu, Nepal
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Academic Qualification:

1. Post Doctoral, Fulbright Scholar, University of Virginia, USA, 2008 Sept-2009 Feb
2. Whole genome association studies: Understanding the Genetic basis of susceptibility to infectious diseases. American Society of Tropical Medicine and Hygiene, AMA PRA Category Credit 1, Dec 6, USA, 2008
3. Ph. D., Microbial Biotechnology, School of Life Sciences, Jawaharlal Nehru University, New Delhi 14th April, 2004
4. M. Sc. Microbiology, Central Department of Microbiology, Tribhuvan University, Kathmandu, 1992, Division- Distinction
5. B. Sc. Biology, Tri Chandra Multiple Campus, Tribhuvan University, Kathmandu, 1989, Division- Distinction (First class first)
6. I. Sc. Biology, Amrit Science College, Tribhuvan University, Kathmandu, 1987, Division- Second
7. S. L. C., St. Mary's High School, Lalitpur, Nepal, 1983, Division- First

Work Experience:

1. Chief Editor, Journal of Science and Technology, Tribhuvan University, 2025
2. Professor, Department of Microbiology, Tribhuvan University, Nepal, 8th May, 2009
3. Associate Professor, Central Department of Microbiology, Tribhuvan University, Nepal, 28th March, 2005- 7th May, 2009
4. Lecturer, Central Department of Microbiology, Tribhuvan University, Kirtipur, Nepal, 25 June, 1997 - 27th March, 2005
5. Assistant Lecturer, Central Department of Microbiology, Tribhuvan University, Kirtipur, Nepal, November 17, 1994 to June 24, 1997
6. Part Time Lecturer, Tri-Chandra Multiple Campus, Tribhuvan University, Nepal, 1994
7. Teaching in Rupy's International School, Nepal, 1990
8. Teaching in Laxmi Gyanarjan Primary School, Nepal, 1984

Acting Head of the Department, Central Department of Microbiology, Tribhuvan University, Kirtipur, Nepal, 31st Jan. 2004-25th Sept. 2004

Head of Department, Central Department of Microbiology, Tribhuvan University, Kirtipur, Nepal, 26th Sept. 2004-25th Sept. 2008

Central Department of Microbiology, Tribhuvan University, Kirtipur, Nepal, 14th Oct 2012 (28 Asoj 2069)-11th Nov 2016 (26 Kartik 2073)

Associate Academician: Nepal Academy of Science and Technology, 23/04/2010 AD-20/01/2015 AD (BS 2067.1.10-BS 2071/08/06)

Academician: Nepal Academy of Science and Technology, 21 Jan 2015 till date

Masters' Theses Supervised:

1. Utilization of tea waste as a substrate for microbial protein production, Student-Buddhi Sagar Ghimire, 1999
2. Infection of foot ulcers in leprosy patients, Student- Krishna Kandel, 1999
3. Insecticidal activities and immunology of delta-endotoxins of *Bacillus thuringiensis* isolated from insect samples of Nepal, Student- Krishna Subedi, 1999
4. Screening of brewing yeast from *Murcha* and production of grape wine, Student- Chenu Gongol, 1999
5. Screening of yeast from *Murcha* and observe its rate of alcohol production in naked barley with combination of fungi, Student-Leena Rajbhandari, 1999
6. Screening of aflatoxin producing *Aspergillus flavus* isolated from maize and study on their growth suppression by various chemical agents, Student-Harish Chandra Shrestha, 2000
7. Bacterial analysis of street food in relation to child health, Student- Munmun KC, 2000
8. Antimicrobial activity of essential oils of some common spices, Student- Sapana Sharma, 2000

9. Serodiagnosis of syphilis among clinically suspected patients visiting Bir Hospital and the risk of HIV and Hepatitis B infection among syphilis patients. Student-Sunita Pokharel
10. Study on impairment of liver, kidney and pancreas in Hepatitis B and C positive cases 2004, Student-Amrit MS Maharjan
11. Serostatus of rheumatoid factor, C-reactive protein, antistreptolysin-O and urine in patents visiting OM Hospital and research centre 2004, Student- Raj Kumar Karki
12. Seroprevalence of TORCH in Nepalese women of childbearing age and evaluation of biochemical parameters 2004. Student-Pradeep Kafle
13. Study of bacteraemia in malnourished children admitted to Kanti Children's Hospital, 2005. Student-Prakash Chandra Amatya
14. Cross-sectional study of respiratory pathogenes and their antibiotic susceptibility pattern in Tribhuvan University Teaching Hospital, 2005. Student-Uma Shrestha
15. Biodiversity and bioactivity of endophytic fungi of *Tsuga dumosa* D. Don, 2005. Student- Anjana Upadhyaya
16. Microbiological and physico-chemical analysis of alcoholic beverages of Kathmandu Valley, 2005. Student-Bhim Shrees.
17. Vermicomposting, enrichment of vermicompost by *Azotobacter chroococcum* and response on *Phaseolus* bean, 2006. Student-Yukti Basnet
18. Loop-mediated isothermal amplification for direct detection of *Mycobacterium tuberculosis* in sputum samples, 2006. Student- Ajaya Poudel
19. Study of delta endotoxin immune cross reactivity of *Bacillus thuringiensis* isolates from Khumbu base camp of the Everest Region, 2006. Student- Upendra Thapa Shrestha
20. Study of prevalence of enteric fever and the assessment of Widal test in the diagnosis of typhoid fever, 2006. Student-Samira Khatiwada
21. Study of prevalence of intestinal parasitic infection among HIV seropositive subjects and high risk group for HIV infection in Bagmati Zone, Nepal, 2006, Student-Navaraj Raj Adhikari
22. Assessment of therapeutic of anti-malarial drug (chloroquine) for *Plasmodium vivax* in Kanchanpur district, Nepal, 2006. Student- Mr. Dhan Kumar Pant
23. Study on intestinal infections by parasite and some bacteria among elderly people of Kathmandu Valley. 2006. Student-Bikas Shakya
24. Microbial study of hospital environment and carrier pattern study among staff in Nepal Medical College Teaching Hospital. 2006. Student- Jyoti Pant
25. Assessment of hazard analysis critical control point (HACCP) from restaurants of Kathmandu metropolitan city with respect to environmental condition. 2006. Student-Poonam Thapa
26. Isolation and identification of the etiological agent of pulmonary tuberculosis in patients visiting national tuberculosis centre, Thimi, Bhaktapur. 2006. Student-Sudeep Singh
27. Microbial flora among visitors and the hospital environment in ICU and SICU at TUTH. 2006. Student- Shishir Sharma
28. Study on possible contribution of horizontal transmission in neonatal sepsis at TUTH. 2006. Student-Sangeeta Shrestha
29. Effect of dual inoculation of *Rhizobium leguminosarum* biovar *phaseoli* and *Piriformospora indica* Verma et al. on *Phaseolus vulgaris* grown in the soil treated with vermicompost. 2006. Student- Jeny Shrestha
30. Study on the effect of co-inoculation of *Bradyrhizobium japonicum* and *Piriformospora indica* Verma et al. on *Glycine max* (L.) Merr. 2006. Student- Rajani Shrestha
31. A study on microbiology of urinary tract infection at Tribhuvan University Teaching Hospital Kathmandu Nepal. 2006. Student-Shova Khanal
32. Role of *Glomus microcarpum* in the production of wheat (*Triticum aestivum*) plants. 2007. Student- Nirmala Dhungana
33. Effect of dual inoculation of *Azotobacter chroococcum* and *Piriformopora indica* Verma et al on *Oryza satwal* corn in the soil treated with vermicompost. 2007. Student-Kamil Prajapati
34. Microbiological study on gastroenteritis of children from Kanti Children's Hospital with reference to *Cyclospora* and rotavirus infection. 2007. Student- Shradha Chipalu
35. Comparative evaluation of microscopic and cultural examination in bacterial meningitis among the patients attending Kanti Children Hospital, 2008. Student-Rojita Tuladhar
36. Assessment of drinking water quality of Madhyapur -Thimi and study of anti bacterial effect of lemon juice against bacterial isolates. 2007. Student- Bina Laxmi Jayana
37. Tuberculosis and human imuno-deficiency virus co-infection in suspected TB patients, 2008. Student-Sunita Maharjan
38. Bacterial isolates and their antibiogram from wounds and abscesses of surgical outpatients visiting Bir hospital, 2008. Student-Prashamsa Karkee
39. Pattern of bacterial isolates and antibiogram from open wound infection among the indoor patients of Bir Hospital, 2008. Student-Kiran Kumari
40. Comparative study of polymerase chain reaction (PCR) and loop-mediated isothermal amplification (Lamp) for direct detection of *Mycobacterium tuberculosis* in sputum, 2008. Student-Binita Koirala
41. Steroid biosynthesis and embryonic stem cell proteins as putative predictive breast cancer biomarker. Student-Khagendra Koirala

42. Enteropathogenic microorganisms in children under ten years of age attending Kanti Children's Hospital, 2008. Student-Sharmila Tandukar
43. Estimation and projection of the trend of HIV/AIDS in Nepal till 2010 using estimation and projection package (EPP) software, 2008. Student-Manoj Khadka
44. Estimation of incidence of HIV infection in Nepal by mode of transmission among various exposure groups, 2008. Student-Rumika Maharjan
45. Immunological screening of Actinomycetes of Khumbu region of Nepal, 2008. Student-Suman Thapa
46. An evaluation of 5% NaOCl microscopy method for the laboratory diagnosis of pulmonary tuberculosis, 2008. Student-Suman Lama
47. Assessment of arsenic tolerant bacteria from arsenic contaminated groundwater in Nawalparasi district of Nepal, 2008. Student-Shree Krishna Shrestha
48. Perspectives of arsenic exposure and asymptomatic microbial infections in Nawalparasi District, 2008. Student-Narendra Maden
49. Evaluation of antimicrobial activities of medicinal plants against some fungi and antibiotic resistant bacteria, 2008. Student-Bishnu Prasad Marasini
50. Evaluation of antibacterial activities of some medicinal plants, 2008. Student-Naresh Maharjan
51. The study of antibacterial activity of some common spices, 2008. Student-Dinesh Maharjan
52. Study on nalidixic acid resistant *Salmonella* spp susceptibility to ciprofloxacin from blood sample of patients visiting Shree Birendra Hospital, Chhauni, 2008. Student-Barsha Gurung
53. Strain typing of *Mycobacterium leprae* isolate from Nepal using variable number of tandem repeats, 2009. Student-Pratibha Thapa
54. Use of minisatellite genetic profiling with clinical analysis of leprosy patients in Nepal, 2009. Student- Binita Adhikari
55. Bacteriology of wound infection among patients visiting B & B Hospital and antibiotic sensitivity profile of the isolates, 2009. Student-Sarita Maharjan
56. Seroprevalence of HIV among the blood donors and delivery cases visiting maternity ward of AMDA Hospital of Damak, 2009. Student-Dinesh Dhungana
57. Strain typing of *Mycobacterium leprae* isolates from Nepal using variable no. of tandem repeats. 2009. Student- Pratibha Thapa
58. Use of Minisatellite genetic profiling with clinical analysis of leprosy patients in Nepal (2009). Student- Binita Adhikari
59. Screening of *Staphylococcus aureus* as nasal carrier from hospital personnel of Shree Birendra Hospital Cahhauni (2009). Student- Juni Thulunga
60. *In vitro* screening of antifungal activity of rhizospheric bacteria against common phytopathogens and possible role of chitinase in antifungal activity (2010). Student- Hari Krishna Devkota
61. Prevalence of intestinal parasitic infections among the Bhutanese children of Jhapa district, Nepal (2011) Student-Narayan Bhattarai
62. Comparative study of tripartite diagnostic techniques of tuberculosis (2012) Student-Sabina Chalise
- 63 Bacteriology of surgical site infection and study of antimicrobial susceptibility pattern among the patients visiting Shree Birendra Hospital (2012) Student- Shrijana Maharjan
64. Antibigram and B-lactamase production test of multidrug resistant *Staphylococcus* species from different clinical specimens (2012). Student- Chandeswori Shrestha
65. Intestinal parasitic infections among patients attending Nepal Medical College Teaching Hospital, Kathmandu (2012). Student- Poonam Kumari Agrawal
66. Time related changes in bacteriological profile of burn wound and their antibiogram (2012). Student- Santosh Rajbahak
67. Extended spectrum β -lactamase and metallo β -lactamase producing multidrug resistant Gram negative bacteria among patients with renal failure (2013). Student-Anil Pant
68. Epidemiology of intestinal parasites in a Rai community of Nuwakot District (2013). Student-Raju Pant
69. Study on prevalence of enteric fever from blood samples of suspected patients and their antibiotic susceptibility patterns (2013). Student-Nisha Laudari
70. Isolation and characterization of ESBLs and AmpC coproducers from clinical samples at National Public Laboratory, Nepal. Student- Sher Bahadur BK
71. Analysis of drinking water of Kathmandu valley during the monsoon season (2014). Student-Vivek Khanal
73. *Piriformospora indica* Verma *et al.* inoculated plants of *Lycopersicum esculentum* CLA 1131 cultivated with vermicompost (2014). Student- Kenneth Shahi
74. Co-association of influenza virus and upper respiratory tract bacterial pathogens among Nepalese pediatric patients with influenza like illness. (2014) Student- Bishwanath Acharya
75. Bacterial profile in post tracheotomised patients with special reference to *Acinetobacter baumannii* (2014) Student- Eliza Thapa
76. Evaluation of Gene expert MTB/RIF assay for rapid diagnosis of *Mycobacterium tuberculosis* complex and detection of rifampicin resistance (2014). Student- Sirita Kattel.
77. Contamination of patients' medical chart: a potential source of nosocomial infection. (2014) Student- Roshan Thapa
78. Emergence of *Salmonella paratyphi* a as the cause of enteric fever (2015). Student-Navaraj Poudyal

79. Microbiological Diagnosis of lower respiratory tract infection (2015). Student- Prabin Tamang
80. Multidrug resistant bacterial isolates producing extended spectrum B-lactamases among urinary tract infected patients. (2015) Student-Sarita Dahal
81. *Salmonella* species isolation from enteric fever suspected patients visiting Bir Hospital. (2015) Student- Dharendra Niroula
82. Status of immunological and nutritional indicators among HIV patients taking anti-retroviral therapy (ART) visiting National Public Health Laboratory (NPHL), Nepal. (2015). Student- Tika Bahadur Thapa
83. Biofilm production and inducible clindamycin resistance in staphylococcal isolates from clinical specimens. (2015) Student-Sudhir Doranga
84. Quality assessment of herbal medicines and products with reference to selected microbial isolates (2015). Student-Prakash Dhakal
85. Quality assessment of herbal medicines and products and with reference to selected microbial isolates (2015) Student-Prabhu Raj Joshi.
86. Extended spectrum β -lactamase producing multidrug resistant *Escherichia coli* at a community hospital of Kathmandu. (2015) Student-Santosh Dahal.
87. Comparative profile of biofilm producing and non –producing *Acinetobacter calcoaceticus-Baumannii (acb)* complex from different clinical specimens (2015). Students-Devi Acharya
88. Detection of *Mycobacterium leprae* in blood and relevance to blood or organ donation (2017). Student-Nischal Pokhrel
89. Prevalence of multidrug resistant tuberculosis among the pulmonary tuberculosis patients (2017). Student- Meena Bharati
90. Drug resistance in pulmonary tuberculosis patents (2017). Students- Sajina Maharjan
91. Prevalence of intestinal parasitic infection among people living with HIV/AIDS visiting a central hospital of Kathmandu, Nepal. (2017) Student Homnath Sharma
92. Antibiotic susceptibility pattern of bacterial isolates from septicaemia neonates and neonatal unit of tertiary care hospital of Nepal (2017) Nilesh Kumar Karna
93. Prevalence of Methicillin resistant *Staphylococcus aureus* (MRSA) in anterior nares of dairy workers and dairy products (2017). Student- Ranjana KC
94. Effect of natural product on correlation of biofilm formation with multidrug resistance and ESBL production in *Pseudomonas aeruginosa* (2018). Student-Bhagawati Khadka
95. Quality analysis of ground water from Bagmati river basin (2018). Student-Pabitra Bhandari
96. Molecular detection of blaNDM-1 gene among metallo- β -lactamase producing *Klebsiella pneumoniae* from different clinical specimens at tertiary care hospital. (2018) Student -Kiran Chaudhary
97. Microbial contamination in Museum specimens in National Museum, Swayambhu. (2018) student-Ramesh Chaudhary
98. Screening of plastic degrading *Psuedomonas* spp. form soil. (2018) Student- Gobinda Badahit
99. Diversity of midgut and salivary gland microbiota in dengue vectors *Aedes aegypti* (Linnaeus) and *Aedes albopictus* (skuse) (2018) Student-Sunita Baral
100. Antimicrobial effect of guava leave extract in correlation with biofilm formation and matallo B lactamase production in multi resistant *Pseudomonas aeruginosa*. (2019) Student-Rabina Thapa
101. Cellulose activity of Microbial flora from the Books of Natural History Museum Library, Swayambhu, Nepal. (2019) Student-Rohit Chaudhary
102. Molecular determination of blaOXA-23 gene from carbapenem resistant *Acinetobacter baumannii*. (2019) Student- Laxmi Neupane
103. Detection of blaKPC gene from carbapenemase producing *Klebsiella pneumoniae* from different clinical specimens at tertiary care hospital in Nepal. (2020) Student-Rakshya Baral
104. Student-Detection of class 1 intergron in ESBL, MBL and AmpC β -lactamases producing *Pseudomonas aeruginosa* isolates from clinical specimens. (2021) Student-Cristina Khadka
105. Characterization of thermostable cellulose from *Bacillus licheniformis* isolated from soil. (2022). Student-Manita Shyaula
106. mcr-1 gene in colistin resistant *Escherichia coli* and *Klebsiella pneumoniae* isolated from raw chicken meat. (2022)-Milka Nakarmi
107. Isolation, identification and optimization of culture condition of bioflocculant producing *Bacillus* spp and its application in aquaculture wastewater treatment. (2022)-Pritam Sah
108. Prevalence of Gram negative bacteriological agents on surgical wound infections with special reference to *Klebsiella pneumonia* (2023)-Renuka Maharjan
109. Prevalence of Gram positive bacteriological agents on surgical wound infections with special reference to *Staphylococcus aureus* (2023)-Prativa Poudel
110. Quality analysis of drinking water in Pokhara metropolitan city. (2024)-Ramesh Choudhary
111. Isolation of lytic bacteriophage against *Salmonella Typhi* for its use as potential alternative to antibiotics. (2024)- Sujit Tandukar
112. Occurrence of Quinolone Resistance qnr Genes in *Salmonella enterica* Isolates from Raw Chicken Breast Meat. (2025) Srishti Sapkota

PhD guidance: awarded 6 (3 supervised and 3 co-supervised) and 2 ongoing

PhD's already awarded

1. Identification of rpoB gene (β -sub unit of DNA dependent RNA polymerase) in rifampicin resistant *Mycobacterium tuberculosis* among retreatment tuberculosis patients in Nepal. Dhruva Khadka 2019/8/7
2. Incidence of dengue and diversity of dengue virus in human and Aedes vector. Reshma Tuladhar 2019/10/21 (Co-supervised)
3. Intercellular adhesion (*ica*) locus and its Role in Biofilm Formation by Staphylococcal isolates. Sarita Manandhar 2019/10/25 (Co-supervised)
4. Screening and characterization of bioactive actinomycetes and their products from Nepal against multidrug resistant bacteria and fungi. Binod Lekhak 2020/11/26 (Co-supervised)
5. Molecular characterization of carriage and meningitis associated *Neisseria meningitidis* in Nepal. Supriya Sharma 2021/11/29
6. Transmission Dynamics of Visceral Leishmaniasis in Nepal. Shaila Basnyat. 2022/09/01 (16 Bhadra 2079)

On going research:

1. AMR on hospital strains.
2. Anaerobic and facultative bacterial microorganisms on surgical wound sites.

Workshop / Seminar / Conference:

1. Second National Conference and Eleventh General Meeting of Botany, Dec. 23, 1994
2. Second National Conference on Science & Technology, Royal Nepal Academy of Science & Technology, Nepal, June 8-11, 1994
3. First national conference on Microbiology, April 8-9, 1994, Kathmandu, Nepal
4. Workshop on biology and management of Orobranche, May 6, 1997, Kathmandu, Nepal
5. Seminar on environment status of the Kathmandu Valley, Nepal, June 10, 1997, (NIST)
6. Novel bacterial world (Organized by Padma Shree Social Organization), July 29- 31, 1997, Kathmandu, Nepal
7. Talk programme on food adulteration, July 31, 1998 (WIST)
8. First national symposium in conjunction with third national convention of NAMLS, Nepal, November 14- 15, 1998
9. Seminar on bacterial resistant & polymerase chain reaction, Nepal, November 28, 1998
10. Young scientists congress (Organized by RECAST and Ministry of Science and Technology) July 15- 16, 1999, Kathmandu, Nepal
11. International conference on biotechnology & biodiversity (ICBB), organized by Nepal Biotechnology Association (NBA), co-organisers Central Department of Botany, Tribhuvan University (CDB, TU) and Royal Nepal Academy of Science and Technology (RONAST), November 14-16, 2000, Kathmandu, Nepal
12. 24th All India Cell Biology Conference, November 24-26, 2000, Jawaharlal Nehru University, School of Life Sciences, Special Centre for Molecular medicine, New-Delhi, India
13. Thermophiles 2001. International conference on Biology and Biotechnology of Thermophilic Microbes, Dec. 3-7, New-Delhi (India)
14. Training Workshop on "Molecular Taxonomy of the Symbiotic Fungi". Dec 1-21, 2003, School of Life Sciences, Jawaharlal Nehru University, New Delhi, India
15. INDO-US Workshop and National Congress on Molecular Biology and Biotechnological Symbiosis. March 23-28, 2003, Jawaharlal Nehru University, School of Life Sciences, New Delhi, India
16. Workshop on Scientific methodology and development of Research grant Application in conjunction with For a Better tomorrow: Sustainable Solid Waste management in Developing Countries, January 9-10th, 2006, Kathmandu, Nepal, Organized by Kathmandu University and International Foundation for Science (IFS), Sweden, Kalmar University and LAQUA group, Sweden
17. Workshop on the role of environmental performance verification for the safe water in Nepal, Nov. 30th-Dec 1st, 2006. Jointly organized in consultation with National Arsenic Steering Committee (Nepal) and management support from the Ontario Centre for Technology Advancement (OCETA) and Canadian International Development Agency (CIDA), **Canadian Cooperation Office-Nepal (CCO)**, Canadian Centre for International Studies and Cooperation (CECI), International Development research centre (IDRC), International Centre for Intergrated Mountain Development (ICIMOD)
18. National Seminar on present status and future prospects of biotechnology development in Nepal, March 14-15, 2007, Khumaltar, Nepal
19. One day seminar on Biomedical Sciences, 8th April, 2007, International Nepali Biomedical Society, Nepal
20. Microbial Contamination of Food Material and its effects on human health in Birgunj. 2064.4.4 to 2064.4.5 (July, 20-21, 2007), organized by Hari Khetan Multiple Campus, Birgunj.
21. Advancing Policy Option for Higher Education: Improving Transition and Access to Higher Education. 2064.4.17 (Aug 2, 2007, Kathmandu, Nepal)
22. Higher Education in Science and Technology for New Nepal, Aug. 27, 2007. Kathmandu, Nepal
23. Program for the Enhancement of Research Information (PERI): Online Journal and Literature Search. 2064.5.16 (Sept 2, 2007), Kathmandu, Nepal
24. International Symposium on Remaining Challenges in Leprosy, 5-8th Sept., 2007, Kathmandu, Nepal organised by 50 years celebration of Anandaban hospital, Mycobacterial research laboratory, Anandaban Hospital, Kathmandu, Nepal

25. American Society of Tropical Medicine and Hygiene 57th Annual Meeting. ASTMH, Sheraton New Orleans, New Orleans, Louisiana, USA, December 7-11, 2008
26. Inaugural Meeting of the MAL-ED Consortium. Etiology, Risk Factors and Interactions of Enteric Infections and Malnutrition 2009 and the Consequences for Child Health, 7400 Wisconsin Avenue, Hyatt Regency, Bethesda, Maryland, USA, February 15-18, 2009
27. IFS Workshop on Research Dissemination and Development of Scientific Manuscripts for Publication, Dhulikhel, International Foundation for Science and Kathmandu University, 7-10 Oct 2009
28. Workshop on Women in Science, Speaker Hall, Constitution Club, Rafi Marg, New Delhi, September 12, 2011, organised by US government, Government of India
29. Seminar on European Union Funding, Dwarika Hotel, Kathmandu, Nepal 2012
30. Workshop on Integrating Climate Change concepts into the Science Curriculum for Secondary Level Education, Himalaya Hotel, Lalitpur, Nepal, Government of Nepal, Ministry of Science Technology and Environment (MoSTE), 8-9 Nov. 2012
31. **Key Note speaker: Water and Food Security. Nepal Academy of Science and Technology, 2012**
32. Training Programme on Promoting Culture of Inquiry in Microbiology Teaching and Research. Organized by Central Department of Microbiology, Institute of Science and Technology, Tribhuvan University, Kirtipur, Kathmandu, Nepal and supported by University Grants Commission, Sanathimi, Bhaktapur. 18-19 August, 2013 (2-3 Bhadra, 2070)
33. Second Summit of the South Asian Science Academies and INSA-AASSA Joint Workshop on Women in Science Education and Research, 23-27 Sept, 2013, India
34. Nepal National Water Week, 2014, Seminar on Water and Energy, 24th March, 2014 organised by NAST
35. Women in science and technology education in Nepal. Jointly Organised by: AASSA & TÜBA, Ege University Global Network of Science Academies (IAP), Izmir, Turkey, 28-31 May, 2014
36. Workshop Mainstreaming Climate Change contents in SECONDARY level Education (GRADE 9 & 10 COMPULSORY SCIENCE) (SLM, TG, Glossary), 11 June 2014, Thursday, Hotel Himalaya, Lalitpur, Kathmandu Valley
37. Third Summit of the South Asian Science Academies and INSA-AASSA Joint Workshop on Regional Workshop on Women in Science and Technology Women in Science Education and Research, 14-16 Oct, 2014, India
38. Two days National Workshop to discuss on the ABS Draft prepared by the MOFSC at Hotel Himalaya. Organised by RECAST, MoFSC and ICIMOD. 28-29 Dec 2014
39. Water Energy Food Nexus, regional workshop. Godavari Village Resort, Feb 10-12, 2015. Organised by USEF, Fulbright, Nepal.
40. Higher Education Revamping Necessity in Nepal, 11th AASSA Regional Workshop on “Gender Issues in Science Research and Education”, 26-27 August 2015, Grand Ballroom B, Plaza Hotel, Seoul, Republic of Korea in conjunction with Gender Summit 6 Asia Pacific 2015, 26-29 August 2015.
41. Involved in preparation of AASSA SDA Report on women in science and technology in Asia, 2015
42. 2nd International South Asian Biotechnology Conference 5-6 Feb 2016, in collaboration with South Asian University, New Delhi and Dhaka University, Bangladesh.
43. International conference on “Innovative trends in chemical, physical and biosciences 9-10 Feb, 2016, Pune, India
44. Worked as Trainer; Workshop on Thesis writing organised by Research Division, Tribhuvan University, Kirtipur, venue: Mahendra Ratna Multiple Campus, Ilam, Mechi, Nepal 25-29 May, 2016.
45. One Day workshop on Industrial and Academia Dialogue-2016. 17/2/2073 (30 May 2016). Organised by Central Department of Microbiology, Tribhuvan University, Nepal.
46. Young Scientists Congress, and Women Scientists Mentor –Mentee Program 2016. 27-28 Oct 2016. Organised by Bangladesh Academy of Sciences (BAS), The Global Network of Science Academies (IAP), TWAS-Regional Office for Central & South Asia (ROCASA).
47. 3rd International South Asian Biotechnology Conference-(SABC 2017), 16-18 March, in collaboration with South Asian University, New Delhi and Tribhuvan University, Nepal Biotechnology Association, Nepal. Regional Co-operation for Biotechnology.
48. **Key Note speaker: Waste water, Water Day. Nepal Academy of Science and Technology, 22 March, 2017**
49. 2017-Monthly Lecture and Policy Discussion Series, Gender and Youth: Girls’ Education in Nepal. Organised by United States Education Foundation (USEF) and Fulbright Commission, 28 March 2017, Nepal.
50. Key note speaker: Nepal National Water Week: Wastewater. Organised by Nepal Academy of Science and Technology, 31 March 2017.
51. Talk on “Ancient & Recent Technology in Nepal”. ASTRA 2017, Ancient Science & Technology: Retrospection and Aspirations. Haribhai V. Desai College, Pune-2, 18-19 Jan 2017.
52. Worked as a facilitator on Workshop on Teaching and Research Methodologies, organized by IOST and RECAST, TU, July 23-24, 2017, Kathmandu, Nepal.
53. UNESCO International Symposium and Policy Forum 'Cracking the Code: Girls' Education in STEM. Dusit Thani Bangkok Hotel, 28-30 Aug 2017.
54. Important Human Pathogen: *Mycobacterium tuberculosis*. International Conference on Trends in Life Sciences, New Arts, Science and Commerce Science College, Parner, Maharashtra, India, 29-30 Dec 2017.
55. **Key Note speaker: Waste water, Water Day. Nepal Academy of Science and Technology, 22 March, 2017**

56. International Conference on Nanotechnology for Human Welfare (ICNHW-2018). Poona Gujurati Kelwani Mandal's Haribhai V. Desai College, Pune-411002. In association with college of Engineering Pune (COEP) and Microbiologists society, India. 1-3 February, 2018.
57. 4th International South Asian Biotechnology Conference in collaboration with South Asian University, New Delhi and Colombo, Sri Lanka Biotechnology: Role in Regional Development, SABC 2018, 28-30 March, **Anjana Singh**-Role of Biotechnology tools and Nepal experience in elimination of vector-borne diseases.
58. The Inter Academy Partnership for Research (IAP-R) and the Association of Academies and Societies of Sciences in Asia (AASSA) Regional Workshop on the Sustainable Development Goals (SDGs), August 13th-14th, 2018 in Kuala Lumpur, Malaysia. Organized by IAP and MAS.
59. **Anjana Singh** (2018) Thailand Effective practice in communication of health science and technology in Nepal. Promoting role of scientists and media in science and health communication: from policy to practice. October 28th -31st, 2018. Bangkok International Trade and Exhibition Center, Bangkok, Thailand. Organized by The Science Society of Thailand under the Patronage of His Majesty the King National Science Museum, Bangkok, Thailand. Supported by Interacademy Partnership (IAP); The Ministry of Science and Technology of Thailand (MOST).
60. Sarita Manandhar, **Anjana Singh**, Ajit Varma, Shanti Pandey, Neeraj Shrivastava (2018) Antibiotic Resistant Cases in Biofilm Producing Clinical Staphylococcal Isolates from Tertiary Care Hospitals of Nepal. International conference, Biotechnology Innovation and Research for Sustainable development (BioSD 2018). At CSIR-Indian Institute of Chemical Technology, Hyderabad, India during November 22-25, 2018
61. Kiran Kumari Chaudhary, Reshma Tuladhar, Bijendra Raj Raghubanshi, and **Anjana Singh** (2018) Molecular detection of blaNDM-1 gene among metallo- β -lactamase producing *Klebsiella pneumoniae* from different clinical specimens at tertiary care hospital. 7th International Conference on 'Innovations in Physical, Chemical and Life Sciences'. Organized by Ahmednagar Jilha Maratha Vidya Prasarak Samaj's, New Arts, Commerce and Science College, Department of Physics and Research Centre, Parner, Dist-Ahmednagar, 27-28 Dec 2018.
62. Microbiological sciences for a prosperous Federal democratic republic of Nepal. Organised by Kathmandu Research institute for Biological Sciences in association with Society for applied microbiology United Kingdom. Guest speaker, 29th Sept 2018, Hotel Woodland, Kathmandu, Nepal.
63. IAEA outreach workshop for Nepal: Safe, secure and peaceful applications of nuclear science and technology to reach national development goals. Organized by Government of Nepal and Ministry of Education Science and Technology and International Atomic Energy Agency (IAEA). 10-11 Dec 2018, Kathmandu, Nepal.
64. Anjana Singh, Supriya Sharma, Jyoti Acharya, Nisha Rijal, Parmananda Bhandari, Megha Raj Banjara, Prakash Ghimire. Cryptococcal meningitis in people living with Human immunodeficiency virus in Nepal. Joint International Tropical Medicine Meeting (JITMM) at Amari Watergate, Bangkok, Thailand. 12 Dec 2018.
65. Biological weapons convention (BWC): Awareness raising and legislative drafting workshop. 8-11 Jan 2019 (24-27 Paush 2075 BS) Kathmandu, Nepal. Organized by Government of Nepal, Ministry of Foreign Affairs, UNODA, European Union.
66. Bhagawati Khadka, Moni Mahato, Reshma Tuladhar and **Anjana Singh**. Effect of *Psidium guajava* L on biofilm forming multidrug resistant extended spectrum beta lactamase (ESBL) producing *Pseudomonas aeruginosa*. International conference Recent advances in traditional medicine, medicinal plants and phytochemistry, Ahmednagar College 8-9 Feb 2019
67. Ramesh Chaudhary, Ishan Gautam, Reshma Tuladhar, Govinda Badahit, Bina Bhandari, Sandeep Rijal, Sunita Baral, **Anjana Singh**. Diversity of microbial flora on the preserved specimens of Natural History Museum, Swayambhu, Kathmandu. International Conference on Empowering Society with Microbial Technology (ICESMT)-2019, Tuljaram Chaturchand College of Art Science and Commerce, Baramati, Dist Pune, P Box no 51, MAHARASHTRA, India, Pin 413102, Feb 9, 2019
68. **Anjana Singh**, Effect of Fake News. AASSA Regional Workshop on Science Breakthroughs: Paid News, Fake News & Ethics. CSIR-NISCAIR, New Delhi, India. February 20-22, 2019. Association of Academies and Societies of Sciences in Asia (AASSA) Indian National Science Academy (INSA), CSIR-National Institute of Science Communication and Information Resources (NISCAIR), Supported by Inter Academy Partnership (IAP)
69. Anjana Singh. Supriya Sharma, Jyoti Acharya, Megha Raj Banjara, Prakash Ghimire. Comparison of acridine orange fluorescent microscopy and Gram stain light microscopy for the rapid detection of bacteria in cerebrospinal fluid. 5th National summit of Health and Population scientists of Nepal organized by Nepal Health Research Council at Karki Banquet, Kathmandu. 10 Mar 2019.
70. **Key Note Speaker**. International E-conference on Recent Advances in Agriculture & Environment for Improvement of Agricultural Sustainability organizing by SAGE School of Agriculture, SAGE University Bhopal, in association with Asian PGPR Society for Sustainable Agriculture APSSA-India Chapter. PGPRs as an antibiotics producer. 29 August 2020 at via online zoom app.
71. Worked as **Moderator**, Regional webinar on COVID-19 Lockdown Effect on Status of Women Scientists. Organised by Women Scientists Forum Nepal (WSFN), NAST 2020, July 19, 2020 (Sunday), 13:00 -15:00 NST, Zoom App
72. Worked as a Judge. NASA International Space Apps Challenge. Organized by Nepal Astronomical Society. Oct 12, 2020
73. Challenges and Opportunities Public Awareness of STEM & Advancing the Role of Women in STEM. Institute of National Innovations, Organizers John H. Falk Institute for Learning Innovation Lynn D. Dierking Institute for Learning Innovation Roli Varma University of New Mexico October 27, 2020. Supported by the U.S. National Science Foundation (1937849). (8 countries). ZOOM meeting

74. Science Dialogue on "Science for and with Society". Webinar on Celebrating the World Science Day, 2020. Talk entitled 'Women in Science'. Organised by Nepal Academy of Science and Technology. 10th November 2020, Tuesday. ZOOM App
75. 6th India International Science Festival (IISF). Theme: Science Communication & Science Literature. Networking Science & Society. CSIR-NISCAIR is organising the "Vigyanika - International Science Literature Festival 2020" along with MoES and VIBHA. Vigyanika, CSIR-NISCAIR, New Delhi, India. 22 to 24 December 2020, virtual platform, Organized by: CSIR-National Institute of Science Communication and Information Resources (NISCAIR), Ministry of Earth Science (MoES) and Vijnana Bharati (VIBHA), Presentation topic, IMPACT OF COVID-19 OUTBREAK ON WOMEN IN Nepal- A glimpse
76. Webinar on Science Advice and Diplomacy in the Battle against COVID-19. To understand the current science advice landscape in Nepal and its associated challenges and concerns, particularly in response to the ongoing COVID-19 pandemic, highlight the value and importance of science advice and diplomacy in managing current and future health crises 21st Jan, 2021. Organized by: International Network for Government Science Advice (INGSA) Asia, NHRC and Young Scientist Forum Nepal (YSFN)
77. 1st International Webinar, Corona Spread and Control, Organized by: Department of Botany, Faculty of Science, Eastern University, Sri Lanka in Collaboration with Microbiologists Society, India, 25th Jan 2021. Topic entitled Covid-19 effect on women. Google meet
78. Presentation Deck for ISC Covid-19 Outcomes Scenarios Oversight Panel - First meeting. International Science Council. March 12, 2021. ZOOM meeting.
79. As a Chair. AASSA-AIPI International Webinar on Digital Scholarly Communication Series 1, conducted on 31st March 2021, Jointly Organized by Association of Academies and Societies of Sciences in Asia (AASSA) Indonesian Academy of Sciences (AIPI) Supported by Inter Academy Partnership (IAP) Academy of the Social Sciences in Australia (ASSA). "Regional Patterns of Digital Scholarly Communication and Publication" Wednesday, 31 March 2021; 13:00 – 16:00 (Jakarta time). ZOOM App
80. Presentation entitled "Access to Digital Scholarly Publications: Strategies, Applications & Impacts", In International Webinar on Access to Digital Scholarly Publications: Strategies, Applications & and Impacts, Series 2. The Indonesian Academy of Sciences (AIPI) under the collaboration with AASSA and IAP and ASSA. 28 April 2021. Zoom App. 13:00 – 16:00 (Jakarta time)
81. Impacts of COVID-19 on women in the STEM workforce, Asia-Pacific' workshop on Tuesday 4 May 2021. Organised by The Australian Academy of Science. Virtual ZOOM App.70.
82. The Webinar of Digital Scholarly Communication Series 3, "Publication and Dissemination of Digital Scholarly Communication" Wednesday, 19 May 2021, 13:00-16:00 (Jakarta time). The Indonesian Academy of Sciences (AIPI) under the collaboration with AASSA and IAP and ASSA Virtual ZOOM App
83. Global Alliance Rapid Diagnosis GARD Innovation Forum: Bridging Technologies and Market Needs. Presentation on Antimicrobial Resistance Pattern in Nepal-A Brief Review. June 25 - 26, 2021. Virtual. Gather Town App.
84. The virtual conference on Public Awareness in STEM and advancing the role of women (and girls) in STEM, Topic: Women in STEM - 2nd Virtual Conference, Time: Aug 10, 2021 10:00 AM Jakarta, Indonesia Every day, until Aug 11, 2021, 2 occurrence(s), Aug 10, 2021 10:00 AM, Aug 11, 2021 10:00 AM, Zoom Meeting.
85. The 5th International Congress on Biomedicine 2021. Women and Reproductive Health Panel (Infertility). November 10-19 2021. Bacteriospermia in men among infertile couples in Nepalese community. Vvirtual event on request of UNESCO-Iran held by Pakistan, Dr. Laiyla Shinwari, Gynecologist, Chairman Panel.
86. Worked as an expert in 'Reaching pedagogy and research techniques'. 22-24 Mangsir (8-10 Dec 2021) Chitwan, Organised by IOST, TU.
87. International Webinar on Combatting Predatory Academic Journals & Conferences. Tuesday, 7 December 2021, time: 13:00-15:00 WIB (Jakarta time). Organized by INDONESIA ACADEMY OF SCIENCES. IAP and AASSA-Asia. Worked as Panelist.
88. Contributor in report preparation of **COVID-19 Outcome Scenarios Project**. *Unprecedented & Unfinished: COVID-19 and Implications for Global and National Policy*. With the president of the International Science Council Peter Gluckman 2022
89. Theme: Antimicrobial resistance and antimicrobial stewardship. 2022 GARD Forum: Bridging Technologies and Market Needs. Presentation on Antimicrobial Resistance Pattern in Nepal. Feb. 25-26, 2022. Virtual, Whova App
90. Worked as a moderator. Celebration of International Women's Day 2022. "Break the Bias". Organized by: Women Scientist Forum, Nepal (WSFN), Nepal Academy of Science and Technology, NAST. 8th March, 2022 (24 Falgun, Tuesday). ZOOM platform
91. Coordinator, Botanical Art & Illustration Training. Organised by Women Scientists Forum Nepal (WSFN), Nepal Academy of Science and Technology (NAST), 5-6 Baishakh 2079
92. Speaker on World DNA Day. Biotechnology for Human Welfare. Use of DNA on COVID-19. Organised by Biotechnology Society of Nepal (BSN). 25th April 2022
93. Preliminary of using Portable Micro NIR Spectrometer for Measuring of Microbial load in Chicken Meat. Milka Nakarmi, **Anjana Singh**, Dev Raj Joshi, Reshma Tuladhar, Bhupendra Lama, Bijendra Shrestha, Jetsada Posom, Panmanas Sirisomboon, Bim Prasad Shrestha. The 8th Asian Symposium. Nov 28-30, 2022. South Korea.
94. **Key Note speaker**. Anti-Microbial Resistance Pattern in Nepal. South Asian Biotechnology Conference 2023, Organized by the Bangladesh Society for Biochemistry and Molecular Biology and the South Asian University, New Delhi, India, Feb 3-5, 2023 in Dhaka, Bangladesh
95. Worked as a moderator. Celebration of International Women's Day 2023. "Cracking the Code for Women in STEAM" and Celebration of WSFN Annual Day Feb 13. Organized by: Women Scientist Forum, Nepal (WSFN), Nepal Academy of Science and Technology, NAST. 7th March, 2023 (23 Falgun, Tuesday). ZOOM platform

96. International symposium on climate change and planetary health. 30 Apr 2023. Jointly organised by Nepal Health Research Council, Nepal, Kathmandu University, Institute of Tropical Medicine, Belgium and National Institute of Public Health, Norway. Roundtable discussion on enhancing country capacity on climate change.
97. Plenary Speaker entitled AMR Pattern in Nepal at the "First National Biotechnology Conference 2023" 11-12th May 2023 at Kathmandu University. With the theme, Challenges and Prospects of Biotechnology in Nepal.
98. Invited Speaker entitled, "University Experience in Science Literacy in the Digital Era". Science Literacy in the Digital Era. 20-21 June 2023 at AIPI Premises, Jakarta
99. Invited Speaker entitled "Institutionalising Science Advice to Nepal Government". Workshop on 'Institutionalising Science Advice to Governments' 6th-8th July 2023 Hilton Colombo Residencies Hotel, Colombo, Sri Lanka.
100. Second South Asian Symposium on Microbial Ecology (SASME 2023), 1-3 Nov, 2023, Session Chair, Dhulikhel, Nepal
101. Guest of Honour, talk entitled, 'Artificial Intelligence for Science Communication', 3rd International Science Communication Conclave, 23rd Indian Science Communication Congress (ISCC-2023), Science communication in the age of Artificial Intelligence, International Science Writers' Association, Indian Science Writers' Association, Indian Science Communication Society, New Delhi, India, 20 December 2023, Online
102. Invited Speaker, International Day of Women & Girls in Science. International Theme: Inspire Inclusion. Theme: Closing the Gender Gap in Science: Accelerating Action. Organised by Annasaheb Magar Mahavidyalaya Hadapsar, Pune, Maharashtra, India, 12 Feb 2024
103. Development of Anti Microbial Resistance (AMR). UMCCON-2024. International Conference on "Emerging Trends in Basic Sciences, Physical, Chemical, Biological and Environmental Sciences": Organised by IQAC, Department of Science, Uttam Memorial College, Raigarh, Chattisgarh, 26-27 Feb 2024 virtual
104. Invited Speaker, Human Pathogen: Mycobacterium tuberculosis. Recent Insights on Tuberculosis: World TB Day Awareness, School of Engineering, Ajeenkya D Y Patil University, Pune, 22/03/2024 virtual
105. Advancing the effectiveness of dengue control. Organised by CMDN. 15-16 Apr, 2024. The Malla Hotel
106. Speaker. Dengue infection in Nepal, Organized by Microbiology Society Chandigarh, 4th Apr 2024. Virtual
107. Keynote speaker. Youth Scientists' Conference. Organiser: Government of Nepal, Ministry of Youths and Sports, National Youth Council, Jestha 05, 2081 (June 19, 2024)
108. Invited Speaker at TÜBA Science Diplomacy Symposium, 28-29 June 2024, Ankara. Presentation entitles, Sustainable Development in Nepal via Science Diplomacy. Hybrid mode, Presented virtually.
109. Invited Speaker. 'Environmental Hazards in Asia', The First International Conference, organized by Institute of Astronomy and Geophysics, Mongolian Academy of Sciences, Ulaanbaatar, Mongolia August 12-15th 2024. Presentation title "Waste Water Hazards in Nepal".
110. Invited Speaker. Resilience to High Impact Low Occurrence (HILO) disasters: A cross-sector comparison. National Academy of Sciences, Sri Lanka (NASSL), Sept 5-7, 2024, Colombo, Sri Lanka. Presentation entitle 'Covid 19 Pandemic in Nepal'.
111. Invited Speaker at AASSA-NAST PHL Symposium on "Digital Transformation in Healthcare and 6th AASSA General Assembly. Presentation entitled, Artificial Intelligence in Clinical Microbiology Diagnostic Testing, Manila, Philippines. 28-30 Oct 2024
112. Invited speaker at 4th International Science Communication Conference and 24th Indian Science Communication Conference (ISCC-2024) 19-20, Dec 2024. Presentation entitled, 'Isolation of Lytic bacteriophage against *Salmonella* Typhi for its use as potential alternative to antibiotics'. IIMT Engineering College, Meerut, online
113. Speaker, Phenotypic and Genotypic Identification of *Bacteroides fragilis* in SSIs from Eastern Nepal. International 3rd Conference of the Biotechnology Society of Nepal (ICBSN-2025) 24-25 Feb 2025. Theme "Biotechnological Innovations for Knowledge and Entrepreneurship" (BIKE). Hotel Manang, Kathmandu, Nepal.
114. Speaker at Global Alliance Rapid Diagnostics (GARD) 2025. Save lives sustain health. Plastic Degrading *Psuedomonas* spp. from soil. 20-22 March 2025. Sponsored by the Department of Biosystems and Agricultural Engineering, Michigan State University, USA. In collaboration with Global Youth Advancement Network, Asian Studies Center, and Center for European, Russian, and Eurasian Studies at Michigan State University, and De La Salle University, Philippines, virtual online.
115. As one of the panelists on "South Asian Regional Round table on Plastic Waste Management, Colombo, Sri Lanka, 7-8 April, 2025".
116. As one of the panellists on "Kathmandu Conference on Plastic Waste Management 2025 (KCPWM) organised by Department of Applied Sciences and Chemical Engineering, Tribhuvan University, PLEASE Project implemented by Waste to Wealth: Plastic Free Himalayan Rivers to Advanced Functional Materials implemented by the South Asia Co-operative Environment Programme (SACEP) and supported by UNOPS and World Bank, supported by the World Bank, 20-22 April, 2025, Kathmandu, Nepal.
117. Invited speaker at 7th South Asian Biotechnology Conference (SABC), Advancing Health, Agriculture and Environment in South Asia, South Asian University (SAU), New Delhi, October 29-31, 2025. Talk entitled, '*Bacteroides fragilis* with special attention to carbapenems in SSIs from Eastern Nepal'.
118. Moderator for the panelists, a Conference on Public Understanding of Quantum Science and Technology, held on 22nd-23rd December 2025 at Gujarat Science City, Organised by Gujarat Council on Science and Technology, Ahmedabad.
119. Resource Person at Three days International Level Conference "Biomake in India III" scheduled on 19th to 21st January, 2026. Organised by Krishna Institute of Science & Technology, Krishna Vishwa Vidyapeeth (Deemed to be University), Karad In collaboration with Microbiologists Society of India.

Membership :

1. President of Filters of Families Nepal 2009-2013
3. Life Member of Nepal Society of Microbiology (NESOM)
4. Life Member of Women in Science and Technology (WIST)
5. Life Member of Health and Environmental Welfare Association
6. Executive Member of Fulbright Alumni Association Nepal (FAAN) 2010-2012 (11th EC); 2012-2014 (12th EC); 2014-2017 (13th EC), 2017-2019 –Vice president (14th EC)
7. Executive member, Special Committee for Women in Science and Engineering (WISE) under Association of Academies and Science Societies in Asia (AASSA), Sept, 2013-2016, 2016- 2021
8. Biological Sciences and Biotechnology Committee, Board member, NAST 2013, 2014
9. Research Grant Selection committee for the TA 7984: Mainstreaming Climate Change Risk Management, NAST, 2014
10. UGC cluster committee board member 2015-2017, 2017-2019
11. TU research committee member 2013-2015, 2016-2018
12. TU Subject Committee Member, IOST, TU 2012-2016
13. International Advisory Committee Member, 2nd, 3rd, 4th International South Asian Biotechnology Conference (SABC) 2016, 2017, 2018 respectively
14. BOS Member of South Asian University, New Delhi, India, 2016 till 2018
15. NAST Research Committee Board Member 2017-2019
16. NAST Management Committee Board Member 2018-2021
17. NAST Academy Assembly member –(31 Shrawan 2074-2076) 2017-2019, 2019-2021, 2022-2024, 2025-27)
18. Life member of Biotechnology 2017
19. Life member of Women Scientists Forum Nepal (WSFN), NAST, 2020 onwards, Coordinator
20. NAST service commission board member 2079-05-06 (21-08-2022) till date
21. Member of Taskforce formed by Tribhuvan University Nurturing Excellent in Higher Education Program (TU-NEHEP) for preparing of policy and strategy document of Improved Labor-market Relevance, Entrepreneurship, and Collaborative Research Policy Guideline for Tribhuvan University (2023).
22. Tribhuvan University (TU) Executive Council, EC committee member of the taskforce, To undertake the study of assessment of effectiveness of the digital learning system in terms of learning engagement and achievements and suggest a feasible model/s for the university to strengthen e-learning capacity integrating to conventional approach and at a time of emergency that can be shifted to online immediately, and devise system through which online learning programs could be offered with competing quality to respond responsibility to improving access to quality higher education to the mass people in the country (2023).
23. Higher Education Quality Framework Task Force Group Member, UGC 2023
24. STEM Women Global
25. STEM Women Asia
26. TWAS fellow nominated on 8 Oct 2025.

Awards :

1. Asta Matrika Honour for women. 8th March 2025
2. Long Service achievement award (Dirga Sewa Padak) 2021, TU
3. Fulbright Scholarship-United States Government, Sept-2008- Feb, 2009
4. Education Award (Shikshya Puraskar), Education, Science and Technology Ministry Nepal-2008
5. International Foundation for Science Grant, Sweden, 2007
6. Crown Prince Young Scientist Award, NAST, Khumaltar, Nepal, 2005
7. Mahendra Vidya Bhushan Award, ' Ka ', for Ph.D., Nepal, 2005
8. University Grant Commission Fellowship, Government of India for Ph.D. 25th July 2000-5th Jan 2004
9. University Grant Commission, Mini Research Grant, Nepal, 2000
10. Tikalaxmi Padak, Tribhuvan University Medal, for securing highest mark among girl students in B. Sc., Nepal, 1994
11. Mahendra Vidya Bhushan Award, ' Ga ', standing top in B. Sc., Nepal, 1991
12. Birendra Aishwarya Scholarship, Nepal, 1991
13. Aishwarya Vidya Padak for standing top among girl students in B. Sc., Nepal, 1990
14. Harihar Raj Lohani Award for standing top taking chemistry in B. Sc., Nepal, 1990

Extracurricular Activities:

1. Worked as a teacher in an intensive course, "Refresher Course on Laboratory & Quality Control of the Dairy Industry", January 15- 27, 1995
2. Participation in the Science Exhibition, Microbiology for quality and Development organized on the occasion of 7th Anniversary of the Central Department of Microbiology, November 14, 1997
3. Managing Culture Bank of Microbiology Department, Tribhuvan University, November 17, 1994- August 31, 1998

4. Taken practical classes for M.Sc. class at Jawaharlal Nehru University, New Delhi, India 2000-2003
5. Orientation for Teachers on Four Year Bachelor of Science (Microbiology) of BSc Ist year Course Curriculum, 5-6 Magh, 2069
6. Teachers' Orientation Programme for BSc IInd year of Four years B.Sc. course, 29-30 November, 2013 (14-15 Mangsir, 2070)
7. South Asian University, focal person nominated for the entrance examination held on 15th Apr 2018
8. Worked as a Subject Expert, Workshop on Semester System Teaching Methods, 17-18th May 2018, Organised by Tribhuvan University, Coordinator Prof. Dr. Ram Prasad Khatriwada, Dean, IOST, TU
9. St Xavier's College, Thapathali, Talk program, 30 July 2023, Sunday, Delivered talk on "Opportunities in Microbiology".
10. Involved as a member of Taskforce formed by Tribhuvan University Nurturing Excellent in Higher Education Program (TU-NEHEP) for preparing of policy and strategy document of Improved Labor-market Relevance, Entrepreneurship, and Collaborative Research Policy Guideline for Tribhuvan University (2023).
11. Tribhuvan University (TU) Executive Council has constituted a committee to undertake the study of assessment of effectiveness of the digital learning system in terms of learning engagement and achievements and suggest a feasible model/s for the university to strengthen e-learning capacity integrating to conventional approach and at a time of emergency that can be shifted to online immediately, and devise system through which online learning programs could be offered with competing quality to respond responsibility to improving access to quality higher education to the mass people in the country. Prof. Dr. Anjana Singh had been nominated as one of the EC member of the taskforce (2023).
12. Chief Guest, Scope of Microbiology. 19 Shrawan 2081 (2024). Balkumari Multiple Campus, Bharatpur

Peer Reviewer:

1. Journal Science and Technology, NAST, Nepal
2. Journal of Institute of Science and Technology, Dean's office (JIST), TU, Nepal
3. University Grants Commission, Nepal
4. Tribhuvan University (TU) Journal, TU, Nepal
5. Tribhuvan University Journal of Microbiology (TUJM), Nepal
6. Nepal Journal of Academic Research (JAR), published by National University teachers' Association of Nepal
7. Journal of microbiology, biotechnology and food sciences (Slovak University of Agriculture in Nitra)
8. Indo Global J Pharm Sciences
9. Frontiers in Microbiology
10. Academia Letters
11. Frontiers in Pharmacology
12. International Journal of Environmental Research and Public Health

Personal Data

:
 Name : Dr. Anjana Singh
 Date of Birth : June 6, 1966
 Nationality : Nepali
 Marital Status : Married with one son
 Spouse : Dr. Deepak Raj Singh

Professional Training :

1. Nepal Health Research Council, Training Workshop on Ethical Review Process of Health Research. 16-18ⁿ May 2021.
2. Bloodborne pathogen and biosafety training for research personnel. Trainer Thomas Leonard, Environmental Health and Safety, University of Virginia, Virginia, USA, 24-09-2008
3. Parasitology pre-meeting course: Whole genome association studies: Understanding the genetic basis of susceptibility to infectious diseases. The American Society of Tropical Medicine and Hygiene (ASTMH), New Orleans, Louisiana, USA, Dec 6, 2008
4. A Regional Training Programme on Use and Maintenance of High Performance of Liquid Chromatography (HPLC). 32nd training of Network of Instrument Technical personnel and User scientists of Bangladesh (NITUB). Department of Chemistry, University of Dhaka, Dhaka and Research Division, Bangladesh Institute of Research and Rehabilitation in Diabetes, Endocrine and Metabolic Disorder (BIRDEM), Dhaka. 08 - 13 December 2007. Organised by NITUB, Dhaka
5. Workshop on Development of grant proposals and Development of Manuscripts for Publications. Venue: BCDM, Gazipur, Bangladesh, 21-25 Oct 2007. Organized by BCAS and IFS
6. Training workshop on Epidemiology Tools, Organized by Central Department of Microbiology, Tribhuvan University, University Grants Commission, Nepal and RONAST, Nepal, 2065(2007), Kirtipur, Kathmandu, Nepal
7. Training workshop in Advances in Epidemiology, Organized by NHRC, Nepal (Sept 30- Oct 9, 2007)

8. Training workshop on techniques in molecular biology, Organized by Central Department of Microbiology, Tribhuvan University, University Grants Commission, Nepal and RONAST, Nepal, Jestha 22-29, 2062 (June 5-12, 2005), Kirtipur, Kathmandu, Nepal
9. Training workshop for the presentation and discussion of WHO drinking water quality guidelines 3rd edition and national water quality standards, 17-18th August, 2006, Jointly organized by Government of Nepal, Ministry of Physical Planning and Works, Department of Water Supply and sewerage, Maharajgunj, Kathmandu, Nepal, WHO
10. Training workshop on techniques in molecular biology, Organized by Central Department of Microbiology, Tribhuvan University, University Grants Commission, Nepal and RONAST, Nepal, Jestha 22-29, 2062 (June 5-12, 2005), Kirtipur, Kathmandu, Nepal
11. Conducted Pre-requisite course in Microbiology-2061 (2005) -for M.Sc. students, Coordinator-Dr. Anjana Singh
12. Conducted One day Workshop in Research Methodology on Bhadra 30, 2061 (Sept. 15, 2004), Coordinator-Dr. Anjana Singh
13. DBT-CAMS Sponsored Workshop on Molecular Taxonomy of the Symbiotic Fungi, Jawaharlal Nehru University, New Delhi, India, 1-21 Dec, 2003
14. Basic training on mycorrhiza, organized by plant pathology division, Nepal agriculture research council, Khumaltar, Lalitpur, Nepal, May 8-12, 2000
15. Orientation programme on M. Sc. (Microbiology) 1st year course organized by Central Department of Microbiology, Tribhuvan University, Kathmandu, Feb. 13-18, 2000
16. Participation in an intensive orientation course dealing with theory and practical of "Third Year B. Sc. Course of Microbiology", organized by Central Department of Microbiology, 1999
17. Participation in an intensive orientation course dealing with theory and practical of "Three Years B. Sc. Course of Microbiology", organized by Central Department of Microbiology, 1998
18. Training on "Project Formulation, Planning and Implementation, WIST, Dec. 1-12, 1997
19. Computer Course, WP 5.1, 1990
20. Japanese Language, 1990
21. L. T. S. Training, 1983

Community Survey Study :

1. Amino acid analysis in vermi compost 2017
2. Assessment of arsenic tolerant bacteria to explore mitigation/contamination of drinking water in Nawalparasi district, Nepal, IFS funded programme, 2007
3. Bacteriological analysis of food of Bahiri-Gaon Village. Funded by Central Department of Microbiology, TU, Nepal, 2000
4. Bacterial analysis of street food of Kathmandu valley in relation to child health. University Grant Commission (UGC) funded programme, Nepal, 1999
5. Bacteriological Investigation on Water Borne Diseases-Nagaon Village. Nepal, M.Sc., 1993

Theses :

1. Bacteriological Investigation on Ice- Cream of the Kathmandu Valley, M. Sc., Nepal, 1993
2. Immunocharacterization of *Piriformospora indica* and other identical root endophytes, Ph.D. School of Life Sciences, Jawaharlal Nehru University, New Delhi, India, 2004

Projects :

1. Bacterial analysis of street food of Kathmandu valley in relation to child health. 1999. University Grant Commission (UGC) funded programme, Nepal.
2. Bacteriological analysis of food of Bahiri-Gaon Village. 2000. Funded by Central Department of Microbiology, TU, Nepal
3. Assessment of arsenic tolerant bacteria to explore mitigation/contamination of drinking water of Nawalparasi District, Nepal. 2007-2008. International Federation for Sciences, Sweden

4. New Diagnostic Tests for Amoebiasis Including Antigen and Antibody Detection and Real Time PCR. 2008-2009. Fulbright Scholarship.
5. Paagya ko Laagi Pragyaa (2018) Water quality status of groundwater and municipal water supply (tap water) from Bagmati river basin in Kathmandu valley, Nepal. Nepal Academy of Science and Technology.
6. RCDC, REF Collaborative Research-2078. Research Endowment Fund Collaborative Research. Prevalence of bacteriological agents on surgical wound infections with special reference to anaerobic bacteria. Research Directorate, Rector's Office, Tribhuvan University. 2022.

Country Visited:

1. India, 2000-2004 Ph.D., 2011, 2013, 2014, 2015 New Delhi; Feb 9-10, 2016 Pune, Jan 17-18, 2017 Pune, Dec 7, 2017 Delhi, 29-30 Dec 2017, Parner, Pune, Feb 1-3, 2018 Pune, Nov 22-25 Hyderabad 2018, 26-27 Dec Parner, Pune 2018, 8-9 Feb Ahmednagar 2019, 20-22 Feb Delhi 2019; Ahemdabad 22-23 Dec 2025
2. Bangladesh, Oct 20-26, 2007, Dec 7-14, 2007; Feb 5-7, 2016, Oct 27-29, 2016, Feb 2-5 2023
3. USA, Sept. 2008-Feb 2009
4. Japan 2010 Aug 1-12
5. Korea 2010, 2015 Aug 25-30
6. Turkey, 28-31 May, 2014
7. Thailand, 28-30 Aug 2017, Oct 28-31 2018
8. Sri Lanka, 28-30 March, 2018; 6-8th July 2023, 5-8 Sept 2024, 6-9 2025
9. Malaysia, 13-14 Aug 2018
10. Indonesia, 20-21 June 2023
11. Mongolia, 12-15 Aug 2024
12. Philippines, 29-30 Oct 2024

References

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Prof. Dr. Tika Bahadur Karki, Head, Department of Biotechnology, Kathmandu University, Nepal, Email: ktika@ku.edu.np, & Visiting Faculty, National Institute of Science and Technology (NIST), Lainchor, Kathmandu, Former Director General, Government of Nepal, Ministry of Agriculture Development, Department of Food Technology and Quality Control, Babarmahal, Kathmandu, Nepal, Email: ktika@ku.edu.np

Bharat Mani Pokharel, Former Asst Dean, Microbiology Department, TUTH, Maharajgunj, Nepal

Professor Dr. Ajit Varma, Director, Amity Institute of Herbal and Microbial Studies, Amity University, Sector 125, New Super Express Highway, Noida 201303, UP, India, Email: ajitvarma@aihmr.amity.edu

Prof. Dr. William Petri, MD, Ph.D. Infectious Diseases and International Health, Health System, University of Virginia, VA 22409, USA, Email: wap3g@virginia.edu

Dr. Sean D. Cleary, PhD, MPH, Associate Professor, Director, MS/PhD Epidemiology Programs, Department of Epidemiology & Biostatistics, School of Public Health & Health Services, The George Washington University, 2300 I Street N.W., Ross 120B, Washington, DC 20037, Ph: (202) 994-5757, Fax: (202) 994-0082, Email: sphsdc@gwumc.edu

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orcid.org/0000-0003-1734-5665

LIST OF PUBLICATIONS

Peer Reviewed Journals:

1. Kandel KL, **Singh A**, Roche PW and MacDonald M (1999). Infections of foot ulcers in leprosy patients. Proceedings of IIIrd National Conference on Science and Technology. National Academy of Science and Technology (NAST), Volume I, Kathmandu, Nepal, pp. 569-573 NEPJOL
2. **Singh A**, Singh Ar, Rexer K-H, Kost G and Varma A (2001) Root endosymbiont: *Piriformospora indica* – A Boon for Orchids. Orchid The Journal of Orchid Society of India, **15(1-2)**: 89-102
3. Singh A, **Singh A** and Varma A (2002) *Piriformospora indica* – *in vitro* Raised Leguminous Plants: An New Dimension in Establishment and Phyto-promotion, Indian Journal of Biotechnology. 1: 372-376. Impact factor-**0.413**
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