

4<sup>th</sup> International Conference on Infectious Diseases and Nanomedicine – 2023 (ICIDN-2023)

December 15-18, 2023; Kathmandu, Nepal

**Organized by**

**Supported by**



**ICIDN 2023 - CONFERENCE TIMETABLE** (based on Kathmandu time)

**DAY I. FRIDAY, DECEMBER 15, 2023**

		<b>Virtual (Online) session</b>
10:00 - 10:05 AM		<b>Arrival of participants to an online platform</b>
10:05 - 10:10 AM		<b>Welcome note</b> <i>Santosh Thapa (ICIDN-2023 Co-Convener)</i>
10:10 - 10:15 AM		<b>Few words</b> <i>Rameshwar Adhikari (ICIDN-2023 Convener)</i>
		<b>Keynote Lecture</b>
10:15 - 10:45 AM	KL1	<b>Paradigm shift in medicine from treatment to prevention</b> <i>Robert R. Bragg, Samantha Mc Carlie, Wanja Swart</i> <i>University of the Free State, Bloemfontein, South Africa</i>
		<b>Symposium: Antimicrobials, Vaccines and Alternatives</b> <i>Moderators: Santosh Thapa and Kamal Rai</i>
10:45 - 11:00 AM	OP1	<b>MiR15HG: A double-edged sword in promoting antiviral innate immunity</b> <i>Kul Raj Rai, Yuan Liao, Mengjuan Cai, Haori Qiu, Faxin Wen, Min Peng, Song Wang, Shasha Liu, Guijie Guo, Xiaojuan Chi, Mohamed Maarouf, Yuhai Chen, Shile Huang, Ji-Long Chen</i> <i>Fujian Agriculture and Forestry University, Fuzhou, China</i>
11:00 - 11:15 AM	OP2	<b>The hormetic effect of disinfectants: Making pathogens stronger</b> <i>Samantha J Mc Carlie, Robert R. Bragg</i> <i>University of the Free State, Bloemfontein, South Africa</i>
11:15 AM – 12:00 PM	OP3	<b>Antimalarial efficacy of methanolic mangrove extract against Plasmodium falciparum – In vitro &amp; In vivo</b> <i>M. Syed Ali</i> <i>Mohamed Sathak College of Arts &amp; Science, Chennai, Tamilnadu, India</i>
12:00 - 12:15 AM	OP4	<b>Antioxidant and radical scavenging potential of silver nanoparticles catalysed by bio constituents in Terminalia arjuna bark and Smilax glabra Roxb</b> <i>V. Anuradha, M. Syed Ali</i> <i>Mohamed Sathak College of Arts &amp; Science, Chennai, Tamilnadu, India</i>
12:15 - 12:20 AM		<b>Session closing</b>
		<b>In-person session</b>
2:30 - 3:00 PM		<b>Arrival of participants at the NAST premise (Khumaltar, Lalitpur, Nepal)</b> <b>Onsite registration</b> <b>Conference materials collection</b>
3:00 - 4:00 PM		<b>Opening Ceremony</b>
4:00 - 4:45 PM	PL	<b>Plenary Lecture</b> <b>Genome profiling of Salmonella Typhi clinical isolates from Northern India to identify resistance mechanism for development of novel drug candidates</b> <i>Punit Kaur</i> <i>All India Institute of Medical Sciences (AIIMS), New Delhi, India</i>
4:45 - 5:00 PM		<b>Closing remarks of the Opening ceremony</b> <i>Rameshwar Adhikari (ICIDN-2023 Convener)</i>
5:00 - 7:00 PM		<b>Dinner</b> <b>Day I Closing/Announcements</b>

PL=Plenary Lecture, KL= Keynote Lecture, IL=Invited Lecture, OP= Oral Presentation

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### DAY II. SATURDAY, DECEMBER 16, 2023

9:30 - 10:00 AM		<b>Arrival of participants at the NAST premise (Khumaltar, Lalitpur, Nepal)</b> <b>Registration</b>
		<b>Keynote Lecture</b> <i>Moderator: Rameshwar Adhikari</i>
10:00 - 10:30 AM	KL2	<b>Dengue Virus Infection in Nepal: An Increasing Trend</b> <i>Shiba K Rai</i> <i>Nepal Medical College, Attarkhel, Kathmandu, Nepal</i>
10:30 - 10:40 AM		<b>Tea/Coffee break</b>
		<b>Symposium: Molecular Microbiology and Epidemiology of Infectious Diseases (I)</b> <i>Moderator: Netra Lal Bhandari</i>
10:40 - 11:00 AM	IL1	<b>Emerging challenges in rabies elimination in Nepal</b> <i>Sher Bahadur Pun</i> <i>Sukraraj Tropical and Infectious Disease Hospital, Kathmandu, Nepal</i>
11:00 - 11:15 AM	OP5	<b>Antibiotic resistant bacteria detected in pigeons' droppings in selected temples of Kathmandu: Urgent need to combat antimicrobial resistance</b> <i>Sofia Shahi Thakuri, Gagan Gurung, Sanjib Adhikari, Jyoti Acharya, Supriya Sharma</i> <i>Central Department of Microbiology, Tribhuvan University, Kathmandu, Nepal</i>
11:15 - 11:30 AM	OP6	<b>Screening of biofilm-producing and antibiotic resistant <i>Streptococcus mutans</i> from the oral cavity of smokeless tobacco (Gutkha) chewers in Dharan, Nepal</b> <i>Kamana Bantawa, Dhiren Subba Limbu, Srijana Bastola, Bishan Rai</i> <i>Central Campus of Technology, Tribhuvan University, Dharan, Nepal</i>
11:30 - 11:50 AM	IL2	<b>Environment surveillance of pathogenic viruses in the wastewater of Kathmandu, Nepal</b> <i>Reshma Tuladhar, Samendra P Sherchan, Sarmila Tandukar, Bhawana Sharma, Bhushan Raj Shrestha, Jivan Shakya, Avilasha Sharma, Dinju Manandhar, Manita Aryal, Dev Raj Joshi</i> <i>Central Department of Microbiology, Tribhuvan University, Kathmandu, Nepal</i>
11:50		<b>Session closing and Announcements</b>
12:00 - 1:30 PM		<b>Poster Session I + Lunch Break</b>
		<b>Symposium: Drug Design, Drug Delivery &amp; Nanomaterials</b> <i>Moderator: Shankar P. Khatiwada &amp; Shanta Pokhrel Bhattarai</i>
1:30 - 1:50 PM	IL3	<b>Merger of Ayurveda and Biotechnology for study of anti-cancer activity of Medicinal Plants of Nepal</b> <i>Bhupal Govinda Shrestha</i> <i>Kathmandu University, Dhulikhel, Nepal</i>
1:50 - 2:05 PM	OP7	<b>In Silico Exploration of Flavonoids for Dengue Therapeutics</b> <i>Anuraj Phunyal, Achyut Adhikari, Jhashanath Adhikari Subin, Rameshwar Adhikari</i> <i>Tribhuvan University, Kirtipur, Nepal</i>
2:05 - 2:20 PM	OP8	<b>Screening of phytochemicals as potential anti-breast cancer agents targeting HER2: An in-silico approach</b> <i>Sudarshan Lamichhane, Raj Prateek Rai, Amar Khatri, Rajendra Adhikari, Bhupal Govinda Shrestha, Simon Kumar Shrestha</i> <i>Kathmandu University, Dhulikhel, Nepal</i>
2:20 - 2:30 PM		<b>Health Break</b>
2:30 - 2:45 PM	OP9	<b>Insights of 1,3-Dicaffeoylquininate and N-Caffeoyltyramine interactions with SARS-CoV-2 Omicron variant main protease: An in-silico study</b> <i>Kalpna Gyawali, Rajesh Maharjan, Arjun Acharya, Madan Khanal, Madhav Prasad Ghimire, Tika Ram Lamichhane</i> <i>Tribhuvan University, Kathmandu, Nepal</i>
2:45 - 3:05 PM	IL4	<b>Morphology, Deformation, and Micromechanical Behavior of Electrospun PCL/PLLA/Gelatin/Vitamin D3 and Nano-hydroxyapatite-Blended Composite Nanofibrous Scaffolds</b> <i>Komal Prasad Malla, Sven Henning, Ralf Lach, Herbert Jennissen, Goerg Michler, Mario Beiner, Rameshwar Adhikari</i> <i>Pokhara University, Pokhara, Nepal</i>
3:05 - 3:10 PM		<b>Session closing</b>
3:15 - 3:55 PM		<b>Open Forum: Youth and Future of Life Sciences</b> <i>Moderator: Rameshwar Adhikari</i> <b>Honorary Guests:</b> <i>Dr. Aruna Uprety (Public Health and Nutrition Expert and Advocate)</i> <i>Dr. Arjun Karki (Internal Medicine, Critical Care, Educationist)</i>
3:55 - 4:00 PM		<b>Day II Closing/Announcements</b>

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**DAY III. SUNDAY, DECEMBER 17, 2023**

9:30 - 10:00 AM		Arrival of participants at the NAST premise (Khumaltar, Lalitpur, Nepal) <b>Registration</b>
		<b>Keynote Lecture</b> <i>Moderator: Rameshwar Adhikari</i>
10:00 - 10:30 AM	KL3	<b>Structural and biochemical insights into the bacteriophage PlyGRCS endolysin targeting MRSA <i>Staphylococcus aureus</i> isolates and serendipitous discovery of its interaction with a cold shock protein C (CspC) from <i>E. coli</i></b> <i>Padmanabhan Balasundaram</i> <i>National Institute of Mental Health and Neuro Sciences, Bengaluru, India</i>
10:30 - 10:40 AM		<b>Tea/Coffee Break</b>
		<b>Symposium: Molecular Microbiology and Epidemiology of Infectious Diseases (II)</b> <i>Moderator: Rajesh Pandit</i>
10:40 - 11:00 AM	IL5	<b>Challenges in Visceral Leishmaniasis in Elimination in Nepal</b> <i>Kishor Pandey</i> <i>Central Department of Zoology, Tribhuvan University, Kathmandu, Nepal</i>
11:00 - 11:15 AM	OP10	<b>Molecular Characterization of Extended Spectrum Beta Lactamase Producing <i>Escherichia coli</i> from Clinical Specimen</b> <i>Bindu Ghimire, Zenisha Acharya, Milan Uprety, Komal Raj Rijal, Prakash Ghimire</i> <i>Central Department of Microbiology, Tribhuvan University, Kathmandu, Nepal</i>
11:15 - 11:30 AM	OP12	<b>Hematological and biochemical profiles of patients with dengue virus infection in Lalitpur, Nepal</b> <i>Indira Raj, Subash Paudel, Santosh Shrestha, Debbie Manandhar, Shiba Kumar Rai</i> <i>Asrik Diagnostic Laboratory, Ekantakuna, Lalitpur, Nepal</i>
		<b>Session closing</b>
11:30 AM - 1:00 PM		<b>Poster Session II + Lunch Break</b>
		<b>Symposium: Molecular Microbiology and Epidemiology of Infectious Diseases (III)</b> <i>Moderator: Elina Maharjan</i>
1:00 - 1:20 PM	IL6	<b>Temporal analysis of SARS-CoV-2 variants during the COVID-19 pandemic in Nepal</b> <i>Samrat Paudel, Amol Dahal, Hitesh Kumar Bhattarai</i> <i>Department of Biotechnology, Kathmandu University, Dhulikhel, Nepal</i>
1:20 - 1:35 PM	OP13	<b>Molecular evidence of <i>Leishmania donovani</i> in stray dogs from slum areas of Dharan, Nepal</b> <i>Dhiren Subba Limbu, Kamana Bantawa, Dil Kumar Limbu, Prince Subba</i> <i>Central Campus of Technology, Tribhuvan University, Dharan, Nepal</i>
1:35 - 1:55 PM	IL7	<b>Colistin-resistant <i>mcr-1</i> gene in <i>E. coli</i> from poultry and slaughterhouse wastewater</b> <i>Pramila Parajuli, Pratikshya Pokharel, Bunu Khanal, Anisha Shrestha, Shyam Prasad Pant</i> <i>St. Xavier's College, Maitighar, Kathmandu, Nepal</i>
1:55 - 2:15 PM	IL8	<b>Circulation of antibiotic resistant bacteria with their resistance determinants in water environment of Kathmandu, Nepal</b> <i>Dev Raj Joshi, Sudeep K C, Santosh Khanal, Tista Prasai Joshi</i> <i>Central Department of Microbiology, Tribhuvan University, Kathmandu, Nepal</i>
2:15 - 2:35 PM	IL9	<b>Geometrical and Thermodynamical Stability of Adducts of Selected Phytochemicals with Helicase Protein of nCoV-19</b> <i>Jhashanath Adhikari 'Subin', Rameshwar Adhikari</i> <i>Tribhuvan Univeristy &amp; Bioinformatics and Cheminformatics Division, SRTN, Bhaktapur, Nepal</i>
		<b>Session closing</b>
2:35 - 3:30 PM		<b>Panel Discussion: Combating Infectious Diseases via Ayurvedic Approaches</b> <i>Moderator: Rameshwar Adhikari</i> <i>Panelists:</i> <i>Dr. Madhab P. Lamsal, Dr. Bishun Dayal Patel (Ayurveda Campus and Teaching Hospital, Tribhuvan University), Dr. Sarita Shrestha (Gynecologist, Ayurvedic physician)</i>
		<b>Day III Closing/Announcements</b>
		<b>Closing Ceremony of ICIDN-2023</b>
3:30 - 4:00 PM		<b>Remarks by guests and organizers</b>
4:00 - 4:15 PM		<b>Closing/Farewell Remarks</b> <b>Vote of Thanks</b> <b>Announcement of ICIDN-2025</b> <i>Rameshwar Adhikari</i>

## ICIDN 2023 - CONFERENCE TIMETABLE

### **DAY IV. MONDAY, DECEMBER 18, 2023**

- Timetable (9:00 AM - 4:00 PM): Excursion to Kathmandu Valley for *foreign guests*

### **POSTER SESSION**

Moderators: *Sharmila Pradhan & Netra Lal Bhandari*

Dates: *December 16 & 17, 2023*

Time: *11:30 AM - 1:00 PM*

### **List of Posters**

Poster No.	Title, authors
1	<b>Multidrug and ESBL resistant bacteria present in drinking water of Ratnanagar Municipality, Chitwan</b> <i>Jharana Khanal, Tika Karki, Tista Prasai Joshi</i>
2	<b>Antimicrobial activity of lichens and effect of silver nanoparticle extracted from lichens against bacterial isolates</b> <i>Lokraji Awasthi, Suman Rai</i>
3	<b>Beta-lactamase producing genes in Gram-negative bacteria isolated from clinical specimens</b> <i>Ashish Parajuli, Aruna Khanal, Anil Kumar Sah, Jeena Amatya</i>
4	<b>Green Synthesis, characterization of silver nanoparticles using <i>Nymphaea nouchali</i> Burm. f and its antioxidant and antimicrobial activities</b> <i>Asmita Rayamajhi, Nisha Gyawali, Achyut Adhikari</i>
5	<b>Identification of natural phytoecdysteroids as ROS1 inhibitor using in-silico approach</b> <i>Bishnu Adhikari, Rabindra Adhikari, Rameshwar Adhikari, Achyut Adhikari, Jhashanath Adhikari Subin</i>
6	<b>Extraction of nanoparticles by green synthesis of <i>Physica aipolia</i> (Ehrh.ex Humb.) Furnr and its application in biological activity</b> <i>Deepa Karki, Asmita Sapkota, Achyut Adhikari</i>
7	<b>Anti-cancer activity of zinc oxide nanoparticles in photodynamic therapy</b> <i>Crishpa Budha Magar, Jharna Bajracharya, Abhaya Rajkarnikar, Aarati Upreti, Palpa Paudel, Rishi Baniya, Rameshwar Adhikari</i>
8	<b>Preliminary structural characterization of commercial Ayurvedic Bhasmas as nanoformulation</b> <i>Bimal Rajchal, Pramod Bhatta, Rameshwar Adhikari</i>
9	<b>Investigation of antibacterial properties of essential oil extracted from <i>Hyptis suaveolens</i> (Ban-Tulsi)</b> <i>Ikcha Shahi, Elisha Dongol, Nelson Rai, Manish Man Shrestha, Sabina Shrestha, Rameshwar Adhikari</i>
10	<b>Effectiveness of antihelminth against ascariasis infection in slum area of Butwal, Nepal</b> <i>Shristi Bhandari, Kishor Pandey</i>
11	<b>Analyzing tuberculosis type distribution and prevalence by gender and age groups: A year-long study at Dhaulagiri Zonal Hospital, Baglung, Nepal</b> <i>Anisha K.C., Kishor Pandey, Laxman Khanal</i>

12	<b>Effectiveness of helminthic parasite control in <i>Ovis aries</i> of Chandragiri</b> <i>Sandhya Gautam, Kishor Pandey</i>
13	<b>Prevalence of trematode parasites in the liver of buffaloes brought to slaughterhouses in Bhaktapur</b> <i>Anju Karmacharya, Janak Raj Subedi</i>
14	<b>Epidemiological impact of temporal climatic variability on dengue in Kathmandu, Nepal</b> <i>Niten Bharati, Kishor Pandey</i>
15	<b>Green synthesis of silver nanoparticles using <i>Curcuma Longa</i> extract and its anti-microbial activity</b> <i>Asmita Sapkota, Deepa Karki, Supriya Sharma, Achyut Adhikari</i>
16	<b>Antibacterial properties of essential oil extracted from <i>Polygonum hydropiper</i> (Pirre Jhaar)</b> <i>Nelson Rai, Manish Man Shrestha, Ram Prasad Baral, Elisha Dongol, Rajesh Pandit</i>
17	<b>Holy Basil (<i>Ocimum sanctum</i>): Exploring the chemistry and antibacterial activity of the essential oil from a traditional medicinal plant via modern technology</b> <i>Manish Man Shrestha, Nelson Rai, Ram Prasad Baral, Elisha Dongol, Rajesh Pandit</i>
18	<b>Staphylococcal Cassette Chromosome mec (SCCmec) typing among Methicillin- Resistant <i>Staphylococcus aureus</i> (MRSA) from hospital environment and postoperative patients</b> <i>Krishma Pandit, Prativa Poudel, Sanjib Adhikari, Srijana Koirala, Supriya Sharma</i>
19	<b>Prevalence of <i>Salmonella</i> infection among the suspected enteric fever patients conducted at a secondary hospital in Kathmandu, Nepal</b> <i>Santosh Kumar Gupta, Khushbu Shah</i>
20	<b>Prevalence of inducible clindamycin resistance in <i>Staphylococcus aureus</i> isolated from clinical specimens</b> <i>Chandra Kant Yadav</i>
21	<b>MDR and ESBL <i>Escherichia coli</i> in wastewater of Biratnagar in Eastern Nepal</b> <i>Shrawan Sah, Dhiren Subba Limbu, Santosh Thapa</i>
22	<b>A Typhus and Typhoid fever outbreak: A diagnostic dilemma— Joypurhat, North-Western part of Bangladesh, 2021</b> <i>Sohel Rahman, Alden Henderson, Murshida Khanom, Ishrat Siddiqui, Tahmina Shirin</i>
23	<b>Exploring <i>Bacillus</i> species to combat Aflatoxigenic <i>Aspergillus flavus</i>: A potential tool for bioremediation</b> <i>Suprina Sharma, Dev Raj Joshi, Tika Bahadur Karki, Reshma Tuladhar</i>
24	<b>ESBL and MBL producing gram-negative bacteria isolated from a patient suspected of urinary tract infection visiting tertiary care hospital</b> <i>Gajendra Kumar Das</i>
25	<b><i>Candida albicans</i> carrier in oral cavity of patients with diabetes mellitus</b> <i>Raksha Rimal</i>
26	<b>DFT calculations for electronic and optical properties of wurtzite ZnO structure and molecular docking supported antimicrobial activity</b> <i>Mohan Bahadur Kshetri, Kamal Khanal, Madhav Prasad Ghimire, Tika Ram Lamichhane</i>
27	<b>TiO<sub>2</sub> electronic and optical properties and interactions with human serum albumin by density functional theory and molecular docking approach</b> <i>Kamal Khanal, Mohan Bahadur Kshetri, Madhav Prasad Ghimire, Tika Ram Lamichhane</i>
28	<b>Chemical Profiling and Anti-tick and Flea activity of Tar of Cedrus deodara from Karnali Region of Nepal</b> <i>Ram Prasad Baral, Pramodh Satyal, Rameshwar Adhikari, Achyut Adhikari</i>