

12th National Conference on Vector-Borne and Zoonotic Diseases
Zoological Survey of India, Kolkata
25-26th November 2019

PROGRAMME SCHEDULE

DAY 1 (25th November, 2019)

TIME	ACTIVITEIS
09.00 – 10.00	REGISTRATION
Session	Inauguration
10.00 – 10.05	Invocation of Saraswati Vandana & Deep-Jyoti
10.05 – 10.15	Welcome address by Dr. C. Raghunathan
10.15 – 10.30	Opening remarks by the Convenor Dr. Kailash Chandra, Director, ZSI
10.30 – 10.40	Brief remarks by Chief Guest and Guests of Honour
10.40 – 11.10	Address by the SOMA President Prof. Dr. B.K. Tyagi
11.10 – 11.15	Release of book and products by Dr. Kailash Chandra and the Chief Guest
11.15 – 11.20	Announcement for the 13 th SOMA Conference & SOMA website Prof. B.K. Tyagi and Dr. B. Reddya Naik
11.20 – 11.25	Vote of Thanks by Dr. D.S. Suman.
11.25 – 11.40	TEA
11.40 – 12.10	Inaugural Lecture by Prof. Aparna Dutta Gupta , UGC Professor Emeritus, Department of Animal Biology, School of Life Sciences, University of Hyderabad, Telangana Structure, expression and function of hexamerins and their potential in pest/vector management.
12.10 – 12.40	Inaugural Lecture by Prof. N. Chandrasekaran , Director, Centre for Nanobiotechnology, VIT Vellore, Tamil Nadu Innovative technological application for vector control



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12.40 – 13.10 **Inaugural Lecture** by **Prof. Dr. B.K. Tyagi** (Advisor, VIT University, Vellore, TN & *Emtd.* Scientist “G” (Director) & Director in-Charge, ICMR-CRME, Madurai, Tamil Nadu
Arthropod phylogeny and taxonomy, with emphasis on identification of Indian vector mosquitoes (Family Culicidae, Class: Insecta)

13.10 – 14.00 **LUNCH**

Session ***Vector Borne & Zoonotic Disease Transmission & Management***

14.00 – 14.15 **Plenary Lecture** by **Dr. Rina Tilak**, AFMC, Pune, Maharashtra
Lyme disease in India – an impending public health challenge

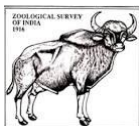
14.15 – 14.30 **Plenary Lecture** by **Prof. Neera Kapoor**, IGNOU, Delhi
Molecular characterisation of anti-malarial drug resistance genes from *Plasmodium falciparum* and *Plasmodium vivax*

14.30 – 14.40 **Oral talk** by **Dr. R.S. Sharma**, Adjunct Professor, ICMR and Former Additional Director, NVBDCP-Delhi
Malaria elimination in India: possibility and challenges

14.40 – 14.50 **Oral talk** by **Dr. Om Prakash Singh**, Institute of Medical Sciences, BHU, Varanasi, Uttar Pradesh
Transmissibility of *Leishmania donovani* from human to sand flies in an area endemic for Visceral leishmaniasis

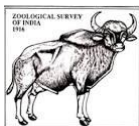
15.00 – 15.10 **Oral talk** by **Dr. Shashi Solanki**, Dept. of Zoology, DAV PG College, Dehradun, Uttarakhand
Arthropod vectors in domestic canines

15.10 – 15.20 **Oral talk** by **Dr. Diwakar Singh Dinesh**, ICMR- Rajendra Memorial Research Institute of Medical Sciences, Patna, Bihar
Control strategies for vector of Kala-azar in India



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- 15.20 – 15.30 **Oral talk by Sasmita Jena**, MoHFW, West Bengal
Plasmodium falciparum and *Plasmodium vivax* Malarial Situation at Ranibandh Block of Bankura District: An analytical report indicating increasing trend of *P. vivax* malaria
- 15.30 – 15.40 **Oral talk by Dr. Philip Samuel**, ICMR-VCRC Field Station, Madurai, Tamil Nadu
Biodiversity of haemotophagous ectoparasites from scrub typhus affected districts of Kerala and Tamil Nadu
- 15.40 – 15.45 **Rapid talk by Prof. Amit Bhattacharya**, Ramjas College, DU, Delhi
Antiplasmodial interactions between Artemisinin and Chalcone derivatives against blood stages of *Plasmodium falciparum* in vitro
- 15.45 – 15.50 **Rapid talk by Sagya Singh**, NVBDCP, Jharkhand
Mass drug administration with ivermectin, DEC, albendazole for elimination of Lymphatic filariasis-first exposure in tribal district of Jharkhand, India
- 15.50 – 15.55 **Rapid talk by Kaushik Rathore**, NVBDCP Daman and Diu
Elimination of Lymphatic filariasis achieved in Daman and Diu, India
- 15.55 – 16.00 **Rapid talk by Dr. V. Meenakshy**, Additional Director and SPO, NVBDCP, Kerala
Elimination of Lymphatic filariasis in Kerala: Status report
- 16.00 - 16.05 **Rapid talk by Rupal Ojha**, Department of Biochemistry, Central University of Rajasthan, Ajmer, Rajasthan
Conglomeration of novel *Culex quinquefasciatus* salivary proteins to Contrive multi-epitope subunit vaccine against infections caused by blood imbibing transmitter
- 16.05 – 16.10 **Rapid talk by Souvik De**, Zoological Survey of India, Kolkata, West Bengal
Prey and predator mosquitoes habitat sharing: is a potential biological control tool?
- 16.10 – 16.15 **Rapid talk by Dr. Thangavel Rajagopal**, Dept. of Zoology and Microbiology, Thiagarajar College, Madurai, Tamil Nadu



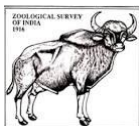
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Ponerine and carpenter ants as vectors of bacteria in residential and hospital environments

16.15– 16.25 **TEA**

<i>Session</i>	<i>Surveillance</i>
16.25 – 16.40	Plenary Lecture by Dr. Himmat Singh , ICMR- National Institute of Malaria Research, Delhi Role of public places and parks in maintaining dengue virus during non-transmission season in urban system
16.40 – 16.50	Oral talk by Dr. A.B. Sudeep , ICMR- National Institute of Virology, Pune, Maharashtra Investigation of dengue virus outbreak in Wadi area of Nagpur: a comprehensive study
16.50 – 16.55	Rapid talk by Dr. M.D. Gokhale , Medical Entomology and Zoology, National Institute of Virology, Pune, Maharashtra Bionomics of <i>Aedes aegypti</i> in Pune with reference to dengue and chikungunya
16.55 – 17.00	Rapid talk by Debanjan Patra , CARE India Solution for Sustainable Development, Patna, Bihar Abundance of <i>Phlebotomus argentipes</i> and incidence of Visceral Leishmaniasis in different study sites of Eastern India
17.00 – 17.05	Rapid talk by Dr. J. Selvakumari , ICMR- VCRC, Puducherry Japanese Encephalitis vector surveillance in the endemic district of Thiruvallur, Tamil Nadu, India.

<i>Session</i>	<i>Ecology</i>
17.05 – 17.20	Plenary Lecture by Dr. Pratap Shil , ICMR-NIV, Pune, Maharashtra Dengue in rural Pune (2000-2016): Role of meteorological parameters
17.20 – 17.30	Oral talk by Anju Viswan K , NCDC Jagdalpur, Chhattisgarh



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Aedes: Breeding potential in Kozhikode corporation, Kerala

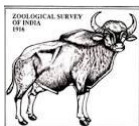
- 17.30 – 17.35 **Rapid talk** by **Shreshree Kumar**, EVBRU, Dept. of Zoology for UG and PG Studies, Serampore College, Hooghly, West Bengal
Effects of quality of food on life history traits of *Aedes aegypti*
- 17.35 – 17.40 **Rapid talk** by **Sutithi Banarjee**, Dept. of Zoology for UG and PG Studies, Serampore College, Hooghly, West Bengal
Effects of intraspecific larval competition on selected life history traits of *Aedes aegypti*
- 17.40 – 17.45 **Rapid talk** by **Madhurima Seal**, Parasitology and Microbiology Research Laboratory, University of Burdwan, Bardhaman, West Bengal
Diversity and characterization of bacterial flora isolated from the breeding habitat of *Anopheline* fauna along with their role of mosquito ovipositional response
- 17.45 – 17.50 **Rapid talk** by **Dr. P. Senthamarai Selvan**, Veterinary and Fisheries Arthropod Laboratory, ICAR-NBAIR, Attur Layout, Bangalore, Karnataka
Semiochemicals for management of dengue/chikungunya vector *Aedes aegypti* (L.)

Poster Presentation *Posters belong to Day 1 themes will be displayed on the screens at 1st Floor gallery from 14.00 to 17.00*

Day 2 (26th November 2019)

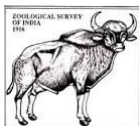
Session **Vector Management**

TIME	ACTIVITIES
10.00 – 10.15	Plenary Lecture by Dr. D.S. Suman , Diptera Section, Zoological Survey of India, Kolkata, West Bengal Development of biolarvicide formulations from essential plant oils and their efficacy against different mosquito vectors



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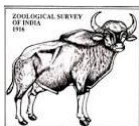
- 10.15 – 10.30 **Plenary Lecture by Dr. B. Reddya Naik**, Zoology Department, Osmania University, Hyderabad, Telangana
Biological synthesis of nanoparticles as potential larvicides against vector mosquitoes
- 10.30 – 10.40 **Oral talk by Dr. Alok Suman Sharma**, Public Health, Jusco, Tata Steel, JSR, Jharkhand
Minimized the threat of dengue and chinkungunya in Jamshedpur town- An industrial area, Jharkhand
- 10.40 – 10.50 **Oral talk by Dr. Devanatahan Sukumaran**, Vector Management Division, DRDE, Jhansi Road, Gwalior, Madhya Pradesh
Vector management tools and techniques for the protection of Indian armed forces from arthropod vectors
- 10.50 – 11.00 **Oral talk by Dr. Devinder Kocher**, Zoology Department, Punjab Agriculture University, Ludhiana, Punjab
Herbal Emulsions: A promising approach in *mosquito* control
- 11.00 – 11.10 **Oral talk by Prof. B.K. Tyagi**, Advisor, VIT Univ., Vellore; Emtd Sci. "G" (Director) & Director in-Charge, ICMR-CRME, Madurai, Tamil Nadu
Dr. Ronald Ross: An Indian discoverer of the inextricable link between mosquito and malaria – a relook at the Nobel Prize winning primacy and priority claims between Ross and Grassi
- 11.10 – 11.20 **Oral talk by Dr. Vijay Kumar**, Dept. of Vector Biology and Control, Rajendra Memorial Research Institute of Medical Sciences (ICMR), Patna, Bihar
Experiencing and comparing the efficacy of SP-IRS versus DDT-IRS for combating VL vector in Bihar
- 11.20 – 11.30 **Oral talk by Dr. M. Gabriel Paulraj**, Entomology Research Institute, Loyala College, Chennai, Tamil Nadu
Mosquito diversity and their ecofriendly management in Chennai district
- 11.30 – 11.40 **Oral talk by Dr. Sarita Kumar**, Dept. of Zoology, Acharya Narendra Dev College, University of Delhi, Delhi



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Structure, expression and function of hexamerins and their potential in pest/vector management

- 11.40 – 11.50 **TEA**
- 11.50 – 11.55 **Rapid talk by Prity Ranjan Pahari**, PG Dept. of Zoology, Tamralipta Mahavidyalaya, Tamluk, Medinipur, West Bengal
A study on the *Culex quinquefasciatus* (Say, 1823) control potentiality of *Colisa faciata* (Bloch & Schneider, 1801) in laboratory condition
- 11.55 – 12.00 **Rapid talk by Dr. Sarita Kumar**, Department of Zoology, Acharya Narendra Dev College, University of Delhi, Delhi
Characterization of acetamiprid resistance in the laboratory population of *Aedes aegypti* L.
- 12.00 – 12.05 **Rapid talk by Madhuri Swain**, Care India Solutions for Sustainable Development, Patna, Bihar
Assessing the insecticide susceptibility and knock down status of *Leishmania donovani* in a natural population of *Phlebotomus argentipes* (Diptera: Psychodidae) collected in the VL endemic areas of Bihar, Jharkhand and West Bengal
- 12.05 – 12.10 **Rapid talk by Dr. Varun Tyagi**, Division of Pharmaceutical Technology, Defense Research Laboratory, DRDO, Tezpur, Assam
Contact toxicity study of permethrin and bifenthrin treated battle dress uniform against different insect vectors
- 12.10 – 12.15 **Rapid talk by Dr. Shivraraj Yallappa**, Dept of studies and Research in Zoology, Tumkur University, Tumakuru, Karnataka
Bacteria *Bacillus thuringiensis* (Serotype 14) crystal toxins shows non-toxic effects on fingerlings freshwater fish *Cyprinus carpio* against the mosquito larvae.
- 12.15 – 12.20 **Rapid talk by Adesalu Oluwakemi**, Nigera Institute of Medical Research. P.M.B. 2013, Lagos, Nigeria
Cytochrome P450 and Glutathione S Transferases enzymes implicated in the resistance of *Aedes aegypti* to Permethrin insecticide in Lagos, Nigeria



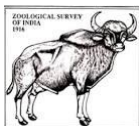
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Session *Climate Change*

- 12.20 – 12.35 **Plenary Lecture** by **Prof. Jagbir Singh Kirti**, Dept of Zoology & Environmental Sciences, Punjabi University, Patiala, Punjab
Impact of environmental factors on mosquito population abundance and distribution in Punjab
- 12.35 – 12.40 **Rapid talk** by **Praveen Kumar**, Department of Environmental Science, Central University of South Bihar, Patna, Bihar
Climatic variables and malaria transmission dynamics in the northern district of Odhisa, India
- 12.40 – 12.45 **Rapid talk** by **Bishnupada Sheet**, Bhetkipur High School, Purkait Para, Mathurapur, Dist. South 24 Paraganas, West Bengal
Impact of global warming and climate change on vector diseases of Sundaraban region of W.B.
- 12.45 – 12.50 **Rapid talk** by **Dr. Rupak Kumar**, Shamir Research Institute, University of Haifa, Qatzrin, Israel
Pollutant may fuel the spread of vector borne diseases (VBDs)
- 12.50 – 12.55 **Rapid talk** by **Dr. Prabhaker Mishra**, Asst. Professor, Dept. of Biotechnology, Reva University, Bengaluru, Karnataka
Improved potency of nanosized pyrethroid emulsion towards control of dreadful mosquito vectors
- 12.55 – 14.00 **LUNCH**

Session *Taxonomy*

- 14.00 – 14.15 **Plenary Lecture** by **Dr. Vijay Veer**, Former Director, Defence research Laboratory, Tezpur, Assam
Black flies (Diptera: Simuliidae) and their medical importance in India



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- 14.15 – 14.25 **Oral talk by Prof. Gayatri Swarnakar**, Department of Zoology, Govt. Meera Girls college, Udaipur, Rajasthan
Malaria vectors in tribal region of Udaipur district of southern Rajasthan
- 14.25 – 14.35 **Oral talk by Dr. Badrul Amin Bhuiya**, Chairman, Biodiversity Research Group of Bangladesh, Bangladesh
Mosquitoes of Chattogram: Identification and Management
- 14.35 – 14.45 **Oral talk by Dr. S. Anbalagan**, Dept. Of Zoology, Govt. Arts College, Melur, Tamil Nadu
The black flies (Simuliidae) of India: present status and future needs
- 14.45 – 14.50 **Rapid talk by Dr. Sambashiva Daravath**, Department of Biotechnology, Nizam College, Hyderabad, Telangana
Significance of DNA Barcoding in vector management
- 14.50 – 14.55 **Rapid talk by Deepika Panda**, Berahampur University, Odisha
Wing morphometrics and DNA barcoding analysis to distinguish two different species of *Anopheline* mosquito
- 14.55– 15.00 **Rapid talk by Anurag kumar Kushwaha**, Department of Medicine, Institute of Medical Sciences, BHU, Varanasi, Uttar Pradesh
Identification of possible non- human reservoir host of VL transmission in Bihar, India
- 15.00 – 15.05 **Rapid talk by Dr. Pallab Saha**, Mol Bio Diagnostics Pvt. Ltd., Verna, Goa Novel, point-of-care, real time qPCR for detection of dengue, chikungunya and malaria promoting 'ASSURED' criteria of world health organization recommendation - a made in India initiative

Session Interactions/Physiology/Behaviour

- 15.05 – 15.20 **Plenary Lecture by Dr. Paban Kumar Dash**, DRDE, Jhansi Road, Gwalior, Madhya Pradesh
Vector-borne viruses and future strategies



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- 15.20 – 15.30 **Oral talk by Dr. Rajnikant Dixit**, Laboratory of Host Parasite Infection Biology, ICMR- NIMR, Delhi
A gut-brain axis communication and symbiotic association manages blood meal associated "metabolic switch" event in the mosquito *Anopheles culicifacies*
- 15.30 – 15.40 **Oral talk by Dr. Surajit Basak**, ICMR- NICED, Division of Bioinformatics, Kolkata, West Bengal
Evolutionary selection of envelope protein of dengue virus genome (Serotype 1)
- 15.40 – 15.50 **Oral talk by Dr. Rachana Banerjee**, Centre for Health Science and Technology, JIS Institute of Advance Studies & Research, Kolkata, West Bengal
Evolutionary dynamics of H1N1 genomes
- 15.50 – 16.00 **TEA**
- Poster Presentation* **Posters belong to Day 2 themes will be displayed on the screens at 1st Floor gallery from 11.00 to 15.00**

Session **Valedictory Ceremony**