



ESTD. 1892



17th International Conference of Medical Arthropodology

on

“Malaria and other Vector-borne & Zoonotic Diseases: Current Challenges and Opportunities in Public and Veterinary Health”

To achieve the objectives of



20-21 November, 2024

(On Nov. 22, there will be a visit to historic places)



Organized by:

P.G. Department of Zoology

Khalsa College, Amritsar - 143002 (Punjab), India

Sponsored by:



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Cordial Invitation

Dear Colleagues,

Medical Arthropodology is an incredibly exciting discipline which constitutes an integral part of public health, biomedical and bioengineering sciences. It includes various branches like medical entomology, medical arachnology, medical myriapodology and Medical carcinology. Although, most of the arthropods are not harmful to humans and, in fact, many are highly beneficial organisms, yet, many isolated groups of spiders, scorpions, mites, ticks and, particularly, insects concern humans because of their harmful nature of causing injuries through their poisonous bites and/or stings, disturbing tranquility of humans' living environment and, above all, playing a key role in transmitting a large number of deadly and/or debilitating diseases. Vector-borne & Zoonotic Diseases, caused by either parasites, bacteria or viruses, account for more than 17% of all infectious diseases worldwide, causing more than 700,000 deaths annually. Many arthropod-borne infections have in recent past made a spectacular come back with devastating impact (e.g., chikungunya, Zika Virus) , while some new infections, too, sprang up with an unseen complexity and novelty such as that of COVID-19 caused by SARS-CoV-2. Consequently, Emerging and re-emerging vector-borne and zoonotic diseases the world over have now assumed a greater degree of significance than ever before!

Among the numerous infectious agents reported globally, 60% of pathogens were found to have a history of zoonotic origin. During past couple of decades India has witnessed a plethora of towering outbreaks of emerging and re-emerging infectious arthropod-borne diseases which were all managed in the long run by a combined force of community participation and scientific agility and preparedness. Still many diseases such as, for example, Lyme disease, Rocky mountain spotted fever rickettsiosis, Ross fever, West Nile, dengue, Zika virus, chikungunya, malaria, WEE, EEE, Japanese encephalitis, Khyasanur Forest Disease, Scrub typhus, Powassan, human anaplasmosis, babesiosis etc. Several factors are responsible for the emergence and re-emergence of these and other deadly infections, most important among which include geographic expansion of the vectors, anthropization and, above all, Climate Change and Global Warming. The situation is grim and need tackling it through consilience. Solution to manage the future emerging and re-emerging infections lies in the scientific endeavours and implementation of necessary preventive and curative measures intelligently and diligently with the aid of efficient modern tools and strategies in an integrated manner.

The **17th SOMA International Conference of Medical Arthropodology** on "***Malaria and other Vector-borne & Zoonotic Diseases: Current Challenges and Opportunities in Public and Veterinary Health***" will hopefully provide a unique opportunity to bring all the possible knowledge at one platform for extensive deliberation and solution-finding exercise.

With kindest regards, and looking forward to having your active participation in the 17th International Conference of Medical Arthropodology (SOMA), we remain,

Yours sincerely,

Prof (Dr) Jaswinder Singh and Prof. (Dr) B.K. Tyagi |

The P.G. Department of Zoology

The Department of Zoology was established in 1932 with an aim to provide quality education to students and contribute for the development of Animal Sciences. The department has well established laboratories equipped with modern scientific instruments and state-of-the art infrastructure. The faculty is actively engaged in research projects funded by various agencies like UGC, DST (New Delhi) and PSCST (Chandigarh). The Department has published more than 300 research papers in journals of national and international repute. The Natural History Museum in Department of Zoology exhibits a vast range of specimens from various segments of natural history. The museum is home to about 800 well preserved specimens belonging to the major and minor phyla of Zoology. The museum is particularly famous for its exhibition of articulated skeletons of elephant, camel and donkey. At the same time it is famous for its ornate architecture – which is a blend of British, Mughal and Sikh architect. Beside the various preserved specimens of each phylum (both invertebrates and vertebrates), other rare specimens include Dolphin, Echidna, Crocodile, Gavialis and aborted human as well as other mammalian embryos, and ostrich egg. The museum is recognized as the pre-eminent centre of natural history and research in related fields. The Department is offering B.Sc. (Medical), M.Sc. (Zoology), Diploma in Medical Laboratory Technology and Vermicomposting as Value Added course.



The Khalsa College, Amritsar

Khalsa College was established in 1892 with the main objective to spread the benefits of modern education in Humanities, Agriculture, Science and Technology amongst the people of Punjab. College campus covers an area of over 300 acres and provide latest facilities for higher education. Its architectural features are a mix of British, Mughal and Sikh architect. Khalsa College's contribution towards the freedom history of India is significant as it has generated many famous freedom fighters, political leaders, armed forces generals, scientists, famous players-Olympians, actors, writers, journalists and scholars. In 1930, a Sikh Research Centre was founded within the college of Ganda Singh, who headed it until 1947. The Sikh Research Centre of Khalsa College has since grown to encompass a library and art galleries, containing thousands of artefacts, books, manuscripts, and paintings related to Sikhs and Sikhism. The current collection is 6,397 books, 375 paintings, 601 manuscripts, newspapers dating back to 1904, 675 files/books/journals, coinage, historical photographs, and weaponry.

The college has been conferred the autonomous status affiliated to Guru Nanak Dev University, Amritsar. College is NAAC Accredited with 'A+' Grade and Conferred with 'College with Potential for Excellence' status by UGC and 'Star Status' by the DBT. Presently, the college is running 71 Post-graduate and Undergraduate programmes.



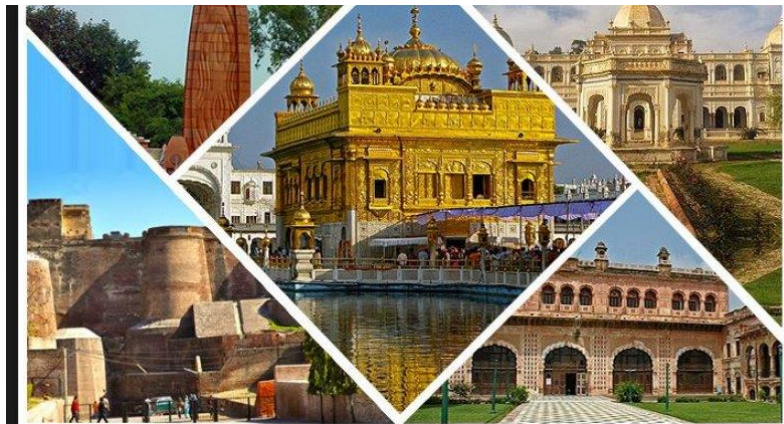
Society of Medical Arthropodology

The Society of Medical Arthropodology (SOMA; www.soma16.org), established in 2016 as a non-profit scientific society, is a unique scientific association devoted to the enhancement of knowledge about arthropods for their biomedical, pharmacological, bioengineering and nutrition significance – with an aim of serving Science and Society. The Society works as a “Global Family of Friends” comprising under one single umbrella all the public/veterinary health researchers from across the world. The society is interested in promoting Arthropodology through:

- (i) the encouragement of understanding, cooperation and friendship among medical arthropodologists throughout the world,
- (ii) (ii) encouragement of international collaboration in medico-arthropodological research activities and services,
- (iii) (iii) planning and organization of national/international symposia and regional meetings of medico-arthropodologists, and
- (iv) (iv) conservation of arthropods of pharmacological and nutritional importance, and their natural habitats through taxonomic and biodiversity explorations.

The City of Amritsar

Amritsar is the largest and most important city in Punjab and is a major commercial, cultural, and transportation centre. It is also the centre of Sikhism and the site of the Sikhs’ principal place of worship—the Harmandir Sahib, or Golden Temple. It lies about 15 miles (25



km) east of the border with Pakistan. Amritsar not only is home to hundreds of thousands of Sikhs but also is the chief pilgrimage destination for Sikhs living elsewhere in India and abroad. A short distance away from the Golden Temple complex is a spacious park, Jallianwala Bagh, where on April 13, 1919, British colonial government troops fired on a crowd of unarmed Indian protesters, killing 379 of them and wounding many more. Amritsar is a centre for the textile and chemical industries and also engages in food milling and processing, silk weaving, tanning, canning, and the manufacture of machinery. The city lies on the main highway from Delhi to Lahore, Pakistan, and is a major rail hub. Other tourist attraction in Amritsar are Jallianwala bagh, Durgiana Temple and of course the Khalsa College, Amritsar.

International Conference on

"Malaria and other Vector-borne & Zoonotic Diseases: Current Challenges and Opportunities in Public and Veterinary Health"

Thrust areas

- (i) Prognosis, Epidemiology, Diagnosis, Control and Management of emerging and re-emerging –
(a) *Viral Diseases*, (b) *Fungal Diseases*, (c) *Bacterial Diseases*,
(d) *Protozoan diseases* (e) *Helminthic diseases*, and (f) *Zoonotic Diseases*
- (ii) Medical Arthropodology (Medical/Veterinary/Forensic Entomology, Arachnology, Myriapodology and Carcinology)
- (iii) Taxonomy and identification of Vectors
- (iv) Vector Biology and Ecology
- (v) Vector Ecology.
- (vi) Control and Management of Vectors
- (vii) Climate Change and its impact on emerging and re-emerging diseases.
- (viii) Evolution of Emerging Diseases.
- (ix) Use of AI in taxonomy, vector identification and preventing outbreaks in future
- (x) Development of integrated tools from the biology and behavior of medically important Arthropods.

Abstract Submission

The participants are requested to send a copy of the abstract for oral /poster presentation not exceeding 250 words (in WORD, 12 pt, single space, without References, Tables or Figures, through e-mail to: abktyagi@gmail.com) on or before 4th November, 2024. **ALL ABSTRACTEES WILL HAVE TO INVARIALLY REGISTER WITH FEES PAID.**

Posters should be 4x5 ft in size. A Poster should be representative to a future manuscript; with structured details aided with appropriate Table(s) and Figure(s) as well as References.

Abstracts must be based on ORIGINAL research and should have a clear Title, which should be followed by Names of authors, and next by their affiliations. The Abstract should be prepared in a structured style as: Title, Summary, Background, Material & Methods, Observations & Results and Discussion.

If more than one author, the presenting Author's name should be underlined. His/Her Email must appear at the end of his/her affiliation. |

Registration (Registration fee for the Conference will be as follows):

Category	Early Registration	Spot Registration
Students	Rs. 900	Rs. 990
Research Scholars	Rs 2500	Rs 3500
SOMA Life Members	Rs. 3000	Rs. 4000
Faculty/Scientist	Rs. 3500	Rs. 4500
Accompanying person	Rs. 1500	Rs. 2000

Registration and Abstract submission are open now. Registration fee should be paid in favour of Society of Medical Arthropodology by way of Bank Account e-Transfer to the bank details given below.

N.B.: Acceptance of an Abstract is subject to duly paid Registration Fee with Form filled and submitted with bank proof to Prof. B.K. Tyagi (abktyagi@gmail.com)

Bank Account Details

- (1) NAME of A/C holder: **Society of Medical Arthropodology**
- (2) A/C No. of Pass Book: **62508094822** (3) BANK NAME: **State Bank of India, Hyderabad**
- (4) BANK BRANCH: **Osmania University, Hyderabad** (5) IFS Code: **SBIN0020071**
- (5) MICR CODE: **500004044**

All registrants, except Accompanying Persons, will be entitled to conference portfolio with conference paraphernalia incl. Abstracts book, and, along with accomplices, to tea, snacks, lunch and any sponsored dinner during the conference.

Accommodation

Ten Rooms, on payment basis by the individual occupant (Single @ Rs. 2800.- or Double @ Rs. 3800.- per day incl. breakfast and dinner), have been booked in the Hotel Ritz Plaza, 45 The Mall, Amritsar for three days on Nov. 19, 20 and 21, 2024. Two persons sharing a double room may part with the payment. For Research Scholars/Students, accommodation has been made in the respective Boys' and Girls' Hostels of the Khalsa College @ Rs. 300.- per day incl. breakfast and dinner.

Those staying in the Hotel Ritz will pay to SOMA, before Nov. 15, 2024. Those staying in the Hostels will pay Dr Jaswinder Singh, Convener. Please enquire and book in advance, preferably before 10th Nov., 2024. Please contact Prof. Jaswinder Singh.

The Venue

The seminar will be held at the Khalsa College, Amritsar. The College Campus is located 2 km from the Railway Station, and 4 km from the Bus Stand. The Airport in Amritsar is only 15 km away from the Khalsa College.

Climate

The climate is expected to be very pleasant during November, with occasional showers with cold nights. The minimum-maximum temperature reaches to 27/29°C. It is the best time to visit Amritsar for sightseeing, too. ■

ORGANIZING COMMITTEE

Under The Guidance of

S. Satyajit Singh Majithia, President

&

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Dr Taminder Singh, Dean Academic Affairs, Khalsa College Amritsar

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Prof. Dr E. Pushpalatha, Deptt. of Zoology, Calicut University, Calicut (Kerala)

Prof. Dr N. Gopalan, Head, Deptt. of Public Health & Epidemiology, CUTN, Thiruvavur (TN)

Convener

Dr Jaswinder Singh, M: 9814072549

Head, P.G Deptt. of Zoology, Khalsa College, Amritsar

Organizing Secretaries

Dr. Amandeep Singh (M: 9855982589) & Mr. Randeep Singh (M: 9646014115)

P.G Deptt. of Zoology, Khalsa College, Amritsar

International Conference Coordinator

Prof. Dr B.K. Tyagi, M: 9047754757

President, Society of Medical Arthropodology & Chairman of the Standing Committee
for the Organization of International/National Conferences

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2. Mr. Randeep Singh, P.G Deptt. of Zoology, Member
3. Dr. Satinder Kaur Pannu, P.G Deptt. of Zoology, Member
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8. Ms. Nikhar Sharma, P.G Deptt. of Zoology, Member
9. Ms. Sakshi Kaushal, P.G Deptt. of Zoology, Member
10. Mr. Narottam Khajuria, P.G Deptt. of Zoology, Member

Important Dates / Deadlines to Remember

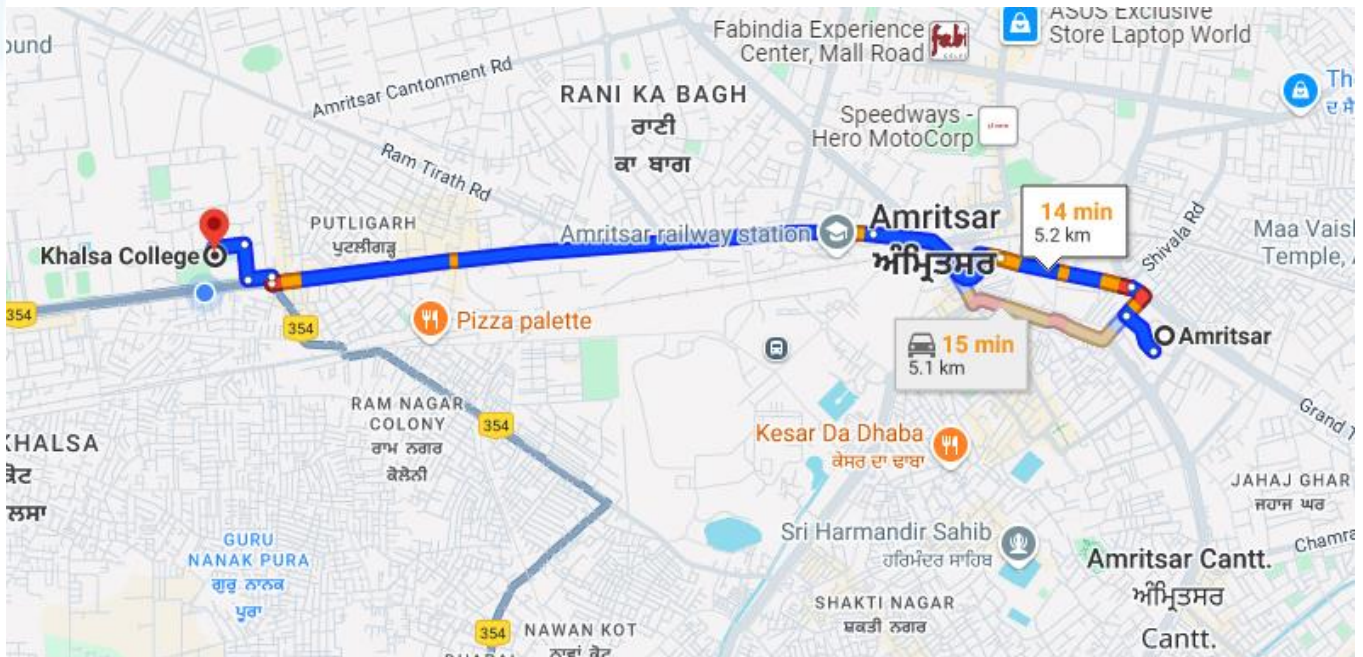
Conference Dates	: 20 - 21 November, 2024
Sightseeing^{*,#}	: 22 November, 2024 (Extra costs*)
Registration	: On or before 4th November, 2024
Abstract submission	: On or before 4th November, 2024

***Interested participants will be needed to pay for the visits to historic places such as The Golden Temple and Jallianwala Bagh, on 21st Nov., 2024 itself.**

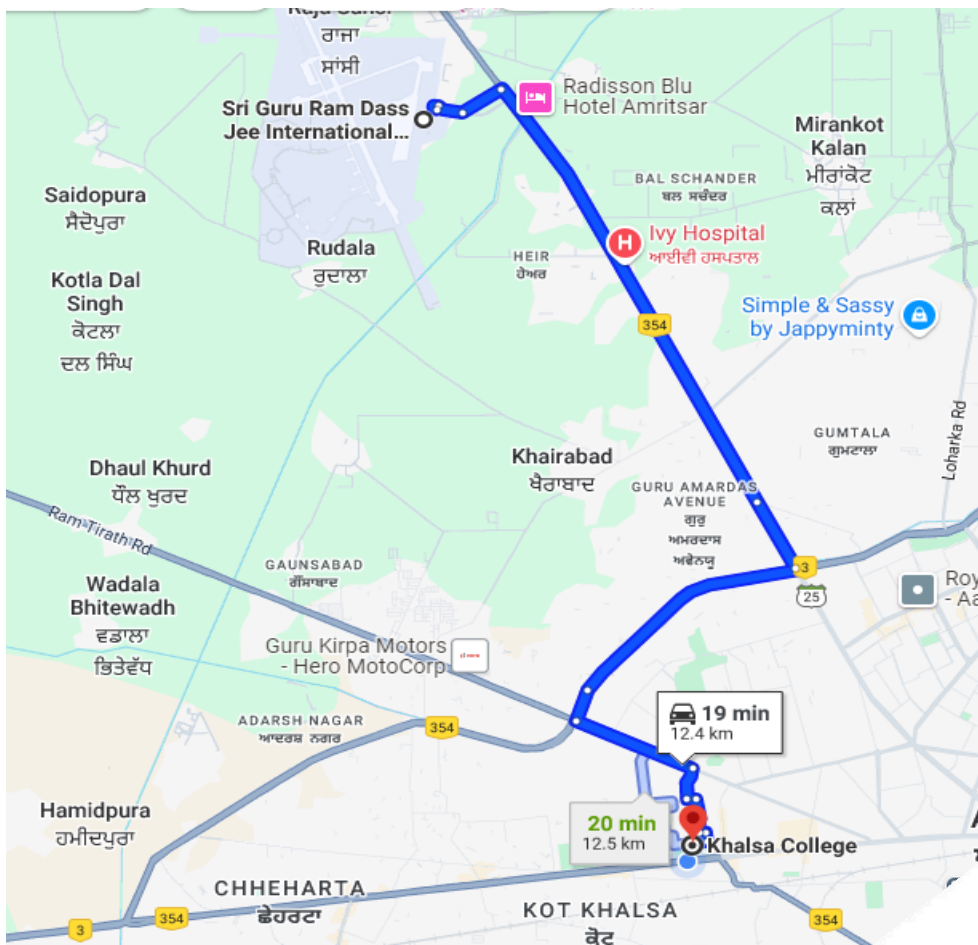
**# Please contact: Prof. B.K. Tyagi, Phone: 9047754757;
Email: abktyagi@gmail.com**

HOW TO REACH KHALSA COLLEGE, AMRITSAR (PUNJAB)

(1) From Bus stand and Railway Station



(2) From Airport to Khalsa College Amritsar



Plenary / Keynote Lectures

1. **Plenary Lecture ... Prof. Dr Devinder Singh,**
Pro VC, Chandigarh Univ., Mohali, Punjab, India
2. **Keynote Lecture... Prof. Dr B.K. Tyagi**
President, SOMA
3. **Keynote Lecture... Dr Vijay Veer**
Former Director, DRL (DRDO), Tezpur, Assam
4. **Keynote Lecture... Prof. Dr Jagbir Singh**
Former Head, Deptt of Zool. & Env't Sci, PU, Patiala
5. **Keynote Lecture... Prof. Dr B. Reddy Naik**
Former Head, Zool. Deptt & Dir., SRRIP, OU, Hyderabad
6. **Keynote Lecture... Dr R.S. Sharma**
Former Scientist, SAG Level & Ex. Addl. Dir., NVBDCP, Delhi
7. **Keynote Lecture... Dr Rina Tilak**
Former Scientist 'G', AFMC, Pune
8. **Keynote Lecture... Prof. E. Pushpalatha**
Former Head, Zool. Deptt., Calicut Univ., Kerala
9. **Keynote Lecture... Prof. Dr N. Gopalan**
Head, Deptt. of Epidemiol. & Pub. Hlth, CUTN, Thiruvapur
10. **Keynote Lecture... Prof. Dr Devinder Kaur Kocher**
Zoology Department, PAU, Ludhiana
11. **Keynote Lecture... Prof. Dr Madhavi P.**
Head, Zoology Deptt. & Dir., SRRIP, OU, Hyderabad
12. **Keynote Lecture... Dr Sambashiva Daravath**
Assistant Professor, Nizam Coll. (OU), Hyderabad
13. **Keynote Lecture... Dr. Rajeev K. Tyagi**
Ramalingaswamy Fellow & Faculty, IMTECH, Chandigarh
14. **Keynote Lecture... Dr Varun Tyagi**
Eurofins Advinus Agrosci. Serv. India Pvt. Ltd., Bengaluru
15. **Keynote Lecture... Prof. Dr Abhijit Mazumdar**
Head, Zoology Deptt., Burdwan Univ., Burdwan
16. **Keynote Lecture... Prof. Dr Dhiraj Saha**
Head, Zoology Univ., North Bengal Univ., Siliguri
17. **Keynote Lecture... Prof. Dr Neera Kapoor**
Head, Life Sciences, IGNOU, Delhi
18. **Keynote Lecture... Dr Manas Sarkar**
Reckitt Benckiser, Gurgaon
19. **Keynote Lecture... Dr S.N. Sharma**
Former Joint Director, NCVBDC, Delhi
20. **Keynote Lecture... Dr R.K. Dixit**
Scientist 'E', ICMR-NIMR, Delhi
21. **Keynote Lecture... Dr Himmat Singh**
Scientist 'E', ICMR-NIMR, Delhi

For All Conference Organizational Matters



Address for Communication

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For All Scientific Matters (Registration, Abstract, City Tour etc.)



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