

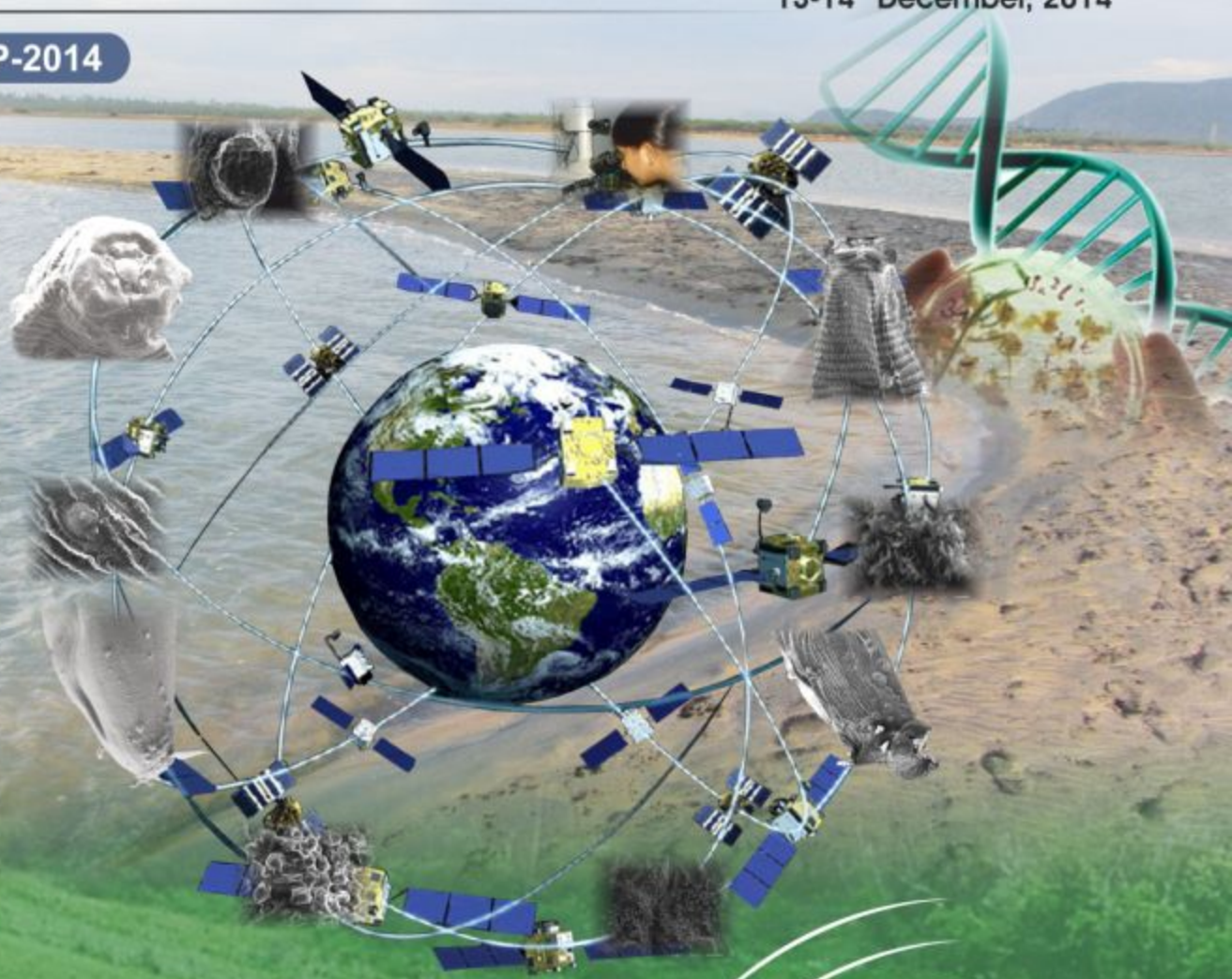
# Global Biodiversity Meet on Parasites and Aquatic Ecosystem Health

12-15<sup>th</sup> December, 2014

## International Satellite Workshop on Biotechnological Approaches for Environmental Sustenance

13-14<sup>th</sup> December, 2014

**GBMP-2014**



Convener

**Prof. Sandeep K. Malhotra, D.Sc.**

Convener (Foreign)

**Prof. R.S. Pandey**

Workshop Incharge:

**Dr. Ms. Neeshma Jaiswal, F.Z.S.I., F.H.S. Post-Doctoral Fellow**

Treasurer

**Prof. Anoop Chaturvedi**

Co-Convener

**Dr. K.P. Singh**

Organised by:

Parasitology Laboratory,  
Department of Zoology,  
University of Allahabad,  
Allahabad-211002, U.P., India

Sponsored by:

Department of Biotechnology (DBT)  
Department of Science & Technology (DST)  
Indian National Science Academy (INSA)  
Indian Council of Medical Research (ICMR)  
Council of Science & Technology, U.P. (C.S.T., U.P.)  
Defence Research & Development Organization (DRDO)  
Board of Research in Nuclear Sciences (BRNS)  
University Grants Commission, GOI

Cover credits : Estuary, Vishakhapatnam - Ms. Purna Shukla



## About the Workshop

- The Workshop is open to all Research Fellows, Scientists and Researchers in general below 35 years age as on 15<sup>th</sup> October, 2014. Interested Participants may download the application form (*To be available soon on website*) from [www.genotoxicityindia.com](http://www.genotoxicityindia.com). Fee structure for the workshop given on Registration Form.
- A maximum of 20 young participants shall be selected by the Organizing Committee after screening of all the applications received.
- The application form, only on format prescribed, along with a Bank Draft drawn in favour of "Principal Investigator", payable at Allahabad, may be submitted online ([neeshiversity@gmail.com](mailto:neeshiversity@gmail.com)) or by post, with High School certificate as age proof to:

**Dr. Ms. Neeshma Jaiswal**

F.Z.S.I., F.H.S.

Post-Doctoral Fellow

P.B. No. 2010, Parasitology Laboratory, Department of Zoology,  
University of Allahabad, Allahabad-211002, U.P., India

- The traveling expenses to and fro Allahabad from the station of origin of journey by shortest route, to the selected Young Scientists, in the class applicable, shall be borne by the Organizing Committee. Suitable arrangements for stay of the participants shall also be made.
- The participants shall be required to make an oral presentation on the topic of their research and they must come prepared with a CD for LCD projection.
- A poster competition amongst the participants shall also be held. The participants willing to join this contest shall have to bring their posters (1m x 1m) depicting the research work being carried out by them.
- A Workshop Medal, **Prof. Vireshwar Nath Capoor GOLD MEDAL** for the best participant and **Lt. Prof. Sohan Lal Mishra Memorial GOLD MEDAL** for the best Poster Presentation shall be awarded. **Lt. Prof. H.R. Mehra Memorial GOLD MEDAL** for the best PG Poster shall be awarded.
- People employed on faculty should send their application through proper channel.

## The Stakes Involved....

The roadmap for rapid assessment of biodiversity could converge through reliable species diagnosis whose facilitation is directed by the comprehensive species descriptions, of which DNA Taxonomy and Barcoding, form an essential component, using nucleotide sequences. Parasites can influence biodiversity when they alter the outcome of competitive interactions between host species, a phenomenon termed parasite-mediated competition. The riddle of segregation of cryptic species by application of molecular diagnostic tools to discriminate morphologically similar but genetically distinct, is the most intriguing. The focus is at the emerging tools for species identification. Barcoding can reliably assign unknown specimens to known species, also flagging potential cryptic species and genetically distant populations. The interesting aspect of significant relationship between the distribution of certain helminthes and the distribution of their hosts has the insurmountable potential to influence the emerging evolutionary networks. The distribution of parasite's diversity among host taxa does not simply reflect the species diversity of the parasites only, but that of the host taxa themselves. Therefore, to exploit the opportunity to conduct independent tests on evolutionary hypotheses in many separate lineages in which parasitism evolved, an understanding of the diversity of parasites could be particularly relevant because sympatric diversification may be important in some parasitic taxa. The effect of drivers of the regulatory forces of diversity can also stimulate parasites to contribute positively to biodiversity by allowing a comparatively inferior species to coexist with a dominant

species. However, though DNA barcodes are undoubtedly powerful to characterize parasite species from a parasitological point of view, yet the additional data on the infection biology and morphology could be left wanting. A vast variety of data has accumulated on nucleotide sequences of several helminth species world over to facilitate resolving ticklish issues of overlapping morphologies, as well as problematic taxa synonymies. Parasitology Laboratory at the University of Allahabad has been a contributor to over 160 nucleotide sequences of marine and freshwater helminthes, available at the GenBank, some of which correspond to the alien species that have succeeded in the invasion from marine environment into the inland waters in the Gangetic plains of India.

The Organizers are aware of the daunting task ahead to amalgamate efforts to provide an interactive platform by bringing experts and younger scientists together for exciting exchange of views by which the latter would be immensely benefited, and simultaneously the challenge to bring experimental exposition in barcode structure analysis, face-to-face with the younger enthusiasts during the 2-day's International Satellite Workshop on Biotechnological approaches for Environmental sustenance, under the umbrella of Global Biodiversity Meet on Parasites & Aquatic Ecosystem Health w.e.f. 12-15<sup>th</sup> December, 2014. Dr. Mrs. Shokoofeh Shamsi Senior Lecturer in Veterinary Parasitology, Charles Sturt University, Locked Bag 588, Wagga Wagga NSW 2678, Australia and Dr. Mrs. Neeshma Jaiswal Parasitology Lab., University of Allahabad shall interact with youngsters on this account. Prof. A.P. Sharma Director, Central Fisheries Research Institute, Barrackpore would lead the team of experts with Dr. B.K. Behera Senior Scientist, CIFRI to impart training on Primer Designing. Prof. Ahmed Mustafa Indiana University-Purdue University 2101 E. Coliseum Blvd. Fort Wayne, IN 46805, USA shall lead the field activities on Aquaculture sustenance. The training programme would also include generation of 2 D map of a helminth parasite undertaken under the supervision of Prof. Abbas Abidi, Aligarh Muslim University, Aligarh.

### Technical Sessions -

- i. Ecosystem diversity and sustenance
- ii. Parasitic zoonoses
- iii. Invasive species biodiversity in aquatic ecosystems
- iv. Trends in molecular taxonomy of parasitic organisms
- v. Immunodiagnostics and role of vectors
- vi. Riverine radiation disease interactions

### The City of Allahabad

Located at the confluence of the mighty Ganga, Yamuna and the mythological Saraswati, Prayag, the ancient city, traces its roots to the times of Ashoka the Great, and beyond. Slowly, but steadily, the city has advanced towards development in keeping with the changing facets of society and country on the whole. Yet, the culture, the rituals and the purity of Prayag have been well preserved in the archives, as is evident by the massive gatherings at the time of 12-yearly "Kumbh" and 6-yearly "Ardh Kumbh" fairs. Among the historic monuments, the Great Fort of Ashoka located at "Sangam" and Swaraj Bhawan and Anand Bhawan provide an insight into the city's glorious past.

The temperature of the city during December remains mild to pretty cool (22-28°C), particularly the nights being a bit severe (8-12°C), with mild to heavier foggy weather conditions prevailing during later part of December. But road and rail travel is pretty safe during this part of the year. The city is well connected by rail to almost all parts of the country. Indian Airlines have regular flights to connect the city to all major cities in the country by air, with direct flights to New Delhi and Mumbai. No flights to New Delhi on Sundays. A Model Bullet Train shall operate between New Delhi and the tourist city of Agra by September, 2014, which is a short distance away from Mathura. A direct train plies from Mathura to Allahabad daily.

We at the Parasitology Laboratory, University of Allahabad, welcome you to the religious city of Prayag (Allahabad), once known as 'City of Intellectuals' and shall strive to make your stay here a comfortable, pleasurable and memorable one. . .

**Deadlines :**

Abstract Submission (Times New Roman, 11 Font) :	15-10-2014	Early Registration :	30-09-2014
Final Registration :	15-11-2014	Abstract Acceptance & Invitation :	30-10-2014
Receipt of Young Scientist Application Form for International Satellite Workshop :	30-10-2014	Selection & Intimation to Young Scientists :	05-11-2014

**Organizing Committee**

Patron **Prof. A.K. Singh** Vice-Chancellor

**Advisory Committee (International)**

<b>Dr. Norman O. Dronen, USA</b>	<b>Dr. Chuck Blend, USA</b>
<b>Prof. R. Kini Manjunatha, Singapore</b>	<b>Prof. Margarita Ostrowski, Argentina</b>
<b>Dr. Ms. Shokoofeh Shamsi, Australia</b>	<b>Dr. P. Vinobaba, Srilanka</b>
<b>Prof. Ahmed Mustafa, USA</b>	<b>Prof. Bidhan Chandra Das, Bangladesh</b>

**Advisory Committee (National)**

<b>Prof. Mohd. Muzammil V.C., Dr. B.R.A. Uni., Agra</b>	<b>Prof. H.R. Singh Fmr. V.C., All. Uni., Allahabad</b>
<b>Prof. R.C. Sobti V.C., Dr. B.R.A. Uni., Lucknow</b>	<b>Prof. Mohd. Hafeez Fmr. V.C., S.V.V. Uni., Tirupati</b>
<b>Prof. V.K. Jain V.C., Doon Uni., Dehradun</b>	<b>Prof. M.Z. Chishti Dir. &amp; Fmr. HOD, Zool., Kashmir Uni., Srinagar</b>
<b>Prof. W.S. Lakra V.C., CIFE (Deemed Uni.), Mumbai</b>	<b>Prof. A.P. Sharma Dir., CIFRI, Barrackpore (WB)</b>
<b>Prof. Mrs. Ummeey Shameem HOD, Zool., Andhra Uni.</b>	<b>Dr. J.K. Saxena Dy. Dir., CDRI, Lucknow</b>
<b>Dr. S.L. Hoti Director, Regional Med. Res. Centre, Belgaum</b>	<b>Prof. Abbas Abidi Aligarh Muslim Uni., Aligarh</b>
<b>Prof. H.S. Singh Fmr. Dean, Fac.Sci. &amp; HOD, Zool., CCSU, Meerut</b>	<b>Prof. I.K. Pai Zool. Dept., Goa Uni., Goa</b>
<b>Prof. Mrs. Nilima Gupta Fmr. Dean, Fac. Sci. &amp; HOD, Zool., MJPRU, Bareilly</b>	<b>Prof. D.C. Kalia Fmr. Dean, Fac. Sci. &amp; HOD, Zool., H.P. Uni., Simla</b>
<b>Prof. R.S. Chauhan Fmr. Dir. Fisheries, Uttarakhand &amp; HOD, Coll. Fish., GBPUAT, Pantnagar</b>	

**Advisory Committee (Local)**

<b>Prof. N.R. Farooqui Dean R &amp; D, A.U.</b>	<b>Prof. Vijai Krishna HOD &amp; Dean, Fac. Sci.</b>
<b>Prof. U.C. Srivastava</b>	<b>Prof. R.R. Tiwari</b>
<b>Prof. Krishna Kumar</b>	<b>Prof. A. Gopesh</b>
<b>Prof. H.K. Dixit Fmr. HOD, J.K. Instt. Apl. Phy.</b>	<b>Prof. S.I. Rizvi HOD, Biochemistry</b>
<b>Prof. Mrs. Shanti Sundaram HOD, Biotechnology</b>	<b>Prof. Anupam Dikshit Botany</b>
<b>Dr. Ms. Banalata Mohanty</b>	

**Registration Form (GBMP-2014) 12<sup>th</sup>-15<sup>th</sup> December, 2014**

Name : Prof./Dr/Ms./Mr. ....  
 Address .....  
 City ..... State ..... Postal Code .....  
 Title of the Abstract.....  
 .....Form of Presentation (Oral/Poster) .....  
 Phone/Mobile No.: ..... E-mail.....

Signature

Date :

Registration Fee	Upto 15 <sup>th</sup> Nov. 2014	After 15 <sup>th</sup> Nov. 2014	On the Spot
Delegates/Research Scholars/ Selected Trainees	Rs. 1,000/-	Rs. 2,000/-	Rs. 2,100/-
UG, PG & Accompanying Persons	Rs. 500/-	Rs. 1,000/-	Rs. 1,100/-
Govt. Employees	Rs. 5,000/-	Rs. 10,000/-	Rs. 10,100/-