

**INTERNATIONAL WORKSHOP**  
**ON**  
**ANTIMICROBIAL RESISTANCE AND STRATEGIES FOR ITS MITIGATION**  
**LUDHIANA (PUNJAB), INDIA**  
**10–13 JULY 2018**

**ORGANISED BY**

	<p><b>CENTRE FOR SCIENCE AND TECHNOLOGY OF THE NON- ALIGNED AND OTHER DEVELOPING COUNTRIES (NAM S&amp;T CENTRE), NEW DELHI, INDIA</b></p>
	<p><b>GURU ANGAD DEV VETERINARY &amp; ANIMAL SCIENCES UNIVERSITY (GADVASU), LUDHIANA (PUNJAB), INDIA</b></p>

## INTRODUCTION

Antimicrobial resistance and emerging infectious diseases globally pose a serious threat to human and animal health and economy. The systematic misuse and overuse of these drugs in human and veterinary medicine and food production have put every nation at risk. Effective antimicrobial drugs are essential for protecting patients from potentially fatal diseases and ensuring that surgery and chemotherapy can be provided at low risk. Some replacement products in this regard are in the pipeline, but without harmonised and immediate action on a global scale, the world could head towards a post-antibiotic era in which common infections could get revived and devastate human and animal populations worldwide. Although the advanced nations have started taking steps in the right direction, most of the developing countries have yet to take its cognisance.

In order to deliberate on the above issues, the Centre for Science & Technology of the Non-Aligned and Other Developing Countries (NAM S&T Centre) jointly with Guru Angad Dev Veterinary & Animal Sciences University (GADVASU), Ludhiana (Punjab), India announces the organisation of an **International Workshop on ‘Antimicrobial Resistance and Strategies for its Mitigation’** at **Ludhiana, India** during **10-13 July 2018**.

## OBJECTIVES OF THE WORKSHOP

1. To evolve strategies for the mitigation of microbial resistance to antimicrobial agents and foster international, regional and sub-regional collaboration in evolving and implementing the strategies.
2. To focus the attention of the non-aligned and other developing countries on the global problem of ever increasing resistance of microorganisms to various antimicrobial agents.

## TOPICS TO BE COVERED

The Workshop will be organised in two parts which will cover the following topics:

### **Part A: Antimicrobial Resistance:**

- Current global, regional and national status of antimicrobial resistance;
- Antimicrobial resistance in animal pathogens, particularly the zoonotic infections;
- Antimicrobial resistance in human pathogens, particularly the chronic and nosocomial infections;
- Vaccine failures and emerging infections.

### **Part B: Mitigation Strategies:**

- Immunotherapy, therapeutic vaccines, monoclonal antibodies and biological response modifiers;
- Bacteriophage therapy of bacterial infections, phage lysates as vaccines and therapeutic agents;

- New and improved vaccines, adjuvants, probiotics and chemotherapeutics for infection control;
- Guidelines on antibiotic use and biosafety measures for control of infectious diseases.

## **EXPECTED OUTCOME**

- ❖ The current status and the extent of antimicrobial resistance in human and animal pathogens will be reviewed.
- ❖ New and effective strategies for combating antimicrobial resistance in pathogenic microbes will be discussed.
- ❖ Strengths and weaknesses of the non-aligned and other developing countries will be identified and remedial measures will be suggested.
- ❖ Small expert groups will be formed to address various aspects of the problem in a focused manner (e.g. regional monitoring of the trends in antimicrobial resistance, dissemination of information through e-newsletter and constitution of regional task force for implementing the mitigation strategies).
- ❖ Specialised centres and institutions may be conceived to address specific aspects of the problem depending on the available expertise, resources and manpower for implementation of mitigation strategies.

## **PROGRAMME OF THE WORKSHOP**

A tentative programme of the Workshop is given below:

<b>DATE</b>	<b>PROGRAMME</b>
Monday, 9 <sup>th</sup> July 2018	Arrival at Ludhiana, India
Tuesday, 10 <sup>th</sup> July 2018	Inauguration & Technical Sessions
Wednesday, 11 <sup>th</sup> July 2018	Technical Sessions and Laboratory Practices
Thursday, 12 <sup>th</sup> July 2018	Technical Sessions and Laboratory Practices
Friday, 13 <sup>th</sup> July 2018	Concluding Session and Field Visits
Saturday, 14 <sup>th</sup> July 2018	Departure

A detailed Session-wise Programme will be made available before the Workshop.

## **THE ORGANISERS**

### **NAM S&T CENTRE**

The Centre for Science and Technology of the Non-Aligned and Other Developing Countries (NAM S&T Centre; [www.namstct.org](http://www.namstct.org)) is an inter-governmental organisation with a membership of 47 countries spread over Asia, Africa, Middle East and Latin America. The Centre was set up in 1989 in New Delhi, India. It undertakes a variety of programmes, including organisation of workshops, symposia, roundtables and training courses and implementation of collaborative projects. It also offers short-term research fellowships to scientists from developing countries in association with the Centres of Excellence in various countries. The Centre also brings out technical books and other

scientific publications in different subjects of interest to developing countries. The Centre's activities provide opportunity for scientist-to-scientist contact and interaction; familiarising participants on the latest developments and techniques in the subject areas; identification of the requirements of training and expert assistance; locating technologies for transfer between the members and other developing countries, and dissemination of S&T information etc. In addition, the Centre encourages academic-R&D-industry interaction in the developing countries through its NAM S&T-Industry Network.

## **GURU ANGAD DEV VETERINARY AND ANIMAL SCIENCES UNIVERSITY (GADVASU)**

Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Ludhiana, India is a premier veterinary university of India engaged in promoting livestock production, health and prevention of the disease(s) through integrated teaching, research and extension programmes. Since its inception, the university has made remarkable growth and development in all fields of veterinary, animal and fishery sciences through expert services in capacity building, research and extension. It has been ranked as number *one* institution in the country by the national accreditation agencies. GADVASU has a large pool of skilled veterinary scientists and teachers and has *three* advanced centres for faculty training at national level. It has hosted several international training programmes and conferences including those in collaboration with Canadian and Australian institutions and a FAO sponsored training. Microbiologists, public health specialists and biotechnologists of GADVASU have made significant scientific contributions and have carved out a niche for themselves. It has made original contributions in the field of diagnostics, vaccines and therapeutics for infectious diseases. The current areas of research being pursued at GADVASU include antimicrobial resistance, bacteriophage applications and development of new vaccines and diagnostics for infectious diseases of animals and zoonotic infections.

## **PARTICIPANTS**

Programme of the Workshop has been primarily designed for the microbiologists, immunologists, virologists, biotechnologists and biochemists working in the academic and research institutions, government departments and ministries, and industries of the developing countries.

A pre-condition for participation in the Workshop is that the participants must present a paper during the Workshop and submit an extended abstract of the same along with the nomination / application form.

The selection of participants will be made strictly based on merit and relevance of their current responsibilities to the subject of the Workshop as well as the quality of the extended abstract of the paper submitted by them along with the completed nomination form.

## **RESOURCE PERSONS**

The resource persons for the Workshop will comprise eminent experts and professionals in the relevant field.

## **SUBMISSION OF APPLICATION**

Scientists and experts desirous of participating in the Workshop are required to submit their nomination form **electronically** directly to the NAM S&T Centre as early as possible but latest by **Wednesday, 6<sup>th</sup> June 2018**.

The following documents must be submitted along with the completely filled up Nomination Form:

- i. An extended (**about 2 pages**) abstract (**in MS-Word format**) of the paper that would be presented at the Workshop;
- ii. A short (**maximum two pages**) CV (**in MS-Word format**);
- iii. Copy of the relevant pages of the passport (for foreigners only).

**The documents at (i) and (ii) above must be in MS-Word Format; PDF or image files will not be accepted. Hard copies of the Nomination Form and the above attachments are NOT required to be submitted.**

## **PRESENTATION OF PAPERS**

Each participant will be required to present a country status report and / or a research / scientific paper on any of the themes appropriate to the Workshop.

## **PUBLICATION OF PROCEEDINGS OF THE WORKSHOP**

A publication edited by one or more international experts and based on the course material, papers presented by the resource persons and participants during the Workshop and also containing papers contributed by other experts in the field will be brought out in the form of a book as a follow up of this programme. Therefore all participants are required to submit the manuscripts of their full papers in **MS-Word** format well in advance, but at least 14 days before the commencement of the Workshop.

## **LOCAL HOSPITALITY AND TRAVEL**

Local hospitality at Ludhiana including accommodation, meals and local transport for the foreign participants sponsored by the NAM S&T Centre will be provided from **Monday, July 9<sup>th</sup> (noon) to Saturday, July 14<sup>th</sup> (noon)** (i.e. from one day before to one day after the completion of the Workshop). The participants are requested to book their flights accordingly; otherwise, they will have to make their own arrangements of stay beyond these dates.

## **FINANCIAL ARRANGEMENTS**

The financial terms for foreign and Indian participants and the arrangements for international travel of the foreign participants will be conveyed to individual applicants on receipt of the nomination form and other documents.

## **ENTRY FORMALITIES, IMMIGRATION AND HEALTH**

Foreign participants of the Workshop must be in possession of a current passport or any other internationally recognized travel document, which must have a period of validity of at least six months beyond the period of stay in India and must be endorsed for travel to India.

Foreign participants should have a valid visa for entry into India. The Indian diplomatic mission located in the country of the participant should be approached for obtaining an entry visa. If required, the organisers will facilitate the issuance of visa by providing the participants with an official letter of invitation.

## **OTHER USEFUL INFORMATION**

The weather in Ludhiana during the Workshop period is likely to be sunny, hot and humid with the expected temperature to be ~40<sup>0</sup>C during the day time and ~27<sup>0</sup>C during the nights.

Indian Standard Time is +05.30 hours ahead of GMT.

The Indian Currency is Rupee (INR); the present current exchange rate is US\$1 ≈ 67 INR.

## **NOTE**

- ***The governments / institutions of the foreign participants, or the participants themselves, will be required to bear the following costs:***
  - *All expenses in the home country incidental to travel abroad, including expenditure for passports, visa, required medical examinations, vaccinations and miscellaneous expenses such as internal travel to the airport of departure in the home country.*
  - *Salary and other related allowances for the participants during the period of the Workshop.*
  - *Cost of medical insurance to cover the period of participation in the Workshop.*
- ***The organisers will not assume responsibility for the following items of expenditure in connection with the participation of any applicant in the Workshop:***
  - *Expenses incurred with respect to any insurance, medical bills or hospitalisation fees.*
  - *Compensation in the event of death, disability or illness of participants.*
  - *Loss of personal belongings or compensation for damage caused to them by climatic or other conditions.*
  - *Other costs, including airport tax and excess baggage.*

## Contact Details

### **NAM S&T CENTRE**

**Prof. Dr. Arun P. Kulshreshtha,**

*Director General,*

*Centre for Science & Technology of the Non-Aligned and other Developing Countries  
(NAM S&T Centre),*

*Zone-6A, 2<sup>nd</sup> Floor, India Habitat Centre, Lodhi Road,*

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*Website: <http://www.namstct.org>*

**Mr. M. Bandyopadhyay,**

*Senior Expert & Administrative Officer,*

*Address, Tel. and E-mail: (O) as above.*

### **GURU ANGAD DEV VETERINARY AND ANIMAL SCIENCES UNIVERSITY (GADVASU)**

**Dr. Tejinder Singh Rai,**

*(Organizing Secretary & Coordinator)*

*Professor-cum-Head,*

*Department of Veterinary Microbiology,*

*College of Veterinary Science,*

*GADVASU, Ludhiana 141004.*

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**CENTRE FOR SCIENCE AND TECHNOLOGY OF THE  
NON-ALIGNED AND OTHER DEVELOPING COUNTRIES  
(NAM S&T CENTRE)**

**INTERNATIONAL WORKSHOP ON  
ANTIMICROBIAL RESISTANCE AND STRATEGIES FOR ITS MITIGATION**

**Ludhiana (Punjab), India  
10-13 July 2018**

**NOMINATION FORM**

Please affix your scanned photograph
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***PLEASE TYPE OR USE BLOCK CAPITALS;  
NO COLUMN SHOULD BE LEFT BLANK***

**SECTION –A**

(To be filled in by the nominee)

- 1 Name (Prof/Dr/Mr/Mrs/Ms): .....  
(As in Passport)
2. Father's/Spouse Name: .....
- 3 Designation (Position held): .....
4. Nationality: .....
- 5 Date of Birth: ..... Place of Birth (City) ..... (Country).....
- 6 Passport No: .....Place of issue: .....  
Date of Issue: ..... Valid up to: .....  
(Please attach copies of the relevant pages of your Passport)
- 7 Name of the Parent Institution (Employer): .....  
Full Address (Office): .....  
.....  
Phone: ..... Fax: .....  
E-mail: .....
- 8 Full Address (Home): .....



.....

Phone: ..... Mobile: .....

Fax: ..... E-mail: .....

9 Educational Qualifications: Highest Degree. ....

Year of Award: ..... University: .....

Field of Study: .....

10 Brief Bio data (CV): .....

**(Maximum two pages, in MS-Word; to be attached on separate sheet)**

11 Abstract of your paper proposed to be presented in the Workshop.

**(About 1-2 pages, in MS-Word; to be attached on separate sheet)**

12 What in your opinion qualifies you for participation in this Workshop?

(To be attached on separate sheet)

Date: ..... Signature: .....

**SECTION -B**

**ENDORSEMENT BY NOMINATING AUTHORITY**

(The Applicant in a member country of the NAM S&T Centre may get the following endorsement signed by the Focal Point of the Centre in his/her country, *if he/she wishes to take advantages accrued to the official nominee of the country.* For the list of member countries and names/addresses of the Focal Points please visit Centre’s website [www.namstct.org](http://www.namstct.org).)

Signature: .....

Name (in full): .....

Designation: .....

Date: .....

**SEAL**

**Enclosures;**

1. Scanned copies of the relevant pages of Passport
2. Brief CV (maximum two pages, **in MS-Word**)
3. Abstract of Paper proposed to be presented in the Workshop (about 1-2 pages, **in MS-Word**)