

**M G N I R S A**



**National Conference on  
Nanotechnology's Invisible threat: Small Science,  
Big Consequences**

**26<sup>th</sup>- 27<sup>th</sup> September, 2013**

**Organized by:  
SCHOOL OF MICROBIOLOGY(SM)  
of  
MAHATMA GANDHI NATIONAL INSTITUTE OF RESEARCH  
AND SOCIAL ACTION (MGNIRSA)  
Hyderabad**

**Venue: Center for Economic and Social Studies, Ameerpet, Hyderabad**

**Dear Colleague,**

We are pleased to inform you that School of Microbiology, Mahatma Gandhi National Institute of Research and Social Action (MGNIRSA) is organizing a National Conference on “Nanotechnology’s Invisible threat: Small Science, Big Consequences, on September 26th-27th, 2013.

Nanotechnology/nanotech is manipulation of matter on an atomic and molecular scale. It works with materials, devices, and other structures with at least one dimension sized from 1 to 100 nanometers. Nano-biotechnology is defined as a field that uses nanoscale principles and techniques to understand and transform biosystems. The field of nanobiotechnology is best described as helping modern medicine in overcoming barriers in effective treatment and diagnosis of disease. Small magnetic nanoparticles have opened a new window of diagnostic and treatment of cancer, these small magnetic nanoparticles can be used as contrast agent for Magnetic Resonance Imaging (MRI) and for hyperthermia (heating of tumor cells in temperature range of 42-45°C ) treatment of cancer. Bio-nanotechnology uses biological systems to develop nanoscale systems, like DNA nanotechnology which utilizes properties of nucleic acids (DNA) to create useful materials. It is best described as development of new nanostructures, devices and materials taking inspiration from nature. With a view to provide a national forum for academicians, scientists and educationists to come together for exchange of views, ideas and experiences and to deliberate upon the various issues related to “Nanotechnology’s Invisible threat: Small Science, Big Consequences, on September 26th-27th 2013.”, School of Microbiology, Mahatma Gandhi National Institute of Research and Social Action, Hyderabad is organizing this Conference.

There are a number of key challenges in Nanotechnology and its applications in science and technology, especially unknown and unseen consequences of using products containing nanoparticles. With a view for positive outcome through interactions of experts in the key disciplines of cell biology, toxicology, molecular genetics, medicinal chemistry, imaging and clinical oncology to identify critical problems that may best be addressed using a multidisciplinary approach, the Conference is being organized. We request you to kindly participate in the conference with your fellow scientists and research scholars and make this conference a success.

We look forward to welcome you to the pearl city of Hyderabad.

With best regards and good wishes,

**Prof. P.P. Reddy**  
**Conference Chairman**

**Topics of the Conference:**

- a) Biosynthesis of nanoparticles
- b) Toxicological aspects of Nanoparticles
- c) Nanoparticles and environmental degradation
- d) Determination of Anti-microbial characteristics of Nanoparticles
- e) Nanomedicine
- f) Clinical and pre-clinical evaluation of nanoparticles
- g) Nanoparticles and their applications in technology & engineering
- h) Safety issues concerning Nanoparticles.

**Young Scientist Awards:**

Awards to the young scientists (>35 yrs) will be given for the best oral/ poster presentations. Those who wish to participate should submit their papers through their Head of the Department with proof of age.

### **Abstract submission:**

Abstracts are invited for various areas for oral and Poster presentation. Each abstract should contain: (a) an introductory sentence indicating the purposes of the study; (b) a brief description of pertinent experimental procedures; (c) a summary of the new, unpublished data; and (d) a statement of the conclusions. Authors are requested to submit abstracts not exceeding more than 300 words on or before 31<sup>st</sup> August, 2013. The mode of presentation will be informed to authors by 5<sup>th</sup> September 2013. Authors of accepted papers are requested to submit papers in MS-word format on a CD or/ through e-mail. The full papers should not exceed 10 pages on A4 size sheets with 1.5 line spacing, including tables, annexures and figures. The full paper should include abstract, introduction, Material & Methods, Results and Discussion and Bibliography. In the text, names of the authors should be used and the references should be arranged alphabetically. **The Abstracts and full papers should be sent to E-mail: ncn11.mgnirsa@gmail.com** Authors may kindly note that the full papers obtained from them will be published in book form in case all the authors submit the same on time by Lap-Lambert Publishing House, Germany.

### **Important dates:**

Last date for registration - 31.08.2013  
Last date for receiving of abstract - 31.08.2013  
Last date for receiving full paper - 15.09, 2013

### **Registration:**

Any individual wishing to attend this conference must register by submitting the form enclosed duly filled. All the students/research scholars need to furnish a letter from their Department/ University certifying that he/she is the bonafide student of their Department/University. The registration fee covers a set of abstract souvenir, full papers volume, three days lunch, tea and refreshments. Register early by 31<sup>st</sup> August, 2013 with registration fee of Rs.400 (Student participants). Advance payments may be made by bank demand draft in favor of Registrar, MGNIRSA, Hyderabad payable at Hyderabad.

### **Registration Rates**

	<b>Until 31.08.2013</b>	<b>After 1<sup>st</sup> September</b>
Delegates	Rs. 1000	Rs. 1200
Industry	Rs. 2500	Rs. 2700
Students /Research Scholars	Rs. 400	Rs.500
Spouse/Guest	Rs. 600	Rs. 700

### **Local hospitality & Accommodation:**

Local hospitality will be provided by the organizers to the participants. Those who want accommodation may write to Mr. N Kirmani. (Email: [adm@mgmirsa.ac.in](mailto:adm@mgmirsa.ac.in)). Accommodation will be booked on payment basis. A non-refundable advance of Rs.600/- should be sent for accommodation, if required. Efforts will be made to accommodate delegates in Guest houses. Those who wish to have accommodation in Hotels have to pay additional charges depending on the type of Hotel. The balance amount can be paid on arrival.

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**MGNIRSA**

Mahatma Gandhi National Institute of Research and Social Action (MGNIRSA) was established in 1995 to fulfill the objectives. It has been recognized by the University of Mysore as a Research Centre to offer Ph.D programmes in certain areas in Sciences, Engineering & Technology and Social Sciences. It is recognized by UGC and included under sections 2(f) and 12(B) of the UGC Act. The institute is recognized by SIRO Govt. of India as research centre. Jawaharlal Nehru Technological University (JNTU) also entered into a MOU for offering Ph.D and other PG Degree programmes. The institute is planned to become a deemed to be university/de-novo category in course of time. MGNIRSA's research programme is focused on Bio-Technology, Information Technology, and Microbiology. University grants commission has sanctioned study centres in the areas of Gandhian, Nehru, Ambedkar, Buddhist, S.N. Women Study centres. MGNIRSA has conducted nearly 60 National Conferences /Seminars / Workshops /Round Table and Workshops. We have completed projects on NICNET database, Ethnography studies of tribes in A.P, Nutrition status of Tribal people, Study of Gurukulams & Ekalavya schools in A.P. and others.

**SCHOOL OF MICROBIOLOGY**

The Mahatma Gandhi National Institute of Research and Social Action (MGNIRSA) has established the School of Microbiology to undertake education, research and training activities in the field of Microbiology and allied subjects.

The Aims and Objectives are as follows:

- Undertake teaching, research and training in Microbiology.
- Focus on application of Microbiology for sustainable rural development by contributing towards:
  - a) Improving agriculture and dairy productivity
  - b) Developing new technologies for rapid microbial diagnosis.
  - c) Developing Human Resource in Microbial conservation and utilization.

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Director General, MGNIRSA  
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Conference Chairman

**Dr. Adarsh K. Capoor**  
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MGNIRSA

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**Sri N. Kirmani**  
Asst. Professor, SCBT  
MGNIRSA

**Dr. M. Hema Prasad**  
Institute of Genetics  
Hyderabad

### **ABOUT HYDERABAD**

Hyderabad is more than 400 yrs old. It is the capital of Andhra Pradesh and the hub of Biotechnology and Information Technology. It is known for its hospitality, rich traditions and for its ancient Architectural monuments such as Charminar, Golconda fort, Macca Masjid, Royal tombs of Qutub Shahi dynasty, Ramoji Film City, Birla mandir and the Monolithic Buddha Statue in Hussain Sagar lake. Hyderabad is well connected by air and train from all major cities such as Chennai, Mumbai, Kolkata and New Delhi. Climate in September is pleasant and day temperature is around 28°C.

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E-mail: ncn11.mgnirsa@gmail.com, [admnmgnirsa.ac.in](mailto:admnmgnirsa.ac.in)

## REGISTRATION FORM

Name :

Organisation :

Age: \_\_\_\_\_

Sex: Male Female

Address for correspondence :

Pin Code: \_\_\_\_\_

Telephone Off: \_\_\_\_\_

Mobile: \_\_\_\_\_

Fax: \_\_\_\_\_

E-Mail: \_\_\_\_\_

Presentation: Yes No

If yes : Oral Poster

Associate delegates, if any: Yes

If yes : No. of delegates

Please book my accommodation  
on payment basis

(Please tick the relevant box)

Details of Registration Fee Rs. \_\_\_\_\_

DD No. \_\_\_\_\_ Date. \_\_\_\_\_

Advance for Accommodation Rs. \_\_\_\_\_

DD No. \_\_\_\_\_ Date. \_\_\_\_\_

Registration fee and Advance for Accommodation may be remitted through a  
crossed DD drawn in favour of '**Registrar, MGNIRSA**', payable at HYDERABAD

Date:

Signature:

Place:

(For more copies this Form may be xeroxed)