

EVALUATION FORM

[Extra sheet may be attached if necessary]

1. Research and individual experience:

2. R&D facilities available at the laboratory of the participant:

3. Present & future research interests:

4. Scientific collaborations (if any):

5. Ongoing R&D Projects / Programmes:

6. Names of senior colleagues and nature of work being done by them:

7. Relevant publications by the participant during last 4 years:

8. Provide a brief statement of proposal about how do you intend to make use of this training in your research:

9. Did you recently applied or attended any similar course sponsored by DBT?

Declaration and Consent for Registration:

I hereby declare that the information provided by me is correct. Kindly register me for the course on "Hands on training programme on Nano biotechnology and use of *Drosophila* as a genetics research model: perspectives in biological sciences, Health and Nanoscience" at Meerut Institute of Engineering and Technology, Meerut.

.....
Signature

Date:

Place:

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Department of Genetics
Maharshi Dayanand University, Rohtak

Dr. Neeraj Dilbagi

Professor

Radio Ecology Centre
(NanoBio Technology)

Guru Jambheshwar University of
Science & Technology, Hisar

Last Date of Application

25th November, 2017

Total Seats: 25

How to apply

Completed Application form along with evaluation form should be sent to Course Director

Course Content

Theory & Hands-on Training

14 DAYSSHORTTERMTRAINING COURSE

HANDSON TRAINING PROGRAMME ON NANO BIOTECHNOLOGY AND USE OF *DROSOPHILA* AS A GENETICS RESEARCH MODEL: PERSPECTIVES IN BIOLOGICAL SCIENCES, HEALTH AND NANOSCIENCE

(ASTTC Programme for mid career scientist/
UG & PG Teaching faculty)

4th December, 2017 to 17th December, 2017

Sponsored by



सत्यमेव जयते
Department of Biotechnology
Ministry of Science & Technology

Department of Biotechnology (DBT)
Government of India, New Delhi, India

Organized by

miet
GROUP OF INSTITUTIONS

Department of Biotechnology

Meerut Institute of Engineering and Technology,
Meerut, Uttar Pradesh, India

Venue

Department of Biotechnology,
Meerut Institute of Engineering and Technology, Meerut
www.miet.ac.in

FOR CONTACT & APPLICATION SUBMISSION

Dr. Pankaj Kumar Tyagi

Course Director

Department of Biotechnology,
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ABOUT MIET:

- ♦ Meerut Institute of Engineering and Technology (MIET), located in the National Capital Region (NCR), is one of the best and oldest self financed institutes in Uttar Pradesh, India. This Institute today, is a leading Institute known for its academic excellence and placement. At MIET special emphasis has been placed on developing highly conducive environment for building of a solid foundation of knowledge, personality development, confidence building, pursuit of excellence and self-discipline which helps to produce professionals well trained for the rigors of professional and social life. It lays claim to have an extensive academic environment, finest faculties and best infrastructure to provide quality education.

ABOUT THE DEPARTMENT:

- ♦ The Department of Biotechnology (DBT) at MIET, Meerut is one of the premier department in Biotechnology education & research in Uttar Pradesh, India. The department was established with the aim to be "Center of Excellence" by imparting quality education & developing vision & research skills in young Bio-technocrats.
- ♦ The Department of Biotechnology is also an Approved Research Center of Dr. A.P.J. Abdul Kalam Technical University, Lucknow, for conducting Ph.D Program. The Department is well equipped with "state-of-the-art" laboratories. The Departmental faculty is highly qualified, experienced & specialized in different areas of Biotechnology.

BACKGROUND AND SCOPE:

- ♦ The short term training course aims to highlight a wide variety of aspects of development of *Drosophila* as model organism in interdisciplinary research. This STTC includes hand on trainings and lectures by experts and core committee members in the related fields.

OBJECTIVES OF THE COURSE:

- ♦ To train the faculty, mid-career UG/ PG scientist, and researchers in cutting edge laboratory research techniques in biological science, health science, animal science and medical science.
- ♦ To develop *Drosophila* as a model organism for the study of metal nanoparticle toxicity.
- ♦ To study the impacts of MNPs nanoparticles ingestion on pigmentation and developmental progression in *Drosophila*.
- ♦ To facilitate sharing of information and expertise on *Drosophila* genetics, Nano-biotechnology, neurodegenerative, health and biotechnology.

MAJOR HIGHLIGHTS OF THE COURSE:

- ♦ Learn basic handling and culture techniques for working with *Drosophila*.
- ♦ Apply concepts and principles of Mendelian inheritance patterns.
- ♦ Study of monohybrid, dihybrid, and sex-linked crosses.
- ♦ Gain experience sorting, sexing, and crossing *Drosophila* through two generations.
- ♦ Perform a chi-square statistical analysis of experimental results.
- ♦ *Drosophila* as a powerful modern tool for teaching concepts in biology and biomedical research .
- ♦ *Drosophila*: A model to test mysterious nanoparticles.
- ♦ Flying with *Drosophila*: from teaching to research lab.
- ♦ Green synthesis of metal nanoparticles and their antimicrobial activity.
- ♦ Systems biology approach in neuropsychiatric drug discovery and in understanding transgenerational epigenetic inheritance.
- ♦ Squash Preparation of Polytene chromosome from *Drosophila* Larvae.
- ♦ Beta-Galactosidase reporter gene expression in *Drosophila*.
- ♦ Dissecting and immunostaining of imaginal discs in *Drosophila*.
- ♦ Metal Nanoparticles synthesis from chemicals as well as biological materials.
- ♦ MNPs toxicity evaluated on adult and larval stages of *Drosophila*.
- ♦ Lipid peroxidation assay and total protein estimation in *Drosophila*.
- ♦ Metal nanoparticles-conjugated with antibiotic and analysis their effects on health by using a model organism *Drosophila*.
- ♦ Lipids and pigmentation estimation of MNPs treated and Untreated *Drosophila*.
- ♦ Impacts of MNPs nanoparticles ingestion on pigmentation and developmental progression in *Drosophila*.
- ♦ Phenotypical neurodegenerative defects analysis on eye pigments in *Drosophila*.
- ♦ Assessment of Genetic variability through protein/ DNA polymorphism (emphasis on data analysis)

Who can attend:

Mid-career scientists, UG/ PG Teachers & researchers of Biotechnology and Allied Sciences.

Course Fees:

Academic participants: **NIL**

Industrial participants: **Rs. 4000/-**

Accommodation:

Fee: **300/-** per day (Including lodging and boarding charges)

(Accommodation will be provided at MIET campus on request basis)

APPLICATION FORM

Name of the Participant : (in Block Letters)		
Educational Qualification: (Highest) & Research Experience:		
Present Designation: (Place and nature of work)		
Date of Birth:		
Contact number:		
Email:		
Do you require accommodation ?	<table border="0"> <tr> <td style="text-align: center;">Yes</td> <td style="text-align: center;">No</td> </tr> </table>	Yes	No
Yes	No		
 Signature of Applicant Date:..... Place:		
Recommendation by the Head of the Institute: Signature Date:		

Note: For Academic Participants no course fee will be charged. Course Fee of Rs. 4000/- will be charged from Industrial Participants.