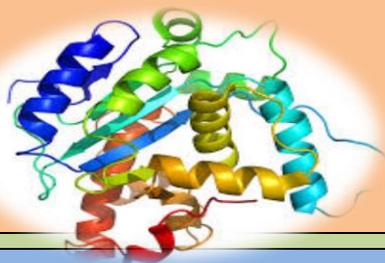


Techniques in proteomics

8th, 9th, 10th, 11th February 2017

Organized by Department of Microbiology, Jai Hind College

Sponsored by Lady Tata Memorial Trust



About the Department

Jai Hind college is one of the most sought after college of South Mumbai. It promotes quality education of international standards in response to the changing global needs of society. The Department of Microbiology was established in the year 1981. Microbiology department has been always an active research center catering to the needs of industry and society.

About the workshop

Proteomics is a field of molecular biology that is concerned with the systematic approach to analyze the protein structure its expression and protein interactions . The last few years have seen an unprecedented drive towards the application of proteomics to resolving biomedical and biochemical challenges.

The proposed lecture cum demonstration (workshop) is a venture to introduce techniques of 'Proteomics' to the teachers.

The techniques covered would be

- Chromatographic separation of proteins.
- Quantification of protein by MALDI, LCMS and 2D electrophoresis
- Microarray
- ELISA
- Understanding protein interactions through bioinformatics.

Eminent scientists from world renowned institutes like TIFR, ACTREC, NIRRH would be the experts at the workshop.

Registration Details

Any faculty from Biological Sciences or PhD Scholar

How to apply:

Write to **Dr A. Wadia, HOD, Microbiology at microjhc@gmail.com** in prescribed format of application.

LIMITED SEATS AVAILABLE

Fees: INR 500

Last date for submission of application: 31th January, 2017

FOR FURTHER INFORMATION

PLEASE CONTACT:

**Convenor: Dr. Madhura Ghayal
9820460411**

Ms. Roonal Kataria 9664219103

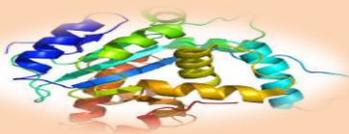
Jai Hind College

Churchgate

Mumbai 400020.

Email- microjhc@gmail.com





Program Schedule

DAY 1

8.30am-9.00 am: Registration and breakfast

MORNING SESSION

9.00am-9.15 am: Inaugural proceedings

9.15-10.30 am: Keynote address: Understanding Proteomics: Dr S.K.Apte, BARC

10.30 -10.45 am: Tea

10.45 -11.30 am: Extraction and Purification of Proteins: Ms Gagan, NFB

11.30 - 1.30 pm: Practical: Extraction of Proteins using Ion Exchange Chromatography

1.30-2.00 pm: Lunch

EVENING SESSION

2.00-3.15 pm: Practical: Visualization of proteins using 2D -Electrophoresis

3.15-3.30 pm: Tea

3.30-5.00 pm: Practical (continued)

DAY 2

9.00am-9.30 am: Breakfast

MORNING SESSION

9.30-11.30 am: Microarray: Dr. Vijay Sharma, Wockhardt Hospital

11.30am-11.45 am: Tea

11.45am-1.30 pm: Lecture-Proteomics in translational medicine

Dr Rukmini Govekar,ACTREC

1.30-2.00 pm: Lunch

EVENING SESSION

2.00 pm-3.15 pm: Introduction to Bioinformatics: Dr Susan Thomas, NIRRH

3.15 -3.30 pm: Tea

3.30 -5.00 pm: Online Practical:
a) Sequence homology based search
b) Protein structure visualization and protein docking
c) Use of popular online bioinformatics tools.

DAY 3: Visit TO TIFR, Colaba

10.00-11.00 am: Protein Speciation, Moonlighting and Post Translational Modifications: Concepts and Analytical Strategies: Prof. Gotam Jarori, TIFR

11.00 -11.30 am: Tea

11.30- 12.30pm: Novel approaches to analyze qualitative proteome and rare modifications: Prof. Ullas Kolthur,TIFR

12.30-1.00 pm: Lunch

EVENING SESSION

1.00 - 4.30pm:
a) 2-Dimensional Gel- Hands on training: Dr. Reena Verma/ Prof. G. Jarori
b) MALDI- Hands on training: Ms. Geetanjali/ Prof. Ankona Dutta
c) LCMS- Hands on training: Mr. Ch. Balaji/ Prof. G. Jarori.

4.30-5.00 pm: Tea & Discussion

DAY 4

9.00am-9.30 am: Breakfast

MORNING SESSION

9.30-11.00 am: Lecture on ELISA technique:Dr Nilesh Bhambhare, Metropolis.
a) Principle, steps, types of ELISA
b) Manual and Automated ELISA platforms
c) Designing ELISA

11am-11.15am: Tea

11.15am- 1.30pm- Practical ELISA: Ms NilamTripathi, Metropolis

1.30-2.00pm: Lunch

EVENING SESSION

2.00-3.45pm: Practical ELISA continued

3.45-4.00pm: Tea

4.00-5.00 pm: Valedictory Address: Applications of Proteomics: Dr Surekha Zingade, IWSA