

PROGRAMME SCHEDULE

WORKSHOP ON

“INTRODUCTION TO MATHEMATICAL TECHNIQUES IN LIFE SCIENCES”

(January 04 – 12, 2011)

Venue: Lecture Hall 1, Department of Mathematics

04 January 2011 (TUESDAY)

9:30AM - 11:00AM: *Introduction to Sequences, Analysis, Algorithms*
Ananth Grama, Purdue University

11:00AM – 11:15AM: Coffee Break

11:15AM - 01:00PM: *Introduction to Sequences, Analysis, Algorithms*
Ananth Grama, Purdue University

01:00PM - 02:00PM: **Lunch Break**

02:00PM -03:45PM: *Introduction to Sequences, Analysis, Algorithms*
Ananth Grama, Purdue University

03:45PM – 04:00PM: Coffee Break

04:00PM- 05:00PM: *Introduction to Sequences, Analysis, Algorithms*
Ananth Grama, Purdue University

05:00PM -05:30PM: Informal Discussion

Venue: Lecture Hall 1, Department of Mathematics

05 January 2011 (WEDNESDAY)

9:30AM - 11:00AM: *Statistical Methods for High-Throughput Quantitative Experiments in Molecular Biology*
Olga Vitek, Purdue University

11:00AM – 11:15AM: Coffee Break

11:15AM - 01:00PM: *Statistical Methods for High-Throughput Quantitative Experiments in Molecular Biology*
Olga Vitek, Purdue University

01:00PM - 02:00PM: **Lunch Break**

02:00PM -03:45PM: *Statistical Methods for High-Throughput Quantitative Experiments in Molecular Biology*
Olga Vitek, Purdue University

03:45PM – 04:00PM: Coffee Break

04:00PM- 05:00PM: *Statistical Methods for High-Throughput Quantitative Experiments in Molecular Biology*
Olga Vitek, Purdue University

05:00PM -05:30PM: Informal Discussion

Venue: Lecture Hall 1, Department of Mathematics

06 January 2011 (THURSDAY)

9:30AM - 11:00AM: *Algorithmic Challenges for Next Generation Sequencing*
Srinivas Aluru, Iowa State University

11:00AM – 11:15AM: Coffee Break

11:15AM -01:00PM: *Algorithmic Challenges for Next Generation Sequencing*
Srinivas Aluru, Iowa State University

01:00PM - 02:00PM: **Lunch Break**

02:00PM -03:45PM: *Algorithmic Challenges for Next Generation Sequencing*
Srinivas Aluru, Iowa State University

03:45PM – 04:00PM: Coffee Break

04:00PM - 05:00PM: *Special Lecture on “Modelling Cellular Metabolism”*
Nagasuma Chandra, IISc

05:00PM -05:30PM: Informal Discussion

Venue: Lecture Hall 1, Department of Mathematics

07 January 2011 (FRIDAY)

9:30AM - 11:00AM: *Gene Function Prediction*
T. M. Murali, Virginia Tech

11:00AM – 11:15AM: Coffee Break

11:15AM -01:00PM: *Gene Function Prediction*
T. M. Murali, Virginia Tech

01:00PM - 02:00PM: **Lunch Break**

02:00PM -03:45PM: *Gene Function Prediction*
T. M. Murali, Virginia Tech

03:45PM – 4:00PM: Coffee Break

04:00PM- 05:00PM: *Gene Function Prediction*
T. M. Murali, Virginia Tech

05:00PM -05:30PM: Informal Discussion

Venue: Faculty Hall, Main Building, IISc

10 January 2011 (MONDAY)

9:30AM - 11:00AM: *Graph Algorithms in Bioinformatics*
Alex Pothen, Purdue University

11:00 AM – 11:15 AM: Coffee Break

11:15AM -01:00PM: *Graph Algorithms in Bioinformatics*
Alex Pothen, Purdue University

01:00PM - 02:00PM: **Lunch Break**

02:00PM -03:45PM: *Graph Algorithms in Bioinformatics*
Alex Pothen, Purdue University

03:45PM – 04:00PM: Coffee Break

04:00PM- 05:00PM: *Special Lecture (Modelling Viral Dynamics)*
Narendra Dixit, IISc

04:30PM -05:00PM: Informal Discussion.

Venue: Faculty Hall, Main Building, IISc

11 January 2011 (TUESDAY)

9:30AM - 11:00AM: (*To be announced*)
Uppi Bhalla, NCBS, Bangalore

11:00AM – 11:15AM: Coffee Break

11:15AM -01:00PM: (*To be announced*)
Uppi Bhalla, NCBS, Bangalore

01:00PM - 02:00PM: **Lunch Break**

02:00 PM -03:45 PM: (*To be announced*)
Uppi Bhalla, NCBS, Bangalore

03:45 PM – 04:00 PM: Coffee Break

04:00 PM- 05:00 PM: *Special Lecture (Understanding bio-molecular complex: computational approach)*
Prabal Maiti, IISc, Bangalore

05:00 PM -05:30 PM: Informal Discussion.

Venue: Faculty Hall, Main Building, IISc

12 January 2011 (WEDNESDAY)

9:30AM - 11:00AM: *Analysis of Protein-Protein Interaction Networks*
Mehmet Koyuturk, Case Western Reserve University

11:00AM – 11:15AM: Coffee Break

11:15AM -01:00PM: *Analysis of Protein-Protein Interaction Networks*
Mehmet Koyuturk, Case Western Reserve University

01:00PM - 02:00PM: **Lunch Break**

02:00PM -03:45PM: *Analysis of Protein-Protein Interaction Networks*
Mehmet Koyuturk, Case Western Reserve University

03:45PM – 04:00PM: Coffee Break

04:00PM- 05:00PM: *Analysis of Protein-Protein Interaction Networks*
Mehmet Koyuturk, Case Western Reserve University

05:00PM -05:30PM: Informal Discussion