

Immunoinformatics

December 2, 2009

Seminar Overview

This one-day course provides a broad view of the modern field of immunoinformatics and will be given by the experts in the field.

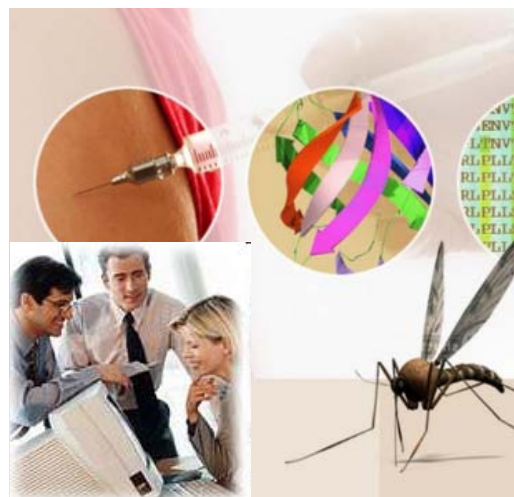
Basic knowledge of immunology and bioinformatics is desired but is not required.

Objectives

Participants will obtain a hands-on experience in application of biological databases and bioinformatics methods to the real-life immunological problems.

Agenda

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| 8:30 – 8:45 | Introduction to the seminar |
| 8:45 – 10:00 | Overview of adaptive immune system, experimental approaches to vaccine design, cancer immunology (<i>Prof. Makhluf, National University</i>) |
| 10:00 – 11:00 | Immunological databases and bioinformatics approaches in immunology |
| 11:00 – 12:30 | T-cell epitopes: prediction and vaccine design |
| 12:30 – 1:15 | Lunch |
| 1:15 – 2:45 | B-cell epitopes and antibodies: prediction and vaccine design. |
| 2:45 – 3:45 | Case study: Analysis of epitopes for design of vaccines against Malaria and swine flu. (<i>Dr. Greenbaum, LIAI</i>) |
| 3:45 – 4:45 | Overview of innate immune system, mathematical modeling of pathways (<i>Prof. Hoffmann, UCSD</i>) |
| 4:45 – 5:00 | Wrap up |



Fall 2009 Seminar Details

Date & Time

Wednesday, December 2, 2009
8:30 a.m. – 5:00 p.m.
(1 meeting)

Location

Room 110
Sorrento Mesa Center
6925 Lusk Blvd., San Diego, CA 92101

Fee

\$195

Seminar Coordinator

Julia Ponomarenko, Ph.D., a senior scientist at San Diego Supercomputer Center, UCSD, with 15 years research experience in bioinformatics and over 35 published articles in the field. She leads the research and development of the 3D structure component of the Immune Epitope Database (IEDB).

For more information, contact:

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