

RATIONAL DESIGN IN MODERN BIOTECHNOLOGY: FROM CONCEPT TO CLINIC
PROGETTAZIONE MOLECOLARE NELLE BIOTECNOLOGIE MODERNE: DAL CONCEPT ALLA CLINICA

Dr. Igor D'Angelo

25-29 November 2024

Aula presso Collegio Don Bosco, via San Giovanni Bosco 4 - Pavia

Monday 25th November:

14.30-17.30 Introductory presentation; my career from Pavia to the USA; Q&A, discussion about career in company/industry.

Tuesday 26th November:

9.30-11.00 Lecture: The biotherapeutic development process, from the bench to the clinic.

Short break

11.00-12.30 Lecture: Introduction to antibody engineering

Lunch break

14.00-15.00 Lecture: Antibody discovery approaches: finding a needle in a haystack?

15.00-16.00 Demo: The Abacus system for ML based antibody engineering

Wednesday 27th November:

9.30-11.00 Lecture: Antibody engineering, humanization, and optimization

Short break

11.00-12.30 Lecture: Epitope mapping, molecular design and engineering affinity and specificity

Lunch break

14.00-15.00 Predicting immunogenicity and reformatting to multispecifics

15.00-16.00 Q&A, discussion about career in company/industry

Thursday 28th November:

9.30-11.00 Demo: Utilizing MOE and svl for *in silico* molecular design

Short break

11.00-12.30 MOE workshop: engineering specificity in a therapeutically relevant antibody

Lunch break

14.00-15.00 MOE workshop: engineering specificity in a therapeutically relevant antibody

15.00-16.00 MOE workshop results and discussion

Friday 29th November:

9.30-12.30 one-to-one meeting about career suggestions, building a competitive resume (Curriculum Vitae), opportunities and trending skillsets. Conclusions.