THE COURSE COMBINES THEORETICAL AND PRACTICAL SESSIONS

TARGET

Students and research professionals interested in practical and theoretical aspects of SELEX, from sample preparation to data analysis

LOCATION

Campus Sescalades
INTERFIBIO labs
University Rovira i Virgili
Tarragona, Spain

CONTACT & INFO

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Interfibio

UNIVERSITAT ROVIRA i VIRGILI
Fundació URV

APTASEL

INTERNATIONAL TRAINING COURSE ON SELEX

April 4 to 8, 2022

CONTENT

Different SELEX strategies, characterization of selected aptamers, truncation studies, Next Generation Sequencing with data analysis and different binding assays will be covered

"THE COURSE WAS VERY INFORMATIVE, INTERACTIVE AND EDUCATIVE. I REALLY ENJOYED EVERY BIT OF IT"

D.R. Martin, 2019 edition

COURSE OPTIONS

Pre-SELEX & Advanced SELEX:
5 days: 35 hours, Theory: 10h / practice: 25h

Advanced SELEX:
3 days: 21 hours, Theory: 6h / practice: 15h

FEES

Pre-SELEX & Advanced: 1100€
Advanced Course: 850€

Includes: lunch for each course day, reagents used during the practical training, insurance for working in the lab and abstract book

PROGRAMME:

PRE-SELEX

14 hours: theory: 4h / practical: 10h

Detailed theoretical overview of the polymerase chain reaction (PCR), with practical hands-on training. The second part of the pre-SELEX course is focused on the characterization of the target and on the evaluation of different partitioning strategies.

Day 1 Hands-on PCR
Day 2 Target preparation

ADVANCED SELEX

21 hours: theory: 6h / practical: 15h

A comprehensive overview of different SELEX methodologies, Next Generation Sequencing, truncation studies, characterization of aptamers using binding assays as well as an introduction to aptamer based lateral flow assays.

Day 3 Systematic Evolution of Ligands by EXponential Enrichment (SELEX)
Day 4 Evolution, Next Generation Sequencing (NGS), Truncation studies
Day 5 Binding assays or Lateral Flow Assays (LFAs)