

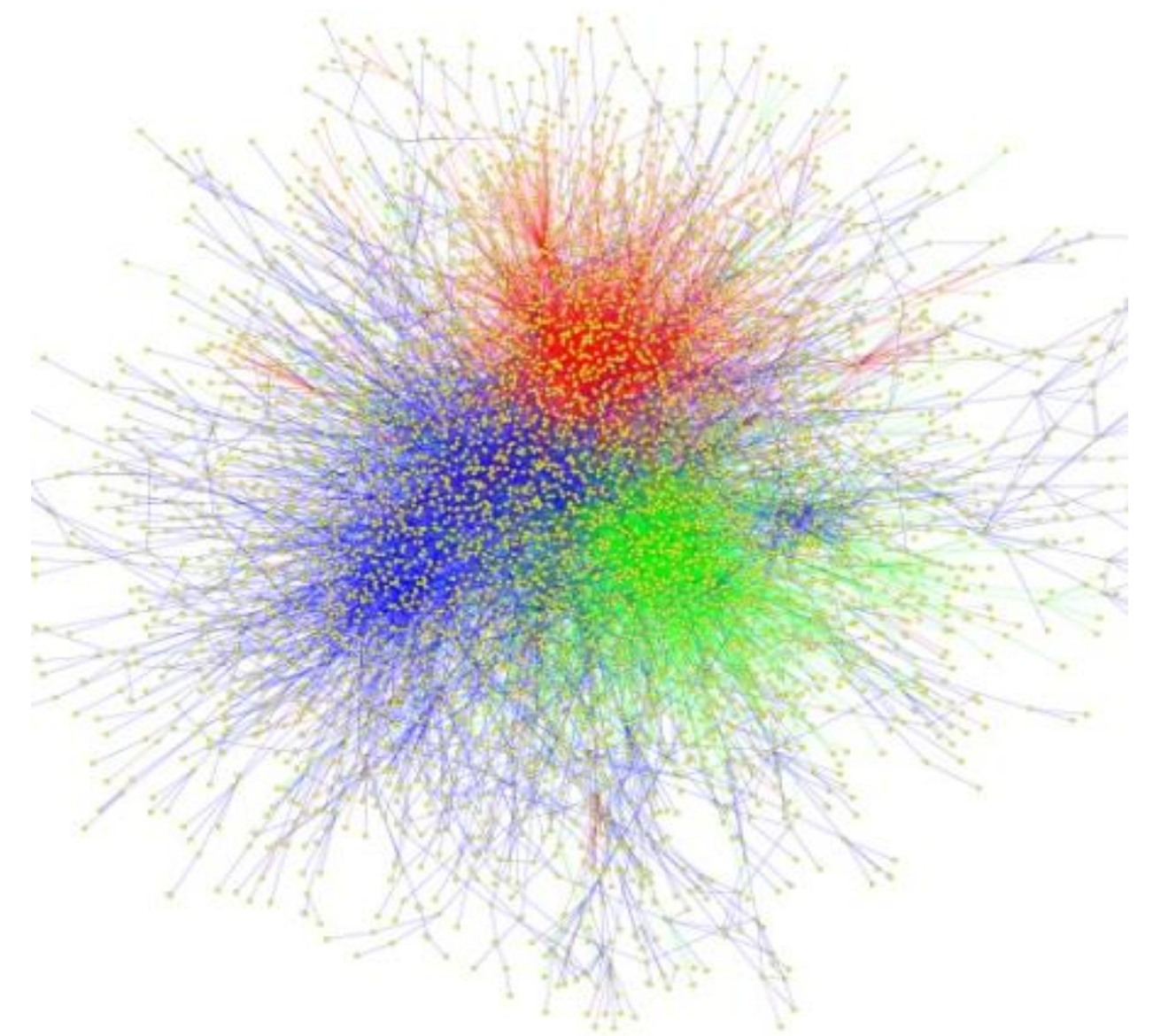


YEAST TWO HYBRID SYSTEM

Advanced Post Graduate Course

13-16 September 2011

The **Yeast Two-Hybrid System 2nd Advanced Post Graduate Course**, organized by **2CTech** a spin-off of UA, in collaboration with Center for Cell Biology (CBC), will be held at the University of Aveiro from September 13 to September 16. The course is designed for those interested in developing a better understanding of the Yeast Two Hybrid methodology. It will start with an overview on the Yeast Two Hybrid methodology that will be applied and practiced throughout the workshop. Several seminars will be given by experienced scientists on this topic. Hands-on practical sessions will follow providing the opportunity for participants to practice the relevant techniques such as yeast protein extraction, Western blot of the yeast extracted proteins, DNA transformation in bacteria and yeast, plasmid extraction from bacteria and yeast, enzyme restriction digestion, DNA precipitation and sequencing.



Yeast Two Hybrid System - the molecular biology technique used to discover protein-protein interactions & protein-DNA interactions.

Hands-on Laboratory Work and Guided Tutorials

Day 1	Day 2	Day 3	Day 4
LECTURES	PRACTICAL SESSIONS	PRACTICAL SESSIONS	COMPUTER LAB
Yeast Two Hybrid Introduction	Western blot of yeast extracted proteins	Bacteria DNA extraction	Bioinformatic Laboratory
Lab Work and Protocols Overview	Analysis of zygotes formation	DNA restriction analysis	SEMINAR
Analysis and Verification of Putative Positive Clones	Confirmation of phenotype by restreaking and preparation of glycerol stocks	Analysis of the restriction fragments	Novel Tools to Study Gene Function
A Real Case – Nek2A/ Nek2C	Yeast DNA extraction	Sequencing PCR preparation	LECTURE
PRACTICAL SESSIONS	Plating mating mixture	DNA ethanol precipitation for sequencing	YTH Variations and New Developments
Testing bait for auto-activation	DNA transformation in bacteria		
Yeast protein extraction			
Two-hybrid screen by yeast mating			

Fee: 400€ (lunches, coffee-breaks and course material included)

Deadline for applications: 15th August

For more information and

registration contact

info@2ctech.pt

Organizing Comité:

Joana Oliveira

Joana Vieira

Scientific Comité:

Margarida Fardilha

Irit Paz