

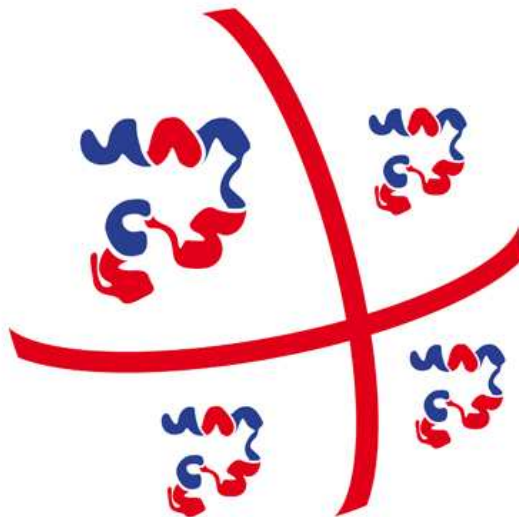


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Porto Conte
Ricerche



International Summer School on Proteomics

A Hands-on Course for agriculture, health, and food sciences
7-11 September 2011, Alghero, Sardinia, Italy



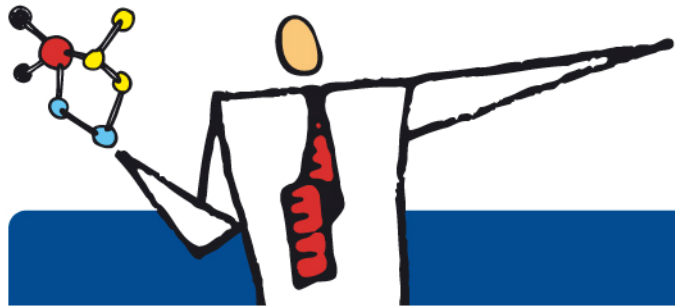
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Where?





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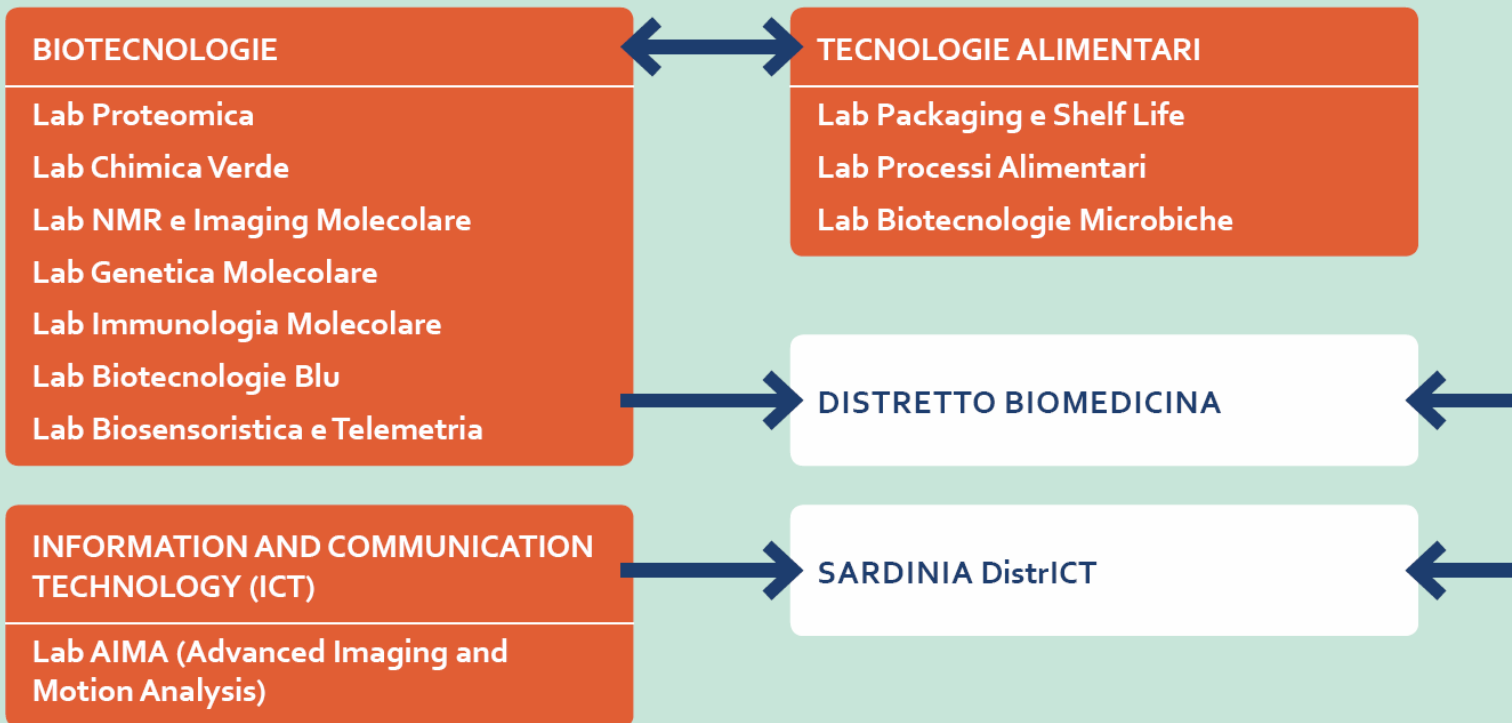
- **Porto Conte Ricerche** manages the Tramariglio (Alghero) section of the Sardinian Science and Technology Park.
- **Our mission** The promotion of R&D, education, and technology transfer activities in the fields of advanced technology and biotechnology
- **Biotechnology at Porto Conte Ricerche:** open laboratories for technology innovation and economic growth



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The laboratory network at Porto Conte Ricerche





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The Proteomics Lab: research targets



**Porto Conte
Ricerche**

- **biomarker discovery** (lung tumor, food quality, ovine infectious diseases)
- **novel diagnostic devices** (in vitro immunodiagnostic for human and animal health)

Biomedicine

The diagram illustrates a disease cycle involving a definitive host (sheep) and an intermediate host (goats). It shows the transmission of a parasite from a definitive host to an intermediate host, and then to a final host. Key stages include:

- Definitive Host (sheep)
- Intermediate Host (goats, swine, etc.)
- Final Host (sheep)
- Transmission from goat
- Hydatid cysts in liver, lungs, etc.
- Chronic active hepatitis, pneumoconiosis, splenomegaly
- Intensive Stage
- Diagnostic Stage

Agriculture and Food

The images represent different sectors of agriculture and food production:

- Wheat stalks (cereal production)
- Milk (dairy production)
- Fresh fish (aquaculture or fishing)



Progetto cofinanziato dall'Unione Europea
FESR - Fondo Europeo di Sviluppo Regionale

La Sardegna cresce con l'Europa



REGIONE AUTONOMA DELLA SARDEGNA

Assessorato della Programmazione, Bilancio, Credito e Assetto del Territorio





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The Proteomics Lab: research targets



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biomarker discovery

Methods for FFPE proteins extraction
Novel markers of lung tumors
Novel markers of sheep mastitis (pre-clinical)

diagnostic devices

Novel in vitro immunodiagnostic for human and animal idatidosis
Novel lateral flow for pre-clinical mass screening of mastitis in sheep

Scientific products

2 patents pending
2 patents to be filed
scientific articles on Journal with high IF





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This is a “hands on” course!

Lab activities:

from gel to MS

2D and DIGE

Senior researchers



**Daniela
Pagnozzi**



**M. Filippa
Addis**

Research fellows



**Grazia
Biosa**



**Stefania
Ghisaura**



**Salvatore
Pisanu**



**Alessandro
Tanca**



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Scientific Committee

Peter James
Stephen Pennington
Pier Giorgio Righetti



Speakers

Enrico Capobianco

CRS4, Pula, Cagliari, Italy

Elena Gonzalez

Universidad Complutense de Madrid, Spain

Peter James

Department of Immunotechnology,
Lund University, Sweden

John D. Lippolis

National Animal Disease Center, Agriculture
Research Services of the US Department of
Agriculture, Ames, Iowa, United States of
America

Ingrid Miller

Biomedical Sciences,
Wien University of Veterinary Medicine, Wien, Austria

Stephen Pennington

Institute of Biomolecular and Biomedical
Research, University College Dublin's Conway,
Dublin, Ireland

Pier Giorgio Righetti

Chemistry Department, Politecnico di Milano, Italy

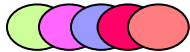
Bruno Bacher - GE Healthcare

Madalina Oppermann - Thermo



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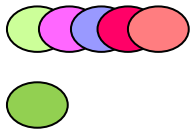
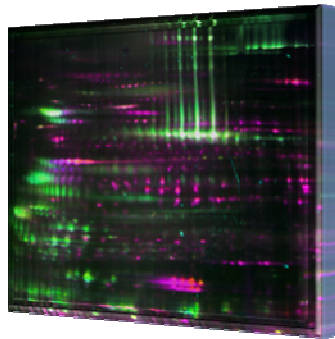


Sept 2011		Wed 7	Thu 8	Fri 9	Sat 10	Sun 11
Morning session 9:30 13:00	9:30	Registration		<i>The proteomic pipeline</i> Moderator: PG Righetti	<i>Case studies</i> Moderator: I Miller	
	10:30	Course introduction		Experimental design in proteomics Peter James Proteomics Pipelines to Deliver Biomarkers or Mechanisms Stephen Pennington	Population proteomics: protein diversity in hake populations Elena Gonzalez	
	11:30	Coffee break	Coffee break	Coffee break	Coffee break	
	11:15	Company Talks 2D DIGE Bruno Bacher GE Healthcare Orbitrap: different, disruptive, enabling and growing strong! Madalina Oppermann Thermo	Keynote Lectures Moderator: P James The proteome Argonauts: how to steal the golden fleece via combinatorial peptide ligand libraries (CPLL) Pier Giorgio Righetti Serum Proteomics by 2-DE: Mission Impossible? Ingrid Miller	Basic mass spectrometry in proteomics Peter James Computational Learning in Proteomics Enrico Capobianco	The Unique Advantages and Challenges of Proteomics in Animal Sciences John D. Lippolis What Proteomics Can Tell Us About Mastitis John D. Lippolis	Data Analysis Data handling and analysis Peter James
	12:00					
	12:40	Questions and discussion	Questions and discussion	Questions and discussion	Questions and discussion	
Lunch	13:00	Lunch break	Lunch break	Lunch break	Lunch break	
Afternoon session 14:00 18:30	14:00					
	15:30					
	16:15	Coffee break	Coffee break	Coffee break	Coffee break	
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	17:30		Free Time		Free Time	
	18:30					
	20:00					



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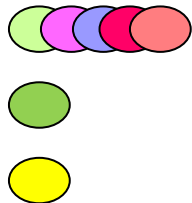


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	16:15	Coffee break	Coffee break	Coffee break	Coffee break	
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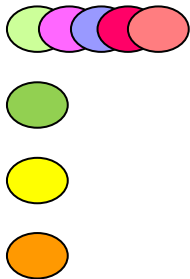


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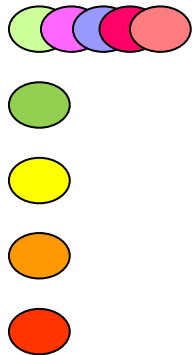


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	18:30	18:30 <i>Social Activity</i>	18:30 <i>Social Activity</i>	18:30 <i>Social Activity</i>	18:30 <i>Social Activity</i>
20:00	20:00 <i>Social Activity</i>	20:00 <i>Social Activity</i>	20:00 <i>Social Activity</i>	20:00 <i>Social Activity</i>	



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“Not just a summer school but a place where to....”

- *Obtain top education and training*
- *Strengthen collaborative research networks*
- *Learn more on research opportunities in Sardinia*





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