

Q.B. 2008.



DEPARTAMENTO DE QUÍMICA BIOLÓGICA
CURSO DE POSTGRADO O SEMINARIO

AÑO: 2008

- 1) **NOMBRE DEL CURSO/SEMINARIO:**
PROTEOMIC APPROACHES IN MOLECULAR BIOLOGY
THEORY AND PRACTICE (teórico-práctico)
- 2) **NOMBRE Y APELLIDO DEL RESPONSABLE:**
SILVIA MORENO DE COLONNA
- 3) **DOCENTES QUE COLABORAN EN EL DICTADO DEL CURSO:**
- ALICIA COUTO, DANIELA HOZBOR (Univ. Nac. de La Plata), ANTONIO LAGARES (Univ. Nacional de la Plata), ANDREA LLERA (Fundacion Instituto Leloir)
Varios invitados internacionales: Alessandro Vindigni (ICGEB, Italia); Federico Odreman (ICGEB, Italia); Juan José Calvete (CSIC, Valencia, España); Luca Bini (Universidad de Siena, Italia); Pier Giorgio Righetti (Politecnico de Milan, Italia), Patricia Palaggi (Swiss Institute of Bionformatics, Suiza), Arndt Asperger (Bruker Daltonics, Bremen, Alemania); Ana Giselle Neves Ferreira (FioCruz, Brasil)
- 4) **FECHA DE INICIACIÓN:** 3 de marzo de 2008
FECHA DE FINALIZACION: 14 de marzo de 2008
- 5) **CANTIDAD DE HORAS TOTALES DE DICTADO:**
 - a) **TEORICAS:** 24 hs
 - b) **TRABAJOS DE BIOINFORMATICA:** 12 hs
 - c) **LABORATORIO:** 15 hs
 - d) **CLASES TEORICAS-PRACTICAS:** 15 hs
- 6) **FORMA DE EVALUACIÓN:** examen final
- 7) **LUGAR DE DICTADO:**
Departamento de Química Biológica, FCEN, Universidad de Buenos Aires
- 8) **PUNTAJE PROPUESTO PARA EL DOCTORADO:** 3 puntos
- 9) **Nº DE ALUMNOS:** Máximo: 25 alumnos
- 10) **ARANCEL PROPUESTO:** curso internacional financiado por CABBIO y por ICGEB, sin arancel
- 11) **PROGRAMA ANALÍTICO Y BIBLIOGRAFÍA DEL CURSO:** VER ADJUNTO

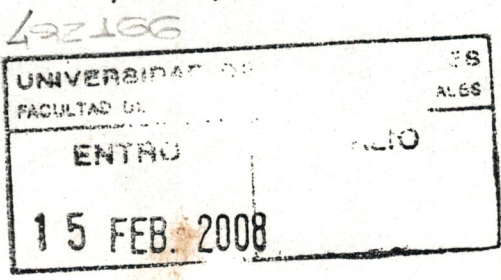
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Dra. NELIDA A. CANDURRA
DIRECTORA ADJUNTA
Dpto. QUÍMICA BIOLÓGICA
F.C.E. y N. - UBA


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VºBº Del Departamento

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Firma del Responsable

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VºBº de la Subcomisión de Doctorado



**“PROTEOMIC APPROACHES IN MOLECULAR BIOLOGY
THEORY AND PRACTICE”
3-14 March 2008, Buenos Aires, Argentina**


**Eliminado: 2008 Meetings and
Courses at ICGEB Affiliated
Centers**

THEORETICAL PART

Monday March 3

Introductory topics

8:30 – 9:00 Opening of the Course. **Silvia Moreno** (Argentina) and **Alessandro Vindigni** (Italy)

9:00 – 10:00 Introduction to mass spectrometry. MALDI-TOF spectrometers. **Alicia Couto** (Argentina)

10:00 -11:00 Introduction to MALDI ESI. **Dr. Juan José Calvete** (Spain)

11:00 - 11:20 Coffee break

11:20 – 12:30 Current definitions on functional and structural proteomics. **Luca Bini** (Italy)

12:30 – 14:00 hs Lunch

14:00 – 15:00 The power of 2D electrophoresis for protein separation. **Pier Giorgio Righetti** (Italy)

15:00 – 15:20 Coffee break

15:20 – 16:30 Electrophoretic-prefractionation. **Pier Giorgio Righetti** (Italy)

Tuesday March 4

9:00 – 10:00 Quantitative proteomics I. **Pier Giorgio Righetti** (Italy)

10:00 -11:00 Quantitative proteomics II. 2D-DIGE: a reliable quantitative protein separation technology. **Luca Bini** (Italy)

11:00 - 11:20 Coffee break

11:20 – 12:30 Characterization of proteomes in the absence of genome information. Venomics. **Juan José Calvete** (Spain)

12:30 – 14:00 hs Lunch

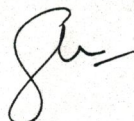
14:00 – 15:00 Posttranslational modifications (S-S bridges). **Juan José Calvete** (Spain)

15:00 – 15:20 Coffee break

15:20 – 16:30. Post translational modifications (phosphorylation). **Alessandro Vindigni** (Italy)

Wednesday March 5

9:00 – 10:10 Proteomics as a method to describe multivariate protein-markers. **Luca Bini** (Italy)





10:10 - 10:30 Coffee break

10:30 - 11:30 Fluorescence analysis of macromolecular complexes. **Alessandro Vindigni** (Italy)

11:40 - 12:30 Protein-protein interaction in yeast. The power of TAP-technology. **Silvia Moreno** (Argentina)

12:30 - 14:00 hs Lunch

14:00 - 15:30 MS Bioinformatic analysis for proteomics: theoretical part. Part I **Patricia Palagi** (Switzerland)

15:30 - 15:50 Coffee break

15:50 - 19:00 Bioinformatic analysis for proteomics: practical part. on computers. Part I. **Patricia Palagi** (Switzerland)

Eliminado: 8

Thursday March 6

9:00 - 10:00 Protein Equalizer Technology. **Pier Giorgio Righetti** (Italy)

10:00 - 10:20 Coffee break

10:20 - 11:30 Mass Spectrometry tools for proteomics/protein analysis: Requirements, trends, new developments **Arndt Asperger** (Bruker, Germany)

11:30 - 12:30 MS based quantitation strategies in proteomics/protein analysis, **Arndt Asperger** (Bruker, Germany)

12:30 - 14:00 hs Lunch

14:00 - 15:30 MS Bioinformatic analysis for proteomics: theoretical part. Part II **Patricia Palagi** (Switzerland)

15:30 - 15:50 Coffee break

15:50 - 19:00 Bioinformatic analysis for proteomics: practical part. on computers. Part II. **Patricia Palagi** (Switzerland)

Eliminado: 8

Friday

9:00 - 10:00 Classical 2D map analysis applied to biomarkers and diagnosis. **Andrea Llera** (Argentina)

10:00 - 10:20 Coffee break

10:20 - 11:20 Proteomic analysis of human brain astrocytomas. **Alessandro Vindigni** (Italy)

11:20 - 12:30 Identification of new vaccine candidates by proteomics. **Daniela Hozbor** (Argentina)

12:30 - 14:00 hs Lunch



14:00 – 15:00 A proteo-transcriptomic approach to understand bacterial responses to an abiotic stress. The phenotypic impact of differentially expressed markers".
Antonio Lagares (Argentina)

15:00 – 15:20 Coffee break

15:20 – 16:30 Glycomics. **Alicia Couto** (Argentina)

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