Q.B. 2008.

16

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: 66 hs
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 Quimica Biologica, 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

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

.....
VºBº de la Subcomisión de Doctorado

4921/66

UNIVERSIDAD DE BUENOS AIRES
FACULTAD DE CIENCIAS EXACTAS Y NATURALES
ENTRO
15 FEB. 2008

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Eliminado: 2008 Meetings and Courses at ICGEB Affiliated Centers

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

THEORETICAL PART

Monday March 3

Introductory topics

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

11:30 – 11:40 Proteomic 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 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 - 11:30Mass 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-trancriptomic approach to understand bacterial responses to an abiotic stress. The phenotipic impact of differentially expressed markers".
Antonio Lagares (Argentina)

15:00 – 15:20 Coffee break

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