

1st International Proteomics Conference in Crete – IPCC-01

Day 1 Thursday 7 October

- 09.00 – 9.10** WELCOME – Opening remarks (K Tokatlidis)
09.10 – 9.20 The Proteomics Facility at IMBB (T.Economou)
- 09.20 – 10.00** R. Tampe
10.00 – 10.40 B. Domon
10.40 – 11.10 S. Pergantis ‘Selenoproteomics in Human Serum: An Atomic Mass Spectrometric Approach’
- 11.10 – 11.30** COFFEE BREAK
- 11.30 – 12.10** A. Sickmann
12.10 – 12.50 H. Meyer ‘High Performance Proteomics as a Tool in Biomarker Discovery’
12.50 -- 13.00 General Discussion
- 13.00 – 14.00** LUNCH
- 14.00– 15.00** Poster Session A - COFFEE
- 15.00 – 15.40** M.Fonovic ‘Proteomic identification of extracellular substrates of cysteine proteases’
15.40 – 16.20 I. Xenarios
16.20 – 17.00 P. Jenö ‘Functional Phosphoproteomics of the Rapamycin-sensitive Signalling Pathway in the Yeast *Saccharomyces cerevisiae*’
- 17.00 – 17.30** ROUND TABLE DISCUSSION
(Quantitation in Proteomics and Handling of large datasets)

Day 2 Friday 8 October

- 9.30 – 10.10** M. Selbach
10.10 – 10.50 J. Olsen "Global analysis of cell signaling pathways by quantitative phosphoproteomics".
10.50 – 11.30 J. Scrivens
- 11.30 – 12.00** COFFEE BREAK
- 12.00 – 12.40** T.Jorgensen ‘The dynamic structure of proteins probed by hydrogen/deuterium exchange monitored by mass spectrometry’
12.40 – 13.10 Matt Kennedy ‘The Potential of On-Line HPLC-IMS-MS for Qualitative and Quantitative Protein Profiling in Complex Biological Samples’
13.10 – 13.20 General Discussion
- 13.20 – 14.30** LUNCH

- 14.30 – 15.10** T.Whetton ‘Proteomic analysis of normal and leukaemic stem cells’
- 15.10 – 15.50** C.Jimenez “Label-free proteomics targeted to sub-cellular compartments for candidate biomarker discovery and early detection of colorectal cancer”.
- 15.50 – 16.30** E. Denisov ‘Accelerating the Speed of Analysis for Orbitrap Technology’
- 16.30 – 17.30** Poster Session B - COFFEE
- 17.30 – 18.00** ROUND TABLE DISCUSSION
(Integration of other –omics data, future directions in Proteomics)
- 18.00** CONCLUDING REMARKS T. Economou

POSTER SESSIONS

A/A	Name	Title	Authors-Affiliation
1.	Michalis Aivaliotis	Global and targeted complexome analysis of the cytosolic proteome of Enteropathogenic <i>Escherichia coli</i> using Native-PAGE combined with nLC-LTQ Orbitrap MS	Michalis Aivaliotis ¹ , Vassilia Balabanidou ¹ , Athina Portaliou ¹ ; Nikos Kountourakis ¹ , Spyridoula Karamanou ¹ , Anastassios Economou ^{1,2} ¹ IMBB-FoRTH and ² Dpt of Biology, U.Crete, Greece.
2.	Michalis Aivaliotis	Study of non-covalent protein complexes using a top-down approach on a hybrid LTQ-Orbitrap mass spectrometer	Michalis Aivaliotis ¹ , Malvina Papanastasiou ¹ , Anastassios Economou ^{1,2} ¹ IMBB-FoRTH and ² Dpt of Biology, U.Crete, Greece.
3.	Malvina Papanastasiou	Comprehensive characterization of the <i>Escherichia coli</i> cell envelope using a nanoLC-LTQ orbritrp MS	Malvina Papanastasiou ¹ , Marios Frantzeskos-Sardis ¹ , Georgia Orfanoudaki ¹ , Jolanda Giapitzaki ¹ , Michalis Aivaliotis ¹ , Nikos Kountourakis ¹ , Spyridoula Karamanou ¹ , Anastassios Economou ^{1,2} ¹ IMBB-FoRTH and ² Dpt of Biology, U.Crete, Greece.
4.	Micaela Filiou	Biomarker discovery by ¹⁵N metabolic labeling of a trait anxiety mouse model	Michaela D. Filiou ¹ , Yaoyang Zhang ¹ , Larysa Teplytska ¹ , Stefan Reckow ¹ , Philipp Gormanns ¹ , Elisabeth Frank ² , Melanie Kessler ² , Boris Hamsch ² , Markus Nussbaumer ² , Alexander Yassouridis ³ , Giuseppina Maccarrone ¹ , Vladimir Tolstikov ⁴ , Rainer Landgraf ² , Chris W. Turck ¹

			¹ Proteomics and Biomarkers Group, Max Planck Institute of Psychiatry, Munich, Germany ² Behavioral Neuroendocrinology Group, Max Planck Institute of Psychiatry, Munich, Germany ³ Biostatistics Group, Max Planck Institute of Psychiatry, Munich, Germany ⁴ University of California Davis Genome Center, Metabolomics Core, Davis, CA
5.	Michaela Filiou	Altered <i>Escherichia coli</i> protein expression caused by a ¹⁵N isotope effect during metabolic labeling	Michaela D. Filiou ¹ , Jeeva Varadarajulu ¹ , Larysa Teplytska ¹ , Stefan Reckow ¹ , Giuseppina Maccarrone ¹ , Chris W. Turck ¹ ¹ Proteomics and Biomarkers Group, Max Planck Institute of Psychiatry, Munich, Germany.
6.	Spyros Pergantis	High Throughput Quantification of Selenium in Individual Serum Proteins from a Healthy Human Population Using High-Performance Liquid Chromatography On-line with Isotope Dilution Inductively Coupled Plasma - Mass Spectrometry	Sophia Letsiou ^{1,2} , Ying Lu ¹ , Tzortzis Nomikos ² , Smaragdi Antonopoulou ² , Demosthenes Panagiotakos ² , Christos Pitsavos ³ , Christodoulos Stefanadis ³ , Spiros A. Pergantis ^{1,*} . ¹ Environmental Chemical Processes Laboratory, Department of Chemistry, University of Crete, Voutes Campus, 71003 Heraklion, Crete, Greece ² Department of Dietetics and Nutritional Science, Harokopion University, El. Venizelou 70, 17671 Athens, Greece ³ First Cardiology Clinic, School of Medicine, University of Athens, Vasilisis Sofias 114, 11527 Athens, Greece
7.	Athina Portaliou	Analysis of the secretome of Enteropathogenic <i>E. coli</i>.	Portaliou, A. ^{1,2} , Kountourakis, N. ¹ , Aivaliotis, M. ¹ , Balabanidou, V. ¹ , Karamanou, S. ¹ and Economou, A. ^{1,2} . ¹ IMBB-FoRTH and ² Dpt of Biology, U.Crete, Greece.
8.	Athina Portaliou	A Type III secretion system chaperone maintains substrates in a	Balabanidou, V. ^{1,2} , Portaliou, A. ^{1,2} , Karamanou, S. ¹ , Aivaliotis, M. ¹ , Pozidis, C. ¹ ,

		translocation-competent state and targets them to the membrane.	Chen, L. ³ , Kalodimos, C.G. ³ and Economou, A. ^{1,2} ¹ IMBB-FoRTH and ² Dpt of Biology, U.Crete, Greece and ³ Rutgers U., NJ, USA
9.	Katerina Chatzi	Optimal matching between signal peptides and mature domains determines protein secretion efficiency.	Chatzi, K. ^{1,2} , Orfanoudaki, G. ^{1,2} , Koukaki, M. ¹ , Gouridis, G. ¹ , Tsamardinos Ioannis ³ , Karamanou Spyridoula ¹ and Economou Anastassios ^{1,2} . ¹ IMBB-FoRTH and ² Dpt of Biology, U.Crete and ³ ICS-FORTH, Greece.
10.	Georgia Orfanoudaki	Proteome-wide search for secretion signals in <i>Escherichia coli</i>	Orfanoudaki, G. ^{1,2} , Chatzi, K. ^{1,2} , Tsamardinos, I. ³ and Economou A. ^{1,2} . ¹ IMBB-FoRTH and ² Dpt of Biology, U.Crete and ³ ICS-FORTH, Greece.
11.	Marios F. Sardis	Long-range interaction between the Preprotein Binding Domain and the motor of SecA	Sardis, M. F. ^{1,2} , Gouridis, G. ¹ , Koukaki, M. ¹ , Karamanou, S. ¹ and Economou A. ^{1,2} . ¹ IMBB-FoRTH and ² Dpt of Biology, U.Crete, Greece
12.	Georgios Gouridis	Signal peptides are allosteric activators of the protein translocase.	Gouridis, G. ¹ , Karamanou, S. ¹ , Gelis, I. ³ , Kalodimos, C.G. ³ and Economou, A. ^{1,2} ¹ IMBB-FoRTH and ² Dpt of Biology, U.Crete, Greece and ³ Rutgers U., NJ, USA
13.	Petros Tzerpos	Affinity Capture and Mass Spectrometric Identification of Specific DNA Binding Proteins	Petros Tzerpos ^{1,2} , Thodoris Savvidis ^{1,2} , Michalis Sarris ^{1,2} , Michalis Aivaliotis ² , Charalambos Spilianakis ^{1,2} . ¹ Department of Biology, University of Crete. ² Institute of Molecular Biology & Biotechnology, Foundation for Research and Technology - Hellas.
14.	Ismene Karakasilioti	The role of irreparable DNA lesions in the white adipose of Ercc1-/- progeroid mice	Irene Kamileri, Ismene Karakasilioti , Theodore Kosteas and George Garinis Insitute of Molecular Biology and Biotechnology, FoRTH
15.	Antigoni Nikolaki	Identification of membrane protein complexes of <i>Pseudomonas sp. phDV1</i> using 2-D Blue Native/SDS-PAGE and	Antigoni Nikolaki and Georgios Tsiotis, Department of Chemistry, Division of Biochemistry, University of Crete, Heraklion,Greece

		MALDI - TOF/TOF	
16.	Makis Kapelios	Using Nano electrospray Ion Mobility Spectrometry (GEMMA) to Determine the Size and Relative Molecular Mass of Proteins and Protein Assemblies: A comparison with MALLS and QELS	E. Kapellios¹ , S. Karamanou ² , M. F. Sardis ² , M. Aivaliotis ² , A. Economou ^{2,3} , S. A. Pergantis ¹ ¹ Department of Chemistry, University of Crete ² IMBB-FoRTH ³ Department of Biology, University of Crete
17.	Irene Kouloura	Studies of acetophenones from Acronychia pedunculata with HPLC, FCPC and LC-MS techniques'	Eirini Kouloura¹ , Maria Halabalaki ¹ , Marie-Christine Lallemand ² , Francois Tillequin ² , Alexios-Leandros Skaltsounis ¹ ¹ Laboratory of Pharmacognosy & Natural Products Chemistry, School of Pharmacy, Panepistimioupoli, Zografou, 15771, Athens, Greece ² Laboratoire de Pharmacognosie de l'Université Paris Descartes, UMR N°8638, Faculté de Pharmacie, ⁴ Avenue de l' Observatoire, 75006 Paris, France
18.	Anastasia Papadioti	Antigen profiling of two strains of the obligate intracellular pathogen Coxiella burnetii	Anastasia Papadioti¹ , Stavroula Markoutsas ² , Iosif Vranakis ³ , Yiannis Tselentis ³ , Michael Karas ² , Anna Psaroulaki ³ and Georgios Tsiotis ^{1*} ¹ Division of Biochemistry, Department of Chemistry, University of Crete, P.O. Box 2208, GR-71003 Voutes, Greece. ² Institute of Pharmaceutical Chemistry, University of Frankfurt am Main, D-60438 Frankfurt, Germany ³ Department of Clinical Bacteriology, Parasitology, Zoonoses and Geographical Medicine, Medical School, University of Crete GR-71110 Heraklion, Greece.
19.	Konstantina Psatha	PROTEOME PROFILING OF p53 STABILIZATION & ACTIVATION BY NUTLIN-3A REVEALS	Konstantina Psatha^{1,2} , Elias Drakos ² , George Z. Rassidakis ^{1,2} , Michalis Aivaliotis ^{3,4}

		SIGNIFICANT ALTERATIONS IN THE HSPs RESPONSE IN HODGKIN AND NON HODGKIN LYMPHOMAS	¹ First Department of Pathology, National and Kapodistrian University of Athens, Athens, Greece, ² Department of Hematopathology, The University of Texas M.D. Anderson Cancer Center, Houston, Texas, USA, ³ Max-Planck-Institute of Biochemistry, Department of Membrane Biochemistry, Martinsried, Germany, ⁴ Institute of Molecular Biology and Biotechnology, FORTH, Heraklion, Greece.
20.	Nikos Lemonakis	Applications of Mass Spectrometry in Natural Product Chemistry	N. Lemoanakis ¹ , E. Kouloura ¹ , J. Tchoumtchoua ¹ , E. Gikas ¹ , M. Halabalaki ¹ , A. L. Skaltsounis ¹ . ¹ Laboratory of Pharmacognosy & Natural Products Chemistry, School of Pharmacy, Panepistimioupoli, Zografou, 15771, Athens, Greece
21.	Job Tchoumtchoua	SIMULTANEOUS DETERMINATION AND CHARACTERISATION OF ISOFLAVONOIDS FROM AMPHIMAS PTEROCARPOIDES Harms USING UHPLC-ESI(+&-) and APCI(+&-)-LTQ-ORBITRAP	Tchoumtchoua J ^{1,2} , Halabalaki M ¹ , Njamen D ² , Mbanya JC ³ , Skaltsounis AL ¹ ¹ Division of Pharmacognosy and Natural Products Chemistry, School of Pharmacy, University of Athens, Panepistimioupoli Zografou, 15771, Athens, Greece ² Laboratory of Animal Physiology, Department of Animal Biology and Physiology, Faculty of Science, University of Yaounde I, PO Box 812, Yaounde-Cameroon ³ Department of Internal Medicine and Specialties, Faculty of Medicine and Biomedical Sciences, University of Yaounde I, PO Box 8046, Yaounde-Cameroon
22.	Michalis Karagianopoulos	Effects of propanil and diazinon on the protozoan of aquatic ecosystems <i>Tetrahymena</i>	M. Karagiannopoulos ¹ , ME Lekka ¹ ¹ Biochemistry Laboratory, Chemistry Department, School of Sciences, University of Ioannina, 451 10 Ioannina, Greece
23.	Callina	Identification of a	Callina Stratigi ^{1,2} , Michalis

	Stratigi	mammalian GAGA factor	Aivaliotis ² , Charalampos Spilianakis ^{1,2} ¹ Department of Biology, University of Crete, Vasilika Vouton, GR71409 Heraklion, Crete, Greece ² Institute of Molecular Biology and Biotechnology, Foundation of Research and Technology, Nikolaou Plastira 100, GR 70013, Heraklion, Crete, Greece
24.	Lida Zoupi	The expression of TAG-1 in glial cells is sufficient for the formation of the juxtaparanodal complex and the phenotypic rescue of Tag-1 homozygous mutants	Maria Savvaki ¹ , Kostas Theodorakis ¹ , Lida Zoupi ¹ , Antonis Stamatakis ² , Simona Tivodar ¹ , Fotini Stylianopoulou ² , Domna Karagozeos ¹ ¹ IMBB and Department of Basic Science, Faculty of Medicine, University of Crete, Heraklion ² Laboratory of Biology, School of Nursing, University of Athens, Athens
25.	Maciej Mikolajczyk	A molecular view of the CIAPIN1, a protein involved in cytosolic iron sulphur cluster biosynthesis	L.Banci, I.Bertini, S.Ciofi-Baffoni, M.Mikolajczyk , J.Winkelmann University of Florence Magnetic Resonance Center (CERM) Via Luigi Sacconi 6 50019 Sesto Fiorentino (FI), Italy
26.	Emmanouela Kallergi	Function and molecular interactions of the mitochondrial oxidase Erv1	Emmanouela Kallergi ^{1,2} , Pari Kritsiligou ^{1,2,3} , Eirini Lionaki ^{1,2} , Michalis Aivaliotis ¹ , Nitsa Katrakili ¹ , Charalambos Pozidis ¹ and Kostas Tokatlidis ^{1,4} ¹ IMBB-FORTH, ² Dept of Biology Univeristy of Crete; ³ present address Dept of Biochemistry University of Oxford, UK ⁴ Dept of Materials Science and Technology, Univ. of Crete
27.	Afroditi Chatzi	Functional analysis and characterization of Mia40, a key component of the mitochondrial oxidative folding pathway	Afroditi Chatzi ^{1,2} , Dionisia P Sideris ^{1,2,3} , Nitsa Katrakili ¹ , Charalambos Pozidis ¹ and Kostas Tokatlidis ^{1,4} ¹ IMBB-FORTH, ² Dept of Biology Univeristy of Crete; ³ present address Dept of Biology, MIT, USA ⁴ Dept of Materials Science and Technology, Univ. of Crete

28.	Eirini Lionaki	The N-terminal shuttle of Erv1 determines the affinity for Mia40 and mediates electron transfer to the catalytic core of Erv1	Eirini Lionaki ^{1,2} , Michalis Aivaliotis ¹ , Charalambos Pozidis ¹ and Kostas Tokatlidis ^{1,3} ¹ IMBB-FORTH, ² Dept of Biology University of Crete; ³ Dept of Materials Science and Technology, Univ. of Crete
29.	Kostas Tokatlidis	A novel intermembrane space targeting signal docks cysteines onto Mia40 during mitochondrial oxidative folding	Dionisia Sideris ^{1,2,3} , Nikos Petrakis ^{1,4} , Nitsa Katrakili ¹ , Lucia Banci ⁵ , Ivano Bertini ⁵ , Simone Ciofi ⁵ , Angelo Gallo ⁵ and Kostas Tokatlidis ^{1,6} ¹ IMBB-FORTH, ² Dept of Biology University of Crete; ³ present address Dept of Biology, MIT, USA ⁴ present address MAICH, Chania; ⁵ CERM-University of Florence; ⁶ Dept of Materials Science and Technology, Univ. of Crete