



Sunday, September 2nd 2012

Banqueting Hall
Foyer Entrance

13.00-18.00 Registration

13.30-17.00 Dr. Bert L. Schram Young Investigators'
Mini Symposium

Alexandra
Trianti Hall

18.00-18.30 Opening Ceremony

18.30-19.00 Leonidas Zervas Award Lecture (*Sponsored by the University of Athens*)

From microwave heating to control of nano-scale self-assembly
in peptide science

Prof. Knud J. Jensen (*University of Copenhagen, Denmark*)

19.00-19.40 Josef Rudinger Memorial Lecture (*Sponsored by Polypeptide Group*)

Discovery and applications of cyclotides

Prof. David J. Craik (*The University of Queensland, Australia*)

19.40-22.00 Welcome Reception

Atrium

DR. BERT L. SCHRAM YOUNG INVESTIGATORS' MINI SYMPOSIUM



Sunday, September 2nd 2012

SUNDAY, 2 SEPTEMBER

Dr. Bert L. Schram Young Investigators' Mini Symposium

Alexandra Trianti
Hall

*Chairpersons: Maria Sakarellos-Daitsiotis, Greece
Dirk Tourwe, Belgium*

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|-------------|--|
| 13.30-13.45 | YO1: Chemoselective α -ketoacid-hydroxylamine (KAHA) ligation with 5-oxaproline for chemical protein synthesis
Dr. Vijaya Pattabiraman (ETH Zürich, Switzerland) |
| 13.45-14.00 | YO2: Recognition pliability is coupled to structural heterogeneity: a calmodulin - intrinsically disordered binding region complex
Dr. Andreas Tzakos (University of Ioannina, Greece) |
| 14.00-14.15 | YO3: Synthesis of bicyclic 1,5-triazole-bridged vancomycin CDE-ring peptidomimics via RuAAC macrocyclization
Jinqiang Zhang (Utrecht University, The Netherlands) |
| 14.15-14.30 | YO4: Biofunctionalization of biopolymers with peptide conjugated dendrons
Peter Fransen (IRB Barcelona, Spain) |
| 14.30-14.45 | YO5: The epithelial tumor marker MUC1: a versatile chemoenzymatic synthesis of posttranslationally modified variants for proteomic studies
Dr. Claudia Bello (University of Vienna, Austria) |
| 14.45-15.00 | YO6: Membrane thickness and the mechanism of action of the short peptaibol trichogin GA IV
Sara Bobone (Università di Roma Tor Vergata, Italy) |

15.00-15.30 *Coffee Break*

Foyer Alexandra Trianti Hall

*Chairpersons: Yoshiaki Kiso, Japan
Thomas Mavromoustakos, Greece*

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|-------------|--|
| 15.30-15.45 | YO7: Novel sources for potent and selective GPCR modulators
Dr. Markus Muttenthaler (The Scripps Research Institute, USA) |
| 15.45-16.00 | YO8: Remote control of protein function: clathrin-mediated endocytosis regulation by engineered light-switchable stapled peptides
Dr. Laura Nevola (IRB Barcelona, Spain) |
| 16.00-16.15 | YO9: N-Aminosulfamide peptide mimics from aza-sulfurylglycyl peptides: Synthesis, conformation and activity
Stéphane Turcotte (Université de Montréal, Canada) |
| 16.15-16.30 | YO10: Shedding light on MHC class I antigen loading: a UV-labile peptide ligand approach
Dr. Alexander Theodossis (Monash University, Australia) |
| 16.30-16.45 | YO11: An innovative strategy for direct and specific detection of intact sulfated peptides using MALDI-TOF MS reflectron positive ion mode
Dr. Sonia Cantel (IBMM UMR 5247 CNRS, France) |
| 16.45-17.00 | YO12: De novo designed heterodimeric coiled coils – Useful tools for the development of new biomaterials
Dr. Franziska Mende-Thomas (University of Bristol, UK) |

Monday, September 3rd 2012

MONDAY, 3 SEPTEMBER

Session 1

Banqueting Hall

*Chairpersons: Paul Cordopatis, Greece
Jean Martinez, France*

08.30-09.10	PL1: Exploring the protein universe Prof. Kurt Wüthrich (<i>ETH Zürich, Switzerland and The Scripps Research Institute, USA</i>)
09.10-09.30	O01: A total new game for the synthesis of disulfide-containing peptides Prof. Fernando Albericio (<i>Institute for Research in Biomedicine, CIBER-BBN and University of Barcelona, Spain</i>)
09.30-09.50	O02: Synthesis of insulin like peptides. Proposed insulin chain folding mechanism Prof. Kleomenis Barlos (<i>University of Patras and CBL Patras, Greece</i>)
09.50-10.10	O03: Diversity-oriented synthesis, conformational analysis and bioactivity of N-amino-imidazolin-2-one peptide mimics Prof. William D. Lubell (<i>Université de Montréal, Canada</i>)
10.10-10.30	O04: Bis(2-sulfanylethyl) amido native peptide ligation and novel tools for protein total synthesis Dr. Oleg Melnyk (<i>UMR CNRS 8161, France</i>)

10.30-11.00 *Coffee Break*

Exhibition Hall lower level

Session 2

Banqueting Hall

*Chairpersons: Fernando Albericio, Spain
Panagiota Moutevelis-Minakakis, Greece*

11.00-11.30	IL1: D-amino acid adhesion peptides by combinatorial selection Control of cellular growth on inert surfaces Prof. Morten Meldal (<i>University of Copenhagen, Denmark</i>)
11.30-11.50	O05: From simple to complex to ultra complex and back to simple Dr. Michal Lebl (<i>Spyder Institute Praha, Czech Republic</i>)
11.50-12.10	O06: NPPS: A new integrated method for solid phase synthesis of peptides on nanoparticles Assoc. Prof. Gerardo Byk (<i>Bar Ilan University, Israel</i>)
12.10-12.30	O07: Approaches to cyclic peptides and libraries of scaffolded cyclic peptides Prof. Rob M. J. Liskamp (<i>Utrecht University, The Netherlands</i>)

12.30-14.15 *Lunch Break*

Allegro Restaurant

Monday, September 3rd 2012

MONDAY, 3 SEPTEMBER

Session 3		Banqueting Hall	Session 4		MC2 Hall
		Chairpersons: Kleomenis Barlos , Greece Paolo Rovero , Italy			Chairpersons: George Pairas , Greece Botond Penke , Hungary
14.15-14.30	O08: Rational design and synthesis of linear and cyclic myelin epitope peptides: New directions in the immunotherapy of multiple sclerosis Prof. John Matsoukas (University of Patras, Greece)		O13: Development of a series of diketopiperazine vascular targeting anticancer agents based on microtubule depolymerization activity Prof. Yoshio Hayashi (Tokyo University of Pharmacy and Life Sciences, Japan)		
14.30-14.45	O09: Pseudoprolines: Effective tools for the cyclisation of small peptides Prof. Katrina A. Jolliffe (The University of Sydney, Australia)		O14: Branched diketo-piperazines as a universal scaffold for preparation of orally active small peptide derivatives Prof. Vladislav Deigin (Russian Academy of Sciences, Russia)		
14.45-15.00	O10: Preventing failure in difficult sequences: an improved resin matrix, its properties and application Dr. Wolfgang Rapp (Rapp Polymere GmbH, Germany)		O15: Cell surface glycans as targets for anti-cancer peptides Prof. Jörg Andrä (Hamburg University of Applied Sciences, Germany)		
15.00-15.15	O11: SNARE analogous peptides for membrane fusion Prof. Ulf Diederichsen (Georg-August-University Göttingen, Germany)		O16: Design, synthesis and analysis of anti-tuberculosis peptides Dr. Vijayalekshmi Sarojini (University of Auckland, New Zealand)		
15.15-15.30	O12: Total synthesis of marine cyclopeptide Scytonemin A Assoc. Prof. Tao Ye (The Hong-Kong Polytechnic University, Hong-Kong)		O17: Cardioprotective peptides to fight against ischemia/reperfusion injury in mouse hearts Dr. Prisca Boisguerin (Université Montpellier 2, France)		
15.30-16.00	Coffee Break		Exhibition Hall lower level		

Monday, September 3rd 2012

MONDAY, 3 SEPTEMBER

Session 5

Banqueting Hall

*Chairpersons: Knud Jensen, Denmark
Dirk Rijkers,
The Netherlands*

16.00-16.15 O18: Enzymatic condensation of side-chain protected peptide fragments in anhydrous organic solvent using subtilisin A: A novel universal strategy for industrial peptide synthesis
Dr. Timo Nuijens
(DSM Innovative Synthesis B.V., The Netherlands)

16.15-16.30 O19: Lead optimization of allophenylnorstatine- containing inhibitors as therapeutic drug and application to peptidomimic protease probe
Dr. Koushi Hidaka
(Kobe Gakuin University, Japan)

16.30-16.45 O20: Fragment-based, photoactive phosphotyrosine peptide mimetics
Prof. Jörg Rademann
(Leipzig University, Germany)

16.45-17.00 O21: Enhancing peptide activity and structure by synthetic constraint of beta-turns and beta-sheets: CLIPS and anti-CD40L phylomers
Dr. Shane R. Stone
(Telethon Institute for Child Health Research, Australia)

17.00-17.15 O22: Development of a unique peptide synthetic method AJIPHASE[®] using anchor support molecules to suppress alkylation in final cleavage step
Dr. Daisuke Takahashi
(AJINOMOTO Co, Japan)

Session 6

MC2 Hall

*Chairpersons: Dimitrios Gatos, Greece
Ale Narvanen, Finland*

O23: Mixed ion-exchange centrifugal partition chromatography: an efficient solution for peptide separation
Prof. Jean-Hugues Renault
(University of Reims Champagne-Ardenne, France)

O24: Conformation and biological activity of cyclinopeptide A analogs modified within tetrapeptide fragment Pro-Pro-Phe-Phe
Prof. Stefan Jankowski
(Lodz University of Technology, Poland)

O25: Solid state reaction peptides and proteins with spillover hydrogen
Prof. Yuri A. Zolotarev
(Russian Academy of Sciences, Russia)

O26: Affinity extraction of peptides in ionic liquids using click chemistry
Dr. Zhuo Li
(National Chung Cheng University, Taiwan)

O27: Design of CXCR4 Ligands for Diagnostic and Therapeutic Applications
Dr. Oliver Demmer
(Zealand Pharma A/S, Denmark)

17.15-19.30 **Poster Session 1 (Posters with odd numbers)**

Exhibition Hall

Tuesday, September 4th 2012

TUESDAY, 4 SEPTEMBER

Session 7

Banqueting Hall

Chairpersons: **Ernest Giralt**, Spain
William Lubell, Canada

08.30-09.10	PL2: The fully-extended peptide conformation Prof. Claudio Toniolo (<i>University of Padova, Italy</i>)
09.10-09.30	O28: Insight into A β misfolding and aggregation Prof. Sandor Lovas (<i>Creighton University, USA</i>)
09.30-09.50	O29: Selective amino acid isotope labeling strategies for solution NMR studies of high-molecular-weight protein drug-targets Assoc. Prof. Georgios A. Spyroulias (<i>University of Patras, Greece</i>)
09.50-10.10	O30: Delivering the native structures of peptides from computer simulations and predicted NMR proton chemical shifts Dr. Pierre Tufféry (<i>INSERM and University Paris Diderot, France</i>)
10.10-10.30	O31: Computational prediction of bioactive peptides Prof. Denis C. Shields (<i>University College Dublin, Ireland</i>)

10.30-11.00 *Coffee Break*

Exhibition Hall lower level

Session 8

Banqueting Hall

Chairpersons: **Thomas Mavromoustakos**, Greece
Zbigniew Szewczuk, Poland

11.00-11.30	IL2: Ion Mobility - Mass Spectrometry and Affinity - Mass Spectrometry: New tools for elucidation of structures and reaction pathways of "misfolding" - aggregating neurodegenerative proteins Prof. Michael Przybylski (<i>University of Konstanz, Germany</i>)
11.30-11.50	O32: Peptides as a new emerging class of medical biomarkers Prof. Vadim T. Ivanov (<i>Russian Academy of Sciences, Russia</i>)
11.50-12.10	O33: Peptide self-assembled monolayers as a new tool for nanotechnology Assoc. Prof. Mariano Venanzi (<i>University of Rome "Tor Vergata", Italy</i>)
12.10-12.30	O34: New NMR approaches to study peptide-self-assembly in situ: principle and application to pseudodesmin, a cyclic lipodepsipeptide Prof. José C. Martins (<i>Ghent University, Belgium</i>)

12.30-14.15 *Lunch Break*

Allegro Restaurant

12.30-13.30 **Biotage Lunch Symposium**



Further developments and systematic studies in microwave peptide synthesis
Prof. Knud Jensen (*University of Copenhagen, Denmark*)

Dr. Amit Mehrotra (*Biotage, Sweden*)

(*Gratis registration at the Symposium secretariat is required.*)

Tuesday, September 4th 2012

TUESDAY, 4 SEPTEMBER

Session 9		Banqueting Hall	Session 10		MC2 Hall
		Chairpersons: Chandralal Hewage , Ireland Theodore Tselios , Greece			Chairpersons: Vaclav Cerovsky , Czech Republic Jean-Alain Fehrentz , France
14.15-14.30	O35: Engineering pro-angiogenic peptides using stable disulfide-rich scaffolds Prof. Norelle L. Daly (James Cook University, Australia)		O40: A common polymorphism in ER aminopeptidase 2 induces a specificity switch that leads to altered processing of antigenic peptides Dr. Efstratios Stratikos (National Centre for Scientific Research "DEMOKRITOS", Greece)		
14.30-14.45	O36: Folding landscape exploration by capping beta structures and circular permutation Prof. Niels Andersen (University of Washington, USA)		O41: IANUS peptide array as a tool to screen for protein antagonists Dr. Miroslav Malešević (Max Planck Research Unit for Enzymology of Protein Folding, Germany)		
14.45-15.00	O37: Lasso peptides: from linear to interlocked structures Dr. Yanyan Li (Muséum National d'Histoire Naturelle, France)		O42: Comprehensive peptide microarrays for histone research Dr. Karsten Schnatbaum (JPT Peptide Technologies GmbH, Germany)		
15.00-15.15	O38: Novel insulin analogues with cyclic structures mimicking the active conformation of the hormone at the C-terminus of the B-chain Dr. Jiří Jiráček (Institute of Organic Chemistry and Biochemistry ASCR, Czech Republic)		O43: The antimicrobial peptide M33. An example of drug development Prof. Alessandro Pini (University of Siena, Italy)		
15.15-15.30	O39: Tunable control of peptide structure via aromatic-proline CH/ π interactions and proline stereoelectronic effects Prof. Neal J. Zondlo (University of Delaware, USA)		O44: Synthesis of cyclic lipo-octapeptide derivatives of burkholdines and its antifungal activity Assoc. Prof. Hiroyuki Konno (Yamagata University, Japan)		
15.30-16.00	Coffee Break		Exhibition Hall lower level		

Tuesday, September 4th 2012

TUESDAY, 4 SEPTEMBER

Session 11		Banqueting Hall	Session 12		MC2 Hall
		Chairpersons: Bengt Erik Haug , Norway Leondios Leondiadis , Greece			Chairpersons: Vadim Ivanov , Russia Georgios Spyroulias , Greece
16.00-16.15	O45: Peptides labeled by quaternary ammonium salts for sensitive detection by electrospray mass spectrometry Prof. Zbigniew Szewczuk (University of Wroclaw, Poland)		O50: On the way to synthetic peptide vaccine against hepatitis C Prof. Ekaterina Kolesanova (Russian Academy of Medical Sciences, Russia)		
16.15-16.30	O46: Integrated structural biology shows how scarce sequence elements control the function of single β -thymosin/WH2 domains in actin assembly Dr. Eric Guittet (ICSN-CNRS, France)		O51: A synthetic heparan sulfate-mimetic peptide conjugated to a mini CD4 displays very high anti-HIV activity Dr. Françoise Baleux (Institute Pasteur, France)		
16.30-16.45	O47: How hydrophobicity dictates the size of self-replicating self-assembling macrocycles Dr. Morteza Malakoutikhah (University of Groningen, The Netherlands)		O52: Branched neurotensin specifically binds a highly selective tumor cell marker, which is not neurotensin receptor 1 Dr. Chiara Falciani (University of Siena, Italy)		
16.45-17.00	O48: Protein-fragment complementation and semi-rational design: Engineering specific antagonists of protein-protein interactions Dr. Jody M. Mason (University of Essex, UK)		O53: Anticancer drug delivery systems containing GnRH-III as a targeting moiety Dr. Marilena Manea (University of Konstanz, Germany)		
17.00-17.15	O49: Food protein fragments are regulatory oligopeptides Prof. Alexander Zamyatnin (Russian Academy of Sciences, Russia)		O54: Cis-trans isomerization in peptide/MHC/TCR complexes Dr. Athanassios Stavrakoudis (University of Ioannina, Greece)		
17.15-19.30	Poster Session 2 (Posters with even numbers)		Exhibition Hall		

Wednesday, September 5th 2012

WEDNESDAY, 5 SEPTEMBER

Session 13

Banqueting Hall

Chairpersons: **Dimitrios Georgiadis**, *Greece*
John Howl, *UK*

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|-------------|---|
| 08.30-09.10 | PL3: Chromatin: An expansive canvas for chemical biology
Prof. Tom Muir (<i>Princeton University, USA</i>) |
| 09.10-09.30 | O55: Bivalent ligands for the chemokine receptor CXCR4 dimer and their function
Prof. Hirokazu Tamamura (<i>Tokyo Medical and Dental University, Japan</i>) |
| 09.30-09.50 | O56: New azapeptide calpain inhibitors
Dr. Zoltán Bánóczy (<i>Eötvös Loránd University, Hungary</i>) |
| 09.50-10.10 | O57: Production and characterization of matrix metalloproteinases (MMPs) implicated in multiple sclerosis (MS)
Dr. Gregg B. Fields (<i>Torrey Pines Institute for Molecular Studies, USA</i>) |
| 10.10-10.30 | O58: Backbone cyclic helix mimetic of chemokine (C-C motif) receptor 2: A novel rational approach for inhibiting dimerization of G protein-coupled receptor
Prof. Chaim Gilon (<i>The Hebrew University of Jerusalem, Israel</i>) |

10.30-11.00 *Coffee Break**Exhibition Hall lower level*

Session 14

Banqueting Hall

Chairpersons: **Vassilios Tsikaris**, *Greece*
John Wade, *Australia*

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| 11.00-11.20 | O59: Novel single-chain ligands for the relaxin-3 receptor RXFP3
Dr. K. Johan Rosengren (<i>The University of Queensland, Australia</i>) |
| 11.20-11.40 | O60: Combinatorial library of natural cyclic peptides with immunosuppressive properties
Dr. Christian W. Gruber (<i>Medical University of Vienna, Austria</i>) |
| 11.40-12.00 | O61: Receptor and blood-brain barrier characterisation of opioid peptides in drug research & early development
Dr. Mathieu Verbeken (<i>Ghent University, Belgium</i>) |

12.00-18.00 **Excursion** (*excursion pass is required*)

19.00 **Soccer Event and Open Field Dinner**
(Gratis registration at the Symposium secretariat is required)

Thursday, September 6th 2012

THURSDAY, 6 SEPTEMBER

Session 15

Banqueting Hall

Chairpersons: **Victor Hruby, USA**
Aphrodite Kapurniotu, Germany

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|-------------|---|
| 08.30-09.10 | PL4: Defying difficult diseases: design and synthesis of aspartic protease inhibitors and click peptides based on the O-acyl isopeptide method
Prof. Yoshiaki Kiso (<i>Nagahama Institute of Bio-Science and Technology, Japan</i>) |
| 09.10-09.30 | O62: Selective cell signaling study of GPCR via PWR spectroscopy
Prof. Minying Cai (<i>University of Arizona, USA</i>) |
| 09.30-09.50 | O63: Present and future of peptides as blood-brain barrier shuttles
Dr. Meritxell Teixido (<i>Institute for Research in Biomedicine, Spain</i>) |
| 09.50-10.10 | O64: Leptin receptor antagonist peptides acting in the central nervous system and the periphery
Prof. Laszlo Otvos (<i>Temple University, USA</i>) |
| 10.10-10.30 | O65: Silencing peptides: constrained and UV-activatable cell-penetrating peptides for intracellular delivery of liposomes
Dr. Dennis W. P. M. Löwik (<i>Radboud University Nijmegen, The Netherlands</i>) |

10.30-11.00 *Coffee Break**Exhibition Hall lower level*

Session 16

Banqueting Hall

Chairpersons: **Victoria Magrioti, Greece**
Anna-Maria Papini, Italy

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|-------------|---|
| 11.00-11.30 | IL3: De novo design of artificial peptides that specifically interact with HIV-1 gp41 to inhibit viral-cell membrane fusion and infection
Prof. Keliang Liu (<i>University of Beijing, China</i>) |
| 11.30-11.50 | O66: PEGylation of the endogenous peptide Neuromedin U yields a promising candidate for the treatment of obesity and diabetes
Dr. Antonello Pessi (<i>IRBM and PeptiPharma, Italy</i>) |
| 11.50-12.10 | O67: Peptide-derived inhibitors targeting polo-like kinase 1 for anti-cancer therapy
Dr. Kyung S. Lee (<i>National Cancer Institute, USA</i>) |
| 12.10-12.30 | O68: Discovery and applications of circular cystine knotted peptides
Assoc. Prof. Ulf Göransson (<i>Uppsala University, Sweden</i>) |

12.30-14.15 *Lunch Break**Allegro Restaurant*

Thursday, September 6th 2012

Session 17

Banqueting Hall

Chairpersons: **Keliang Liu**, *China*
Evangelia Livaniou, *Greece*

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| 14.15-14.30 | <p>O69: Design, synthesis and binding assays of sialic acid and sialyl-saccharide conjugates to lectins and influenza H1N1 virus
 Prof. Maria Sakarellos-Daitsiotis (<i>University of Ioannina, Greece</i>)</p> |
| 14.30-14.45 | <p>O70: The ghrelin receptor : new potent ligands for a functional selectivity
 Dr. Jean-Alain Fehrentz (<i>Institute of Biomolecules Max Mousseron, UMR 5247, France</i>)</p> |
| 14.45-15.00 | <p>O71: Understanding the structure/activity relationships of the iron regulatory peptide hepcidin
 Dr. Richard J. Clark (<i>The University of Queensland, Australia</i>)</p> |
| 15.00-15.15 | <p>O72: Nanoparticles-based peptide subunit vaccines against group A Streptococcus
 Dr. Mariusz Skwarczynski (<i>The University of Queensland, Australia</i>)</p> |
| 15.15-15.30 | <p>O73: Biopptides
 Dr. Sarah Jones (<i>University of Wolverhampton, UK</i>)</p> |

15.30-16.00 *Coffee Break**Exhibition Hall lower level*

Session 18

Banqueting Hall

Chairpersons: **Theodosia Maina**, *Greece*
Krzysztof Rolka, *Poland*

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| 16.00-16.15 | <p>O74: Internalization of peptides and proteins into different types of live cells via formation of non-covalent complexes with cell penetrating peptides (CPPs)
 Prof. Siegmund Reissmann (<i>Friedrich-Schiller-University Jena, Germany</i>)</p> |
| 16.15-16.30 | <p>O75: Targeted peptide analysis: from cancer therapeutics to doping control, employing High Resolution MS strategies
 Dr. Martin Hornshaw (<i>Thermo Fisher Scientific, UK</i>)</p> |
| 16.30-16.45 | <p>O76: SS14-Based radiopeptides: Synthesis and biology
 Dr. Aikaterini Tatsi (<i>National Centre for Scientific Research "DEMOKRITOS", Greece</i>)</p> |
| 16.45-17.00 | <p>O77: Efficient identification of peptide ligands for proteins via high throughput screening of combinatorial peptide libraries
 Dr. Su Seong Lee (<i>Institute of Bioengineering and Nanotechnology, Singapore</i>)</p> |
| 17.00-17.15 | <p>O78: Synthesis and in vitro and in vivo evaluation of a bombesin peptide analog linked to a cytotoxic drug for the targeting of bombesin receptor-positive tumors
 Dr. Subhani M. Okarvi (<i>King Faisal Specialist Hospital and Research Centre, Saudi Arabia</i>)</p> |

20.30

*Gala Dinner**Vorres Museum*

Friday, September 7th 2012

FRIDAY, 7 SEPTEMBER

Session 19

Banqueting Hall

Chairpersons: **Paul Alewood**, *Australia*
Morten Meldal, *Denmark*

08.30-09.10	PL5: Tumor targeting with peptides in four decades: from initial concepts to an array of highly sophisticated methods Prof. Alex N. Eberle (<i>University of Basel, Switzerland</i>)
09.10-09.30	O79: Novel approaches to the design of novel multivalent ligands for the detection and treatment of cancer Prof. Victor J. Hruby (<i>University of Arizona, USA</i>)
09.30-09.50	O80: Dendritic glycopeptides as <i>Pseudomonas aeruginosa</i> biofilm inhibitors Dr. Tamis Darbre (<i>University of Berne, Switzerland</i>)
09.50-10.10	O81: Development of synthetic glycopeptide vaccines for cancer therapy Prof. Yanmei Li (<i>Tsinghua University, China</i>)
10.10-10.30	O82: Functionalizable oligoprolines as versatile molecular scaffolds for tumor targeting Prof. Helma Wennemers (<i>ETH Zürich, Switzerland</i>)

10.30-11.00

Coffee Break

Exhibition Hall lower level

Session 20

Banqueting Hall

Chairpersons: **Ferenc Hudecz**, *Hungary*
John Matsoukas, *Greece*

11.00-11.30	IL4: The mimicry pathway from anti-glycopeptide antibodies to specific protein antigens of immune-mediated neurodegenerative/neuroregressive diseases: the case study of Rett syndrome Prof. Anna-Maria Papini (<i>University of Florence, Italy</i>)
11.30-11.50	O83: Designed mimics of islet amyloid polypeptide as inhibitors of protein aggregation and cell degeneration in Alzheimer's disease and type 2 diabetes Prof. Aphrodite Kapurniotu (<i>Technische Universität München, Germany</i>)
11.50-12.10	O84: Safety pharmacology, pharmacokinetics and toxicology of Myrcludex B, a first-in-class hepatitis B virus entry inhibitor Prof. Walter Mier (<i>University Hospital Heidelberg, Germany</i>)
12.10-12.30	O85: Design and synthesis of orally active bradykinin B1 peptide antagonists for treating inflammatory pain Prof. James P. Tam (<i>Nanyang Technological University, Singapore</i>)

12.30-13.00

Closing Remarks



Posters 001-037: Antimicrobial Peptides, Glycopeptides and Lipopeptides

P001.

Alanine scan of limnonectin peptides on the Overture™ robotic peptide library synthesizer

J.P. Cain, M.A. Onaiyekan, C.A. Chantell,
M. Menakuru

P002.

Antimicrobial activity of new analogues of Chrysopsin-1

E. Tsoumani, A. Niarchos, R. Exarchakou,
V. Mertziani, K. Poulas, P. Cordopatis, V. Magafa

P003.

Antimicrobial regulation by host defence peptides

L.E. Ryan, B. Lamarre, J. Ravi, M.G. Ryadnov

P004.

Antimicrobially active peptides isolated from fleshfly larvae

T. Neubauerova, T. Macek, M. Šanda,
Z. Vobůrka, M. Mackova

P005.

Characterization of dual effects induced by antimicrobial peptides: regulated cell death or membrane disruption

E.J. Paredes-Gamero, M.N.C. Martins,
F.A.M. Cappabianco, J.S. Ide, A. Miranda

P006.

Conformational properties of the spin-labeled tylopeptin B and heptaibin peptaibiotics based on PELDOR spectroscopy data

M. Gobbo, B. Biondi, M. De Zotti,
A.D. Milov, Yu. D. Tsvetkov, A.G. Maryasov,
F. Formaggio, C. Toniolo

P007.

Cytosolic translocation of gomesin promotes cell death by endoplasmic reticulum damage, intracellular Ca²⁺ overload and mitochondrial dysfunction

E.J. Paredes-Gamero, R.L. Casaes-Rodrigues,
G.E.D. Moura, T.M. Domingues, M.V. Buri,
A. Miranda, G.Z. Justo, I.L.S. Tersariol

P008.

De novo design of short peptides with antimicrobial activity and the effect of acyl conjugation

A. Macurkova, R. Jezek, G. Kroneislova,
P. Lovecka, T. Macek, M. Mackova

P009.

Design and synthesis of amphipathic α -helical peptide models for the development of new antimicrobial agents

A. Marianou, A. Balliu, M. Sakka, A.I. Koukkou,
M. Sakarellos-Daitsiotis, E. Panou-Pomonis

P010.

Design, structural and functional characterization of a Temporin-1b analogue active against Gram negative bacteria

C. Avitabile, F. Netti, L.D. D'Andrea,
M. Palmieri, G. Malgieri, R. Capparelli,
R. Fattorusso, A. Romanelli

P011.

Development of Human Cathelicidin LL-37-derived Short Antimicrobial Peptides with Prokaryotic Selectivity, LPS-neutralizing Activity and Protease Stability

S.Y. Shin, Y.H. Nan, J.K. Bang

P012.

Effect of D-amino acid substitution on the biological activity of the novel antimicrobial peptide from the venom of solitary bee *Macropis fulvipes*

L. Monincová, J. Slaninová, V. Fučk,
L. Bednářová, Z. Vobůrka, J. Straka,
V. Čerovský

P013.

Enhanced anti-staphylococcal activity of an analog derived from the 107-115 human lysozyme fragment

N.B. Iannucci, R. González, F. Guzmán,
O. Cascone, F. Albericio

P014.

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P. Lecorché, A. Walrant, S. A. Bode, M. Thévenin, C. Bechara, I.D. Alves, S. Lavielle, G. Chassaing, S. Sagan, F. Burlina

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Y. Gong, C.A. Muldoon, R. Premraj, Z.M. Ziora, T.A. Bradford, M. Cheng, S. Ramu, J.X. Huang, A. Kavanagh, R. Pelingon, J.C. Lee, K. Wong, M.S. Butler, M.A. Blaskovich, M.A. Cooper

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H. Etayash, W. Soliman, K. Kaur

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M. De Vleeschouwer, J. Van den Begin, D. Sinnaeve, J.C. Martins, A. Madder

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C.R. Röhrich, A. Iversen, T. Degenkolb, W.M. Jaklitsch, H. Voglmayr, U. Thrane, A. Vilcinskas, K.F. Nielsen, H. Brückner

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D. Lapidus, S. Ventura, C. Czaplowski, A. Liwo, I. Liepina

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A. Moretto, P. Fatás, M. Mba, C. Cativiela, A.I. Jiménez, C. Toniolo

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M. Kostomoiri, C. Zikos, D. Benaki, M. Paravatou-Petsotas, T. Tsotakos, C. Triantis, I. Pirmettis, M. Papadopoulos, M. Pelecanou, E. Livaniou

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M. Larregola, G. Pacini, F. Rizzolo, F. Burlina, S. Lavielle, P. Rovero, A-M. Papini

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A. Murza, A. Parent, E. Besserer-Offroy, H. Tremblay, F. Karadereye, N. Beaudet, R. Leduc, P. Sarret, E. Marsault

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M.N. Zhmak, C. Weise, I.E. Kasheverov, T.V. Andreeva, E.V. Kryukova, V.G. Starkov, V.I. Tsetlin, Y.N. Utkin

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A. Jakas, P. Cudic, N. Bionda, J. Suc, K. Vlahovick-Kahlina, M. Cudic

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