

Thursday, June 7th

10.30	Welcome addresses
Session I	Peptides in Diagnostic and Therapeutic Applications Chairmen: A.M. Papini – M. Chorev
11.00 – 11.45	PL1 Stephen B. H. Kent - University of Chicago – IL - USA Recent adventures in the synthesis of small protein toxins
11.45 – 12.05	01 Meritxell Teixidó - Institute for Research in Biomedicine (IRB Barcelona) - Spain Minichlorotoxins, a new family of blood-brain barrier peptide shuttles
12.05 – 12.25	02 Chiara Falciani - University of Siena – Italy The GAG-specific branched peptide NT4 reduces invasiveness of tumor cells and angiogenesis
12.25 – 12.45	03 Burkhard Bechinger - University of Strasbourg – France Cell-penetrating peptides with antimicrobial, transfection and transduction activities
12.45 – 13.05	04 Lihl Adler-Abramovich - Tel Aviv University – Israel Learning from nature to form new organic materials for tissue regeneration
13.05 - 14.15	Free Lunch
Session II	Antimicrobial Peptides Chairmen: L. Stella – S. Galdiero
14.15 – 14.55	PL2 Martin Malmsten- Uppsala University – Sweden Nanoparticle and other delivery systems for host defence peptides
14.55 – 15.15	05 Marta De Zotti - University of Padua – Italy Analogues of the peptaibol trichogin as biopesticides
15.15 – 15.35	06 Dilip Shah - Donald Danforth Plant Science Center - USA Antifungal plant defensins MtDef4 and MtDef5: Mechanisms of action and engineering transgenic peanut resistant to <i>Aspergillus flavus</i> and aflatoxin accumulation
15.35 – 15.55	07 Clara Pérez-Peinado - Pompeu Fabra University - Spain Mechanisms of bacterial membrane permeabilization of snake venom-derived peptides crotalicidin (Ctn) and Ctn[15-34]
15.55 - 16.15	Coffee break
Session III	Peptides in Diagnostic and Therapeutic Applications Chairmen: L. Moroder – E. Pedone
16.15 – 16.55	PL3 Michael Chorev – Brigham & Women's Hospital, Harvard Medical School – USA Glycated CD59, a novel biomarker – from post-translational to translational"
16.55 – 17.15	08 Francesca Biscaglia - University of Padua - Italy Liver cancer cell targeting and SERRS imaging with peptide-functionalized Gold nanostructures

17.15 – 17.35	09 Lubomir Vezenkov - ENSCM/IBMM Montpellier - France Folded oligomers for cellular uptake and drug delivery
17.35 – 17.55	010 Francesco Saverio Di Leva – University of Naples - Italy Metadynamics-Driven discovery of cyclic pentapeptides as $\alpha v\beta 6$ integrin-selective ligands
17.55 – 18.15	011 Kathrin Bellmann-Sickert - Leipzig University – Germany Modulation of Y1-receptor responses by chemically modified truncated NPY analogues
18.15 – 18.35	012 Gil Rosenman – Tel Aviv University - Israel Peptide Nanophotonics: from visible bionanodots to optical biochips
18.35 – 18.55	013 Carmen Lammi - University of Milan – Italy Lupin LILPKHSDAD (P5) peptide is a novel bi-functional inhibitor of PCSK9, a new target for the hypercholesterolemia treatment
18.55 – 19.15	014 Tom Grossman - VU University Amsterdam - The Netherlands A chimeric cell-penetrating stapled peptide inhibits oncogenic Wnt signaling
19.30	Welcome Party

Friday, June 8th

Session IV	Antimicrobial Peptides Chairmen: L. Stella – M. De Zotti
08.30 – 09.10	PL4 Anne S. Ulrich - Karlsruhe Institute of Technology – Germany Membrane-active peptides and their photoswitchable analogues as antibiotics, anti-cancer agents, and cell penetrating carriers
09.10 – 09.30	015 Patricio Carvajal-Rondanelli - Universidad Católica de Valparaíso - Chile Understanding the antimicrobial properties/activity of an 11-residue Lys homopeptide by Alanine and Proline scan
09.30 – 09.50	016 Cristina Peggion – University of Padua - Italy Strategies of peptide-cotton bond formation for preparing biocompatible and antimicrobial fabrics
09.50 – 10.10	017 Markus Weingarh - Utrecht University - The Netherlands Towards the native structure of the nisin: Lipid II pore
10.10 – 10.30	Coffee break
Session V	Peptides in Diagnostic and Therapeutic Applications Chairmen: P. Grieco – M. Saviano
10.30 – 11.10	PL5 Victor Hruby – University of Arizona - USA Design of novel receptor selective peptide ligands for the melanocortin system: application to diagnosis and treatment of degenerative diseases
11.10 – 11.50	PL6 Dale F. Mierke – Dartmouth College – NH – USA New adventures in NMR usage for peptide therapeutics
11.50 – 12.10	018 Marco van de Weert - University of Copenhagen – Denmark From drug substance to drug product: the challenges of peptide instability

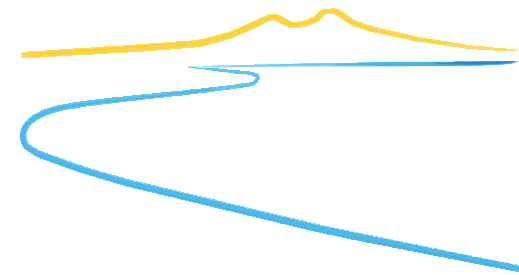
12.10 – 12.30	019 Gianfranco Bocchini – University of Rome Tor Vergata - Italy Protein tyrosine phosphatase SHP2 as a target for PTPN11-associated malignancies and other cancers
12.30 – 12.50	020 Sara Pellegrino – University of Milan – Italy Peptide Aptamers as an environmental friendly approach in the treatment of grapevine <i>Plasmopora Vinicola</i> downy mildew
12.50 - 14.15	Lunch on site
	Peptide Showcase Chairmen: G. Morelli – L. Zaccaro
14.15 – 14.30	PS1 Carolin Lechner – BACHEM - Switzerland Acetylation in Fmoc-SPPS
14.30 – 14.45	PS2 Giorgio Marini – CEM - Italy Solid Phase Peptide Synthesis (SPPS) at Elevated Temperatures: Advances, Process Development, and Considerations
14.45 – 15.00	PS3 Alessandro Pini – SETLANCE - Italy The antimicrobial peptide SET-M33. A case of peptide-based drug development

Session VI	Peptide Mimetics Chairmen: C. Toniolo – M. Ruvo
15.00 – 15.40	PL7 Gilles Guichard - CNRS – University of Bordeaux – France α -Helix mimicry by interfacing oligoureia foldamers with α -Peptides
15.40 – 16.00	021 Galia Maayan – Technion - Israel Institute of Technology - Israel Selective recognition and self-assembly by Cu(II) binding peptoids
16.00 – 16.20	022 Daniela Comegna – CNR Naples - Italy S-Glycosylated α -Peptoids: a versatile synthetic method towards potentially bioactive compounds
16.20 – 16.40	Coffee break
16.40 – 17.00	023 Sharon Gilead - Tel Aviv University - Israel Amyloid formation by short peptides: from mechanistic insights to function
17.00 – 17.20	024 Jayanta Haldar – Jawaharlal Nehru Centre for Advanced Scientific Research - India Synthetic Mimics of Antimicrobial Peptides to Tackle Antimicrobial Resistance
17.20 – 17.40	025 Paul Alewood - University of Queensland, St Lucia - Australia Oxytocin Mimetics
17.40 – 18.00	026 Daniele Di Marino – University of Svizzera - Switzerland Targeting mRNA translation process to develop anticancer agents: a successful drug design study
18.00 – 19.00	Poster session
	Free evening

Saturday, June 9th

Session VII	Peptides in Chemical Biology Chairmen: P. Grieco – C. Isernia
08.50 – 09.30	PL8 Jeffrey W. Bode – ETH Zurich – CH Chemical Protein Synthesis with the KAHA Ligation
09.30 – 09.50	027 Claudia Bello - University of Florence – Italy Toward homogeneous glycoproteins via auxiliary-assisted sequential glycosylation and ligation of peptides
09.50 – 10.10	028 Tim Sewczyk - Leibniz University Hannover – Germany Immobilized proteases for industrial bioactive peptide production
10.10 – 10.30	Coffee Break
Session VIII	Bioconjugation, Folding and Aggregation Chairmen: P. Alewood – D. Marasco
10.30 – 11.10	PL9 Aphrodite Kapurniotu - Technische Universität München – Germany Exploiting cross-amyloid peptide interactions to control amyloid self-assembly in Alzheimer's disease and type 2 diabetes
11.10 – 11.30	029 Maria Cristina Cringoli – University of Trieste – Italy Luminescent hydrogels from a tripeptide and carbon nanodots
11.30 – 11.50	030 Minying Cai – University of Arizona - USA Development of the MC1R Selective Ligands for the Melanoma Prevention
11.50 – 12.10	031 Evelina Parisi - University of Trieste – Italy Effects of chirality on tripeptide self-assembly
Session IX	Peptides in Immunology Chairmen: P. Rovero – A. Accardo
12.10 – 12.30	032 Sira Defaus – Pompeu Fabra University - Spain Expanding the potential and multivalency of the B2T synthetic peptide vaccine against foot-and-mouth disease virus
12.30 – 12.50	033 Kata Horvati - Eotvos L. University - Hungary Nanoparticulated multi-epitope conjugates as vaccine candidates against tuberculosis
12.50 – 13.10	034 Luigi Buonaguro – Istituto Nazionale Tumori Naples - Italy Unique true predicted neoantigens (TPNAs) correlates with anti-tumor immune control in HCC patients
13.10 – 14.10	Free lunch
Session X	Peptides in Chemical Biology Chairmen: D. Mierke – L. Moroder
14.10 – 14.50	PL10 David Chatenet - Centre INRS – Institut Armand - Frappier – Laval – Quebec – Canada Recent advances in the molecular and cellular pharmacology of the urotensinergic system: new direction in the conception of UT ligands

14.50 - 15.10	035 Salvatore Di Maro – University of Campania - Italy Quick and Sound Solid-Phase Peptide Synthesis
15.10 – 15.30	036 Mattia Migliore – University of Rouen Normandie - France New insights in the structural characterization of turns in peptides: determination of NMR discriminatory parameters
15.30 – 15.50	037 Evelien Wynendaele - University of Ghent – Belgium Is there a role for quorum sensing peptides in cancer?
15.50 – 16.10	038 Adriano Mollica – University of Chieti - Italy CLIPS (Chemical Linkage of Peptides onto Scaffolds) technology applied to opioid peptides research
16.10 – 16.30	039 Federica Tonolo - University of Padua – Italy Protective effects of antioxidant milk-derived bioactive peptides on Caco-2 cell
16.30 - 17.00	Concluding Remarks
17.00 – 23.00	Social events and Gala dinner



16th Naples Workshop on Bioactive Peptides

The exciting role of peptides in life-science



Co-Chairmen

Giancarlo Morelli
Michele Saviano
Menotti Ruvo
Paolo Grieco

PROGRAM

ORGANIZING SECRETARIAT

YES MEET

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Aula Magna Partenope - Centro Congressi “Federico II”

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