27th EUROPEAN PEPTIDE SYMPOSIUM

Sorrento (Italy)- August 31st – September 6th

With the high patronage of:

PRESIDENZA DEL CONSIGLIO DEI MINISTRI
MINISTERO DELL'ISTRUZIONE, DELL'UNIVERSITÀ E DELLA RICERCA
REGIONE CAMPANIA - ASSESSORATO ALL'UNIVERSITÀ E ALLA RICERCA SCIENTIFICA
UNIVERSITÀ DI NAPOLI "FEDERICO II"
PROVINCIA DI NAPOLI
C.N.R. - CONSIGLIO NAZIONALE DELLE RICERCHE

PROGRAMME

All lectures will be held in the "Sala Sirene" auditorium

SATURDAY, AUG. 31ST

8:00 a.m. -8:00 p.m. **Registration, Convention Center Hall**

Opening Session

CHAIRS: E. BENEDETTI, R. ROCCHI

6:00 p.m.-6:30 p.m. ***Opening Ceremony***

6:30 p.m.-7:10 p.m. ***"Leonidas Zervas Award"*** Lecture :

« Turning virulence on and off in staphylococci »
Tom W. Muir, Lyon J. Gholson, Patricia Mayville, Alessandra Romanelli, Jesse Wright, Richard P. Novick

7:10 p.m.-7:50 p.m. ***"Joseph Rudinger Memorial Award"*** Lectures :

« Peptide related drug research at the IDR »
Sandor Bajusz

« Twenty years among opioid peptides »
Kalman Medzihradszky

8:00 p.m.-10:00 p.m. ***Welcome Reception. Sorrento Hilton Hotel - Garden***

SUNDAY, SEPT. 1ST - MORNING SESSION

Chemistry of amino acids, peptides and pseudopeptides

CHAIRS: C. TONIOLO, I. SMITH

08:00-08:25 : L1 «Unsaturated non-proteinogenic a-amino acids as versatile synthetic building blocks»
Broxterman Quirinus Bernardus, Blaauw Richard Hendrik, Kaptein Bernard, IJsselstijn Maarten, Schoemaker Hans Egbert, Rutjes Floris Petrus Johannes Theodorus
08:25-08:50 : L2 «Exploring different approaches for the stereoselective synthesis of amino acid-derived 4-alkyl-4-carboxy-2-azetidinones»
González-Muñiz Rosario, Gerona-Navarro Guillermo, Bonache María Angeles, García-Aparicio Carlos, Martín-Martínez Mercedes, García-López María Teresa, Royo Miriam, Albericio Fernando
08:50-09:15 : L3 «Asymmetric synthesis of fully protected (2S, 3R)-N-(1',1'-dimethylally)-3- hydroxytryptophan, a new amino acid found in anti-inflammatory cyclic peptide cyclomarin C»
Yao Zhu-Jun, Wen Shi-Jun
09:15-09:40 : L4 «Synthesis of non-proteinogenic amino acids from N-(4-toluenesulfonyl)-dehydroalanine derivatives»
Ferreira Paula M.T., Monteiro Luís S., Maia Hernâni L.S.
09:40-10:05 : L5 «Preparation and application of new amino acids available for oxime ligation»
Hoeg-Jensen Thomas, Spetzler Jane

10:05-10:35 ***Coffee Break, Exhibits : Convention Center Hall and Garden***

New synthetic approaches

CHAIRS: D. TOURWÉ, J.M. STEWART

10:35-11:00 : L6 «First total synthesis of the nematicidal cyclododecapeptide Omphalotin A containing nine N-methyl amino acids»
Jung Günther, Thern Bernd, Rudolph J.
11:00-11:25 : L7 «Solid-phase synthesis of dehydropeptides»
Nakamura Kazuhiko, Ohnishi Yuki, Horikawa Eiji, Kodaka Masato, Okuno Hiroaki
11:25-11:50 : L8 «Peptide aldehyde reactivity in aqueous solution: influence of the hydrated form studied by electrospray mass spectrometry»
Delmas Agnes, Buré Corinne, Le Falher G., Lelièvre Dominique
11:50-12:15 : L9 «Effects of substrate mimetics on the flexibility of enzymatic peptide synthesis»
Bordusa Frank
12:15-12:40 : L10 «Rigid oligopeptides mimicking the polyproline II helix»
Geyer Armin, Tremmel Peter

12:40-02:45 ***Lunch break, Exhibits***

SUNDAY, SEPT. 1ST - AFTERNOON SESSION

Peptides and nucleic acids

CHAIRS: C. PEDONE, A. PAIVA

02:45-03:20 : L11 «Chromatin boundaries and the developmental regulation of gene expression»
Felsenfeld Gary, Burgess-Beusse Bonnie, Farrell Catherine, Gaszner Miklos, Litt Michael, Mutskov Vesco, Recillas-Targa Felix, Simpson Melanie, West Adam
03:20-03:45 : L12 «PNA-DNA chimeras as decoy molecules against the transcription factor Sp1»
Romanelli Alessandra, Saviano Michele, Pedone Carlo, Borgatti Monica, Bianchi Nicoletta, Mischiati Carlo, Gambari Roberto
03:45-04:10 : L13 «Ability of bis-intercalators peptide libraries functionalized with 9-amino acridine to block an aggregation of HuPrP106-126 (difficult sequence) in the presence of gc-rich DNA»
Šebestík Jaroslav, Hlavácek Jan, Stibor Ivan

04:10-04:50 ***Coffee Break, Exhibits : Convention Center Hall and Garden***

Interactions of peptides with biomolecules

CHAIRS: H. KESSLER, R. EPTON

04:50-05:25 : L14 «*Cis* peptide bonds in proteins and *cis/trans* isomerases in intracellular parasites»
Hilgenfeld Rolf, Weiss Manfred S., Brandl Maria, Pal Debnath, Riboldi-Tunnicliffe Alan, Fischer Gunter, König Bettina, Vogel André
05:25-05:50 : L15 «Structure and dynamics of membrane-bound hormones as studied by NMR»
Zerbe Oliver, Lerch M., Bader R., Gafner V., Christ B.
05:50-06:15 : L16 «Binding interactions of derived HPK1 Pro-rich peptides to HS1-SH3 domain suggest a possible adapter function of HS1 protein»
Siligardi Giuliano, Hussain Rohanah, Donella-Deana Arianna, Brunati Annamaria, Pinna Lorenzo A., Ruzza Paolo, Calderan Andrea, Borin Gianfranco
06:15-06:40 : L17 «Interaction of ß-amyloids with cell membrane proteins and signalization»
Penke Botond, Datki Zsolt, Klement Eva, Soos Katalin, Varga Janos R., Laskay Gabor, Zarandi Marta

06:40-08:00 ***Poster Session, Exhibits, Social Hours: Convention Center Hall and Garden***

MONDAY, SEPT. 2ND - MORNING SESSION

Peptides and surfaces

CHAIRS: H. GRAS-MASSE, P. T. KORTENAAR

08:00-08:35 : L18 «New linkers for directionally organized assemblies of helical peptides on surfaces»
Fox Marye-Anne
08:35-09:00 : L19 «Protein-detection systems using structure-based peptide libraries and peptide microarrays»
Mihara Hisakazu, Takahashi Mizuki, Usui Kenji, Ojima Tetsunori, Ueno Akihiko, Nokihara Kiyoshi
09:00-09:25 : L20 «Large-scale protein-protein-interaction mapping with synthetic peptide arrays: epitope-targeted proteome analysis»
Frank Ronald, Bialek Krzysztof, Swistowski Andrzej
09:25-09:50 : L21 «Alpha-oxo semicarbazone polypeptide microarrays for the sensitive and specific serodetection of antibodies»
Melnyk Oleg, Duburcq Xavier, Olivier Christophe, Urbès Florence, Auriault Claude, Gras-Masse Hélène
09:50-10:15 : L22 «Peptide micro-arrays for kinase substrate profiling»
Schneider-Mergener Jens, Panse Soren, Dong Liying, Scharn Dirk, Osterkamp Frank, Reimer Ulf, Schutkowski Mike

10:15-10:45 ***Coffee Break, Exhibits: Convention Center Hall and Garden***

Peptides based biomaterials

CHAIRS: E. GIRALT, A. BECK-SICKINGER

10:45-11:10 : L23 «Assembly of membrane-targeted heterotrimers»
Betley Jason Richard, Esser Dirk, Fiedler Lorna Ruth, Sparks Catherine Anne, Rowling Pamela J, Smith Richard Anthony
11:10-11:35 : L24 « Design and synthesis of dendrimers based on poly(Pro) sequences. Exploration of their use as drug-delivery agents»
Royo Miriam, Sanclimens Glòria, Crespo Laia, Pons Miquel, Albericio Fernando, Giralt Ernest
11:35-12:00 : L25 «*De novo* design and synthesis of quinoproteins for light-induced electron transfer»
Li Wenwu, Sommerhalter Monika, Lubitz Wolfgang, Carell Thomas, Haehnel Wolfgang
12:00-12:25 : L26 «A 16.6 kDa disulfide-linked dimeric 4-helix bundle carboprotein: synthesis, CD spectroscopy, adsorption to Au(III) electrodes, and in situ STM and XPS studies»
Jensen Knud J., Brask Jesper, Wackerbarth H., Zhang J., Andersen J. E. T., Ulstrup J.

12:25-02:30 ***Lunch break, Exhibits***

MONDAY, SEPT. 2ND - AFTERNOON SESSION

Structural studies

CHAIRS: E. PEGGION, M. MARRAUD

02:30-03:05 : L27 «Common structural principles in protein-protein and protein-DNA recognition»
Janin Joël
03:05-03:30 : L28 «The EGF receptor and Erb B2 crystal structures: a basis for novel drug design for the treatment of cancer»
Nice Edouard Colins, Garret Tom, Jorissen Robert, Ward Colin, Burgess Antony
03:30-03:55 : L29 «Properties of ordered and disordered H-bonds in complex crystalline networks of biological interest from low temperature Infrared Spectroscopy»
Rozenberg Mark
03:55-04:20 : L30 «New chemical tools for mechanism-based discovery and profiling of protein families in functional proteomics»
Sewald Norbert, Hagenstein Miriam, Jenssen Kai, Mussgnug Jan, Kruse Olaf

04:20-04:50 ***Coffee Break, Exhibits: Convention Center Hall and Garden***

04:50-05:15 : L31 «Extraterrestrial C-a-tetrasubstituted a-amino acids as inducers of homochirality on earth»
Crisma Marco, Moretto Alessandro, Formaggio Fernando, Kaptein Bernard, Broxterman Quirinus B., Toniolo Claudio
05:15-05:40 : L32 « Three-dimensional structure of thermolysin-linearized microcin J25: evidence for an essential role of the 11-16 loop in microcin J25 structure and antimicrobial activity»
Rebuffat Sylvie, Blond Alain, Cheminant Michel, Ségalas-Milazzo Isabelle, Destoumieux-Garzón Delphine, Goulard Christophe, Peduzzi Jean
05:40-06:05 : L33 «Conformational investigations of tri and tetrapeptides containing dehydroalanine and dehydrophenylalanine and their influence on cathepsin C activity»
Latajka Rafal, Lisowski Marek, Makowski Maciej, Panek Jaroslaw, Pawelczak Malgorzata, Picur Boleslaw, Lis Tadeusz, Kafarski Pawel
06:05-06:30 : L34 «The crystal structure of a peptaibol antibiotic trichotoxin A50E»
Chugh Jasveen K, Brueckner Hans, Wallace Bonnie Ann

06:30-08:00 Poster Session, Exhibits, Social Hours: Convention Center Hall and Garden

TUESDAY, SEPT. 3RD - MORNING SESSION

Celebration of 100th Anniversary of EMIL H.FISCHER's first synthesis of a peptide (Part 1)

CHAIRS: M. GOODMAN, J MARTINETZ

08:00-08:30 : L35 « Solid Phase synthesis: peptides, nucleic acids, combichem (a historical perspective)»
Marshall Garlad R.
08:30-09:00 : L36 «Fmoc-based solid phase synthesis. An assessment»
Sheppard Robert
09:00-09:30 : L37 « What to synthesize? From Emil Fischer to peptidomics»
Ivanov Vadim T.
09:30-10:00 : L38 «Molecular machines for protein degradation»
Huber Robert

10:00-10:30 ***Coffee Break, Exhibits: Convention Center Hall and Garden***

Celebration of 100th Anniversary of EMIL H.FISCHER's first synthesis of a peptide (Part 2)

CHAIRS: L. MORODER, J. RIVIER

10:30-11:00 : L39 «Synthetic glycopeptides for the development of tumor-selective antigens»
Kunz Horst
11:00-11:30 : L40 «Chemical protein synthesis - new methods, new applications for the new century»
Kent Stephen
11:30-12:00 : L41 «The bold legacy of Emil Fischer»
Goodman Murray

12:00-02:30 ***Lunch break, Exhibits***

FREE AFTERNOON

WEDNESDAY, SEPT. 4TH - MORNING SESSION

Bioactive peptides: antibiotics and hormones

CHAIRS: D. ANDREU, J. JONES

08:00-08:25 : L42 «Total synthesis and biological activity of human insulin3 and its monobiotinylated analogue»
Wade John, Fu Ping, Bathgate Ross, Claasz Antonia, Otvos, Jr. Laszlo, Nice Edouard, Tregear Geoffrey
08:25-08:50 : L43 «Novel ß-defensins: cysteine-rich peptides of the innate and adaptive immune system»
Adermann Knut, Conejo-Garcia Jose Ramon, Forssmann Ulf, Klüver Enno, Sticht Heinrich, Forssmann Wolf Georg
08:50-09:15 : L44 «Peptide antagonist and bioactive conformation of Melanin-Concentrating Hormone (MCH), an important regulatory hormone in feeding behavior.»
Danho Waleed, Swistok Joseph, Khan Waijha, Salari Hamid, Greeley David, Fry David, Sun Hongmao, Falcioni Fiorenza
09:15-09:40 : L45 «Growth hormone secretagogues, synthesis and biological evaluation»
Fehrentz Jean-Alain, Guerlavais Vincent, Boeglin Damien, Martinez Jean, Deghenghi Romano, Locatelli Vittorio, Ghe Corrado, Ghe Corrado
09:40-10:05 : L46 «Synthesis and biological activity of a new and highly potent ligand for somatostatin receptors 2, 3 and 5»
Ginj Mihaela, Wild D., Schmitt J. S., Reubi J. C., Waser B., de Jong M., Bernard H. F., Krenning E. P., Mäcke H. R.

10:05-10:35 ***Coffee Break, Exhibits: Convention Center Hall and Garden***

Peptides and drug design

CHAIRS: M. FRIDKIN, M. FLEGEL

10:35-11:00 : L47 «Discovery and structure-function studies on the cyclotides:applications in drug design»
Craik David, Daly Norelle, Clark Richard, Jennings Cameron, Anderson Marilyn
11:00-11:25 : L48 «Discovery of peptido and proteinomimetic drug leads using cyclic peptide spatial libraries»
Gilon Chaim
11:25-11:50 : L49 «Determining the pharmacophore structure of substrates of the Mammalian Peptide Transporter (PEPT1) by molecular modeling and 3D-QSAR investigations»
Thondorf Iris, Gebauer Sabine, Biegel Annegret, Hartrodt Bianca, Knütter Ilka, Brandsch Matthias, Neubert Klaus
11:50-12:15 : L50 «Identification of GLGPRPLRF-NH2 (AF9) as a peptide activating C39E6.6, the *C. elegans* GPCR implicated in social behavior in worms»
Kubiak Teresa M., Larsen Martha J., Nulf Susan C., Zantello Marjorie R., Burton Katherine J., Modric Tomislav, Lowery David E.
12:15-12:40 : L51 «Synthesis and screening of a positional scanning library based on the Bowman-Birk reactive site»
Watson Emma Marguerite, Leatherbarrow Robin John, McBride Jeff Daniel

12:40-02:30 ***Lunch break, Exhibits***

WEDNESDAY, SEPT. 4TH - AFTERNOON SESSION

Peptide libraries/ Peptide delivery

CHAIRS: F. ALBERICIO, C. DEBER

02:30-02:55 : L52 «Combinatorial approaches: a new tool to search for highly structured ß-hairpin and monomeric-a-helical peptides»
Pérez-Payá Enrique, López de la Paz Manuela, Lacroix Emmanuel, Serrano Luis, Pastor María Teresa
02:55-03:20 : L53 «Peptides, proteins and PNAs delivery into mammalian cells mediated by the Chariot peptide»
Chaloin Laurent, Dépollier Julien, Morris May Catherine, Heitz Frédéric, Divita Gilles
03:20-03:45 : L54 «Conceptual expansion of protein internalization mediated by arginine-rich peptides»
Futaki Shiroh, Suzuki Tomoki, Nakase Ikuhiko, Niwa Miki, Sugiura Yukio

03:45-04:10 ***Coffee Break, Exhibits: Convention Center Hall and Garden***

Peptide Pharmacology

CHAIRS: P. CORDOPATIS, J. SLANINOVA

04:15-04:40 : L55 «A glycopeptide detecting autoantibodies in multiple sclerosis: from a diagnostic kit toward a selective therapeutic strategy»
Papini Anna Maria, Mulinacci Barbara, Peroni Elisa, Sabatino Giuseppina, Matà Sabrina, Chelli Mario, Carotenuto Alfonso, Rovero Paolo, Pinto Francesco, Lolli Francesco
04:40-05:05 : L56 «Substance P conversion to bioactive fragments - an important pathway for the neuromodulatory effect of the undecapeptide»
Nyberg Fred
05:05-05:30 : L57 «ITF1697, an agent with novel specific anti-ischemic properties»
Mascagni Paolo, Leoni Flavio, Fossati Gianluca, Modena Daniela, Monzani Valmen, Pinori Massimo, Bertuglia Silvia

05:30-07:15 ***Poster Session, Exhibits, Social Hours: Convention Center Hall and Garden***

THURSDAY, SEPT. 5TH - MORNING SESSION

Enzyme inhibitors

CHAIRS: M. MELDAL, K. ROLKA

08:00-08:25 : L58 «Helicomimetic cyclic peptides that inhibit steroid receptor coactivator interactions represent a novel approach for transcriptional regulation»
Spatola Arno F., Galande Amit, Leduc Anne-Marie, Trent John O., Bramlett Kelli S., Chirgadze Nickolay, Burris Thomas P.
08:25-08:50 : L59 «Selective inhibition of the chymotrypsin-like activity of the 20S proteasome by 2-aminobenzylstatine derivatives»
Garcia-Echeverria Carlos, Imbach Patricia, Roesel Johannes, Fuerst Peter, Lang Marc, Guagnano Vito, Noorani Maria, Zimmermann Johann, Furet Pascal
08:50-09:15 : L60 «Design, synthesis and activity of chloromethyl ketone inhibitors of Gingipains»
Mucha Artur, Grembecka Jolanta, Bialas Arkadiusz, Oleksy Arkadiusz, Otlewski Jacek, Potempa Jan
09:15-09:40 : L61 «Inhibitors of aminopeptidase P incorporating ß-amino acids»
Aguilar Mibel, Devi Romila, Branson Kim, Stewart Karen, Lew Rebecca, Harte Michael, Perlmutter Patrick, Smith Ian
09:40-10:05 : L62 «Miraziridine A: a three-in-one protease inhibitor»
Schaschke Norbert

10:05-10:35 ***Coffee Break, Exhibits: Convention Center Hall and Garden***

Enzyme inhibitors

CHAIRS: Y. KISO, S. BAJUSZ

10:35-11:00 : L63 «Novel synthetic approaches to potent HIV-1 protease inhibitors and their prodrugs»
Kazmierski Wieslaw, Spaltenstein Andrew
11:00-11:25 : L64 «Structural determinants of antiviral and signaling functions in the CC chemokine RANTES: generation of HIV-1 inhibitory peptides with anti-inflammatory properties»
Lusso Paolo, Longhi R., Sironi F., Sarmientos Paolo, Rizzi M., Bolognesi M., Pavone V., Nardese V.
11:25-11:50 : L65 «Rational engineering of a CD4 mimic, powerful inhibitor of HIV-1 infection and potential component of an AIDS vaccine»
Vita Claudio, Martin Loic, Stricher Francois, Freulon Isabelle, Menez Andre, Barthe Philippe, Roumestand Christian, Veas Francisco, Lusso Paolo
11:50-12:15 : L66 «Development of focused tyrosine kinase inhibitory library and testing against MDR»
Kéri György, Orfi László, Bökönyi Györgyi, Hegedüs Tamás, Ullrich Axel, Sarkadi Balázs

12:15-02:30 ***Lunch break, Exhibits***

THURSDAY, SEPT. 5TH - AFTERNOON SESSION

Peptides in immunology

CHAIRS: F. HUDECZ, K.H. WIESMÜLLER

02:30-02:55 : L67 «Conformationally constrained epitope mimics of the HIV gp41 envelope protein»
Bianchi Elisabetta, Ingallinella Paolo, Eckert Debra M, Cole James, Bazzo Renzo, Barbato Gaetano, Pessi Antonello
02:55-03:20 : L68 «Lead structure for active immunisation against Alzheimer's Disease (AD) upon elucidation of a plaque-specific epitope recognised by therapeutically active antisera from transgenic AD mice»
Przybylski Michael, McLaurin JoAnne, Cecal Roxana Elena, Kierstead Meredith E., Tian Xiaodan, Janus Christopher, Horne Patrick, Westaway David, Fraser Paul E., St George-Hyslop Peter
03:20-03:45 : L69 «Specific blocking of anti-idiotypic antibodies for unmasking the anti-La/SSB response in Sjogren's syndrome patients»
Sakarellos-Daitsiotis Maria, Routsias John G., Touloupi Evgenia, Dotsika Eleni, Papamattheou Maria, Tsikaris Vassilios, Sakarellos Constantinos, Moutsopoulos Haralampos M., Tzioufas Athanasios G.
03:45-04:10 : L70 «Matrix-scan as effective tool to map discontinuous epitopes»
Schaaper Wim M.M., Slootstra Jerry W., Puijk Wouter C., van Dijk Evert, Meloen Rob H.
04:10-04:35 : L71 « Lipid-core-peptides for vaccination; structure-activity relationship.»
I. Toth, A. Horváth, R. P. McGeary, C. Olive, M. F. Good

04:35-06:30 ***Poster Session, Exhibits, Social Hours: Convention Center Hall and Garden***

08:30 ***Gala Dinner***

FRIDAY, SEPT. 6TH - MORNING SESSION

Peptide and protein folding

CHAIRS: G. NIKIFOROVICH, L.BALTZER

08:00-08:35 : L72 «Mobility, flexibility and inhibition of peptide bond formation»
Yonath Ada
08:35-09:00 : L73 «Oxidative folding process of amaranthus a-amylase inhibitor»
Cemazar Masa, Zahariev Sotir, Jones Jonathan Alcwyn, Carugo Oliviero, Hore Peter John, Pongor Sandor
09:00-09:25 : L74 «Chemical shifts, the ultimate test of polypeptide folding cooperativity»
Andersen Niels H., Barua Bipasha, Euser Anna, Fesinmeyer Matthew R,, Hudson Michael F., Kantola Angeline R., Lin Jasper, White George
09:25-09:50 : L75 «Lipid-bound structure and phospholipid selectivity of mesentericin Y105 a bacteriocin from leuconostoc mesenteroïdes and its Trp substituted synthetic analogues»
Dufourcq Jean, Castano Sabine, Desbat Bernard, Delfour Antoine, Dumas J. M., da Silva Alexandra
09:50-10:15 : L76 «Artificial remodeling of gp41-C34 peptide leads to effective HIV fusion inhibitor with high anti-HIV-1 activity»
Otaka Akira, Nakamura Miki, Kodama Eiichi, Uchiyama Susumu, Tamamura Hirokazu, Kobayashi Yuji, Matsuoka Masao, Fujii Nobutaka

10:15-10:45 ***Coffee Break, Exhibits: Convention Center Hall and Garden***

10:45-11:10 : L77 «Mechanism of membrane permeabilization by the lipopeptaibol trichogin GA IV and its fluorescent analogues»
Stella Lorenzo, Mazzuca Claudia, Palleschi Antonio, Venanzi Mariano, Formaggio Fernando, Toniolo Claudio, Moroder Luis, Pispisa Basilio
11:10-11:35 : L78 «The second extracellular loop E2 of the human NK-1 receptor is photolabelled by photoreactive analogs of Substance P. Photoaffinity labeling and modelisation studies»
Lavielle Solange, Lequin Olivier, Sachon Emmanuelle, Franck Fabrice, Convert Odile, Girault-Lagrange Sophie, Chassaing Gérard, Sagan Sandrine

11:35-12:00 ***Closing of the Symposium***

LEONIDAS ZERVAS AWARD:

Tom W. Muir

"Turning virulence on and off in *Staphylococci*"

T. W. Muir[(1)], G. J. Lyon[(1)], P. Mayville[(1)], A. Romanelli[(1)], J. Wright[(2)], R. P. Novick[(2)]

1 - Laboratory of Synthetic Protein Chemistry, The Rockefeller University, 1230 York Avenue, New York, NY 10021 - U.S.A
2 - Molecular Pathogenesis Program, Skirball Institute of Biomolecular Medicine, New York University Medical Center, New York, NY 10016 - U.S.A.

The emergence of methicillin-resistant and, more recently, vancomycin-resistant strains of *Staphylococcus aureus* represents an enormous threat to public health. Consequently, there is a pressing need to identify new types of antibacterial agents and it has been suggested that interference with the expression of virulence may represent a promising antibacterial modality. Staphylococcal virulence is regulated by a two-component quorum sensing system, *agr*, activated by a self-coded autoinducing peptide (AIP). The *agr* system is widely divergent and is unique in that variant AIPs cross-inhibit *agr* activation in heterologous combinations. Cross-inhibition, but not self-activation, is widely tolerant of structural diversity in the AIPs so that these two processes must involve different mechanisms of interaction with the respective receptors. We have used a combination of molecular genetics, protein chemistry and chemical synthesis to establish that these AIPs from *S. aureus* contain a thiolactone structure, and that this feature is absolutely necessary for full biological activity. Moreover, structure-activity studies have allowed key aspects within the AIP and its histidine-kinase receptor, AgrC, involved in the differential activation and inhibition functions to be identified. This has led to the rational design of global inhibitors of virulence within the Staphylococci as well as the development of a model for receptor agonism and antagonism.

JOSEPH RUDINGER MEMORIAL LECTURES:

Sandor Bajusz and Kalman Medzihradszky

"Peptide related drug research at the IDR"

S. Bajusz

IVAX Drug Research Institute Ltd., Budapest - Hungary

Research on synthetic peptides of pharmaceutical interest has been pursued in the Institute for Drug Research (IDR) since the mid 50's, when the synthesis of oxytocin was performed. Thereafter IDR's main projects on synthetic peptides and the most significant results achieved were the followings. ACTH: first synthesis of human ACTH. *Hypothalamic hormones*: an LHRH analog (GYKI-14 201), which provided model for Cetrorelix (SB-75), the antagonistic analog, now in clinical use. *Opioid peptides*: the first enkephalin analog (GYKI-14 238) that produces analgesia upon systemic administration. *Antithrombotic peptides*: the prototype of arginal inhibitors of thrombin (GYKI-14 166), a stable anticoagulant (Efegatran, GYKI-14 766), anticoagulants targeting both thrombin and factor Xa (GYKI-66 323), and the first non-covalent inhibitor of thrombin (GYKI-14 525). Of these, I will outline the development of Cetrorelix and the dual acting anticoagulants that can inhibit both thrombin and factor Xa, and not only in solution but also within plasma clots. Some of the latter compounds substantially increase the survival rate of LPS-treated rats, and may be useful for treatment of disseminated intravascular coagulation (DIC), an often fatal syndrome.

"Twenty Years among Opioid Peptides"

K. Medzihradszky

Research Group of Peptide Chemistry, Hungarian Academy of Sciences, Budapest - Hungary

The discovery of the first opioid peptides in the middle of the seventies proved to be a gold-mine for researchers dealing with structure-activity studies and mechanism of action of biologically active polypeptides. The simple structure, the relatively low molecular weight offered an easy object to systematic alteration of the peptide chain, and the wealth of pharmacological and biochemical assays made possible the determination of essential functional groups and steric requirements necessary to efficient ligand-receptor binding.

A selection of the most significant results of the Hungarian research group in this field will be briefly presented. Enkephalin diazomethyl ketones activated with UV light were shown to irreversibly blocking the opioid receptors, halomethyl ketones and halohydrines with different specificity proved to be good inhibitors of the brain receptors. Melphalan could efficiently substitute the N-terminal tyrosine residue of enkephalins, and maleimide derivatives were useful even for topographic mapping of the receptor binding sites. The dream of determination of the primary structure of the binding region of the opioid receptors by the use of radiolabeled affinity labels might come true.

List of Posters

Topic A

A1 - New synthetic approaches and strategies

A2 - Chemistry of amino acids, peptides and pseudopeptides

A3 - Peptidomimetics

A4 - Synthesis of large peptides

A5 - Semi-synthesis of peptides and proteins

A6 - Glyco-, lipo-, phospho-peptides

A7 - Solid support chemistry

A8 - Ligation chemistry/protein modification

A1 - New synthetic approaches and strategies

P-A1 A Synthetic Strategy Toward Constrained Head-To-Tail Cyclopeptides
Alcaro Maria C., Sabatino Giuseppina, Ginanneschi Mauro, Chelli Mario, Di Fenza Armida, Rovero Paolo, Papini Anna M.

P-A2 Controlling the cysteine framework of N to C cyclic analogues of a-Conotoxin ImI
Armishaw Christopher J., Dutton Julie L., Hogg Ron C., Adams David J., Craik David J., Alewood Paul F.

P-A3 Conformational studies of novel macrocyclic hairpin mimetics of the cationic antimicrobial peptide protegrin I
Athanassiou Zafiria, Robinson John A.

P-A4 Synthesis by metathesis reaction and crystal structure of bicyclic bridged hexapeptide
Aubry André, Didierjean Claude, Giovannoni Jérôme, Durand Philippe, Renaut Patrice, Amblard Muriel, Martinez Jean

P-A5 Novel approach to enzymatic synthesis of peptides containing chromogenic and fluorogenic moieties
Bacheva Anna V., Lysogorskaya Elena N., Baibak Oksana V., Oksenoit Elena S., Lozinsky Vladimir I., Filippova Irina Y.

P-A6 The synthesis of histidine containing cyclic peptides
Bächle Dirk, Sewald Norbert

P-A7 Synthesis of new analogues of plant mitogenic peptide phytosulfokine-a and their biological evaluation
Bahyrycz Agata, Konopinska Danuta

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P-A52 A simple and efficient approach to the synthesis of N-acyl-a,a-dialkylglycines and their esters and amides by Ugi's four-component reaction
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P-A67 Aynthesis of some precursors of bioactive peptides by different proteases in non-aqueous media
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P-A69 Acyl groups as protection for imidazole. stability studies of N-acylimidazoles and application to solution and solid-phase synthesis of histidine-containing peptides
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P-A70 Synthesis of conotoxins with simultaneous formation of disulfide bonds
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P-A71 Peptidomimetics: control of chemical shape and reactivity
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P-A72 New constrained amino acids for the study of the role of the basic residues in bradykinin antagonists
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P-A77 Synthesis of enantiomerically pure cyclopropane analogs of proteinogenic amino acids using chiral HPLC
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P-A83 Serendipitous discovery of a reaction leading to stable peptide dialkyl peroxides
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P-A87 Application of Non-Proteinogenic Amino Acids
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P-A88 Diastereoselective hydroxylation of piperidin-2-ones. an expedient synthesis of (2S,5R)-5-hydroxylysine
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P-A90 Synthesis and Theoretical Studies of Cage amino acids in Non-Natural peptides
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P-A91 Computational Study on Conformation of Oligopeptides Containing Chiral a, a-Disubstituted Amino Acids
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P-A92 "SLAM", alkoxyamine/maleimide water soluble heterobifunctionnal crosslinker, application and derivates
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P-A96 Synthesis of peptides derived from C-a-Hydroxymethylserine (HmS): increased risk of side reactions.
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P-A102 Design, structure and biological effect of chymotrypsin inhibitor models
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P-A103 Synthesis of new Fmoc-protected iminosugars to study the role of the glycosyl moiety in autoantibody recognition in autoimmune diseases
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P-A104 Conformational Study of Peptides Containing (S)-Ethylleucine as a Chiral a,a-Disubstituted Amino Acid
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P-A105 Cyclic Opioid Peptides Containing a-Alkylcysteines
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P-A108 Assembly of Cyclic Peptides and Pseudopeptides Designed for Complexation of Bivalent Transition Metal Ions by Different Strate
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P-A109 Top 25 side-reactions and contaminants observed during the solid phase synthesis of linear and cyclic peptides
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P-A110 New antitumoral cyclic astin analogues containing uncoded amino acid residues: synthesis, structural and biological studies
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P-A111 Enantioselective synthesis of ß²-amino acids by 1,4-radical addition followed by hydrogen atom transfer
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P-A112 Investigation of N-Acyl-?-Dipeptide Amides as Somatostatin Analogs : Synthesis and Receptor-Affinity Measurement
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P-A113 Conformational Study of Heteropeptide Prepared from Chiral a-Ethylated a,a-Disubstituted a-Amino Acids
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P-A114 Strategies for the solid phase synthesis of chiral PNAs with a high optical purity
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P-A116 Pro10-Tyr11 Substitutions Provide Potent or Selective NT(8-13) Analogs
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P-A117 Direct insertion of pseudo-proline (? Pro) systems into cysteine containing peptides
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P-A118 Preparation of 3-alkylproline derivatives with *cis*-selectivity
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P-A119 Combined 2'6'-dimethyltyrosine and ß-methylphenylalanine substitutions in TIPP provide potent d- opioid ligands
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P-A120 A General Synthesis of 2-substituted 4-amino-1,2,4,5-tetrahydro-2-benzazepine-3-ones, Conformationally Constrained Phenylalanine Mimetics
Van Rompaey Karolien, Van den Eynde Isabelle, Tourwé Dirk

P-A121 Synthesis of peptide containing extremely hindered amino acid residues: N-methylaminoisobutyric acid peptides
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P-A122 Backbone Isomerization at Aspartic-, Glutamic acid –Cysteine ligation site during Native Chemical Ligation
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P-A123 Solution and Solid Phase Diversification of Phosphinic Peptide Analogues
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P-A124 Peptide-derived nonpeptidic $a_4ß_7$ integrin antagonists
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P-A125 Crystallographic study of the collagen-like polypeptide $[(Pro\text{-}Hyp\text{-}Gly)_{10}]_3$: implications for collagen assembly
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P-A126 Antitumor screening of peptidomimetic compounds
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P-A127 Prolinoaminoacids as probes for the determination of bioactive conformations of peptides
Chassaing Gérard, Quancard Jean, Karoyan Philippe, Convert Odile, Sagan Sandrine, Lavielle Solange, Lequin Olivier

P-A128 New Synthetic Routes to Dipeptide Mimetics
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P-A129 Cross-antigenic and Cross-immunogenic Properties of Topological Derivatives of Amyloid ß peptide 1-40
Della Selva Miriam, Verdoliva Antonio, Scarallo Angela, Rossi Maria, Colombo Maurizio

P-A130 Monomeric and Dimeric Cyclic Peptides as Potent Mimetics and Inhibitors of BDNF
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P-A131 Synthesis of ? -Turn Mimetics Utilising Fast Microwave-Assisted Palladium-Couplings
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P-A132 Urotensin-II (UT-II) analogues containing modifications at disulfide bridge: Synthesis, Biological and Conformational studies
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P-A133 Morphiceptin Analogues Containing a New ß-Turn Thiazolidine Mimetic
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P-A135 Evaluation of primary amines for peptoid synthesis and identification of by-products using LC-MS.
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P-A136 Oostatic peptides with 3H-labeled proline: synthesis, biological activity, binding and distribution studies in the flesh fly *Neobellieria bullata*
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P-A137 Estimation of hydrophobicity in peptidomimetic libraries
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P-A138 Synthesis and inhibition properties of diastereoisomeric hydroxyethylamine pseudopeptides
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P-A139 An Unsaturated Peptidomimetic Assembly Derived from a Carbohydrate
Jones John H., Chung Y-K., Claridge T.D.W., Fleet G.W.J., Johnson S.W., Stachulski A. V.

P-A140 A novel *cis*-peptide bond motif inducing type VI ß-turn. synthesis and biological evaluation of conformationally restricted enkephalin and morphiceptin analogues
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P-A141 Nociceptin Antagonist Analogues: Structure-Activity Studies
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P-A142 Novel approaches for synthesizing azapeptides
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P-A143 "Il mondo é bello perché é vario", expanding azabicycloalkanone amino acid diversity. Progress on the synthesis of pyrrolizidinone and piperidinoazepinone amino acids.
Lubell William D., Dietrich Evelyne, Ballet Steven

P-A144 Structural analysis of the ß-turn inducing (S)-[3-amino-4-oxo-2,3-dihydro-5H-benzo[b][1,4]thiazepin-5-yl] acetic acid (DBT) motif
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P-A145 Experimental Structural Analysis of Model Urea-Containing Gamma-Peptide Analogues
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P-A146 Organocopper-mediated stereoselective synthesis of multi-substituted alkene dipeptide isosteres and the application to cyclic RGD peptides
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P-A147 Synthesis of several substituted at position 3 analogues of the naturally accurring peptide Tyr-MIF-1 (Tyr-Pro-Leu-Gly-NH_2)
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P-A148 The Role of Glutamic acid and its Malonate Analogs in Cyclic Peptide Antagonists of Grb2-SH2 Domain Protein
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P-A149 Design and Synthesis of New Benzodiazepine Based Turn Mimetics incorporated in Ang II
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P-A150 Synthesis and conformational analysis of distinctin a bioactive peptide from *Phyllomedusa Distincta*
Scaloni Andrea, Andreotti Giuseppina, Sanseverino Marina, Zocchi Ivana, Amodeo Pietro, Motta Andrea

P-A151 Development of small molecules to mimic the action of ?-conotoxins
Schroeder Christina I., Bourne Gregory T., Smythe Mark L., Lewis Richard J.

P-A152 Macrocyclic Hairpin Mimetics of the Cationic Antimicrobial Peptide Protegrin I - A New Family of Broad Spectrum Antibiotics
Shankaramma Sasalu C., Zerbe Oliver, Moehle Kerstin, Mouton Carole, Vrijbloed Jan W., Obrecht Daniel, Robinson John A.

P-A153 Peptidomimetics and Their Incorporation Into Peptide Opioids
Smith Nicole D., Goodman Murray

P-A154 Benzyloxycarbonyl protection of the indole moiety in the synthesis of the bicyclic ß-turn peptidomimetics
Stasiak Marcin, Huber Vincent J., Nagula Gangadhar, Lee Min S.

P-A155 Conformational properties of cyclic peptides containing 2-aminocycloalkane carboxylic acids
Strijowski Ulf, Sewald Norbert

P-A156 Synthesis and Biological Evaluation of Highly Active Nonpeptidic avß3 Integrin Antagonists
Thumshirn G. R., Sulyok G. A., Weber D., Goodman S. L., Wiesner M., Kessler H.

P-A157 Solution and solide-phase synthesis of partially-modified retro-peptides incorporating [$CH_2CH(CF_3)CO$] unit
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A3 - Peptidomimetics

P-A158 Synthesis of bioactive endomorphin analogs containing 1-aminocyclopropane-carboxylic acid
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P-A159 Synthesis and Antipsychotic Activity of Conformationally Constrained Tripeptoid Neurotensin Analogues
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P-A160 The Solid Phase Fragment Condensation Using Nsc-Amino Acids
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P-A161 Synthesis and refolding of G20a, a potential antigen for human Respiratory Syncytial Virus (hRSV) vaccine
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P-A162 Synthesis of MCOTI-I, a cyclic trypsin inhibitor from Momordica cochinchinensis
Le Nguyen Dund, Barry L., Tam J., Heitz A., Chiche L., Hernandez J-F., Pham T.T.C.

P-A163 Synthesis, mass spectrometry analysis and potency of human parathymosin (101 amino acids)
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P-A164 Strategies for the Synthesis and Fluorescent Labeling of Protein A-Derived Affinity Proteins
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P-A165 The synthesis of the third transmemebrane segment of proteolipid protein (PLP) using Fmoc chemistry with pseudoproline amino acid building blocks or Boc chemistry: a comparative study
Trifilieff Elisabeth, Urbach Allan, Urbach Allan

P-A166 Fmoc solid phase synthesis and immunochemical evaluation of thymosin ß-4
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P-A167 Isolation and characterization of antifreeze protein from sunn pest (*Eurygaster integriceps* Put.)
Baghdadi Ahmad, Rabbani Azra

P-A168 New Chromogenic Substrates Derived from Insulin
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P-A169 Fluorescent monitoring of kinase activity in real time: development of a robust fluorescence-based assay for Abl tyrosine kinase activity
Hofmann Roseanne M., Cotton Graham J., Chang Emmanuel J., Vidal Ephraim, Veach Darren, Bornmann William, Muir Tom W.

A5 - Semi-synthesis of peptides and proteins

P-A170 The Mechanism of Protein Splicing: Variations on a Theme
Perler Francine B., Southworth Maurice W.

P-A171 Substrate Mimetics-Based Approaches To The Chemoenzymatic Synthesis Of Proteins
Pöhlmann Angela, Bordusa Frank

P-A172 Enzymatic Synthesis Of N-Linked Peptidoglycans Mediated By Substrate Mimetics
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A6 - Glyco-, lipo-, phospho-peptides

P-A173 A New Peptide Bioconjugate Utilizes Modified C-Sugars to Improve Bioavailability
Brunel Florence M., Taylor K. G., Taylor K. G.

P-A174 Enzymatically Hydrolyzed Chitosan as a Carrier for Presentation of Bioactive Peptides
Brzezinski Ryszard, Côté Nathalie, Neugebauer Witold A.

P-A175 On The Synthesis Of N?-Glycosylated a, ?-Diamino Acid Containing Peptides
Filira Fernando, Biondi Laura, Gobbo Marina, Rocchi Raniero

P-A176 Synthesis of Ig domain of emmprin carrying N-linked core pentasaccharide
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P-A177 Study of degradation pathways in sugar-peptide Maillard model systems
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P-A178 Multiple Antigen Glycopeptides (MAGs) with Tn Tumour Antigens and Incorporated Adjuvant: Synthesis and Immunobiological Activities
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P-A179 Glycopeptide Mimetics As "Puzzles" In Understanding The Biological Phenomena
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P-A180 Synthesis of a Mannosyl Peptide as an Acceptor Substrate for a New N-Acetylglucosaminyltransferase
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P-A181 Kinin B1 receptor antagonists with metabolic stability
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P-A182 Main-Chain Length Effect on Conformation-Activity Relationship of Membrane Active Lipopeptaibol Antibiotics
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P-A183 Synthesis of Glycopeptides from PSGL-1 containing Sialyl Lewis X
Schultz Michael, Kowalczyk Danuta, Kunz Horst

P-A184 The Aglycon Formation of Tricyclic Glycopeptide Antibiotics of the Vancomycin Type from Linear Peptide Precursors
Süssmuth Roderich D., Bischoff Daniel, Bister Bojan, Pelzer Stefan, Wohlleben Wolfgang, Jung Günther

P-A185 Structure activity relationship of synthetic lipopeptides inducing cell activation through Toll-like receptor-2
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A7 - Solid support chemistry

P-A186 Application of Mono- and Dimethoxybenzhydryl Halides and Amines in Solid Phase Synthesis
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P-A187 HRMAS-NMR Monitoring of the Assembly of Resin-Bound Aggregating Sequences: Effect of the Peptide Loading, Amine Group Ionization and the solvent system
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P-A188 Peptide Cyclisation Using Polymer Supported Reagents.
Doisy Xavier, Ifrah Dan

P-A189 Combinatorial Approach to the Design of New Grafted Hydrophilic Polymeric Surfaces Optimised for Peptide Synthesis
Ede Nicholas J.

P-A190 Synthesis of a new biocompatible resins containing poly(ethylene glycol)-dicarboxylic acid
Kocsis László, Magyar Anna, Orosz György

P-A191 Peptide Array Synthesis on a Glass Chip using Micromirror Array (MMA) and Protein Binding Assay
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P-A192 Chemoselectivity in reductive alkylation on the solid phase
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P-A193 Do the beads suffer stress?
Sanclimens Glòria, Crespo Laia, Pons Miquel, Giralt Ernest, Albericio Fernando, Royo Miriam

P-A194 SPPS of N-?,N- ? -dimethylarginine containing peptides. C-terminal Human nucleolin (646-706) peptide amide (ChNu): synthesis, physicochemical properties and activity
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P-A195 A New High-Performance Polypropylene-Based Membrane Support for the Parallel Synthesis of Peptides and Small Organic Compounds
Zander Norbert, Dittrich Frank, Michaelis Kathrin, Tegge Werner, Frank Ronald

P-A196 Application of high capacity aminomethylated polystyrene resins to the Fmoc solid phase synthesis of Leu-Enk
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A8 - Ligation chemistry/protein modification

P-A197 Synthesis and Activity of Membrane-Targeted Glycopeptide Antibiotics
Beevers Andrew P., Cooper Matthew, Gong Yujing, Brown Derek F., Chapman Christopher P., Smith Geoffrey, Smith Richard A., Betley Jason R.

P-A198 Ligand Protection Strategies for Contact Point Determinations by Edman Degradation of Photolabeled Peptide Receptors
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P-A199 Semi-combinatorial approach for the preparation of linear comb-like glycopeptide dendrimers with Tn antigen using maleimide ligation
Veprek Pavel, Kelkar Shree, Trnka Tomáš, Hajdúch Marián, Ježek Jan

A8 - Ligation chemistry/protein modification

P-A200 Orthogonal Chemical Ligation For Biomolecule Engineering
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P-A201 Chemical modification of peptides and proteins for the fabrication of microarrays on semicarbazides glass slides: application to the serodiagnostic of pathogen infections
Olivier Christophe, Duburcq Xavier, Urbes Florence, Gras-Masse Helene, Melnyk Oleg

P-A202 Chemical construction of the O-linked Sialyl Lewis a – Threonine conjugate liposomes as ligands for the investigation of cell adhesion processes
Espínola Carmen G., Kunz Horst

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B1 - Analytical and biophysical methodologies

B2 - Peptide structure and analysis

B3 - Molecular design: experimental and computational

B4 - Self assembly and molecular recognition

B5 - Peptide bioavailability

B1 - Analytical and biophysical methodologies

P-B1 Isolation and characterization of low mobility group protein LMG160 from rat liver
Fallah Soudabeh, Rabbani Azra

P-B2 Induced axial chirality in the Pro-atropoisomeric Bip a-amino acid for configurational assignment
Oancea Simona, Formaggio Fernando, Gaucher Anne, Wright Karen, Wakselman Michel, Mazaleyrat Jean-Paul, Toniolo Claudio

P-B3 Chiral High-Performance Liquid Chromatographic Enantioseparation of a-Substituted Proline Analogues
Peter Antal, Torok Gabriella, Vekes Erika, Betsbrugge Jo V., Tourwe Dirk, Lindner Wolfgang

P-B4 Design and Thermodynamic Binding Studies of Peptide Ligands for the PDZ Protein Domain
Spaller Mark R., Saro Dorina, Li Tao, Paredes Azrael, Salamoun Mohamed

P-B5 Acridine-based fluorophores in peptide studies
Szymanska Aneta, Wiczk Wieslaw, Karolczak Jerzy, Lankiewicz Leszek

P-B6 New Consensus Hydrophobicity Scales Extended to Non-Proteinogenic Aminoacids
Tossi Alessandro, Sandri Luca, Giangaspero Anna

P-B7 Stability of modified linear and cyclic epitope peptides in human serum and toward lysosomal enzymes
Tugyi Regina, Mezo Gágor, Uray Katalin, Jakab Annamária, Bosze Szilvia, Medzihradszky-Schweiger Hedvig, Hudecz Ferenc

P-B8 High sensitivity phosphoprotein analysis using a combination of variable flow chromatography and precursor ion discovery on a Q-Tof mass spectrometer
Wallace Alistair, Langridge James, Millar Alan, Hughes Chris, Vissers Hans, Dourdeville Tad, Young Philip

B2 - Peptide structure and analysis

P-B9 Three Dimensional Structure of the Cathelicidin Motif of the Protegrin-3 Precursor
Aumelas André J., Sanchez Jean F., Hoh François, Yang Yin S., Strub Marie P., Dumas Christian

P-B10 Exploration of the Ramachandran surface of ß–peptides computed at *ab initio* and DFT levels of theory
Beke Tamás, Perczel András

P-B11 Characterization of the 3_{10}-Helix by HRMAS NMR Spectroscopy
Bianco Alberto, Lancelot Nathalie, Elbayed Karim, Raya Jésus, Piotto Martial, Briand Jean P., Formaggio Fernando, Toniolo Claudio

P-B12 Alamethicin Sequences Reconsidered
Brückner Hans, Winzheimer Ruth K., Kirschbaum Jochen

P-B13 Sequences of Peptaibol Antibiotic Trichoaureocins from *Trichoderma aureoviride*
Brückner Hans, Kirschbaum Jochen, Jaworski Andreas

P-B14 Molecular modeling of structurally related μ-opioidmimetics: parameters defining μ- and d-receptor selectivity
Bryant Sharon D., Okada Yoshio, Tsuda Yuko, Fujita Yoshio, Toshio Yokoi, Lazarus Lawrence H.

P-B15 Structural studies of amyloid ß-peptide-(25-35)
D'Ursi Anna M., Lombardi Vittoria, Armenante Maria R., Guerrini Remo, Salvadori Severo, Novellino Ettore, Picone Delia

B2 - Peptide structure and analysis

P-B16 Conformational analysis of peptides derived from feline immunodeficiency virus tm-glycoprotein
D'Ursi Anna M., Armenante Maria R., Lombardi Vittoria, Di Fenza Armida, Rovero Paolo

P-B17 TOAC-labeled Bradykinin analogues: conformational studies in model membranes and correlation with the biological activity
F. Vieira Renata F., Casallanovo Fábio, R. Barbosa Simone, Cilli Eduardo M., M. Paiva Antonio C., Schreier Shirley, Nakaie Clóvis R.

P-B18 Structure-activity Relationship Of Lactam Bridge Gomesin Analogues
Fázio Marcos A., Machado Alessandra, Daffre Sirlei, M. Miranda Maria T., Miranda Antonio

P-B19 Structural analysis of the interaction of diepoxybutane with haemoglobin by LC/ES/MS. Evaluation of alkylated peptides as biomarkers of the occupational exposure to 1,3-butadiene
Ferranti Pasquale, Basile Adriana, Malorni Antonio, Sannolo Nicola

P-B20 Cross Interaction of ß-Sheet Protein Fragments of Prions and ß-Amyloid
Frankiewicz Lukasz P., Pulka Karolina, Misicka Aleksandra, Lipkowski Andrzej W.

P-B21 NMR chemical shielding analysis of N-formyl-serinamide, a model for polar side chain containing peptides
Füzéry Anna K., Perczel András, Császár Attila G.

P-B22 Conformational analysis of natural marine cyclopeptides with antitumour properties
Giralt Ernest, Gairí Margarida, Salvatella Xavier, Rodríguez-Mias Ricard A., Jiménez José C., Caba Josep M., Cárdenas Francisco, Feliz Miguel, Lloyd-Williams Paul, Albericio Fernando

P-B23 Conformational Studies of Ampullosporin A and Synthetic Analogues by Circular Dichroism in Comparison to the Crystal Structure of the Native Peptide
Imhof Diana, Nguyen H. H., Kronen M., Gräfe U., Reissmann S.

P-B24 Structural and Biosensor Analyses of a Biotinylated Peptide Probe for APC Tumor Suppressor Protein
Wade John, Burgess Antony, Catimel Bruno, Faux Maree, Otvos Laszlo, Nice Edouard

P-B25 Structure analyses of HSV epitope peptides with NMR spectroscopy and molecular dynamic computation
Kiss Róbert, Schlosser Gitta, Mezo Gábor, Hudecz Ferenc, Perczel András

P-B26 FT-IR Studies on the Effect of ß-sheet Breaker Peptides on the Conformation and Aggregational Properties of ß-amyloid[1-42] and PrP[106-126]
Klement Éva, Zarándi Márta, Soós Katalin, Penke Botond

P-B27 Biological activity, NMR and conformational analysis of peptide analogs of amino-terminal sequence of RANTES
Kolobov Alexander A., Kampe-Nemm Elena A., Shpen Vladimir M., Tolparov Yury N., Olennikova Lubov V., Konusova Valentina G.

P-B28 Structural effect of metal replacement in a Cys2His2 zinc finger domain
Leone Marilisa, Malgieri Gaetano, Zaccaro Laura, Pedone Paolo V., Scandurra Roberto, Pedone Carlo, Di Blasio Benedetto, Fattorusso Roberto, Isernia Carla

P-B29 Solution NMR Structure of the a-Conotoxin GI-HSV Glycoprotein D Chimera
O'Boyle Farah, Mezo Gabor, Hudecz Ferenc, Janes Robert W.

P-B30 ß-Turn and 3_{10}-helical peptide spacers for exciton coupled CD studies
Oancea Simona, Formaggio Fernando, Campestrini Sandro, B. Broxterman Quirinus, Kaptein Bernard, Toniolo Claudio

P-B31 Structural study of the HIV-1 gp160 cleavage site by native and modified sequences. 2. role of the N-terminal secondary structure
Oliva Romina, Falcigno Lucia, D'Auria Gabriella, Dettin Monica, Gambaretto Roberta, Di Bello Carlo, Paolillo Livio

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P-B32 Multifunctional Antibacterial Peptides
Otvos Laszlo Jr., Kragol Goran, Bencivengo Anne-Marie, Chattergoon Michael A., Bulet Philippe, Hoffmann Ralf, Cudic Mare

P-B33 PESCADOR. The peptides in solution conformation database: online resource.
Pajon Anne, Vranken Wim F., Jimenez Maria A., Rico Manuel, Wodak Shoshana J.

P-B34 Conformational and sequential requirements of interaction between the chemokine SDF-1 and the receptor CXCR4
Palladino Pasquale, Benedetti Ettore, Pedone Carlo, Ragone Raffaele, Rossi Filomena, Saviano Michele

P-B35 Structure-Function Relationship Studies on Analogs of the 1-34 Fragment of Parathyroid Hormone (PTH) Containing ß-Alanine Residues at Positions 18 and 19.
Peggion Evaristo, Mammi Stefano, Schievano Elisabetta, Bisello Alessandro, Rosenblatt Michael, Chorev Michael

P-B36 Which of the secondary structure elements of proteins may occur in vacuum ?
Perczel András, Jákli Imre, Csizmadia Imre G.

P-B37 Cyclic peptides from different flaxes
Picur Bolesaw, Brzezicka A., Chliszcz P., Cebrat M., Lisowski M., Olejarnik M., Ruchala P., Spiewak K., Siemion I. Z.

P-B38 Analogues of Aggregating Peptide Models with Fluorescent Probe
Pulka Karolina, Frankiewicz Lukasz P., Misicka Aleksandra, Lipkowski Andrzej W.

P-B39 Peptoid residues and ß-turn formation
Rainaldi Mario, Cavicchioni Giorgio, Toniolo Claudio, Peggion Evaristo, Mammi Stefano

P-B40 Polylysine characterization using mass spectrometry
Schlosser Gitta, Takats Zoltan, Mezo Gabor, Hudecz Ferenc, Vekey Karoly

P-B41 Influence of the subsrate peptide sequence shortening on papain activity
Szabelski Mariusz, Guzow Katarzyna, Wiczk Wieslaw

P-B42 Structure-Activity Relationship of Melanin-Concentrating Hormone.
Vitale Rosa M., Isernia Carla, Amodeo Pietro, Fattorusso Roberto, Zaccaro Laura, Perretta Giuseppe, Di Blasio Benedetto, Saviano Michele, Pedone Carlo

P-B43 Hemoglobin Degradation Pathways in Human Erythrocytes
Yatskin Oleg N., Karelin Andrei A., Philippova Marina M., Ivanov Vadim T.

B3 - Molecular design: experimental and computational

P-B44 A study of energetics of formation of molecular and ionic heterocomplexes modelling acid-base interactions in polypeptydes by using potentiometric and *ab initio* methods
Chmurzynski Lech K., Makowski Mariusz, Kozak Anna, Czaja Malgorzata

P-B45 Computational Design and Combinatorial Assembly of Synthetic Proteins
Haehnel Wolfgang, Monien B., Drepper F., Fritzemeier K.

P-B46 Convergent molecular modelling of a-helix- and ß-sheet-inducers towards artificial transcription factors of the GCN4 and Met-repressor classes
Lehmann Christian

P-B47 Toward Rationally Designed Glycopeptide Antigens Recognizing Autoantibodies In Multiple Sclerosis Patients
Mulinacci Barbara, Peroni Elisa, Sabatino Giuseppina, Matà Sabrina, Chelli Mario, Carotenuto Alfonso, Rovero Paolo, Pinto Francesco, Lolli Francesco, Papini Anna M.

P-B48 Probing AT-1 Receptors with "Branched" Cyclopentapeptides
Nikiforovich Gregory V., Zhang Wei-Jun, Gao Yuan, Wu Yun, Kover Katalin E., Frandberg Per-Anders, Nyberg Fred, Karlen Anders, Hallberg Anders, Marshall Garland R.

B3 - Molecular design: experimental and computational

P-B49 *Ab initio* conformational analysis of the *cis-trans* isomerization of prolyl-proline peptide
Perczel András, Hudáky Ilona

P-B50 Modelling of bioactive peptides with the inclusion of synthetic amino acids
Preto Marco A., Melo André S., Costa Susana P., Maia Hernâni L., Ramos Maria J.

B4 - Self assembly and molecular recognition

P-B51 A helical peptide receptor for [60]fullerene
Bianco Alberto, Guldi Dirk M., Crisma Marco, Sartori Elena, Corvaja Carlo, Maggini Michele, Toniolo Claudio

P-B52 Identification of the physiological binding partners of SH3-domains in a whole proteome by combining phage display and SPOT-technology
Landgraf Christiane, Castagnoli Luisa, Panni Simona, Schneider-Mergener Jens, Cesareni Gianni, Volkmer-Engert Rudolf

P-B53 New design of synthetic peptide nanotubes
Rosenthal-Aizman Katri, Unden Anders

P-B54 Evolutionary Combinatorial Chemistry, a novel tool for SAR studies on peptide transport across the Blood-Brain Barrier
Teixidó Meritxell, Belda Ignacio, González Sonia, Fabre Miriam, Vilaró Senén, Garrell Josep M., Roselló Xavier, Albericio Fernando, Giralt Ernest

B5 - Peptide bioavailability

P-B55 Relationship between Structure and Cell Permeability of Oligopeptides and Related Compounds
Akamatsu Miki, Ano Rieko, Kimura Yukitaka, Shima Motohiro, Matsuno Ryuichi

P-B56 Isolation of casein-derived antibacterial peptides from rabbit milk
Baranyi Maria, Thomas Ursula, Pellegrini Antonio

P-B57 SP8ca, a peptide enhancing transport of model compounds across Caco-2 cell monolayers
Pietrzynski Grzegorz, Colakyan Claudia, Li Shengmin, Yan Xu, Tchistiakova Lioudmila, Alakhov Valery

Topic C

C1 - Peptide and peptidomimetics therapeutics

C2 - Peptides in immunology / vaccines

C3 - Membrane active-antibiotics and neurotoxins

C4 - Proteases and protease inhibitors

C5 - Peptide hormones and neuropeptides

C6 - Peptide mimetics and de novo design

C7 - Molecular bases of diseases

C8 - Peptide-based biomaterials

C1 - Peptide and peptidomimetics therapeutics

P-C1 Synthesis, interaction with phospholipids and biological activity of the laminin active sequence: SIKVAV
Almiñana Domenech Nuria, Reig F., Rivera-Fillat M. P., Grau-Oliete M. R., Alsina M. A.

P-C2 Clot permeable peptide inhibitors of thrombin and factor Xa
Bajusz Sándor, Barabás Éva, Fauszt Irén, Juhász Attila, Szabó Gabriella

P-C3 Synthetic antidotes against snake neurotoxins
Bracci Luisa, Lozzi Luisa, Falciani Chiara, Lelli Barbara, Pini Alessandro, Bernini Andrea, Niccolai Neri, Neri Paolo

P-C4 p21(WAF1)-Derived octapeptide inhibitors of CDK-cyclin complex: the effect of structural variants of the C-terminal Phe residue
Chan Weng C., Atkinson Gail E., Cowan Angela, McInnes Campbell, Fischer Peter M.

P-C5 N-Methylated peptides as inhibitors of ß-amyloid aggregation: a potential therapeutic strategy for the treatment of Alzheimer's Disease
Cruz Montse, Rabanal Francesc, Grillo Dolors, Tusell Josep M., Serratosa Joan, Albericio Fernando, Giralt Ernest

P-C6 Derivatives of the native antibacterial peptide pyrrhocoricin exhibit desirable pharmacological properties *in vitro* and *in vivo*
Cudic Mare, Condie Barry A., Bencivengo Anne-Marie, Weiner Daniel J., Lysenko Elena S., Otvos, Jr. Laszlo

P-C7 Synthetic Peptides Mapped on Angiostatin K4 Domain Inhibit Endothelial Cell Migration
Dettin Monica, Bicciato Silvio, Scarinci Claudia, Cline Edith, Lingen Mark W., Di Bello Carlo

P-C8 Furin-mediated cleavage of natural and modified gp160 peptides
Dettin Monica, Scarinci Claudia, Gambaretto Roberta, Tonin Lorenzo, Falcigno Lucia, Oliva Romina, Paolillo Livio, Di Bello Carlo

P-C9 Human glucagon-like peptide-1 amide (hGLP-1(7-36)NH_2) is cleaved by plasma enzymes not only at the N-terminus but also at the C-terminus development of novel GLP-1 analogs which are highly resistant to enzymatic degradation
Dong Jesse Z., Zhang Jundong, Zou Xiaojun, Shen Yeelana, Taylor John E., Culler Michael, Woon Chee-Wai, Moreau Jacques-Pierre

P-C10 Analogues of a potent oxytocin antagonist with truncated C-terminus or shorter side chain of the basic amino acid in position 8
Flouret George, Chaloin O., Slaninova J.

P-C11 Bicyclic analogues of a potent oxytocin antagonist
Flouret George, Chaloin O., Slaninova J.

P-C12 A journey from bradykinin peptide antagonists to peptide and peptidomimetic antineoplastics
Gera Lajos, Chan Daniel C., York Eunice J., Simkeviciene Vitalija, Bironaite Daiva, Vagonis Adomas, Bunn Jr. Paul A., Stewart John M.

P-C13 Design of Psychotropic Dipeptides Starting from the Chemical Structures of Nonpeptide Drugs
Gudasheva Tatiana, Ostrovskaya Rita, Voronina Tatiana, Seredenin Sergei

P-C14 Synthesis and Evaluation of Prolylisoxazoles as Inhibitors of Prolyl Oligopeptidase
Haemers Achiel, Bal Gunther, Van der Veken Pieter, Lambeir Anne-Marie, Grellier Philippe, Augustyns Koen

P-C15 Synthesis and characterization of new quinazolyl amino acid derivates as potential bioavailable antitumor agents
Hegymegi-Barakonyi Bálint, Örfi László, Bökönyi Györgyi, Kéri György

C1 - Peptide and peptidomimetics therapeutics

P-C16 Role of cholinergic system in the cardiovascular effects of intracerebroventricularly-injected angiotensin II; participation of vasopressin
Isbil-Buyukcoskun Naciye, Gulec Guldal, Ozluk Kasim

P-C17 Development of lead compounds focusing on prevention of infective endocarditis using combinatorial peptide libraries
Ito Hiro O., Nokihara Kiyoshi, Toda Chikako, Soutome Sakiko, Sato Setsuko, Yamamoto Shizue, Inoue Masakazu

P-C18 Inhibition of Islet Amyloid Polypeptide (IAPP) amyloid formation and cytotoxicity via structure-based, selective N-methylation of amide bonds of amyloid core sequences
Kapurniotu Aphrodite, Schmauder Anke, Tenidis Konstantinos

P-C19 Biological Activity of the Immunomodulatory Peptide SCV-07 Against Murine Tuberculosis
Kolobov Alexander A., Simbirtsev Andrey S., Pigareva Natalia V., Zabolotnych Natalia V., Vinogradova Tatiana I., Kotov Alexander Y., Tuthill Cynthia, Rudolph Alfred

P-C20 The Power of Attraction: Dmt as the Universal Opioid Determinant
Lazarus Lawrence H., Bryant S. D., Salvadori S., Guerrini R., Balboni G., Okada Y., Tsuda Y.

P-C21 Potentiating effect of distant sites in cyclic peptide antagonists of the Grb2-SH2 domain
Long Ya-Qiu, Roller Peter P.

P-C22 Identification of peptidomimetic HTLV-1 protease inhibitors containing allophenylnorstatine as a transition-state isostere
Maegawa Hikoichiro, Kimura Tooru, Arii Yasuhiro, Matsui Yasuko, Hayashi Yoshio, Kiso Yoshiaki

P-C23 Investigations on the effect of integrin-specific peptides on angiogenesis
Mattern Ralph-Heiko, Baluca Ernest, Minasyan Robert, Omlor Amanda, Cardenas Jose, Malaney Timothy I., Tschopp Juerg F., Pierschbacher Michael D.

P-C24 The synthesis and biological effects of alkylating RGD-peptides
Mihala Nikolett, Kertész Máriusz, Poli Maura, Süli-Vargha Helga

P-C25 The search for correlation between some physicochemical parameters and activity of series of peptidic antagonists of excitatory amino acid receptors
Paruszewski Ryszard, Strupinska Marzanna, Stables James

P-C26 A bactericidal domain of lysozyme with helix-loop-helix structure presents a strong antimicrobial activity
Pellegrini Antonio, Thomas Ursula, Ibrahim Hishan R.

P-C27 Innovative biocompatible immunoadsorbents containing immobilized selective glycopeptide antigens for multiple sclerosis therapy
Peroni Elisa, Lolli Francesco, Mulinacci Barbara, Nuti Francesca, Mazzanti Benedetta, Matà Sabrina, Chelli Mario, Pinto Francesco, Rovero Paolo, Papini Anna M.

P-C28 Bicyclic guanidinium derivatives as dimerization inhibitors of HIV-1 protease
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P-C29 Synthetic RGD Peptides Incorporating Salicylic Acid Derivatives Show Antiplatelet Activity in vitro
Sarigiannis Yiannis, Stavropoulos George, Liakopoulou-Kyriakides Maria, Vartholomatos George

P-C30 The design and analysis of novel substrate-based peptidomimetic peptidase inhibitors: applications for blood pressure regulation and blood brain barrier permeability.
Smith Ian, Norman Ursula, Lew Rebecca, Evans Roger, Hickey Michael

P-C31 Spontaneously regenerable water-soluble prodrugs: application to HIV protease inhibitors and anti-cancer drug paclitaxel
Sohma Youhei, Matsumoto Hikaru, Sasaki Masato, Kimura Tooru, Hayashi Yoshio, Kiso Yoshiaki

C1 - Peptide and peptidomimetics therapeutics

P-C32 Synthesis Of Tetrapeptides Analogs Of Substance P (SP6-9) And Study Of Their Antiproliferative Properties *in vitro*
Stavropoulos George, Vakalopoulou Paraskevi, Kortsaris Alexandros, Kyriakidis Dimitrios

P-C33 Vascular Endothelial Growth Factor Receptor 2 Binding Peptide: Targeting Vascular Endothelial Cells
Stewart John M., Taraseviciene-Stewart Laimute, Gera Lajos, Tuder Rubin M., Voelkel Norbert F.

P-C34 Fluorescently Labelled Peptides as Tools for Probing the Structure and Function of a Non-Viral Gene Delivery Vector
Tabor Alethea B., Guenin Erwann, Pilkington-Miksa Michael, Bell Paul, Barker Suzie E., Hurley Christopher A., Nichol Alastair, Zicha Daniel, Hailes Helen C., Hart Stephen L.

P-C35 Synthetic antimicrobial peptides designed from sequence templates
Tossi Alessandro, Antcheva Nikolinka, Zelezetsky Igor, Pag Ulrike, Sahl Hans-Georg

P-C36 Profiles of bivalent ligands toward μ-opioid receptor
Tsuda Yuko, Yokoi Toshio, Lawrence Lasarus, Bryant Sharon, Ambo Akihiro, Sasaki Yusuke, Okada Yoshio

P-C37 Structure-activity studies of novel D-Ser^{8}-cyclosporine a derivatives as potential anti-HIV drugs
Tuchscherer Gabriele, Patiny Luc, Guichou Jean-François, Lage Jaime, Turpin Olivier, Hamel Arnaud, Carrupt Annelise, Mutter Manfred

P-C38 New synthetic peptides related to laminin YIGSR fragment
Witkowska Ewa, Orlowska Alicja, Izdebski Jan, Salwa Jan, Wietrzyk Joanna, Opolski Adam

C2 - Peptides in immunology / vaccines

P-C39 Synthesis and antigenic properties of the identified epitopes of the Helicobacter Pylori CagA protein
Biris Nikolaos, Makropoulou Sevasti, Panou-Pomoni Eugenia, Boidarou Chrisa, Mentis Andreas, Soteriadou Ketty, Sakarellou-Daitsiotis Maria, Sakarellos Constantinos, Tsikaris Vassilios

P-C40 Reduction of Mouse Fertility by Antibody against P12 in Females
Chen Yee-Hsiung

P-C41 An allergy vaccine based on solvent-exposed non-anaphylactic peptides of the major birch pollen allergen, Bet v 1
Focke-Tejkl Margarete, Mahler Vera, Sperr Wolfgang, Valent Peter, Kraft Dietrich, Valenta Rudolf

P-C42 Encapsulation of New Biologically Active Peptides Into Liposomes and Their Immunoadjuvant Effect
Frkanec Ruza, Tomasic Jelka, Vranesic Branka, Halassy Beata, Krstanovic Marina

P-C43 Antibody recognition of synthetic antigens from MUC1
Hudecz Ferenc, Bánóczi Zoltán, Uray Katalin, Skribanek Zsolt, Mezo Gábor

P-C44 Synthesis and in vitro T cell immunogenecity of oligopeptides corresponding to the 91-110 region of 16 kDa protein of *Mycobacterium tuberculosis*
Hudecz Ferenc, Bôsze Szilvia, Caccamo Nadia, Majer Zsuzsa, Dieli Francesco, Mezo Gábor

P-C45 Enhanced immunogenicity of single-dose antigen based on nanospheres with antigen presenting cell-targeting function
Ito Yuji, Kajiwara Yasuhiro, Kimura Aoi, Hashiguchi Shuhei, Akashi Mitsuru, Sugimura Kazuhisa

P-C46 MSP-1 pseudopeptides as a possible malaria vaccine component
Lozano Josè M., Salazar L. M., Guzmán F., Patarroyo M. E.

C2 - Peptides in immunology / vaccines

P-C47 Synthesis of the Citrullin-Containing Epitope Peptides of Fillagrin
Magyar Anna, Brózik Márta, Tóbi Rita, Szabó Timea, Gergely Péter, Hudecz Ferenc

P-C48 Design, Synthesis and Conformational Properties of Linear Analogues Based on Human Myelin Basic Protein Epitope MBP1-11.
Matsoukas John, Tselios Theodore, Daliani Ioanna, Deraos George, Zoumpoulakis Panagiotis, Probert Lesley, Troganis Anastasios, Mavromoustakos Thomas, Deraos Spyros

P-C49 Preparation of synthetic antigens and bioconjugates containing oligo-tuftsin carrier molecule
Mezo Gábor, Jakab Annamária, Schlosser Gitta, Bosze Szilvia, Hudecz Ferenc

P-C50 A Stimulatory Monoclonal Antibody That Induces G-CSF Release From Macrophages
Mukai Hidehito, Aoki Yoshiko, Sha Shiken, Nishi Yoshisuke

P-C51 Antimicrobial activity of N-terminal fragments of Bac7, a cathelicidin-derived PR-rich peptide
Podda Elena, Nobili Donatella, Dal Pozzo Silvia, Skerlavaj Barbara, Gennaro Renato

P-C52 Synthesis and Biological Activity of N-(tert-Butyloxycarbonyl)-(Adamant-2-yl)-DL-Glycyl-Peptidoglycan Monomer
Šporec Vesna, Ljevakovic Đurdica, Halassy Špoljar Beata, Frkanec Ruža, Krstanovic Marina, Vranešic Branka, Tomašic Jelka, Benedetti Fabio

P-C53 ß amino acid peptides elicit a spectrum of T cell responses
Aguilar Marie I., Webb Andrew Z., Perlmutter Patrick, Stewart Karen, Purcell Anthony W.

P-C54 Constrained Peptide Mimetics and Virus-like Particles in Synthetic Vaccine Design
Robinson John A.

P-C55 Immunogenic properties of the main T-cell epitopes of gp63 anchored to the Sequential Oligopeptide Carrier Soc4
Sakarellos Daitsiotis Maria, Chondrogiannis Nectarios -Ioannis, Tsagozis Panagiotis, Tsikaris Vassilios, Dotsika Eleni, Sakarellos Constantinos

P-C56 The Ro60KD zinc-finger motif: design, synthesis and molecular interactions
Sakarellos-Daitsiotis Maria, Kosmopoulou Aggeliki, Staurakoudis Athanassios, Panou-Pomonis Eugenia, Tsikaris Vassilios, Sakarellos Constantinos, Routsias John G., Makri Athina, Tzioufas Athanasios, Moutsopoulos Charalampos M.

P-C57 Antipeptide antibodies to develop diagnostic tests for bacterial toxins
Sanseverino Marina, Zocchi Ivana, Desiderio Valerio, Pollaro Francesco, Bavoso Alfonso

P-C58 Identification of T-cell epitopes using Spot synthesised peptides
Streitz Mathias, Paschkewitz Andre, Volkmer-Engert Rudolf, Kern Florian

P-C59 Specificity in the P1 pocket of the human class II MHC protein HLA-DR1
Strug Iwona, Stern Lawrence J.

P-C60 Study on structure activity relationship of the immunosuppressory fragment of ubiquitin
Szewczuk Zbigniew, Stefanowicz Piotr, Staszewska Anna, Siemion Ignacy Z., Wieczorek Zbigniew

P-C61 The motif for prediction of protein fragments able to induce antibody formation in mice
Titova Maia, Zhmak Maxim, Koroev Dmitry, Oboznaya Maria, Volkova Tatiana, Volpina Olga, Ivanov Vadim

P-C62 Synthetic peptides for causative therapy of dilated cardiomyopathy
Winkler Dirk, Brauns Olaf, Egner Ralf, Müller Johannes, Wallukat Gerd, Rönspeck Wolfgang

P-C63 Synthesis of longer, multiply phosphorylated peptides on solid phase applying the H-phosphonate method
Toth Gabor K., Varadi Gyorgyi, Kupihar Zotan, Sarmay Gabriella

C2 - Peptides in immunology / vaccines

P-C64 Effect of flanking regions with D-amino acids on the antibody recognition of a MUC2 epitope
Uray Katalin, Tugyi Regina, Schlosser Gitta, Hudecz Ferenc

P-C65 Mice antipeptide antibodies for detection of protease resistant PrP isoform
Volkova Tatyana D., Zhmak M. N., Oboznaya M. B., Titova M. A., Koroev D. O., Rybakov S. S., Egorov A. A., Volpina O. M., Ivanov Vadim T.

P-C66 The effect of non-native flanking sequences on antibody recognition and solution conformation of PTGTQ epitope from mucin-2
Windberg Emoke, Majer Zsuzsa, Sebestyen Ferenc, Vass Elemer, Hudecz Ferenc

C3 - Membrane active-antibiotics and neurotoxins

P-C67 Bovine milk component PP3 as a source of antimicrobial peptides: identification of an active peptide using a predictive approach
Campagna Sylvie, Mathot Anne-Gabrielle, Fleury Yannick, Gaillard Jean-Luc

P-C68 Structural features, antimicrobial and membrane properties of microcin E492
Destoumieux-Garzón Delphine, Boscher Bénédicte, Thomas Xavier, Goulard Christophe, Barthélémy Michel, Pons Anne-Marie, Rebuffat Sylvie, Peduzzi Jean

P-C69 Polymyxin B nonapeptide analogs: biological evaluation and molecular modeling
Fridkin Mati, Tsubery Haim, Cohen Sofia, Ofek Itzhak, Eisenstein Miriam

P-C70 *In vitro* activity of cathelicidin peptides against fungal clinical isolates
Gennaro Renato, Benincasa Monica, Nobili Donatella, Mattiuzzo Maura, De Paoli Paolo, Basaglia Giancarlo, Zanetti Margherita

P-C71 Interaction of antimicrobial peptides with liposomes containing simple analogues of lipid A
Gobbo Marina, Biondi Laura, Filira Fernando, Rocchi Raniero

P-C72 Biological activities of amino acids and peptide-functionalized cholic acid derivatives
Grueva Ekaterina S., Milkova Tsenka S., Pajpanova Tamara I.

P-C73 Design And Synthesis Of Indolicidin Analogues With Enhanced Positive Net Charge And Amphipathicity
Kolodkin Nikolay I., Smirnova Mariya P., Afonin Vladimir G., Shpen Vladimir M., Tyagotin Jriy V.

P-C74 Amphiphiles containing steroid lipophilic groups
Pajpanova Tamara I., Slavcheva Grueva E., Sabova Milkova T.

P-C75 Antimicrobial Activity Of SMAP-29 against Clinically Relevant Anaerobic Bacteria
Skerlavaj Barbara, Arzese Alessandra, Tomasinsig Linda, Gennaro Renato, Zanetti Margherita

P-C76 Thionins from *Pyrularia pubera*: Synthetic and Structural Studies
Vila-Perelló Miquel, Sánchez-Vallet Andrea, Molina Antonio, Andreu David

C4 - Proteases and protease inhibitors

P-C77 Sequence Specificity of The Serine Protease, Factor Xa
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C4 - Proteases and protease inhibitors

P-C78 Down regulation of T-cell activation by synthetic dipeptidyl peptidase IV inhibitors with the N-terminal MXP sequence
Faust Jürgen, Wrenger Sabine, Reinhold Dirk, Kähne Thilo, Lorey Susan, Stöckel-Maschek Angela, Brandt Wolfgang, Mrestani-Klaus Carmen, Stiebitz Beate, Ansorge Siegfried, Neubert Klaus

P-C79 Design and characterization of a synthesized hybrid inhibitory miniprotein
Hilpert Kai, Hansen Gerd, Ay Jacqueline, Schneider-Mergener Jens, Hoehne Wolfgang

P-C80 Peptide-Based Protease Inhibitors of the Hepatitis C Virus Full-Length NS3 Protein (Protease-Helicase/NTPase)
Johansson Anja, Åkerblom Eva, Poliakov Anton, Lindeberg Gunnar, Danielson Ulrika H., Hallberg Anders

P-C81 Synthesis of TMC-95A analogs as reversible inhibitors of eukaryotic proteasome
Kaiser Markus, Groll Michael, Huber Robert, Moroder Luis

P-C82 Structure-based design and synthesis of cathepsin K inhibitors
Kasprzykowska Regina, Kasprzykowski Franciszek, Tokmina Monika, Stachowiak Krystyna, Grubb Anders

P-C83 Chemical synthesis and kinetic study of the smallest naturally occurring trypsin inhibitor SFTI-1 isolated from sunflower seeds and its analogues
Kazmierczak Katarzyna, Zablotna Ewa, Jaskiewicz Anna, Kupryszewski Gotfryd, Rolka Krzysztof

P-C84 Peptidomimetic aspartic protease inhibitors: general use of the hydroxymethycarbonyl scaffold as a transition-state isostere
Kiso Yoshiaki, Kimura Tooru, Hidaka Koushi, Kiso Aiko, Maegawa Hikoichiro, Hayashi Yoshio, Nezami Azin, Luque Irene, Freire Ernesto

P-C85 Identification of the angiotensin IV receptor as insulin-regulated aminopeptidase: enzyme inhibition by AT_4 ligands
Lew Rebecca, Chai Siew Y., Mustafa Tomris, McDowell Sharon, Albiston Anthony

P-C86 Bioactive peptides as potential substrates for enteropeptidase
Likhareva Viktoria V., Mikhailova Anna G., Rumsh Lev D., Garanin Sergey K., Vaskovsky Boris V.

P-C87 The synthesis of aminomethyl substituted azaphenylalanine derivatives as thrombin inhibitors
Obreza Aleš, Urleb Uroš

P-C88 New renin inhibitors with pseudodipeptide unit in P1-P1 prim and P2 prim-P3 prim positions
Paruszewski Ryszard, Jaworski Pawel, Winiecka Iwona, Tautt Jadwiga, Dudkiewicz Jadwiga

P-C89 Thrombin inhibitors with an azaphenylalanine scaffold: Potency enhancements
Urleb Uroš, Zega Anamarija

P-C90 Diastereoselective synthesis of RXP 407, a potent pseudopeptidic inhibitor of ACE-I, able to differentiate between its two active sites
Yiotakis Athanasios, Makaritis Anastasios, Georgiadis Dimitris, Matziari Magdalini, Dive Vincent

C5 - Peptide hormones and neuropeptides

P-C91 Galanin receptor ligands and antisense oligonucleotides in the study of hippocampal galanin receptors
Baláspiri Lajos, Langel Ülo, Mazaratti A., Kása Péter, Janáky Tàmas, Blazsó Gàbor, Takács Tàmas, Mák Marianna, Bartfai Tamas

P-C92 The Interaction of dDAVP Analogues with Human Platelet Vasopressin Receptors
Barth Tomislav, Pencheva Nevena, Barthovà Jana, Penev Marin, Hauzerovà Linda, Mladenova Antoaneta

C5 - Peptide hormones and neuropeptides

P-C93 *In vivo* activity of some nociceptin analogues containing mercapto acids
Bartosz-Bechowski Hubert, Miedzybrodzki Ryszard, Szymaniec Stanislaw

P-C94 Anorectic and antiobesic properties of a new CCKA-agonist in rodents
Bickel Martin, Jaehne Gerhard, Gossel Matthias

P-C95 Human Coupling Factor-6 prescursor (55-108)-NH_2 is the active fragment of Coupling Factor-6
Chang Jaw-Kang, Scruggs Phouangmala, Dun Nae J., Duetzmann Astrid, Ouyang Ming, Yang Jun

P-C96 Fluorescent Form of the Oxytocin Inhibitor Atosiban
Ciencialová Alice, Barthová Jana, Barth Tomislav, Klasová Lenka, Vilhardt Hans, Engström Thomas

P-C97 Synthesis and Stuctural Studies of New Analogues of the Decapeptide Luteinizing Hormone–Releasing Hormone (LHRH)
Cordopatis Paul, Zompra Aikaterini A., Spyroulias Georgios A., Magafa Vassiliki

P-C98 Pitfalls of neurotoxicity investigation of ß-amyloid 1-42 peptide *in vitro* and *in vivo*
Datki Zsolt L., Soós Katalin, Juhász Anna, Harkány Tibor, Laskay Gábor, Penke Botond

P-C99 New Analogues of Arginine Vasopressin with Prolonged Inhibition of Vasopressor Responses to this Hormone
Derdowska Izabela, Jastrzebska Beata, Kowalczyk Wioleta, Janecki Marcin, Trzeciak Henryk

P-C100 Pituitary Adenylate Cyclase Activating Polypeptide Inhibited the ß-Amyloid-induced Neurotoxicity and Activation of Caspase-3
Endo Kosuke, Onoue Satomi, Ohshima Keiichi, Yajima Takehiko, Kashimoto Kazuhisa

P-C101 Somatostatin (srif) analogs that contain ß-methyl-2-naphthyl-alanine in position 8 selectively bind to human SST_4
Erchegyi Judit, Penke Botond, Simon Lajos, Michaelson Scott, Wenger Sandra, Waser Beatrice, Schaer Jean-Claude, Reubi Jean C., Rivier Jean E.

P-C102 Synthesis and *in vitro* opioid activities of cyclic dermorphin analogues containing a carbonyl bridge
Filip Katarzyna, Pawlak Danuta, Wójcik Jacek, Chung Nga N., Schiller Peter W., Izdebski Jan

P-C103 Effects Produced By Alterations In The Cyclic Portion Of The Vasoactive Peptide, Urotensin-II
Fournier Alain, Brkovic Alexandre, Hattenberger Almut, Kostenis Evi

P-C104 Two neuropeptides from invertebrates - allatostatin and proctolin modulate spontaneous neurotransmitter release in mouse neuromuscular junction
Gaydukov Alexander, Balezina Olga

P-C105 Potent and Selective Peptide Agonist/Antagonist Analogues at Human Melanocortin Receptor-4
Grieco Paolo, Cai Minying, Trivedi Dev, Hruby Victor J.

P-C106 New Potent GH-RH Analogues Containing Homoarginine Residues
Izdebski Jan, Witkowska Ewa, Kunce Danuta, Orlowska Alicja, Baranowska Boguslawa, Radzikowska Malgorzata, Smoluch Marek

P-C107 Analogues of Arginine Vasopressin Modified in Position 2 or 3 with 1-aminocyclohexane-1-carboxylic acid
Jastrzebska Beata, Derdowska Izabela, Kowalczyk Wioleta, Slaninova Jirina, Lammek Bernard

P-C108 Conformationally constrained analogues of neuropeptide Y bind to the NPY Y1-receptor
Koglin Norman, Zorn Chiara, Reiser Oliver, Beck-Sickinger Annette G.

P-C109 Glutamic acid-10: a key-residue for the structural stability and vasoactive activity of endothelin agonists specific to ET-A receptor
Langlois Chantal, Létourneau Myriam, Fournier Alain

C5 - Peptide hormones and neuropeptides

P-C110 Structure-activity relationship of rat octadecaneuropeptide: importance of the leucine residues
Leprince Jérôme, Chatenet David, Masmoudi Olfa, Gandolfo Pierrick, Vaudry Hubert, Tonon Marie-Christine

P-C111 Synthesis, biological activity and conformational study of new oxytocin analogues
Manessi-Zoupa Evy, Fragiadaki Maria, Koumentakos Stamatios, Spyroulias Georgios A., Slaninova Jirina, Magafa Vassiliki, Cordopatis Paul

P-C112 Design and synthesis of vasopressin agonists with high affinities and selectivities for the human V1b receptor
Manning Maurice, Stoev Stoytcho, Cheng Ling L., Derick Sylvain, Mimoun Mohamed B., Grevoul Stephane, Guillon Gilles

P-C113 Cox17p, a novel mammalian copper trafficking peptide
Munekata Eisuke, Takahashi Yoshinori, Takehara Akio, Arai Hidenori, Inada Yoshiko, Onodera Takashi, Dobashi Sachiko, Kako Koichiro

P-C114 A new generic caspase substrate for fluorescence-based assays
Winkler Dirk, Müller Annett, Fries Joachim R., Schierholz Bernd, Gemkow Mark, Jungmann Jörn, Lopez-Calle Eloisa

P-C115 Tetraamine functionalized neurotensin analogues labeled with ^{99m}Tc with potential application in the diagnosis of tumours
Pairas George, Nock Berthold, Nikolopoulou Anastasia, Chiotellis Efstratios, Maina Theodosia, Galanis Athanassios S., Sotiriou Petros, Cordopatis Paul

P-C116 Delta sleep inducing peptide (DSIP) prevented hypoxia-induced reduction of respiratory activity in rat brain mitochondria
Prudchenko Igor A., Mikhaleva Inessa I., Khvatova Elena M., Samartzev Victor N., Zagoskin Pavel P.

P-C117 Galanin and its new analogues; synthesis and biological activity in rat isolated gastric smooth muscles
Ruczynski Jaroslaw, Konstanski Zdzislaw, Korolkiewicz Roman, Rekowski Piotr

P-C118 Proliferative products of *in vivo* hemoglobin proteolysis as tissue growth promoters
Sazonova Olga V., Blishchenko Elena Y., Leontiev Konstantin V., Khaidukov Sergei V., Karelin Andrei A., Ivanov Vadim T.

P-C119 Mammalian copper chaperone Cox17p is indispensable for cellular respiration and embryonic development
Takahashi Yoshinori, Kako Koichiro, Inada Yoshiko, Arai Hidenori, Munekata Eisuke

P-C120 The Somatostatin Receptor type 1: Chemical synthesis and conformational studies of the 56-residues N-terminal fragment
Tesauro Diego, De Luca Stefania, Digilio Giuseppe, Pedone Carlo, Morelli Giancarlo

P-C121 New endomorphin analogues using ß-amino acids as proline mimetics in position 2
Toth Geza, Fulop Ferenc, Peter Antal, Fabian Gabriella, Muranyi Mariann, Horvath Gyongyi, Szucs Maria

P-C122 [Dmt1]DALDA: preparation of a tritiated analogue and structural modifications in positions 1, 3 and 4 of the peptide sequence
Schiller Peter W., Berezowska Irena, Nguyen Thi M., Weltrowska Grazyna, Lemieux Carole, Chung Nga N., Zhao Guo-Min, Szeto Hazel H.

C6 - Peptide mimetics and *de novo* design

P-C123 Pseudopeptide Foldamers. The Homo-oligomers of Pyroglutamic Acid and trans-(4S,5R)-4-Carboxy-5-methyl Oxazolidin-2-one
Crisma Marco, Peggion Cristina, Formaggio Fernando, Toniolo Claudio, Garavelli Marco, Bernardi Fernando, Trigari Valerio, Lucarini Simone, Scatizzi Marco, Tomasini Claudia

C6 - Peptide mimetics and de novo design

P-C124 Targeting VEGF receptors using designed polypeptides
D'Andrea Luca D., Fattorusso Roberto, Carannante Concetta, Pedone Carlo

P-C125 Synthetic mimicry of conformationally defined protein binding sites through nonlinear and scaffolded peptides and peptide libraries
Eichler Jutta, Doll Christian, Hunke Cornelia, Overwin Heike

P-C126 A peptide template as an allosteric supramolecular catalyst for the cleavage of phosphate esters
Formaggio Fernando, Toniolo Claudio, Scarso Alessandro, Scheffer Ute, Göbel Michael, B. Broxterman Quirinus, Kaptein Bernard, Scrimin Paolo

P-C127 Probing structural requirements of fMLP receptor: an amphiphilic residue at position 1 of the tripeptide
Formaggio Fernando, Toniolo Claudio, Falzarano Maria S., Spisani Susanna, Witkowska Renata, Zabrocki Janusz

P-C128 Conformational preferences of peptides containing reverse-turn mimetic ?-lactams
Galeazzi Roberta, Mobbili Giovanna, Orena Mario

P-C129 Potent Cyclic Angiotensin II Analogues Confirm the Ring Cluster Conformation: Implications in the Design of AT1 Non-Peptide Antagonists
Giatas Nektarios, Zoga Anastasia, Androutsou Maria-Eleni, Roumelioti Panagiota, Polevaya Ludmila, Mavromoustakos Thomas, Zoumpoulakis Panagiotis, Vlahakos Demetrios, Matsoukas John

P-C130 Enantiopure N,N'-Linked Oligoureas as Foldamers
Guichard Gilles, Semetey Vincent, Rognan Didier, Hemmerlin Christine, Graff Roland, Briand Jean P., Marraud Michel

P-C131 *De novo* design of artificial peroxidases
Kato Tamaki, Ishibashi Kenji, Oniki Yusuke, Nishino Norikazu

P-C132 Novel peptide nucleic acids that contain pyrrolidine rings of various streoisomers
Kitamatsu Mizuki, Shigeyasu Masanori, Sisido Masahiko

P-C133 Peptide mimics of subunit B of DNA-gyrase in interactions studies with coumarin drugs
Marchetto Reinaldo, Scatigno Andreza C., Garrido Saulo S.

P-C134 Template-directed ligation enhanced by complementary interaction using nucleobase amino acids
Mihara Hisakazu, Matsumura Sachiko, Ueno Akihiko

P-C135 Design and Synthesis of Three-a-Helix Proteins That Bind Small Ligands in a Cavity
Mihara Hisakazu, Obataya Ikuo, Ueno Akihiko

P-C136 *De novo* design of peptides containing L-a-nucleobase amino acids and their recognition of hairpin RNA
Miyanishi Hideo, Takahashi Tsuyoshi, Ueno Akihiko, Mihara Hisakazu

P-C137 Design synthesis of SS-dimer and SS-hybrids based on Cyl-1 (cyclic tetrapeptide) as anti-cancer prodrugs
Nishino Norikazu, Okamura Shinji, Ebisuzaki Shutoku, Kato Tamaki, Sumida Yuko, Yoshida Minoru

P-C138 Are the ß-isomeric peptides stable secondary structures similar to the a-peptide ones?
Royo Miriam, Sgarzi Fabio, Farrera-Sinfreu Josep M., Albericio Fernando, Gentiluce Luca, Cardillo Giuliana

P-C139 A fully automated software strategy for *de novo* sequencing of whole LC-MS/MS datasets
Wallace Alistair, Langridge J., Millar A., Young P., O'Malley R., Swainstoin N., Skilling J., Hoyes J., Richarson K.

P-C140 Dendritic poly(L-lysine)s combining clusters of zinc(II)-porphyrins and methyl viologens for a photoinduced electron transfer system
Watanabe Louis A., Kontani Katsunori, Arai Toru, Kato Tamaki, Nishino Norikazu

C7 - Molecular bases of diseases

P-C141 On the Biochemical Basis of Autism
Anderson Rosaleen J., Groundwater Paul W., Carr Kevin

P-C142 Components of tissue-specific peptide pools: contribution to regulation of cell number
Blishchenko Elena Y., Sazonova Olga V., Leontiev Konstantin V., Khaidukov Sergei V., Sheikine Yury A., Sokolov Dmitry I., Freidlin Irina S., Yatskin Oleg N., Philippova Marina M., Karelin Andrei A., Ivanov Vadim T.

P-C143 The recognition mechanism in enteroviral 3Cpro/RNA interactions: role of the RNA structure
Bucci Enrico, Goerlach Matthias, Sidigi Karim, Zell Roland, Pedone Carlo

P-C144 Evidence for the presence of a secondary binding site between HIV-MN-gp120 PND and the CD4 CDR3 region
Dettin Monica, Picariello Gianluca, Scarinci Claudia, Pasquato Antonella, Ferranti Pasquale, Malorni Antonio, Di Bello Carlo

P-C145 Thermal and guanidine hydrochloride-induced denaturation of human cystatin C
Jankowska Elzbieta, Wiczk Wieslaw, Grzonka Zbigniew

P-C146 Angiogenesis: Thrombin and Thrombin-related Proteins in Focus
Polevaya Ludmila K., Keivish Tatiana A., Matsoukas John M.

P-C147 Cyclic non-RGD analogues: design, synthesis and antithrombotic properties
Sakarellos Constantinos, Kouki Aggeliki, Staurakoudis Athanassios, Panou-Pomonis Eugenia, Sakarellos-Daitsiotis Maria, Tsoukatos Demokritos, Tsikaris Vassilios

P-C148 Synthesis, structural characterisation and epitope elucidation of the cytoplasmic domain of alzheimer's amyloid precursor protein APP
Tian Xiaodan, Cecal R., Amstalden E., Kohlmann M., Bruns K., Bühler S., Przybylski M.

P-C149 Peptide-based generation of subunit-specific antibodies against ion channel receptors
Wenzeler Petra, Becker Kristina, Herkert Matthias, Becker Cord-Michael

P-C150 Prevention of experimental autoimmune encephalomyelitis by a MHC class II nonapeptide ligand identified with combinatorial peptide chemistry
Wiesmüller Karl-Heinz, deGraaf Katrien, Fleckenstein Burkhard, Olsson Thomas, Jung Günther, Melms Arthur, Weissert Robert

C8 - Peptide-based biomaterials

P-C151 New Peptide-based Biopreparations for Plant Protection
Boikova Katharina, Boikova Irina, Novicova Irina, Shenin Yurij

P-C152 Biofunctionalisation of different surface types via $a_v ß_3$-integrin selective cyclic Arg-Gly-Asp peptides
Dahmen Claudia, Kantlehner M., Hersel U., Schaffner P., Meyer J., Finsinger D., Jonczyk A., Diefenbach B., Nies B., Kessler H.

P-C153 Synthesis of peptides-based bioorganic-inorganic materials.
Durand Jean O., KAR Samirana, LANNEAU Gérarda, JOLY Pascal, GRAS-MASSE Hélène, MELNYK Oleg

P-C154 Small peptide dendrimers with antimicrobial properties
Janiszewska Jolanta, Ostrowska Anna, Lipkowski Andrzej W., Urbanczyk-Lipkowska Zofia

P-C155 Discovery and Structure-activity Relationship of Angiogenic Peptides
Nokihara Kiyoshi, Hamada Yoshinosuke, Takahashi Junzo, Matsuura Nariaki

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P-C156 Laminin peptides maintain activity when conjugated to a chitosan membrane
Nomizu Motoyoshi, Mochizuki Mayumi, Kadoya Yuichi, Kato Kozue, Yamada Masanori, Sato Taku, Sakairi Nobuo, Nishi Norio

P-C157 Microarrays with a-Helical Peptides for Protein Detection using a FRET Technique
Usui Kenji, Takahashi Mizuki, Ueno Akihiko, Nokihara Kiyoshi, Mihara Hisakazu

P-C158 The Obtaining of Bioactive Peptide Material from as- and ß-Caseins
Yukalo Volodymyr G., Luhovyy Bohdan L.

P-C159 EVOblue - Its application in HTS assays
Winkler Dirk, Fries Joachim R., Müller Annett, Schierholz Bernd, Scheel Andreas, Jäger Stefan, Lopez-Calle Eloisa

Topic D

D1 - Peptide and protein interactions with DNA

D2 - Structural studies, spectroscopy and molecular modelling

D3 - Peptide interactions with membranes and in signal transduction

D4 - Peptide and protein folding

D5 - Peptides in drug design

D6 - The structure of peptides and their interaction with biomolecules

D1 - Peptide and protein interactions with DNA

P-D1 Direct complex formation between DNA and peptides derived from HIV-1 Tat protein in the preparation of simple non-viral gene delivery system
Burov Sergey V., Pavlotzkaya Anna V., Leko Maria V., Dorosh Marina Y., Ditkovskaya Irina B., Dizhe Eduard B., Ignatovich Irina A., Orlov Sergey V., Perevozchikov Andrey P.

P-D2 Synthesis of Amphipatic a-helical Peptides Modified with Lipophilic Fragments and their Interaction with DNA and Erythrocites
Gurjanov Ivan, Vlasova Elena, Korol'kov Valery, Vlasov Guennady, Kiselev Anton, Lesina Evgenia, Baranov Vladislav, Chirarzhina Elena, Vorob'ev Vladimir

P-D3 A peptide selected from a phage display library selectively recognizes modified nucleosides containing anticodon domain of yeast tRNA(Phe)
Mucha Piotr, Szyk Agnieszka, Rekowski Piotr, Guenther Richard, Weiss Patrick A., Agris Paul F.

P-D4 Chiral peptide nucleic acids: design, synthesis, optical purity and hybridization properties
Sforza Stefano, Corradini roberto, Tedeschi Tullia, Dossena Arnaldo, Marchelli Rosangela

P-D5 Using capillary electrophoresis to study methylation effect on RNA - peptide interaction
Szyk Agnieszka, Mucha Piotr, Rekowski Piotr, Guenther Richard, Agris Paul F.

P-D6 Starburst Carbon Chain Polymer Protein Conjugates: Adjustment of Immunogenicity and Search of the Possibility of DNA Delivery
Vlasov Guennady, Pankova Galina, Charenko Olesja, Antonov Nikolay, Baranov Vladislav, Baranov Alexander, Glazkov Pavel, Kiselev Anton, Ostapenko Olga, Lesina Elena

P-D7 Lysine Dendrimers and their Starburst Polymer Derivatives as Carriers for the DNA Delivery
Vlasov Guennady, Korol'kov Valeriy, Pankova Galina, Bajanova Nadezhda, Tarasenko Irina, Baranov Vladislav, Baranov Alexander, Kiselev Anton, Glazkov Pavel, Ostapenko Olga, Lesina Elena

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P-D8 Investigation of the conformational properties of the cyanide bound human myoglobin by FTIR spectroscopy
Al-Mustafa J. I.

P-D9 Homology modelling of thimet oligopeptidase (EP24.15)
Anderson Rosaleen J., Smith A. Ian, Carr Kevin

P-D10 Histidine in proteins. quantum chemical calculations related to catalytic mechanism
Beke Tamás, Hudáky Péter, Perczel András

P-D11 Discrete conformational states of short linear peptides in solution: experimental evidence of a new concept
Biris Nikolaos, Stavrakoudis Athanassios, Politou Anastasia S., Mikros Emmanuel, Daitsiotis-Sakarellos Maria, Sakarellos Constantinos, Tsikaris Vassilios

P-D12 A new 3_{10}-helicoid peptide inducer: applications to the main immunogenic region of the Acetylcholine receptor
Biris Nikolaos, Mammonas Spiros, Sakarellos – Daitsiotis Maria, Sakarellos Constantinos, Tsikaris Vassilios

P-D13 Thermodynamics of a Protein Catenane
Blankenship John W., Dawson Philip E.

D2 - Structural studies, spectroscopy and molecular modelling

P-D14 A structure-activity study of [D-ALA^8]-dynorphin-(1-13)-peptide amide. Synthesis of analogues with modified amino acids in positions 0,1,3,4,7
Bobrova Irina, Goodman Murrey, DeHaven Robert N., Daubert Jeffrey D., Johansson LarsErik, Karsnas Per, Burov Sergej, Terenius Lars

P-D15 Computational Docking and Opioidmimetics: Investigation of d-Opioid Agonist and Antagonist Interactions
Bryant Sharon D., Salvadori Severo, Guerrini Remo, Balboni Gianfranco, Lazarus Lawrence H.

P-D16 Will the N-terminus of human growth hormone releasing hormone (GHRH) adopt a polyproline (PPII) helix?
Cervini Laura, Donaldson Cynthia, Koerber Steven C., Vale Wylie, Rivier Jean

P-D17 Conformational studies of a new tetraamine-functionalized Tyr^3-Octreotate derivative (Demotate)
Cordopatis Paul, Sotiriou Petros, Galanis Athanassios S., Spyroulias Georgios A., Nock Berthold, Nikolopoulou Anastasia, Chiotellis Efstratios, Maina Theodosia

P-D18 ^{1}H-NMR spectroscopy to probe the specific interactions of sense-antisense peptide epitopes and mAbs deriving from the La/SSB autoantigen.
Cung Manh-Thong, Hemmerlin Christine, Papamattheou M, Tsikaris Vassilios, Sakarellos-Daitsiotis Maria, Sakarellos Constantinos, Dotsika Eleni, Tzioufas Athanasios G., Moutsopoulos Haralampos M.

P-D19 *Ab initio* chemical shielding calculations of alanine oligopeptide models
Czajlik András, Perczel András

P-D20 Structural Analysis of the Antisigma Protein FlgM
D'Auria Gabriella, Falcigno Lucia, Oliva Romina, Flores Germana, Vacatello Manuela, Bertero Michela, Galizzi Alessandro, Paolillo Livio

P-D21 Temperature dependence of backbone nanosecond fluctuations from ^{15}N and ^{13}C NMR Relaxation
Daragan Vladimir A., Idiyatullin Djaudat, Mayo Kevin H.

P-D22 Structural and thermodynamic studies of diastereomeric ß-hairpin mimetics
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P-D23 Interaction between the TOAC nitroxyl radical and the photoexcited [C_{70}] fullerene triplet chromophore covalently linked to a peptide template
Formaggio Fernando, Toniolo Claudio, Della Negra Federico, Maggini Michele, Scorrano Gianfranco, Mazzoni Martina, Toffoletti Antonio, Corvaja Carlo

P-D24 Internal dynamics of small serine protease inhibitors from the desert locust, *Schistocerca gregaria*
Gáspári Zoltán, Szenthe Borbála, Gráf László, Perczel András

P-D25 Study of chromatin peptides structure by mass/mass spectroscopy
Gianfranceschi Gian L., Giavarini Flavio, Bruni Renato, Calzuola Isabella, De Angelis Leonardo, Koch Giorgio, Marsili Valeria

P-D26 Modeling local conformational effects on the reactivity of widespread basic cleavage sites
Improta Roberto, Esposito Luciana, Oliva Romina

P-D27 Structural analysis of model dipeptides incorporating a highly constrained cyclopropane analogue of phenylalanine
Jimènez Ana I., Royo Soledad, Cativiela Carlos

P-D28 Conformation Characterization of Flexible Oligopeptides
Kalászi Adrián, Mezo Gábor, Hudecz Ferenc, Farkas Ödön

P-D29 The mechanism of signal transduction through membranes by integrins
Kessler Horst, Gottschalk K., Adams P. D., Brunger A. T., Günther R.

D2 - Structural studies, spectroscopy and molecular modelling

P-D30 ß-Depsipeptides: synthesis and stuctural studies
Mahajan Yogesh R., Senthilkumar Ramanathan, Rueping Magnus, Seebach Dieter

P-D31 Model cyclic peptides for studying the influence of ion cluster in the protein folding and stability
Majer Zsuzsa, Farkas Viktor, Kohalmi Krisztina, Vass Elemér, Vanhooren Ann, Hanssens Ignace

P-D32 Circular dichroism and conformation of oostatic peptides: carrier-like role of the C-terminal (Pro)x sequence
Malon Petr, Votavová Hana, Bennettová Blanka, Tykva Richard, Hlavácek Jan

P-D33 Synthesis and solution structure of the two peptides that represent the active -zinc containing- sites of angiotensin converting enzyme (ACE)
Manessi-Zoupa Evy, Galanis Athanassios S., Tzakos Andreas G., Spyroulias Georgios A., Troganis Anastasios N., Pairas George, Gerothanassis Ioannis P., Cordopatis Paul

P-D34 Synthetic peptides as molecular recognition probes: Recognition af a hydrophilic patch on the surface of p53 tetramerization domain
Martinell Marc, Salvatella Xavier, Vilaseca Marta, Gairí Margarida, Mateu Mauricio G., Giralt Ernest

P-D35 Mapping of the active sites of PSA modulating peptides
Närvänen Ale, Pakkala Miikka, Leinonen Jari, Wu Ping, Stenman Ulf-Håkan, Vepsäläinen Jouko

P-D36 Conformational studies of leptin fragments by circular dichroism
Oliveira Jr Vani X., M. Miranda Maria T., Bittencourt Jackson C., Elias Carol F., Miranda Antonio

P-D37 Structure analysis of cyclo[Ala-b-Ala-Pro-b-Ala] by NMR spectroscopy and *ab initio* computing
Pálfi Villo K., Gáspári Zoltán, Vass Elemér, Perczel András

P-D38 Location of copper(II) within the prion PrP(106-126) fragment and influence of the metal ion on the conformational change of this peptide
Pappalardo Giuseppe, Campagna Tiziana, Grasso Giulia, Impellizzeri Giuseppe, Rizzarelli Enrico

P-D39 Conformational properties of c_3Val, a C^a-tetrasubstituted, $C^ß$-branched, C^{a_i} ? C^{a_i} cyclized, chiral a-amino acid
Peggion Cristina, Formaggio Fernando, Crisma Marco, Toniolo Claudio, Jiménez Ana I., Cativiela Carlos, Kaptein Bernard, Broxterman Quirinus B., Saviano Michele, Benedetti Ettore

P-D40 Conformational Studies of a Bombolitin III-Derived Peptide Mimicking the Four-Helix Bundle Structural Motif
Peggion Evaristo, Schievano Elisabetta, Mammi Stefano, Ciardella Marta, Monticelli Luca

P-D41 Conformational bias induced by the OBg C-protecting group
Ruzza Paolo, Calderan Andrea, Elardo Stefano, Borin Gianfranco, Toniolo Claudio, Crisma Marco

P-D42 Ac-?Xaa-NMe_2: conservative conformation
Rzeszotarska Barbara, Siodlak Dawid, Broda Malgorzata, Kolodziejczyk Edyta, Dybala Izabela, Koziol Anna

P-D43 The crystal structure of a D-Lysine-based chiral PNA-DNA duplex
Menchise Valeria, De Simone Giuseppina, Corradini R., Sforza S., Sorrentino Nicola, Capasso Domenica, Romanelli Alessandra, Saviano Michele, Pedone Carlo

P-D44 Evaluation of structural features of a designed ß-turn mimic by incorporation into a cyclic RGD peptide
Sukopp Martin, Marinelli Luciana, Heller Markus, Brandl Trixi, Hoffmann Reinhard W., Kessler Horst

P-D45 Synthesis and characterization of the transmembrane peptide region of the sodium pump ? subunit: a link between its oligomeric state and renal hypomagnesaemia
Therien Alex G., Deber Charles M.

P-D46 Structural Features of Linear Peptides in Solution Carrying New Fluorescent Analogues of Tryptophan
Venanzi Mariano, Palleschi Antonio, Stella Lorenzo, Valeri Alessandro, Formaggio Fernando, Toniolo Claudio, Moroder Luis, Pispisa Basilio

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P-D47 Binding modes of histidine in copper(II) complexes of oligopeptides - a circular dichroism study
Vosekalna Ilze, Gyurcsik Bela, Larsen Erik

P-D48 Profiling protein expression hanges in monocytic U937 cells exposed to PMA using two-dimensional LC-MS/MS on a hybrid quadrupole orthogonal acceleration time-of flight (Q-Tof) mass spectrometer.
Wallace Alistair, Millar Alan, Brunet Sylvain, Hughes Chris, Dominguez Michel, Lanoix Joel, Bonneil E., Thibault Pierre, Langridge James

P-D49 Urotensin-II: Spectroscopic and Molecular Dynamic Investigation in Several Environmental Conditions
Zampelli Enrico, Carotenuto Alfonso, Rovero Paolo, Grieco Paolo, Campiglia Pietro, Novellino Ettore

P-D50 A comparison of the own and Root-Bernstein's hypotheses on the peptide complementarity
Zbozien-Pacamaj Renata

P-D51 Role of the 1-16 N-terminal region in the transconformation involved in Alzheimer's disease
Zirah Séverine, Kozin Sergey, Blond Alain, Cheminant Michel, Debey Pascale, Rebuffat Sylvie

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P-D52 Effects of alanine analogs of Mast Cell Degranulating (MCD) peptide on mast cell activity and binding
Buku Angeliki, Mendlowitz Milton, Price Joseph A.

P-D53 Studies On A Synthetic Analog Of The TM V Segment Of The mt1 Melatonin Receptor
Calderan Andrea, Ruzza Paolo, Biondi Barbara, Scolaro Barbara, Mammi Stefano, Borin Gianfranco

P-D54 Modelling of protein P2 from *Haemophilus influenzae*: the role of surface exposed loops on MEK1/MEK2/MAPK cascade activation
Galdiero Stefania, Capasso Domenica, Vitiello Mariateresa, D'Isanto Marina, Di Niola Erminia, Pedone Carlo, Galdiero Massimiliano

P-D55 Analysis of functional domains in glycoprotein H of Herpes Simplex Virus type 1
Galdiero Stefania, Di Niola Erminia, Peluso Lucia, Galdiero Marilena, Capasso Domenica, Benedetti Ettore, Pedone Carlo, Galdiero Massimiliano

P-D56 Membrane Interactions of the Internal Fusion Peptide of Ebola Glycoprotein
Gómara María J., Mingarro Ismael, Goñi Félix M., Mora Puig, Muga Arturo, Pérez-Payá Enrique, Suárez Tatiana, Nieva José L.

P-D57 Possible Explanation of the Role of the Water Medium in the Mechanisms of Action of Peptides in Low and Super-Low Doses
Grigoriev Evgueny I., Khavinson Vladimir K., Kochnev Igor N., Grigoriev Alexey E., Kudriavtseva Tatiana A.

P-D58 Synthesis of SXWS peptides and their chemotactic activity on a ciliated protozoan *tetrahymena pyriformis*
Illyes Eszter, Lang Orsolya, Kohidai Laszlo, Sebestyen Ferenc, Hudecz Ferenc

P-D59 Inhibition of cellular signal transduction with cell-permeable peptides: correlation of inhibitory activity with intracellular proteolytic stability
Köhler Karsten, Fischer Rainer, Waizenegger Thomas, Brock Roland

D3 - Peptide interactions with membranes and in signal transduction

P-D60 Contrasting, species-dependent functional activity of mammalian cholecystokinin (CCK) peptides and drosulfakinin-1 at the CCK-A, CCK-B and *Drosophila* sulfakinin receptor type 1 (DSK-R1)
Kubiak Teresa M., Larsen Martha J., Burton Katherine J., Lowery David E.

P-D61 Peptides isolated from wheat bud chromatin inhibit cell cycle progression of HeLa cells
Mancinelli Loretta, De Angelis Paula, Cruciani Anna F., Gianfranceschi Gian L., Elgjo Kjell

P-D62 Effects of ß-amyloid peptide and its functional antagonists on G-protein activation
Molnar Zsolt, Zarandi Marta, Benyhe Sandor, Penke Botond, Lengyel Imre

P-D63 Promotion of Growth of Colonic Cancer Cells by Carboxymethyl Gastrin through a Non-CCK2 Receptor
Murphy Richard F., Budai Barna, Ahmed Shawn, Lovas Sandor

P-D64 Delta Sleep Inducing Peptide (DSIP) and Cell Membranes
Prudchenko Igor A., Mikhaleva Inessa I., Richireva Galina T., Golubev Igor N.

P-D65 Conformational Studies Of Chimeric Cell Penetrating Peptides In Membrane Mimicking Environment
Ruzza Paolo, Elardo Stefano, Calderan Andrea, Donella-Deana Arianna, Crisma Marco, Brunati Anna M., Massimino Maria L., Pinna Lorenzo A., Borin Gianfranco

P-D66 Orientation of GPCR fragments (loops and transmembrane helices) in lipid membranes
Schreier Shirley, Shida Claudio S., Salinas Roberto K., Grijalba Mercedes T., Paiva Antonio C., Nakaie Clovis R.

P-D67 Neurotoxicity of aggregating peptides (amyloids, amylin and prion sequences) in MTT assay
Soos Katalin, Datki Zsolt, Zarandi Marta, Toth Gabor K., Penke Botond

P-D68 Structural Studies of Glycopeptide-Membrane Association
Stella Lorenzo, Venanzi Mariano, Palleschi Antonio, Canini Antonella, Carafa Maria, Zanotti Giancarlo, Pispisa Basilio

P-D69 Structural requirements for cellular uptake of cathelicidin peptides by mammalian cells
Tomasinsig Linda, Giabbai Barbara, Circo Raffaella, Sgorbissa Andrea, Skerlavaj Barbara, Zanetti Margherita

P-D70 Neurotrophic action of ACTH4-7 analog SEMAKS on regeneration of peripheral axones tested *in vivo* and *in vitro*
Vardya Irina V., Balezina Olga P., Popov Sergey V.

P-D71 Refinement of the experimentally-based model of parathyroid hormone-receptor interactions by photoaffinity-crosslinking of residues in the mid-region of PTH(1-34)
Wittelsberger Angela, Corich Martina, Barazza Alessandra, Yacobi Rinat, Mierke Dale F., Rosenblatt Michael, Alexander Joseph M., Chorev Michael

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P-D72 Synthesis of trimeric collagen peptides with artificial and natural cystine knots
Barth Dirk, Musiol Hans-Juergen, Renner Christian, Frank Sabine, Engel Juergen, Moroder Luis

P-D73 X-Ray study of the glutaredoxin from *Poplar trichorpa* in complex with glutathione or peroxiredoxin
D'Ambrosio Katia, Corbier Catherine, Rouhier Nicolas, Jacquot Jean-Pierre, Benedetti Ettore, Aubry André

P-D74 Hydrophobic clusters control protein folding and stability
Hodges Robert S., Mant Colin T., Kwok Stanley C.

D4 - Peptide and protein folding

P-D75 Conformational Stability of A Uniquely-Folded 20-Residue Miniprotein
Nikiforovich Gregory V., Andersen Niels H., Fesinmeyer R. M.

P-D76 Conformational Model for Early Stages of ß-Protein Folding
Nikiforovich Gregory V., Frieden Carl

P-D77 Monitoring of High Pressure Protein Denaturation by Hydrogen/Deuterium Exchange and Electrospray Ionzation Mass Spectrometry
Petry Inga, Szewczuk Zbigniew

P-D78 Crystal State Structure of a Linear Trichogin Dodecapeptide Analogue
Saviano Michele, Improta Roberto, Benedetti Ettore, Carrozzini Benedetta, Cascarano Giovanni L., Toniolo Claudio, Crisma Marco

D5 - Peptides in drug design

P-D79 Peptide 4-imidazolidinones as drug delivery systems
Araújo Maria J., Castanheiro Raquel, Ferraz Ricardo, Pinto Hugo, Moreira Rui, Gomes Paula

P-D80 A new lipophilic captopril analogue
Cavelier Florine, Damien Marchand Damien, Galleyrand Jean-Claude, Martinez Jean

P-D81 Enhanced antitumor activity of bovine lactoferricin derivatives by introducing non-coded aromatic amino acids
Eliassen Liv T., Haug Bengt E., Berge Gerd, Rekdal Øystein

P-D82 Structure-Activity Relationship of Human Urotensin II
Labarrère Patricia, Chatenet David, Marionneau Céline, Leprince Jérôme, Chavanieu Alain, Scalbert Elizabeth, Pfeiffer Bruno, Renard Pierre, Pacaud Pierre, Vaudry Hubert, Calas Bernard

P-D83 Cyclic Peptides With Recognition Epitope of VCAM-1
Malesevic Miroslav, Zimmermann Dunja, Strijowski Ulf, Sewald Norbert

P-D84 Novel RGD-containing platelet GpIIb/IIIa receptor antagonists: design and synthesis
Mondeshki Mihail L., Vezenkov Ljubomir T.

P-D85 Inhibiting Viral Proteases: Challenges And Opportunities Of Induced Fit
Pessi Antonello, Ingallinella Paolo, Fattori Daniela, Cicero Daniel, Bazzo Renzo, Dal Piaz Fabrizio, Pucci Piero, Bianchi Elisabetta

P-D86 Design of Novel Dipeptides with Anxiolytic Activity on the Base of CCK-4
Philippova Ekaterina, Gudasheva Tatiana, Briling Vera, Konstantinopolskiy Mark, Kolik Larisa, Seredenin Sergei

P-D87 Modern Peptide Synthesis of intelligent Gadolinium-Delivery Systems enables Molecular Imaging Methods in Tumor Cells
Pipkorn Rüdiger, Waldeck Waldemar, Heckl Stefan, Debus Jürgen, Jenne Jürgen, Rastert Ralf, van Kaick Gerhard, Braun Klaus

P-D88 Preferred conformation and membrane activity of the LP237-F lipopeptaibols
Rainaldi Mario, Moretto Alessandro, Peggion Cristina, Formaggio Fernando, Mammi Stefano, Peggion Evaristo, Gálvez José A., Díaz-de-Villegas María D., Cativiela Carlos, Toniolo Claudio

P-D89 Htc Residue As Useful Tool In The Synthesis Of Selective Tyrosine Kinase Substrates
Ruzza Paolo, Calderan Andrea, Donella-Deana Arianna, Osler Alessio, Biondi Barbara, Brunati Anna M., Pinna Lorenzo A., Borin Gianfranco

P-D90 Design of a novel fluorogenic peptide substrate for aggrecanase activity
Singh Satendra, Pennington Michael W., Westling Jennifer, Botsko Steve, Sandy John

D5 - Peptides in drug design

P-D91 Influence of polymer polypeptides and IL-6R peptides on chemotaxis of the macrophage-like cell line J774
Szabó Rita, Illyés Eszter, Mezô Gábor, Schiess Nicoline, Kôhidai László, Hudecz Ferenc

P-D92 Evaluation of the GPIIb/IIIa regions participating in the platelets aggregation
Tsikaris Vassilios, Sakarellos-Daitsiotis Maria, Biris Nikolaos, Abatzis Morfis, Tenente Eftichia, Stathopoulos Panagiotis, Tambaki Afroditi, Mitsios John, Tsoukatos Demokritos, Tselepis Alexandros, Elisaf Moses, Soteriadou Ketty, Sideris Dimitrios, Sakarellos Constantinos

P-D93 Peptide analogues of the GPIIb 313-332 region of the GPIIb/IIIa receptor: design, synthesis and antithrombotic activity
Tsikaris Vassilios, Abatzis Morfis, Biris Nikolaos, Tambaki Afroditi, Mitsios John, Sakarellos-Daitsiotis Maria, Tsoukatos Demokritos, Tselepis Alexandros, Elisaf Moses, Soteriadou Ketty, Sideris Dimitrios, Sakarellos Constantinos

P-D94 Cyclic RGD peptides influence the interaction between the integrin avß1 and fibronectin
Zimmermann Dunja, Müller Annett, Malesevic Miroslav, Stembera Katherina, Sewald Norbert

D6 - The structure of peptides and their interaction with biomolecules

P-D95 Virtual high throughput screening using LigandFit as an accurate and very fast tool for docking, scoring, and ranking
Lim-Wilby Marguerita, Jiang Jeff, Waldman Marvin, Venkatachalam C. M.

P-D96 The bioactivity of sugar - amino acid / peptide interaction products
El-Massry Khaled F., El-Ghorab A. H., Farouk A.

Topic E

E1 - Peptide delivery approaches

E2 - Peptide libraries and molecular diversity

E3 - Peptides in diagnostics, pharmacology and biotechnology

E4 - Role of peptides in genomics and proteomics

E1 - Peptide delivery approaches

P-E1 Cell Penetration by primary amphipathic peptides: A) structural properties and interactions with lipids
Deshayes Sebastien, Chaloin Laurent, Le Grimellec Christian, Heitz Frederic, Van Mau Nicole

P-E2 Cell penetration by primary amphipathic peptides : B) Targeting subcellular compartments.
Chaloin Laurent, Deshayes Sébastien, Van Mau Nicole, Heitz Frédéric

P-E3 Development of a new derivative of vasoactive intestinal peptide and its novel administration system, dry powder inhalation
Endo Kosuke, Onoue Satomi, Amikawa Satoko, Matsumoto Asami, Waki Yoshihiro, Yamanaka Masaya, Kondo Masaaki, Hamanaka Kazuya, Suitani Yoshihiko, Kashimoto Kazuhisa

P-E4 Cellular Internalisation of Calcitonin derived Carrier Peptides- Investigation of Mechanism and Applications
Krauss Ulrike, Beck-Sickinger Annette G.

P-E5 Enhanced Intracellular PNA concentration and Antisense Activity mediated by a Cell-penetrating Amphipathic Model Peptide
Oehlke Johannes, Wallukat Gerd, Ehrlich Angelika, Berger Hartmut, Bienert Michael

P-E6 A Novel Immunoadjuvant Carrier System for Synthetic Vaccines
Schubert Aniko H., Olive Colleen, Good Michael F., Toth Istvan

P-E7 Efficient Intracellular Delivery of Proteins and Low Molecular Weight Substances via Polyoma Virus-Like Particles (PVLP)
Stark Christoph, Abbing Andrea, Blaschke Ulrich, Dirnecker Diemuth, Grein Swen, Kretschmar Michael, Thies Michael, Weigand Martina, Reiser Christian, Bertling Wolf

E2 - Peptide libraries and molecular diversity

P-E8 Specificity of PDZ interaction investigated by NMR spectroscopy and synthetic peptide libraries
Boisguerin Prisca, Volkmer-Engert Rudolf, Schneider-Mergener Jens, Oschkinat Hartmut

P-E9 Peptide chemistry: the source of combinatorial methods
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P-E10 Automated, parallel synthesis of a guanidinio-carbonyl pyrrole receptor library for stereo-selective complexation of small peptides and amino acid carboxylates in aqueous solutions
Giovannoni Jerome, Schmuck Carsten, Heil Martin, Dechantsreiter Michael, Hackler Ulrich

P-E11 The library of p-nitrophenyl esters immobilized on celluloze membrane. Synthesis and degradation by tissue homogenates of Lewis lung carcinoma bearing mice
Kaminski Zbigniew J., Kolesinska Beata, Kinas Ryszard W., Wietrzyk Joanna, Opolski Adam

P-E12 Evolution of Puumala virus neutralization site mimic
Lankinen Hilkka, Heiskanen Tuomas, Hepojoki Jussi, Vaheri Antti

P-E13 Binding specificity of 42 synthetic WW domains
Otte Livia, Oschkinat Hartmut, Wiedemann Urs, Volkmer-Engert Rudolf, Schneider-Mergener Jens

P-E14 Modification of secondary structures by combinatorial chemistry: a new solid phase based screening test for protein folding detection
Pastor Jose J., Fernández Irene, Rabanal Francesc, Giralt Ernest

P-E15 Investigation of heterospecific coiled coil interactions by means of synthetic peptide libraries
Portwich Michael, Kramer Achim, Otte Livia, Töpert Florian, Knaute Tobias, Volkmer-Engert Rudolf, Schneider-Mergener Jens

E2 - Peptide libraries and molecular diversity

P-E16 Selection of Peptides Homing to Angiogenic Vessels and the Application of the Novel Peptides to the Anti-neovascular Therapy
Taki Takao, Asai Tomohiro, Watanabe Koh, Kuromi Koichi, Kurohane Kohta, Ogino Koichi, Ishikawa Dai, Tanaka Michinori, Tsukada Hideo, Nakayama Jun, Oku Naoto

P-E17 A Constrained a-Helical Library
Tripet Brian P., Hodges Robert S.

P-E18 Solid-phase Tryptophan Modification: Use of a Rational Combinatorial Chemistry Approach to Develop New Analgesic Drugs
Zaccaro Laura, García-López M.Teresa, González Muñiz Rosario, Royo Miriam, Albericio Fernando

E3 - Peptides in diagnostics, pharmacology and biotechnology

P-E19 Comparison of fragment condensation and stepwise approaches to the synthesis of synaptobrevin peptides
Burov Sergey V., Pavlotzkaya Anna V., Dorosh Marina Y., Shkarubskaya Zoya P., Salehi Mohmmad-Bagher, Tavallae Mahmoud, Mousavi Seyyed Jafar, Ebrahimi Firoz

P-E20 Angiotensin I-converting enzyme inhibitory properties of an equine casein tryptic digest and characterisation of some active peptides
Campagna Sylvie, Egito Antonio Silvio, Haussard Murielle, Poirson Chantal, Girardet Jean-Michel, Miclo Laurent, Gaillard Jean-Luc

P-E21 Preparation of a radiolabeled peptide-PNA conjugate for imaging oncogene expression
Gallazzi Fabio, Wang Yi, Shenoy Nalini, Z. Lever Susan Z., Lewis Michael R., Jia Fang

P-E22 Synthetic peptides based biosensors in the inmunodiagnosis of hepatitis G infection
Haro Isabel, Rojo Núria, Alsina M. Asunción, Ercilla Guadalupe

P-E23 A point-of-care test using a heptapeptide IgG epitope for diagnosis human parvovirus B19
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P-E24 Development and preliminary evaluation of immunoglobulins Y against thymosin peptides
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P-E25 Introduction of Lanthanide(III) Chelates to Oligopeptides on Solid Phase
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P-E26 Long acting derivatives of the GLP-1 agonist exhibit high potency and extended pharmacokinetics when bioconjugated to albumin *in vivo*
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P-E27 Proteomics scale protein interaction studies facilitated by high throughput synthesis of phoshphopeptides
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P-E28 High throughput synthesis of small protein domains
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P-E29 Combining combinatorial chemistry and affinity chromatography protocols for systematically probing protein-ligand interactions: application to the development of highly selective phosphinic inhibitors of human betaine: homocysteine S-methyltransferase
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P-E30 Mechanism-based detection and activity-profiling of protein kinases
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P-E31 Peptides as Tools for the Discovery and Activity-Profiling of Matrix Metalloproteinases
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P-E32 Towards the delivery of double stranded nucleic acids: synthesis and biological studies
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P-E33 Design of inhibitors of plasmepsins based on combinatorial specificity studies
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