

YOUNG INVESTIGATORS' MINI-SYMPOSIUM 1

		Abstract No
	Chairpersons: A.M. Papini , Italy J. Hlavacek , Czech Republic	
13:00	AN EFFICIENT, DIRECT METHOD FOR SYNTHESIS OF DITHIASUCCINOYL (DTS) AMINES M.J. Barany , R.P. Hammer, R.B. Merrifield, G. Barany Chemistry Department, University of Minnesota, Minneapolis, MN, Chemistry Department, Louisiana State University, Baton Rouge, LA, Chemistry Department, Rockefeller University, New York, NY, USA	OR1
13:15	SOLID PHASE PEPTIDE SYNTHESIS ON MACROPOROUS METHACRYLATE MONOLITHS E.G. Vlahk , T.B. Tennikova Institute of Macromolecular Compounds, Russian Academy of Sciences, St. Petersburg, Russia	OR2
13:30	EFFICIENT SYNTHESIS OF DIFFICULT SEQUENCE-CONTAINING PEPTIDES THROUGH O-ACYL ISOPEPTIDES: APPLICATION TO THE SYNTHESIS OF ALZHEIMER'S DISEASE-RELATED PEPTIDE, A β 1-42 Y. Sohma , M. Sasaki, Y. Hayashi, T. Kimura, Y. Kiso Department of Medicinal Chemistry, Center for Frontier Research In Medicinal Science, Kyoto Pharmaceutical University, Yamashina-Ku, Kyoto, Japan	OR3
13:45	A ONE-POT TOTAL SYNTHESIS OF CRAMBIN D. Bang , S.B.H. Kent Institute for Biophysical Dynamics, Department of Biochemistry and Molecular Biology, Department of Chemistry, Chicago IL, USA	OR4
14:00	SEQUENCE-STRUCTURE-ACTIVITY RELATIONSHIPS FOR THE CYCLOTIDE KALATA B1 S.M. Simonsen , D.J. Craik Institute for Molecular Bioscience, University of Queensland, Brisbane, Australia	OR5
14:15	INTEGRIN ANTAGONISTS: DESIGN, SYNTHESIS AND BIOLOGICAL EVALUATION K. Nadrah , M. Anderluh, M. Sollner Dolenc Faculty Of pharmacy, Ljubljana, Slovenia	OR6
14:30	NOVEL WATER-SOLUBLE PRODRUGS OF CYCLOSPORIN ANALOGUES A.R. Hamel , O. Turpin, A. Carrupt, M. Mutter Institute of Chemical Sciences and Engineering (ISIC), Lausanne, Switzerland	OR7
14:45	EVOLUTIONARY COMBINATORIAL CHEMISTRY, A NOVEL TOOL FOR SAR STUDIES ON PEPTIDE TRANSPORT ACROSS THE BLOOD-BRAIN BARRIER. 2. DESIGN, SYNTHESIS AND EVALUATION OF THE FIRST PEPTIDE GENERATION M. Teixidó , I. Belda, S. González, M. Fabre, S. Vilaró, J.M. Garrell, X. Roselló, F. Albericio, E. Giralt Biomedical Research Institute, Advancell, Barcelona Science Park, Universitat de Barcelona, Department Sistemes Intel. Ligents, E. Eng. La Salle, University Ramon Llull, Barcelona, Universitat Politècnica de Catalunya, Department Química Orgànica, Universitat de Barcelona, Barcelona, Spain	OR8
15:00	METAL BACKBONE CYCLIZATION: NOVEL 99mTC LABELED GnRH ANALOG AS POTENTIAL SPECT MOLECULAR IMAGING AGENT IN CANCER Y. Barda , N. Cohen, V. Lev, N. Ben-Aroya, Y. Koch, E. Mishani, M. Fridkin, C. Gilon Department of Organic Chemistry, Department of Medical Biophysics and Nuclear Medicine, The Hebrew University of Jerusalem, Hadassah Hospital, Jerusalem, Department of Chemistry, Department of Neurobiology, The Weizmann Institute of Science, Rehovot, Israel	OR9
15:15	COFFEE BREAK	

YOUNG INVESTIGATORS' MINI-SYMPOSIUM 2

	Chairpersons: M. Amblard , France I. Smith , Australia	Abstract No
15:45	NOVEL NEUROPEPTIDES WITH IRON-CHELATING MOIETY AS POTENTIAL AGENTS FOR CONTROL OF NEURODEGENERATIVE DISEASES H.L. Zheng , M.B.H. Youdim, L.M. Weiner, M. Fridkin Department of Organic Chemistry, The Weizmann Institute of Science, Rehovot, Eve Topf and USA National Parkinson Foundation Centers of Excellence for Neurodegenerative Diseases and Department of Pharmacology, Technion - Faculty of Medicine, Haifa, Israel	OR10
16:00	FROM OMEGA-CONOTOXINS TO MACROCYCLE MIMETICS C.I. Schroeder , K.J. Nielsen, D.A. Adams, M. Loughnan, L. Thomas, G.T. Bourne, M.L. Smythe, P.F. Alewood, D.J. Craik, R.J. Lewis Institute for Molecular Bioscience, University of Queensland, St. Lucia, Australia	OR11
16:15	NOVEL MACROCYCLIC LIBRARIES WITH SPATIAL DIVERSITY (SIBS): APPLICATION FOR THE DISCOVERY OF IGF-1R INHIBITOR N. Qvit , S. Gazal, A. Feldstein, S. Meoshar, A. Peretzman-Shemer, G. Blum, M.Y. Niv, H. Reuveni, C. Gilon Department of Organic Chemistry, The Hebrew University of Jerusalem, Keryx Biopharmaceuticals Ltd., Har Hozvim, Jerusalem, Israel	OR12
16:30	INTERACTIONS OF HANTAVIRUS GENE PRODUCTS WITH ANTI-APOPTOTIC PROTEINS T. Strandin , X.D. Li, J. Hepojoki, A. Vaheri, H. Lankinen Department of Virology/Peptide and Protein Laboratory, Department of Virology, Haartman Institute/University of Helsinki, Finland	OR13
16:45	IMMUNOGENICITY OF HIGHLY CONSERVED FRAGMENTS OF HEPATITIS C VIRUS ENVELOPE PROTEINS E1 AND E2 T.E. Kuraeva , L.V. Olenina, T.I. Kuzmina, E.Y.U. Alyoshina, E.K. Kolesanova, A.I. Archakov V.N. Orekhovich Institute of Biomedical Chemistry RAMS, Institut of Gene Biology, Moscow, Russia	OR14
17:00	THE MODE OF ACTION OF ENDONUCLEASE-VIII AS REVEALED FROM ITS STRUCTURE WITH AND WITHOUT DNA SUBSTRATE G. Golan , D.O. Zharkov, R. Gilboa, H. Feinberg, A.S. Fernandes, S.E. Gerchman, J.H. Kycia, A.P. Grollman, G. Shoham Department of Inorganic Chemistry, The Hebrew University of Jerusalem, Israel, Institute of Chemical Biology and Fundamental Medicine, Siberian Division of Russian Academy of Sciences, Novosibirsk, Russia, Laboratory of Chemical Biology, Department of Pharmacological Sciences, State University of New York at Stony Brook, Stony Brook NY, Biology Department, Brookhaven National Laboratory, Upton NY, USA	OR15
17:15	FROM FROGS TO FARNESYLATION: BIOPHYSICAL PERSPECTIVES ON HOW PEPTIDES INTERACT WITH MEMBRANES A.C. Rowat , J.R. Henriksen, J.H. Ipsen, K.J. Jensen MEMPHYS Centre for Biomembrane Physics, Department of Physics, University of Southern Denmark, Odense, Department of Chemistry, Royal Veterinary and Agricultural University, Frederiksberg, Denmark	OR16
17:30	BIOPHYSICAL STUDIES ON THE INHIBITION OF β -AMYLOID AND THE PRION PROTEIN AGGREGATION D. Grillo-Bosch , M. Cruz, F. Rabanal, E. Giralt Institut de Recerca Biomèdica de Barcelona, Parc Científic de Barcelona-UB, Departament de Química Orgànica, Universitat de Barcelona, Spain	OR17
17:45	COMPARISON OF DISTANCE GEOMETRY AND MOLECULAR DYNAMICS FOR CALCULATION OF PEPTIDE STRUCTURES FROM EXPERIMENTAL NMR DATA A.G. Milbradt , M. Fuhrmans, C. Renner Bioorganische Chemie, Max-Planck Institut Für Biochemie, Martinsried, Germany	OR18

Sunday, September 5, 2004

18:30 - 20:30

Hall A

OPENING CEREMONY

Chairpersons: **J. Martinez**, France
M. Flegel, Czech Republic
M. Fridkin, Israel
C. Gilon, Israel
J. Slaninova, Czech Republic

18:30 OPENING REMARKS

18:50 LEONIDAS ZERVAS AWARD
SYNTHETIC LIPOPEPTIDES: A VIABLE APPROACH FOR THE THERAPEUTIC VACCINES OF THE
FUTURE?
H.S. Gras-Masse
Faculty of Biological and Pharmaceutical Sciences, Lille, France

19:30 JOSEF RUDINGER AWARD
DISULFIDES IN PEPTIDES AND PROTEINS A PERSONAL CHALLENGE FROM PAST TO PRESENT
L. Moroder
Max-Planck-Institut Für Biochemie, Martinsried, Germany

20:10 WELCOME RECEPTION

**SESSION 1:
HOUBEN-WEYL GOODMAN MEMORIAL SESSION**

Chairpersons: **L. Moroder**, Germany
C. Toniolo, Italy

Abstract No

08:30	MURRAY GOODMAN, TEACHER, MENTOR, FRIEND F. Naider Department of Chemistry, College of Staten Island, CUNY, Staten Island, New York NY, USA	
08:50	BRIDGES IN PEPTIDES: SEMISYNTHETIC PATHWAYS AND STRUCTURAL/BIOLOGICAL CONSEQUENCES D. Brandenburg Adecon, Reichelsheim, Germany	L01
09:20	BRIDGES IN PEPTIDES AND SMALL PROTEINS: CONSTRUCTION BY CHEMICAL SYNTHESIS G. Barany Department of Chemistry, University of Minnesota, Minneapolis MN, USA	L02
09:50	MOLECULAR DESIGN OF PEPTIDES THAT CONTAIN 5'-AMINO-2,2'-BIPYRIDINE-5-CARBOXYLIC ACID AS AN UNNATURAL AMINO ACID: MODEL STUDIES ON PHOTO-FUNCTION AND STEREOCHEMISTRY OF THE METAL COMPLEXES H. Ishida , M. Kyakuno, S. Minami, S. Oishi Kitasato University, Sagamihara, Japan	L03
10:10	CHEMICAL SYNTHESIS OF ELECTRON TRANSFER PROTEINS WITH FLAVIN, QUINONE AND HEME W-W. Li , W. Haehnel Institute of Biology II/Biochemistry, Freiburg, Germany	L04
10:30	A NEW APPROACH FOR PROLONGING THE ACTIONS OF PEPTIDES, PROTEINS AND LOW MOLECULAR WEIGHT DRUGS IN VIVO Y. Shechter , E. Gershonov, M. Mironchik, H. Tsubery, M. Fridkin Biological Chemistry, Ological Chemistry, Ological and Organic Chemistry, Organic Chemistry, Weizmann Institute, Rehovot, Israel	L05
10:50	COFFEE BREAK	

**SESSION 2 :
FOLDING AND AGGREGATION**

		Abstract No
	Chairpersons: Y. Kiso , Japan A. Beck-Sickinger , Germany	
11:15	PROTEIN OLIGOMERIZATION AND AMYLOID FIBRIL FORMATION THROUGH DOMAIN SWAPPING Z. Grzonka , K. Stachowiak, R. Sosnowska, R. Janowski, M. Jaskólski, A. Grubb Department of Organic Chemistry, University of Gdansk, Department of Crystallography, A. Mickiewicz University, Poznan, Poland, Department of Clinical Chemistry, University Hospital, Lund, Sweden	L06
11:45	SWITCH-PEPTIDES: ISN- INDUCTION OF CONFORMATIONAL TRANSITIONS RELEVANT IN DEGENERATIVE DISEASES C. Arunan, B. Mandal, S. Dos Santos, L. Patiny, G. Tuchscherer, M. Mutter Swiss Federal Institute of Technology (EPFL), Institute of Chemical Sciences and Engineering (ISIC), Lausanne, Switzerland	L07
12:05	UNUSUAL BEHAVIOUR OF A PEPTIDE SEGMENT FROM THE PRIMARY STRUCTURE OF HUMAN PRION PROTEIN N. Poklar Ulrich , M. Skrt, I. Milek, P. Veranic, V. Galvani, M. Cernilec, K. Pretnar Hartman, V. Curin Serbec Biotechnical Faculty, University of Ljubljana, Medical School, Blood Transfusion Center of Slovenia, Ljubljana, Slovenia	L08
12:25	A DESIGNED HEXAPEPTIDE INHIBITOR OF AMYLOID FORMATION AND CYTOTOXICITY OF ISLET AMYLOID POLYPEPTIDE (IAPP) A. Kapurniotu , M. Tatarek-Nossol, A. Schmauder, K. Tenidis Laboratory of Medicinal and Bioorganic Chemistry, Institute of Biochemistry of The University Hospital of The RWTH Aachen, Germany	L09
12:45	LUNCH BREAK	

**SESSION 3 :
SYNTHESIS AND INDUSTRIAL PRODUCTION**

		Abstract No
	Chairpersons: M. Flegel , Czech Republic A. Loffet , France	
14:00	LARGE-SCALE PRODUCTION OF PEPTIDES -- THE SUCCESS STORY M.S. Verlander PolyPeptide Laboratories Incorporated, Torrance CA, USA	L10
14:30	'FUZEON' (TM), PEPTIDE PRODUCTION AT THE TON SCALE, SYNTHETIC STRATEGY, DEVELOPMENT AND MANUFACTURING CHALLENGES G.W. Erickson Boulder Technology Center, Roche Colorado, Boulder CO, USA	L11
15:00	INVERSE STRATEGY OF AMINO-ACID RESIDUE ANCHORING ON SOLID SUPPORT AFFORDS NEW CHEMISTRY - FIRST EXAMPLES S. Cantel, J. Martinez, J.A. Fehrentz Laboratoire des Aminoacides, Peptides et Protéines (LAPP), UMR 5810 CNRS Universités Montpellier I et II, Faculté de Pharmacie, Montpellier, France	L12
15:20	ENGINEERING PROTEASES AS COUPLING REAGENTS IN PEPTIDE SYNTHESIS N. Wehofsky, K. Rall, S. Schmidt, A. Pöhlmann, S. Morawietz, A. Pech, S. Klussmann, H. Komeda, Y. Asano, F. Bordusa Max-Planck Research Unit for Enzymology of Protein Folding, Halle/S, NOXXON Pharma AG, Berlin, Germany, Biotechnology Research Center, Toyama Prefectural University, Kurokawa, Japan	L13
15:40	INDUSTRIAL SYNTHESIS OF DI- AND SHORT OLIGOPEPTIDES AT DSM P.J.L.M. Quaedflieg , Q.B. Broxterman, T. Sonke DSM Research, Life Sciences - Advanced Synthesis, Catalysis and Development, Geleen, The Netherlands	L14
16:00	APPROACHES TO PHARMACEUTICAL PEPTIDE DELIVERY S. Zalipsky ALZA Corporation, Mountain View CA, USA	L15
16:20	COFFEE BREAK AND POSTER SESSION	

DISCUSSION OF TOPICS:

SYNTHETIC APPROACHES TO BRIDGES IN PEPTIDES
BIOLOGICAL CONSEQUENCES OF BRIDGES IN PEPTIDES
INDUSTRIAL PRODUCTION OF PEPTIDES AND NOVEL SYNTHETIC APP
PEPTIDE LIBRARIES: PAST, PRESENT AND FUTURE
NOVEL PEPTIDES FROM VARIOUS SOURCES

Coffee will be served from 16:20 to 16:50

**SESSION 4 :
IMMUNOPEPTIDES / LIPOPEPTIDES**

	Chairpersons: F. Hudecz , Hungary M. Sela , Israel	Abstract No
08:30	THE THIRD WAVE OF NATURAL PEPTIDES: FROM HORMONES AND ANTIBIOTICS TO PEPTIDE POOLS V.T. Ivanov , E.Y.U. Blishchenko, A.A. Karelin Group of Regulatory Peptides, Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, Moscow, Russia	L16
09:00	APOLIPOPROTEIN A-I AMPHIPATHIC α -HELICAL PEPTIDE MODELS: EFFECT ON LDL OXIDATION IN VITRO M. Sakarellos-Daitsiotis , C.H. Alexopoulos, A. Tambaki, K. Harilogis, A. Tselepis, C. Sakarellos Department of Chemistry, University of Ioannina, Ioannina, Greece	L17
09:20	SPECIFIC AND LONG LASTING IMMUNE RESPONSE TO SOLUBLE AMYLOID OLIGOMERS MIMICS: ARE WE CLOSER TO THE SECOND GENERATION OF VACCINES AGAINST DEGENERATIVE DISEASES? R. Kaye , C. Glabe UCI, Molecular Biology and Biochemistry, Irvine CA, USA	L18
09:40	MOLECULAR CHARACTERIZATION OF COVALENT TRANSGLUTAMINASE (TG2)GLIADIN PEPTIDE COMPLEXES INVOLVED IN COELIAC DISEASE G. Jung , B. Fleckenstein, S.W. Qiao, L.M. Sollid, M.R. Larsen, P. Roepstorff Institute of Organic Chemistry, University of Tuebingen, Germany, Institute of Immunology, University of Oslo, Norway, Odense, Denmark	L19
10:00	MAKING PEPTIDE VACCINES 'BETA': T CELL EPITOPES CONTAINING NOVEL AMINO ACIDS ELICIT ANTI-TUMOUR CYTOTOXICITY A.I. Webb, M.A. Dunstone, W. Chen, P. Perlmutter, A. De Kauwe, M.I. Aguilar, J. Rosjohn, A.W. Purcell Biochemistry and Molecular Biology Department, Monash University, Clayton, Ludwig Institute for Cancer Research, Heidelberg, Chemistry Department, Monash University, Clayton, Microbiology and Immunology, The University of Melbourne, Parkville, Australia	L20
10:20	COFFEE BREAK	

**SESSION 5 :
STRUCTURE ACTIVITY RELATIONSHIPS**

		Abstract No
	Chairpersons: K. Rolka , Poland J.E. Rivier , USA	
11:00	UTILIZING GENOMICS AND PROTEOMICS FOR PEPTIDE BASED DRUG DESIGN. DRUG DESIGN FOR DISEASE RECONSIDERED V.J. Hruby , R. Agnes, J. Vagner, Y.S. Lee, H. Handl, S.W. Ma, P. Davis, T. Vanderah, H.I. Yamamura, J. Lai, F. Porreca, R.J. Gillies Department of Chemistry, Department of Pharmacology, Department of Biochemistry and Molecular Biophysics, University of Arizona, Tucson AZ, USA	L21
11:30	SAR OF IMPROVED COMPOUNDS FOR TARGETED RADIOTHERAPY OF HUMAN SOLID TUMORS EXPRESSING GASTRIN RELEASING PEPTIDE RECEPTORS E. Cappelletti , L. Lattuada, E. Gianolio, S. Aime, J. Chen, K. Linder, R. Swenson, L. Lantry, T. Arunachalam, A. Nunn, M. Tweedle Chemical Development, Bracco Imaging SPA, Milano, University Of Torino, Italy, Discovery Research, Bracco Research, Princeton, NJ, USA	L22
11:50	EFFECT OF HYDROPHOBIC CHAINS ON PEPTIDE ANTIMICROBIAL AND ENDOTOXIN-NEUTRALIZING ACTIVITIES S.E. Blondelle , R. Jerala, M. Lamata, I. Moriyon, K. Brandenburg, J. Andrae, M. Porro, G. Deutsch, D. Zweytick, K. Lohner Torrey Pines Institute for Molecular Studies, San Diego CA, USA, National Institute of Chemistry, Ljubljana, Slovenia, Medical School of The University of Navarra, Pamplona, Spain, Leibniz-Center for Medicine and Biosciences, Borstel, Germany, BiosYnth Srl., Sienna, Italy, Institute for Biophysics And X-Ray Structure Research, Austrian Academy of Sciences, Graz, Austria	L23
12:10	DESIGNED SELF-ASSEMBLING PEPTIDES FOR STRUCTURE-FUNCTION STUDY OF BIOMINERAL REGULATORY PROTEINS: INVESTIGATION OF THE ROLE OF PROTEIN SELF-ASSEMBLY AND MULTIPLETS OF CHARGED AMINO ACID RESIDUES A. Parayil , S. Valiyaveetil Singapore-MIT Alliance, Department of Chemistry, National University of Singapore, Singapore	L24
12:30	LUNCH BREAK	

**SESSION 6 :
BIOACTIVE CONFORMATIONS**

		Abstract No
	Chairpersons: E. Benedetti , Italy P. Cordopatis , Greece	
14:00	APPLICATION OF AZACYCLOALKANE AMINO ACID-DERIVED PEPTIDE MIMICS IN THE STUDY OF G-PROTEIN COUPLED RECEPTORS W.D. Lubell Département de Chimie, Université de Montréal, Montréal ON, Canada	L25
14:30	USING DESIGNED PEPTIDE PANELS FOR DE-RISKING GPCR PROJECTS W. Danho , J. Swistok, W. Khan, D. Fry, H. Sun, F. Falcioni, R Goodnow Jr., T. Truitt, A. Hoffman, R. Garippa Roche Research Center, Nutley NJ, USA	L26
14:50	DIFFERENT BINDING MODES OF ANGIOTENSIN II AND [SAR1]-ANGII TO THE AT1 RECEPTOR E.L. Santos, J.B. Pesquero, L. Oliveira, C.M. Costa-Neto, A.C.M. Paiva Department of Biophysics, Federal University of São Paulo, Department of Biochemistry, Faculty of Medicine, Ribeirão Preto – University Of São Paulo, Brazil	L27
15:10	BIOPHYSICAL AND MUTAGENIC ANALYSIS OF A G PROTEIN-COUPLED RECEPTOR: PHOTOCROSSLINKING OF THE TRIDECAPEPTIDE ALPHA-FACTOR INTO STE2P OF SACCHAROMYCES CEREVISIAE REVEALS CONTACT POINTS BETWEEN THE PEPTIDE AND ITS RECEPTOR BINDING SITE F. Naider , C. Son, H. Sargsyan, J.M. Becker Department of Chemistry, College of Staten Island, CUNY, Staten Island, New York NY, Department of Microbiology, University of Tennessee, Knoxville TN, USA	L28
15:30	RESCUE OF P53 MUTANTS BY PEPTIDIC CHEMICAL CHAPERONES: A NOVEL APPROACH FOR ANTI-CANCER DRUGS A. Friedler , A. Fersht Centre for Protein Engineering, MRC Centre, Hills Road, Cambridge, United Kingdom	L29
15:50	CRYPTO PROTEIN SUB-DOMAINS: SYNTHESIS AND STRUCTURAL STUDIES A. Saporito, D. Marasco, L. Falcigno, G. D'Auria, G. Minchiotti, E. Benedetti, C. Pedone, M. Ruvo Institute of Biostructures and Bioimages, Institute of Genetic and Biophysic, department of Chemistry, University of Naples, Department Of Biological Chemistry, University Federico II of Napoli, Italy	L30
16:10	THE USE OF METAL-BINDING PEPTIDES AS ACTIVE CENTRE OF ARTIFICIAL METALLOENZYMES B. Gyurcsik , A. Keresztes, T. Gajda, K. Nagata Department of Inorganic and Analytical Chemistry, University of Szeged, Hungary, University of Tsukuba, Institute of Basic Medical Sciences, Department of Infection Biology, Tsukuba, Japan	L31
16:30	COFFEE BREAK AND POSTER SESSION	
	DISCUSSION OF TOPICS: NEUROTOXIC AND NEUROPROTECTIVE PEPTIDES ANTIMICROBIAL PEPTIDES CELL PENETRATING PEPTIDES PEPTIDE NUCLEIC ACIDS GLYCO- AND LIPOPEPTIDES PEPTIDIC INHIBITORS AND PROTEIN-PROTEIN INTERACTIONS BIOACTIVE CONFORMATIONS AND RECEPTOR STUDIES, PROTEIN FOLDING	
	Coffee will be served from 16:30 to 17:00	

**SESSION 7:
'THE JOSEF RUDINGER MEMORIAL SESSION'
50TH ANNIVERSARY OF NEUROHYPOPHYSEAL HORMONE SYNTHESIS**

Chairpersons: **J. Martinez**, France
A. Holy, Czech Republic

Abstract No

08:30	INTRODUCTION A. Holy Institute of Organic Chemistry and Biochemistry, Academy of Sciences of The Czech Republic, Prague, Czech Republic	
08:45	BIOORGANIC CHEMISTRY RESEARCH IN THE INSTITUTE OF ORGANIC CHEMISTRY AND BIOCHEMISTRY - MEDICAL ASPECTS A. Holy Institute of Organic Chemistry and Biochemistry, Academy of Sciences of The Czech Republic, Prague 6, Czech Republic	L32
09:05	SOME RECOLLECTIONS OF THE FIRST SYMPOSIUM G. Young Oxford, United Kingdom	
09:10	AN OUTLINE OF JOSEF RUDINGER'S LIFE J.H. Jones Balliol College Oxford, United Kingdom	L33
09:30	JOSEF RUDINGER AND PEPTIDE ORGANIC CHEMISTRY V. Gut Department of Biological Chemistry, Institute of Organic Chemistry and Biochemistry, Prague, Czech Republic	L34
09:45	NEUROHYPOPHYSEAL HORMONES - AGONISTS AND ANTAGONISTS: FROM DU VIGNEAUD TO THE PRESENT M. Manning Department of Biochemistry and Molecular Biology, Medical College of Ohio, Toledo OH, USA	L35
10:15	STRUCTURE-ACTIVITY RELATIONSHIPS IN PEPTIDES: PAST AND PRESENT CONCEPTS V. Pliska Department of Pharmaceutical Sciences, Swiss Federal Institute of Technology (ETH), Zürich, Switzerland	L36
10:45	DDAVP - A SUCCESSFUL NEUROHYPOPHYSEAL HORMONE ANALOG: THE FATE OF RESEARCH M. Zaoral In Years 1950-1989 Institute of Organic Chemistry and Biochemistry of The Czechoslovak Academy of Science, Flemingovo Sq. 2, Prague, Czech Republic	L37
11:00	COFFEE BREAK	

**SESSION 7:
THE JOSEF RUDINGER MEMORIAL SESSION'
50TH ANNIVERSARY OF NH SYNTHESIS - CONTINUED**

		Abstract No
	Chairpersons: J. Martinez , France A. Holy , Czech Republic	
11:25	FROM OXYTOCIN TO CARBETOCIN ; JOURNEY FROM DEVELOPMENT TO PRODUCTION M. Lebl, M. Flegel Illumina Inc, San Diego CA, USA, Polypeptide Laboratories S.R O., Prague, Czech Republic	L38
12:00	PAST AND PRESENT OF TESTING OF NEUROHYPOHYSEAL HORMONE ANALOGUES: FROM BLACKENED DRUM TO EXPRESSED RECEPTORS J. Staninova Group of Peptide Biochemistry, Institute of Organic Chemistry and Biochemistry, Academy of Sciences Czech Republic, Prague, Czech Republic	L39
12:15	FROM MODELING NEUROHYPOPHYSEAL HORMONES TO SIGNALLING MECHANISMS IN GPCRS J. Ciarkowski , P. Drabik, Z. Grzonka, V.J. Hruby, A. Liwo, S. Oldziej, E. Politowska, M.D. Shenderovich, M. Witt Faculty of Chemistry, University of Gdansk, Poland, Computational Chemistry and Biology Group, Biotechnology Research Institute, National Research Council, Montreal QC, Canada, Department of Chemistry, University of Arizona, Tucson AZ, USA, Academic Computer Centre in Gdansk, Gdansk, Poland, Structural Bioinformatics Inc., San Diego CA, USA	L40
12:35	MEDICAL ASPECTS OF NEUROHYPOPHYSEAL HORMONE RESEARCH J. Marek Department of Medicine, Faculty of Medicine, Charles University, Prague, Czech Republic	L41
12:55	RELEASE OF VASOPRESSIN WITHIN THE BRAIN: STIMULI, MECHANISMS, AND FUNCTIONAL CONSEQUENCES R. Landgraf Max Planck Institute of Psychiatry, Munich, Germany	L42
13:25	CLOSING REMARKS K. Medzihradszky Institute of Organic Chemistry, Eotvos University, Budapest, Hungary	

**SESSION 8 :
NEUROPROTECTIVE PEPTIDES**

Chairpersons: **Y. Okada**, Japan
R. Rocchi, Italy

Abstract No

08:30	HUMANIN AND ITS DERIVATIVES, A NEW LINEUP OF NEUROPROTECTIVE PEPTIDES T. Niikura Department of Pharmacology and Neurosciences, KEIO University, School of Medicine, Tokya, Japan	L43
09:00	NOVEL NEUROPROTECTIVE PEPTIDES: FROM GENES TO BEHAVIOR AND POTENTIAL THERAPEUTICS I. Gozes Department of Clinical Biochemistry, Tel Aviv University, Tel Aviv, Israel	L44
09:30	HYPERHYDROXYLATED PEPTIDES: A NEW STRATEGY FOR NEURONAL TARGETING BY VENOMOUS MARINE MOLLUSKS C. Moller, K. Pisarewicz, D. Mora, J. Rivera-Ortiz, T. Yehezkely, G.B. Fields, F. Mari Department of Chemistry and Biochemistry and Center of Excellence In Biomedical and Marine Biotechnology, Florida Atlantic University, Boca Raton FL, USA	L45
09:50	NEUROTOXIC OLIGOMERIC PEPTIDES FROM THE BRI GENE CAUSE NEURONAL LOSS IN FAMILIAL BRITISH AND DANISH DEMENTIAS B.M. Austen , O.M. El-Agnaf, G.L. Gibson, N. Gunasekera, A. Wright Basic Medical Sciences, St George's Medical School, London, Department of Chemistry, North-East Wales Institute of Higher Education, Wrexham, United Kingdom	L46
10:10	CHOLESTEROL IS IMPORTANT FOR THE TOXICITY OF A BETA AND ITS BINDING TO CELL MEMBRANES S. Subasinghe, S.S. Mok, S. Unabia, M.I. Aguilar , D.H. Small Biochemistry & Mol Biol, Monash University, Clayton, Department of Pathology, University of Melbourne, Parkville, Australia	L47
10:30	COFFEE BREAK	

**SESSION 9 :
PEPTIDE LIBRARIES**

		Abstract No
	Chairpersons: C. Gilon , Israel F. Albericio , Spain	
11:00	PEPTIDE LIBRARIES: PAST, PRESENT, AND FUTURE M. Lebl Illumina Inc., San Diego CA, USA	L48
11:30	VOLATILIZABLE SOLID AND SOLUBLE POLYMERIC SUPPORTS FOR ORGANIC SYNTHESIS R.A. Houghten Mixture Sciences, Inc., Torrey Pines Institute for Molecular Studies, San Diego CA, USA	L49
11:50	ENGINEERING CYCLIC TETRAPEPTIDES CONTAINING CHIMERIC AMINO ACIDS AS PREFERRED SCAFFOLDS G.R. Marshall , Y. Che, S. Berg-Cross, H.V. Ngu, I.D. Chen Department of Biochemistry and Molecular Biophysics, Washington University, St. Louis MO, Department of Biophysical Chemistry, NHLBI, NIH, Bethesda MD, USA	L50
12:10	MAPPING AND RECONSTRUCTION OF A DISCONTINUOUS AND HIGHLY CONFORMATIONAL BINDING SITE ON FOLLICLE STIMULATING HORMONE SUBUNIT-BETA (FSH-BETA) USING SYNTHETIC SCAFFOLDS P. Timmerman , J. Sloopstra, W.C. Puijk, W.M.M. Schaaper, E. van Dijk, R.H. Melen Pepscan Systems B.V., Lelystad, The Netherlands	L51
12:30	A NOVEL PROCESS FOR MANUFACTURING OF HIGH DENSITY MULTI-PURPOSE CHEMICAL MICRO-ARRAYS U. Beutling, A.J. Dikmans, R. Frank Department of Chemical Biology, German Research Centre for Biotechnology (GBF), Braunschweig, Germany	L52
12:50	DISTCODE: DISTANCE ENCODING OF SINGLE BEADS FOR IDENTIFICATION OF SPLIT-COMBINE LIBRARY MEMBERS M. Meldal , R. Michael, S.F. Christensen, I. Johannsen Department of Chemistry, Carlsberg Laboratory, Valby, Denmark, Versamatrix, Carlsberg Research Center, Valby, Denmark	L53
13:10	LUNCH BREAK	

**SESSION 10 :
ANTIMICROBIAL AND CELL PENETRATING PEPTIDES**

		Abstract No
	Chairpersons: D. Andreu , Spain M. Fridkin , Israel	
14:30	ANTIMICROBIAL PEPTIDES: A LESSON FROM NATURE FOR FUTURE ANTIBIOTICS Y. Shai Department of Biological Chemistry, Weizmann Institute of Science, Rehovot, Israel	L54
15:00	A GENERAL STRATEGY FOR DEVELOPMENT OF ANTI-VIRUS PEPTIDES BASED ON X-EE-XX-KK CONCEPT FOR THE ALPHA-HELICAL ENV SEQUENCE: PRACTICE IN AIDS AND SARS A. Otaka , N. Yamamoto, E. Kodama, H. Tamamura, M. Matsuoka, N. Yamamoto, N. Fujii Graduate School of Pharmaceutical Sciences, Kyoto University, School of Medicine, Tokyo Medicinal and Dental University, Institute for Virus Research, Kyoto University, Kyoto, Japan	L55
15:20	POSTTRANSLATIONALLY MODIFIED MICROCIN E492, A SIDEROPHORE-PEPTIDE WITH POTENT ANTIBACTERIAL ACTIVITY X. Thomas, D. Destoumieux-Garzón, A. Blond, J. Péduzzi, C. Afonso, C. Goulard, N. Birlirakis, L. Dubost, J.C. Tabet, S. Rebuffat Chimie et Biochimie des Substances Naturelles USM 502, Département Régulations, Développement et Diversité Moléculaire, Muséum National D'Histoire Naturelle, Structure et Fonctions de Molécules Bioactives, Université Pierre et Marie Curie, Paris, Laboratoire de RMN, Institut de Chimie des Substances Naturelles-CNR, Gif-sur-Yvette, France	L56
15:40	A TARGETED LIBRARY OF γ -STYLOSTATINS AS POTENTIAL ANTIBIOTICS M. Cruz , P. López, M. Rubiralta, E. Giralt, A. Dieza Biosyner, Parc Científic de Barcelona, Laboratori de Química Orgànica. Facultat de Farmàcia, Departament de Química Orgànica, Universitat de Barcelona, Spain	L57
16:00	COMPARISON OF ENTRY EFFICIENCIES OF CELL PENETRATING PEPTIDES F. Burlina, S. Sagan, G. Bolbach, G. Chassaing CNRS UMR 7613, Université Paris VI, Paris, France	L58
16:20	COFFEE BREAK AND POSTER SESSION	
	DISCUSSION OF TOPICS: STRUCTURE ACTIVITY RELATIONSHIP NMR, MS AND CD STUDY OF PEPTIDES GENOME STUDIES AND PEPTIDES	
	Coffee will be served from 16:20 – 16:50	

**SESSION 11 :
CELL PENETRATING PEPTIDES / PEPTIDE NUCLEIC ACIDS**

		Abstract No
	Chairpersons: C. Tzougraki , Greece K.H. Wiesmüller , Germany	
08:30	CELL-PENETRATING PEPTIDES AND THEIR APPLICATION IN GENE REGULATION U. Langel Department Neurochemistry and Neurotoxicology, Stockholm University, Stockholm, Sweden	L60
09:00	AMPHIPHATHIC PROLINE-RICH CELL PENETRATING PEPTIDES AS POTENTIAL DRUG CARRIERS E. Giralt , J. Fernández-Carneado, M.J. Kogan, S. Pujals Institut de Recerca Biomèdica de Barcelona, Parc Científic de Barcelona, Departament de Química Orgànica, Universitat de Barcelona, Spain	L61
09:20	DIRECTION SELECTIVITY IN DNA BINDING BY CHIRAL LYSINE-BASED PNAS: INFLUENCE OF THE INTRINSIC PREFERENTIAL HANDEDNESS OF THE PNA STRAND CONTROLLED BY THE STEREOGENIC CENTERS T. Tedeschi , S. Sforza, R. Corradini, A. Dossena, R. Marchelli Department of Organic and Industrial Chemistry, Parma, Italy	L62
09:40	TUMOR SELECTIVE ACCMULATION OF PNA-OLIGOMERS CONJUGATED TO A SOMATOSTATIN RECEPTOR AFFINE PEPTIDE W. Mier , R. Eritja, U. Haberkorn, M. Eisenhut Universitätsklinikum, Nuklearmedizin, Heidelberg, Germany, Instituto de Biología Molecular de Barcelona, Dpt. of Molecular Genetics, Barcelona, Spain, Deutsches Krebsforschungszentrum, Abt. Radiopharmazeutische Chemie, Heidelberg, Germany	L63
10:10	COFFEE BREAK	

**SESSION 12 :
PROTEIN-PEPTIDE INTERACTIONS**

	Chairpersons: J. Wade , Australia D.D. Petkov , Bulgaria	Abstract No
10:30	DEVELOPMENT OF AGENTS TARGETING EGF RECEPTOR AND PDGF RECEPTOR A. Levitzki Unit of Cellular Signaling, Department of Biological Chemistry, The Hebrew University of Jerusalem, Israel	L64
11:00	FROM COMBINATORIAL SYNTHESIS TO CELLULAR PROBES: DESIGNING CYCLIC AND MULTIVALENT PEPTIDE LIGANDS AS INHIBITORS OF SIGNAL TRANSDUCTION PROTEINS D. Saro, T. Li, E. Klosi, G. Udugamasooriya, C. Rupasinghe, M.R. Spaller Department of Chemistry, Wayne State University, Detroit MI, USA	L65
11:20	MODULATION OF THE APOPTOSOME ACTIVITY USING PEPTIDES AND PEPTOIDS E. Perez-Paya , G. Malet, I. Mingarro, N. Marina, I. Masip, A. Messeguer, J. Bujons Fundación Valenciana Investigaciones Biomédicas-CSIC, Valencia, Department Bioquímica I Biol. Molec. Universitat València, Burjassot, Department Biological Organic Chemistry, IIQAB-CSIC, Barcelona, Spain	L66
11:40	BINDING, INHIBITION AND CATALYSIS OF S. GRISEUS AMINOPEPTIDASE AS REVEALED FROM ITS COMPLEXES WITH MECHANISM-BASED ANALOGS V. Reiland, R. Gilboa, Y. Shoham, D. Schomburg, S. Blumberg, G. Shoham Department of Inorganic Chemistry, The Hebrew University, Jerusalem, Department of Genetics and Molecular Medicine, Tel Aviv University, Tel Aviv, Department of Food Engineering and Biotechnology, Technion, Haifa, Israel, Inst. of Biochemistry, University of Cologne, Germany	L67
12:00	LOW MOLECULAR WEIGHT CXCR4 ANTAGONISTS BASED ON T140 ANALOGS THAT WERE IDENTIFIED AS TRIPLE-FUNCTIONAL AGENTS HAVING INHIBITORY ACTIVITIES AGAINST HIV INFECTION, CANCER METASTASIS AND RHEUMATOID ARTHRITIS H. Tamamura , K. Hiramatsu, T. Araki, S. Mizokami, S. Oishi, S. Ueda, Z. Wang, S.C. Peiper, J.O. Trent, A. Hori, N. Kanzaki, M. Fujiwara, H. Nakashima, N. Yamamoto, A. Otaka, N. Fujii Graduate School of Pharmaceutical Sciences, Kyoto University, Kyoto, Japan, Medical College of Georgia, Augusta GA, James Graham Brown Cancer Center, University of Louisville, Louisville KY, USA, Pharmaceutical Research Division, Takeda Chemical Industries, Ltd., Osaka, School of Medicine, St. Marianna University, Kawasaki, School of Medicine, Tokyo Medical and Dental University, Tokyo, Japan	L68
12:20	LUNCH BREAK	

**SESSION 13 :
NMR, MS AND CD STUDIES OF PEPTIDES**

	Chairpersons: P. Malon , Czech Republic S. Blondelle , USA	Abstract No
14:00	NEW METHODS IN PROTEOMICS AFFINITY CAPTURE COUPLED TO MASS SPECTROMETRY (ACESIMS, ICAT AND VICAT) FOR PEPTIDE AND PROTEIN ANALYSIS F. Turecek Department of Chemistry, University of Washington, Seattle WA, USA	L69
14:30	STUDIES OF PEPTIDE YY IN SOLUTION AND WHEN BOUND TO PHOSPHOLIPID MICELLES O. Zerbe , M. Lerch, A. Skirgailiene, A. Neumoin University of Zurich, Institute of Organic Chemistry, ETH Zurich, Institute of Pharmaceutical Sciences, Zurich, Switzerland	L70
14:50	A NOVEL THREADED RING STRUCTURE FOR THE ANTIMICROBIAL PEPTIDE MICROCIN J25 D.J. Craik , K.J. Rosengren, R.J. Clark, N.L. Daly, U. Goransson Institute for Molecular Bioscience, University of Queensland, Brisbane, Australia	L71
15:10	OPTIMIZATION OF PEPTIDE ARRAYS ON A NOVEL PROTEIN CHIP FOR A PRACTICAL PROTEIN CHARACTERIZATION SYSTEM K. Nokihara , T. Ohyama, K. Yonemura, N. Sugioka, K. Usui, T. Ojima, H. Mihara HiPep Laboratories, Kyoto, Department of Bioengineering, Tokyo Institute of Technology, Yokohama, Japan	L72
15:30	HEPATITIS C VIRUS FUNCTIONAL MAPPING DATABASE: AN INSTRUMENT IN VACCINE DESIGN B.N. Sobolev, E.F. Kolesanova , L.V. Olenina, T.E. Kuraeva, A.V. Rudik, V.V. Poroikov, A.I. Archakov V.N. Orekhovich Institute of Biomedical Chemistry RAMS, Moscow, Russia	L73
15:50	DESIGN AND NMR STRUCTURES OF SOMATOSTATIN (SRIF) RECEPTOR-SELECTIVE LIGANDS J. Rivier , J. Ercegyi, D. Kirby, W. Low, B. Waser, V. Eltschinger, R. Cescato, C.R.R. Grace, L. Durrer, S.C. Koerber, R. Riek, J.C. Reubi The Clayton Foundation Laboratories for Peptide Biology, The Salk Institute, La Jolla CA, USA, Division of Cell Biology and Experimental Cancer Research, Institute of Pathology, University of Berne, Switzerland, Structural Biology Laboratory, The Salk Institute, La Jolla CA, USA	L74
16:10	CLOSING CEREMONY	

SYNTHETIC APPROACHES TO BRIDGES IN PEPTIDES

Board &
Abstract No

SYNTHETIC STUDIES OF MEMBRANE PROTEIN BASED ON LIGATION CHEMISTRY

S. Aimoto, T. Sato, Y. Saito, N. Nishimura, T. Kawakami
Institute for Protein Research, Osaka University, Suita, Japan

P01

MICROWAVE - ASSISTED SYNTHESSES OF PEPTIDE ISOSTERE LIBRARIES EMPLOYING AMINO ACYL KETENES

S. Al-Gharabli, J. Rademann
Institute for Organic Chemistry, University of Tübingen, Medicinal Chemistry, Forschungsinstitut für Molekulare Pharmakologie, Organic Chemistry, Free University Berlin, Germany

P02

SOLID-PHASE SYNTHESIS OF CYCLODEPSIPEPTIDES. USE OF HEXAFLUOROACETONE FOR PROTECTION/ACTIVATION OF HYDROXYACIDS

F. Albericio, N. Bayo, K. Burger, L.J. Cruz, T. Cupido, E. Giralt, P. Rousselot-Pailley, J Ruiz-Rodríguez, J. Spengler
Barcelona Biomedical Research Institute, Barcelona Science Park, University of Barcelona, Spain, Department of Organic Chemistry, University of Leipzig, Germany

P03

INCREASING THE CONFORMATIONAL STABILITY OF ALPHA-CONOTOXIN IMI BY SUBSTITUTION OF DISULFIDE BONDS WITH ISOSTERIC DISELENIDE BONDS

C.J. Armishaw, N.L. Daly, S.T. Nevin, D.J. Adams, D.J. Craik, P.F. Alewood
Institute for Molecular Bioscience, School of Biomedical Sciences, The University of Queensland, Brisbane, Australia

P04

REVERSIBLY CROSS-LINKED DENDRIMERS - A STRATEGY FOR THE FACILE SYNTHESIS AND COMBINATORIAL VARIATION OF COMPLEX, MULTIVALENT PROTEIN-MIMICS

M. Barth, R. Fischer, R. Brock, J. Rademann
Institute For Organic Chemistry, Institute For Cell Biology, Eberhard-Karls-University, Tuebingen, Medicinal Chemistry, Forschungsinstitut für Molekulare Pharmakologie, Organic Chemistry, Free University Berlin, Germany

P05

PEPTIDE - OLIGONUCLEOTIDE CONJUGATION. A NEW SYNTHETIC APPROACH

I. Beylis, J. Katzhendler, Y. Klausner, H. Abu Ali, Y. Shpernat, M. Mizhiritskii
Medicinal Chemistry, School of Pharmacy, The Hebrew University of Jerusalem, Frutarom Rechovo, Israel

P06

DEUSS: A NEW RESIN FOR SOLID-PHASE SYNTHESIS AND HRMAS NMR CHARACTERIZATION OF SOLID-SUPPORTED MOLECULES

A. Bianco, A. Poschalko, N. Lancelot, J. Marin, V. Larras, D. Limal, K. Elbayed, J. Raya, M. Piotto, J.P. Briand, G. Guichard
Institut de Biologie Moléculaire et Cellulaire, UPR9021 CNRS, Immunologie Et Chimie Thérapeutiques, Strasbourg, France, Vienna University of Technology, Institute of Applied Synthetic Chemistry, Vienna, Austria, Institute of Chemistry, FRE 2446 CNRS-Bruker, Louis Pasteur University, Strasbourg, Laboratory of Macromolecular Chemistry, ENSCMu, Mulhouse, FRE 2446 CNRS-Bruker, Wissembourg, France

P07

ORTHOAGONALLY-PROTECTED LANTHIONINES AS BUILDING-BLOCKS FOR THE SOLID-PHASE SYNTHESIS OF LANTIBIOTICS

S. Bregant, A. B. Tabor
Department of Chemistry, UCL, London, United Kingdom

P08

AN INFLUENCE OF REACTION CONDITIONS ON DISULPHIDE BOND FORMATION EFFICIENCY IN SYNTHESIS OF HIV PEPTIDES

S.V. Burov, M.V. Leko, M.A. Kharina, O.V. Glynskaya, I.B. Ditkovskaya, Z.P. Skharubskaya, M.Yu. Dorosh
Institute of Macromolecular Compounds RAS, St. Petersburg, Russia

P09

REEXAMINATION OF INTRAMOLECULAR HECK METATESIS IN PEPTIDES

G. Byk, M. Cohen-Ohana
Bar Ilan University/Chemistry, Ramat Gan, Israel

P10

SYNTHETIC APPROACHES TO BRIDGES IN PEPTIDES (cont)

	Board & Abstract No
<p>A PLATFORM TECHNOLOGY FOR SYSTEMATIC, AUTOMATED AND HIGH THROUGHPUT PROTEIN EXPRESSION AND PURIFICATION G. Cameron, K. Auton, V. Smith, B. McAleer NextGen Sciences Ltd., Cambridgeshire, United Kingdom</p>	P11
<p>LANTHIONINE MIMETICS FROM CYSTEINE P. Campiglia, P. Grieco, I. Gomez-Monterrey, E. Novellino, L. Longobardo, D. Guarino Dipartimento di Chimica Farmaceutica E Toss., Dipartimento di Scienza Degli Alimenti, Università Di Napoli 'Federico II', Napoli, Istituto di Scienze Dell'Alimentazione, CNR, Avellino, Italy</p>	P12
<p>IODOMETHYLENE DERIVATIVES OF ASPARTIC AND GLUTAMIC ACIDS IN PEPTIDOMIMETIC CHEMISTRY P. Campiglia, P. Grieco, T. Lama, I. Gomez-Monterrey, E. Novellino, L. Longobardo Dipartimento di Chimica Farmaceutica E Toss., Dipartimento di Scienza Degli Alimenti, Università di Napoli 'Federico II', Napoli, Istituto di Scienze Dell'Alimentazione, CNR, Avellino, Italy</p>	P13
<p>SYNTHESIS OF DIPHENYLALANINE (DIP) AND ITS CYCLOPROPANE ANALOGUE (C3DIP) IN ENANTIOMERICALLY PURE FORM BY HPLC RESOLUTION C. Cativiela, G. Ballano, S. Royo, A.I. Jimenez, P. Lopez Department of Organic Chemistry, Institute of Materials Science of Aragon, University of Zaragoza-CSIC, Zaragoza, Spain</p>	P14
<p>TOTAL CHEMICAL SYNTHESIS OF HEW LYSOZYME N. Chopra, S.B.H. Kent Institute for Biophysical Dynamics, Department of Biochemistry and Molecular Biology, University of Chicago, Chicago IL, USA</p>	P15
<p>THE 2-AMINO-4-PYRROLIDINOTHIEENO[2,3-D]PYRIMIDINE-6-CARBOXYLIC ACID AS N-TERMINAL SURROGATE IN PEPTIDE ANALOGUES E. Bissyris, D. Belekos, V. Magafa, P. Tsoungas, G. Varvounis, P. Cordopatis Department of Pharmacy, University of Patras, Department of Chemistry, University of Ioannina, Ministry of Development, Department of Research and Technology, Athens, Greece</p>	P16
<p>SYNTHESIS AND CONFORMATIONAL STUDIES OF A NEW OCTREOTIDE ANALOGUE D. D'Addona, M. Chelli, A.M. Papini, F. Bucelli, A. Carotenuto, M. Ginanneschi Dipartimento di Chimica Organica "Ugo Schiff" and CNR-ICCOM, Università di Firenze, Laboratorio di Chimica E Biologia dei Peptidi Università Degli Studi di Firenze, Sesto Fiorentino, Dipartimento di Chimica Farmaceutica, Università di Napoli Federico II, Napoli, Italy</p>	P17
<p>PEPTIDE CYCLISATION BY THIOETHER FORMATION, A COMPARISON OF DIFFERENT METHODS P.E. de Koning, W.E Benckhuijsen, A. Teixeira, J.W. Drijfhout Department of Immunohematology and Bloodtransfusion, Leiden University Medical Center, Leiden, The Netherlands</p>	P18
<p>DESIGN AND SYNTHESIS OF CHIRAL CYCLIC ALPHA,ALPHA-DISUBSTITUTED ALPHA-AMINO ACIDS AND ITS PEPTIDES Y. Demizu, M. Tanaka, K. Anan, Y. Yoshida, M. Kurihara, M. Doi, T. Maruyama, H. Suemune Graduate School of Pharmaceutical Sciences, Kyushu University, Fukuoka, Osaka University of Pharmaceutical Sciences, Osaka, Division of Organic Chemistry National Institute of Health Sciences, Tokyo, Faculty of Pharmaceutical Science At Kagawa Campus, Tokushima Bunri University, Kagawa, Japan</p>	P19
<p>PROGRESS TOWARDS A CARBA-ANALOG OF LEUCOCIN A D.J. Derksen, J.L. Stymiest, J.C. Vederas Department of Chemistry, University of Alberta, Edmonton, Canada</p>	P20
<p>INTRAMOLECULAR CARBAMOYLMINIUM ACTIVATED SOLID PHASE PICTET-SPENGLER REACTIONS. TOWARDS MCR AGONISTS F. Diness, J. Beyer, M. Meldal SPOCC-Center, Carlsberg Laboratory, Valby, Denmark</p>	P21

SYNTHETIC APPROACHES TO BRIDGES IN PEPTIDES (cont)

Board &
Abstract No

PEPTIDE LIGATION FOR THE MIMICRY OF PROTEIN BINDING SITES: COPPER-CATALYZED FORMATION OF [1,2,3]-TRIAZOLES ON SOLID PHASE AND IN SOLUTION

C. Doll, J. Eichler

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P22

SWITCH ON STRUCTURE AND FUNCTION: PEPTIDE PRODRUGS AND BIOSENSORS BY ENZYME-TRIGGERED X, N-ACYL MIGRATION

S. Dos Santos, K. Murat, E. Grouzmann, G. Tuchscherer, M. Mutter

Swiss Federal Institute of Technology (EPFL), Institute of Chemical Sciences and Engineering (ISIC), Lausanne, Switzerland, Division of Hypertension and Vascular Medicine and Department of Surgery, Centre Hospitalier Universitaire Vaudois, Lausanne, Switzerland

P23

INSULIN HEXAMER-HEXAMER BRIDGING WITH BORONATE-CARBOHYDRATE LINKS FOR GLUCOSE-RESPONSIVE INSULIN RELEASE

T. Hoeg-Jensen, S. Havelund, J. Markussen

Insulin Chemistry, Novo Nordisk, Bagsvaerd, Denmark

P24

ON-RESIN UREA CYCLIZATION OF DIAMINES USING TRIPHOSGENE

M. Hurevich, Y. Barda, C. Gilon

Department of Organic Chemistry, The Hebrew University of Jerusalem, Israel

P25

SYNTHESIS OF AN ENEDIYNE-BRIDGED PEPTIDE FOR CELL LYSIS

I. Jeric, H.M. Chen

Division of Organic Chemistry and Biochemistry, Rudjer Boskovic Institute, Zagreb, Croatia, Institute of Bioagricultural Sciences, Academia Sinica, Taipei, Taiwan

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β -TURN PREFERENCES INDUCED BY THE TRANS CYCLOHEXANE ANALOGUES OF PHENYLALANINE

M. Lasa, P. Lopez, **A.I. Jimenez**, C. Cativiela

Department of Organic Chemistry, Institute of Materials Science of Aragon, University of Zaragoza-CSIC, Zaragoza, Spain

P27

CONFORMATIONAL PREFERENCES OF BICYCLIC PROLINE ANALOGUES WITH INDUCED CHIRALITY AT THE N ATOM

A.M. Gil, E. Buñuel, **A.I. Jimenez**, C. Cativiela

Department of Organic Chemistry, Institute of Materials Science of Aragon, University of Zaragoza-CSIC, Zaragoza, Spain

P28

SYNTHESIS OF NOVEL FULLERENE AMINO ACIDS AND MULTIFULLERENE PEPTIDES

T. Kato, M.P.I. Bhuiyan, L.A. Watanabe, B. Jose, N. Nishino

Graduate School of Life Science and Systems Engineering, Faculty of Engineering, Kyushu Institute of Technology, Kitakyushu, Japan

P29

EXTENDED CHEMICAL LIGATION FOR POLYPEPTIDE SYNTHESIS BY USING A PHOTOREMOVABLE AUXILIARY

T. Kawakami, S. Aimoto

Institute for Protein Research, Osaka University, Suita, Japan

P30

ETHYLENE GLYCOL BASED PROTECTING GROUPS

L. Kocsis, A. Magyar, G.Y. Orosz

Research Group of Peptide Chemistry, Eötvös L. University, Hungarian Academy of Sciences, CF Pharma Ltd., Budapest, Hungary

P31

HYDROXYPROLINE-MODIFIED POLY(PROPYLENEIMINE) DENDRIMERS AS CATALYSTS OF ASYMMETRIC ALDOL REACTIONS

G. Kokotos, E. Bellis

Department of Chemistry, University of Athens, Greece

P32

NEW GENERATION OF TRIAZINE-BASED COUPLING REAGENTS USEFUL FOR SPPS

B. Kolesinska, G. Sabatino, J. Kolesinska, M. Chelli, P. Rovero, Z.J. Kaminski, A.M. Papini

Laboratory of Peptide Chemistry and Biology, Polo Scientifico, Università di Firenze, Sesto Fiorentino, Italy, Institute of Organic Chemistry Technical University of Lodz, Poland, Dipartimento di Chimica Organica "Ugo Schiff" and CNR-ICCOM, Dipartimento di Scienze Farmaceutiche, Università di Firenze, Sesto Fiorentino, Italy

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SYNTHETIC APPROACHES TO BRIDGES IN PEPTIDES (cont)

Board &
Abstract No

COMBINATORIAL SOLID-PHASE SYNTHESIS OF N-ALKYL HYDROXAMIC ACIDS

V. Krchnak, G.A. Slough

Chemistry and Biochemistry, University of Notre Dame, Notre Dame IN, USA, BChemistry Department, Kalamazoo College, Kalamazoo MI, USA

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POLYMER-SUPPORTED N-BENZYL-2-NITROBENZENESULFONAMIDES AS ALTERNATIVE TO ALDEHYDE LINKERS

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Department of Chemistry and Biochemistry, University of Notre Dame, Notre Dame IN, Chemistry Department, Kalamazoo College, Kalamazoo MI, USA

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SOLID PHASE SYNTHESIS ON DUAL LINKER WITH A REFERENCE CLEAVAGE SITE

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P36

DISSECTION OF THE NISIN MODIFICATION AND EXPORT MACHINERY

A. Kuipers, E. de Boef, R. Rink, S. Fekken, L.D. Kluskens, A.J.M. Driessen, K. Leenhouts, O.P. Kuipers, G.N. Moll

Bio Ma de Technology Foundation, Department of Microbiology, Department of Molecular Genetics, Groningen, the Netherlands

P37

CHEMICAL SYNTHESIS AND APPLICATION OF C-TERMINALLY 5-CARBOXYFLUORESCHEIN-LABELED THYMOPENTIN AS A NOVEL FLUORESCENT PROBE

B. Liu, S. Onoue, Y. Nemoto, M. Hirose, T. Yajima

American Peptide Company, Sunnyvale CA, USA, Ito Life Sciences, Ibaraki, Faculty of Pharmaceutical Sciences, Toho University, Funabashi, Japan

P38

OVEREXPRESSION OF N-TERMINAL ACTIVE SITE OF HUMAN ANGIOTENSIN CONVERTING ENZYME (ACE 361-468) IN E. COLI CELLS

S.S. Vamvakas, L. Leontiadis, G.A. Spyroulias, G. Pairas, **E. Manessi-Zoupa**, P. Cordopatis

Mass Spectrometry and Dioxin Analysis Lab, IRRP, National Center for Scientific Research "Demokritos", Athens, Department of Pharmacy, Department Of Chemistry, University of Patras, Patras, Greece

P39

SOLID PHASE SYNTHESIS OF CYCLIC PEPTIDES WITH A GUANIDINE BRIDGE

A. Hamze, V. Lisowski, P. Fulcrand, **J. Martinez**, J.-F. Hernandez

CNRS UMR5810, LAPP, Faculte de Pharmacie, Montpellier, France

P40

EFFICIENT SYNTHESSES OF AZABICYCLO[X.Y.0]-ALKANE PEPTIDOMIMETICS FROM PYROGLUTAMATE AND HOMOPYROGLUTAMATE

P.K. Mandal, K.K. Kaluarachchi, **J.S. McMurray**

Department of Neuro-Oncology, Department of Experimental Therapeutics, The University of Texas M. D. Anderson Cancer Center, Houston TX, USA

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NEW INSIGHTS IN PEPTIDE SYNTHESIS CATALYZED BY LIPASES

C.W. Liria, F. Bordusa, **M.T.M. Miranda**

Department of Biochemistry, Institute of Chemistry, University of São Paulo, Brazil, Max-Planck Society, Research Unit "Enzymology for Protein Folding", Halle/S., Germany

P42

SULFHYDRYL PROTEASE-CATALYZED PEPTIDE SYNTHESIS USING CARBAMOYL METHYL ESTERS AS ACYL DONORS

T. Miyazawa, T. Horimoto, K. Tanaka, T. Murashima, T. Yamada

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P43

(S)-PYROGLUTAMIC ACID BASED DESIGN AND SYNTHESIS OF NEW ANTIHYPERTENSIVE AGENTS

P. Moutevelis-Minakakis, C.G. Kokotos, P. Kontogianni, K. Georgikopoulou, T. Mavromoustakos

Department of Chemistry, University of Athens, Institute of Organic and Pharmaceutical Chemistry, National Hellenic Research Foundation, Athens, Greece

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SYNTHETIC APPROACHES TO BRIDGES IN PEPTIDES (cont)

Board &
Abstract No

INVESTIGATION OF THE SYNTHESIS OF LONG ANGIOTENSIN II AND BRADYKININ G PROTEIN-
COUPLED RECEPTORS FRAGMENTS

J.H. Cuvero, L. Malavolta, S.G.E. Souza, L. Oliveira, S. Schreier, A.C.M. Paiva, **C.R. Nakaie**
Biophysics, Universidade Federal de São Paulo, Biochemistry - Chemistry Institute, Universidade de
São Paulo, Brazil

P45

SYNTHESIS OF THE BIS-CYSTINYL-FRAGMENT 225-232/225'-232' OF THE HUMAN IGGL HINGE
REGION

P. Niederhafner, M. Safarik, J. Hlavacek
locb Cas Cr, Prague, Czech Republic

P46

CONVERGENT SOLID-PHASE APPROACH PERFORMED IN A CHLOROFORM-PHENOL MIXED
SOLVENT: SYNTHESIS OF AMYLOID BETA-PEPTIDES AS EXAMPLES WITH A DIFFICULT SEQUENCE

Y. Nishiuchi, H. Nishio, M. Ishimaru, T. Kimura
Peptide Institute Inc., Protein Research Foundation, Osaka, Japan

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A SOLID-PHASE SYNTHESIS OF TETRAAZAMACROCYCLES FROM CYCLOTETRAPEPTIDES

M. Orfei, M. Chelli, A.M. Papini, M. Ginanneschi
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Laboratory of Peptides Chemistry and Biology, University of Florence, Polo Scientifico, Sesto Fiorentino, Italy

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SELECTION OF THE BEST TRIAZINE-BASED CONDENSING REAGENT FOR SPSPS

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RATIONAL DESIGN OF TRYPSIN VARIANTS WITH IMPROVED SYNTHETIC PROPERTIES

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TARGETING OF QUANTUM DOT-SIGNAL PEPTIDES BIOCONJUGATES IN LIVING CELLS

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TRANSCELLULAR PASSAGE OF CELL-PENETRATING PEPTIDES

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MEMBRANE INTERACTIONS OF PEPTIDES DERIVED FROM THE N-TERMINUS OF UNPROCESSED PRION PROTEINS, COMPARISONS WITH PENETRATIN AND MELITTIN

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ENHANCEMENT OF INTRACELLULAR GENE DELIVERY BY A DERMASEPTIN-DERIVED KARYOPHILIC CELL PENETRATING PEPTIDE

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SELF ORGANISATION OF β -PEPTIDE HELICES BY NUCLEOBASE PAIRING

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PYRROLIDINE-BASED PEPTIDE NUCLEIC ACIDS WITH VARIOUS MAIN CHAINS

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LIPOPHILIC DERIVATIVES OF OCTREOTATE FOR THE TUMOR SELECTIVE TRANSFECTION WITH LIPOSOMES

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THE CHEMICAL AND ENZYMATIC STABILITY OF THE GLYCATION PRODUCTS DERIVED FROM OPIOID PEPTIDES

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NON-COVALENT STABILIZATION OF A BETA-HAIRPIN PEPTIDE INTO LIPOSOMES

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SYNTHESIS AND STRUCTURAL INVESTIGATIONS OF O-GLYCOSYLATED B-AMINO ACIDS AND B-PEPTIDES

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GHRELIN ACYLATION STRONGLY INFLUENCES ITS BINDING TO ALBUMIN AND LIPID BILAYERS

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BIOLOGICAL ACTIVITIES OF CYCLIZED PEPTIDES DERIVED FROM LAMININS

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PROBING THE TWO-STEP, TWO-SITE BINDING MODEL OF FAMILY B G PROTEIN-COUPLED RECEPTORS

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MOLECULAR DYNAMICS STUDY OF THE EFFECT OF GABU INSERT ON THE CONFORMATIONAL BEHAVIOR OF THE MULTIPLE ANTIGEN GLYCOPEPTIDES DURING THE SOLID-PHASE SYNTHESIS

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SYNTHESIS, PROTON AND COPPER(II) COMPLEXES OF A NOVEL POLYHISTIDINE TYPE LIGAND

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THIOXOPEPTIDE BONDS AS A SPECTROSCOPIC PROBE IN POLYPROLINE HELICES

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THE N-TERMINUS OF NEUROHYPOPHYSIAL PEPTIDE HORMONE RECEPTORS: ITS ROLE IN HORMONE BINDING, LIGAND SELECTIVITY AND RECEPTOR ACTIVATION

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RAPID INHIBITION OF INSULIN BINDING BY GLUCOSE IN RAT LIVER PLASMA MEMBRANES

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STRUCTURE-ACTIVITY STUDIES OF NOVEL CONFORMATIONALLY CONSTRAINED RGD CYCLIC PEPTIDES

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STRUCTURE ACTIVITY RELATIONSHIP OF SHORT ANALOGUES OF ANTISTASIN (ATS) AND GHILANTENS (GLS) INCLUDING BASIC AMINO ACIDS IN 109 POSITION

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NOVEL EXTENDED AND BRANCHED N-TERMINAL ANALOGS OF VIP

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NEW POTENT B2 BRADYKININ ANTAGONISTS ACYLATED ON THEIR N-TERMINALS

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NEW BRADYKININ ANALOGUES MODIFIED WITH 1-AMINOCYCLOHEXANE-1-CARBOXYLIC ACID

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RAMAN OPTICAL ACTIVITY OF MALARIA-VACCINE CANDIDATES FROM THE NPNA FAMILY.

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SYNTHETIC PEPTIDES ABLE TO MODULATE THE INTERACTION OF AKAP121 WITH MITOCHONDRIA

A. Del Gatto, A. De Capua, M. Saviano, L. Zaccaro, E. Benedetti, C. Pedone, T. Tancredi, A. Feliciello, A. Affaiati, E.V. Avvedimento

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ANALOGUES OF ARGININE VASOPRESSIN MODIFIED IN POSITION 2 AND 3 WITH CONFORMATIONALLY CONSTRAINED DIPEPTIDE FRAGMENTS

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INFLUENCE OF ENANTIOMERS OF 1-NAPHTHYLALANINE IN POSITION 2 OF VAVP AND DVAVP ON THEIR PHARMACOLOGICAL PROPERTIES

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THE INFLUENCE OF ENZYMATIC HYDROLYSIS ON FOAMING PROPERTIES OF WHEY PROTEINS

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M. Durai, A. Balasubramaniam, S.G. Huang, M. Prabhakaran, V. Renugopalakrishnan
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Department of Biomedical Engineering, College of Engineering, Children's Hospital, Harvard Medical School,
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BIO-FUNCTIONALIZATION OF MICRO AND NANOPARTICLES

N. Ardès-Guisot, T. Doussineau, **J.O. Durand**, M. Granier, P. Joly, O. Melnyk, M. Smahi
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GALLIUM-LABELLED DOTA-ALPHA-MSH ANALOGS FOR PET IMAGING OF MELANOMA METASTASES

S. Froidevaux, M. Calame-Christe, J. Schumacher, H. Tanner, R. Saffrich, M. Henze, **A.N. Eberle**
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Department of Diagnostic and Therapeutic Radiology, German Cancer Research Center, Heidelberg,
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THE STRUCTURE AND SYNTHETIC CAPABILITIES OF A SMALL CATALYTIC PEPTIDE FORMED UNDER
PREBIOTIC CONDITIONS BY A SUBSTRATE-DIRECTED MECHANISM

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ANALOGUES OF A POTENT OXYTOCIN ANTAGONIST HAVING A UREIDO GROUP IN THE AMINO ACID
SIDE CHAIN IN POSITION 4 OR 5

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BICYCLIC ANALOGUES OF A POTENT OXYTOCIN ANTAGONIST

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BETA-TURN AND 3-10-HELICAL PEPTIDES AS TEMPLATES FOR ENANTIOSELECTIVE CATALYSIS:
ASYMMETRIC ACYLATION OF ALCOHOLS

F. Formaggio, A. Barazza, A. Bertocco, Q.B. Broxterman, B. Kaptein, E. Brasola, P. Pengo, L. Pasquato, P.
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THE STRUCTURE-ACTIVITY RELATIONSHIP OF DMT-NH-X ON OPIOID RECEPTOR AFFINITY

Y. Fujita, T. Motoyama, T. Li, A. Miyazaki, T. Yokoi, Y. Tsuda, A. Ambo, Y. Sasaki, S.D. Bryant, L.H. Lazarus,
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GLYCOGEN PHOSPHORYLASE INHIBITORS AS POTENTIAL DRUGS FOR THE TREATMENT OF TYPE 2
DIABETES

M. Ganotidis, Y. Elemen, C.H. Alexopoulos, C. Sakarellos, M. Kosmopoulou, E. Chrysin, D. Leonidas, N.
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COMBINATION CANCER CHEMOTHERAPY WITH A SINGLE AGENT: BRADYKININ PEPTIDE
ANTAGONISTS AND THEIR MIMETICS

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STRUCTURE ACTIVITY RELATIONSHIP STUDIES

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G. Golan, D.O. Zharkov, R. Gilboa, A.S. Fernandes, S.E. Gerchman, J.H. Kycia, R.A. Riege, A.P. Grollman,
G. Shoham
Department of Inorganic and Analytical Chemistry, The Hebrew University of Jerusalem, Israel, Department of
Pharmacological Sciences, State University of New York at Stony Brook, Stony Brook NY, Biology
Department, Brookhaven National Laboratory, Upton NY, USA P480
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ENZYME ENDONUCLEASE-VIII
G. Golan, D.O. Zharkov, H. Feinberg, A.S. Fernandes, S.E. Gerchman, J.H. Kycia, A.P. Grollman, G. Shoham
Department of Inorganic and Analytical Chemistry, The Hebrew University of Jerusalem, Israel, Laboratory of
Chemical Biology, Department of Pharmacological Sciences, State University of New York at Stony Brook,
Stony Brook NY, Biology Department, Brookhaven National Laboratory, Upton NY, USA P481
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P. Grieco, P. Campiglia, E. Novellino, L. Marinelli, P. Rovero, R. Patacchini, C.A. Maggi, A. Carotenuto
Dipartimento di Chimica Farmaceutica e Toss., Università di Napoli 'Federico II', Napoli, Dipartimento di
Scienze Farmaceutiche, Università di Firenze, Menarini Ricerche S.P.A., Firenze, Italy P482
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T.A. Gudasheva, A.A. Morozova, S.S. Trofimov, R.U. Ostrovskaya
Chemistry Department, Pharmacology Department, Institute of Pharmacology RAMS, Moscow, Russia P483
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J. Leprince, D. Cosquer, G. Bellemer, H. Tollemer, D. Chatenet, M.C. Tonon, H. Vaudry
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 Department of Chemistry and Biochemistry, Campo Grande, Lisboa, Portugal P516
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 Department of Biophysics, Federal University of São Paulo, Department of Biochemistry, Institute of
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M. M. Shemyakin & Yu.A.Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow, Russia P532

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 The Graduate School of Food and Medicinal Sciences, Faculty of Pharmaceutical Sciences, High Technology Research Center, Kobe Gakuin University, Kobe, Tohoku Pharmaceutical University, Sendai, Japan, Medicinal Chemistry Group, LCBRA, National Institute Environmental Health Sciences, Research Triangle Park NC, USA P544
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 G. Golan, D.O. Zharkov, R. Gilboa, A.P. Grollman, **G. Shoham**
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 Chemical Synthesis, Synthetic Antitumor Substances, The N. N. Blokhin Cancer Research Center of Academy Sciences, Element-Organic Chemistry, Institute of Organic Chemistry and Technology, Moscow, Russia P546
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D. Sobolewski, I. Derdowska, J. Slaninova, J. Zabrocki, B. Lammek
 Department of Chemistry, University of Gdansk, Poland, Department of Biological Chemistry, Institute of Organic Chemistry Nad Biochemistry, Academy of Sciences of The Czech Republic, Prague, Czech Republic, Institute of Organic Chemistry, Technical University of Lodz, Poland P547
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M.G. Spasova, G.I. Ivanova, T.I. Pajpanova, T.S. Milkova
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METAL ION DRIVEN TURN CONFORMATION IN TWO HISTIDINE-CONTAINING SHORT PEPTIDES

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CYCLOTIDES: NOVEL PEPTIDIC PESTICIDES FOR PLANT PROTECTION

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SOLUTION STRUCTURE OF THE HUMAN ENDOSTATIN FRAGMENT EH6-49 BY 1-H NMR AND MOLECULAR DYNAMICS CALCULATIONS

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TOWARDS MODULAR ALPHA-HELICES: COMFORMATIONALLY STABLE CYCLIC PENTAPEPTIDES AS ALPHA-TURN MIMETICS

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CONFORMATIONAL STUDIES OF TWO BRADYKININ ANALOGUES BY USING TWO-DIMENSIONAL NMR TECHNIQUES

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CONFORMATION OF THE AVP ANALOGUES SUBSTITUTED WITH N-METHYLPHENYLALANINE AT POSITIONS 2 AND 3 IN DIMETHYL SULFOXIDE SOLUTION DERIVED FROM NMR SPECTROSCOPY

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C. Toniolo, F. Formaggio, S. Tognon, Q.B. Broxterman, B. Kaptein, R. Huang, V. Setnicka, T.A. Keiderling, I.H. Mc Coll, L. Hecht, L. Barron
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PEPTIDE SELF-ASSEMBLED MONOLAYERS ON A GOLD SURFACE

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 Department of Chemistry, College of Science, Northeastern University, Shenyang, College of Life Science, Jilin University, Changchun, China P630
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S. Billová, O. Sedo, L. Havran, E. Palecek, J. Havel
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 Department of Chemistry, Organic and Bioorganic Chemistry, Department of Biology, University of Bielefeld, Bielefeld, Germany P635
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T. Kawada, A. Kanda, H. Minakata, O. Matsushima, H. Satake
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P. Budde, I. Schulte, A. Appel, R. Hess, S. Neitz, M. Schrader, H. Tammen, H. Rose, **P. Schulz-Knappe**
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EXPRESSION AND FUNCTIONAL CHARACTERIZATION OF A NEW CYP2C9 VARIANT

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IMMUNE FOCUSING TO MAJOR ALLERGENS PREVENTS THE RECOGNITION OF MINOR ANTIGENS AND ALLERGY FORMATION

L.G. Alekseeva, E.V. Svirshchevskaya, M.A. Shevchenko, A.N. Marchenko, C.V. Benevolensky, T.M. Andronova

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HIGHLY IMMUNOGENIC AND BROADLY RECOGNIZED HIV DERIVED CTL EPITOPE MIMICS

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S.Z. Bosze, G. Mezo, N. Caccamo, F. Dieli, D. Andreu, V. Tsikaris, C. Sakarellos, F. Hudecz
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DEVELOPMENT OF AN PEPTIDE-BASED ELISA FOR THE DETECTION OF TWO TYPES OF AUTOIMMUNE DERMATOSES

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IDENTIFICATION OF A CD14-DERIVED PEPTIDE WITH LPS NEUTRALIZING ACTIVITY

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FAMILY OF EW-PEPTIDE DRUGS

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SCAFFOLDED PEPTIDES FOR THE MIMICRY OF THE DISCONTINUOUS BINDING SITE OF HIV-GP120 FOR CD4

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R. Frkanec, D. Travas, V. Noethig Laslo, K. Miroslavljevic, M. Krstanovic, B. Vranesic, J. Tomasic
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A SYNTHETIC GROUP A STREPTOCOCCAL VACCINE OF HIGH PURITY AND BROAD PROTECTIVE RANGE

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FAST HIGH RESOLUTION CHROMATOGRAPHY OF PEPTIDE LIBRARIES AND DIGESTS ON SILICA-BASED CAPILLARY MONOLITHS DIRECTLY COUPLED TO ES-FTICR-MS

D.G. Schmid, **G. Jung**, F.C. Leinweber, U. Tallarek, D. Lubda, B. Sontheimer, K.H. Wiesmueller

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M. Manea, K. Horvati, G. Mezo, R. Cecal, X. Tian, R. Stefanescu, F. Hudecz, M. Przybylski

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NEW ANALOGS OF HEXAPEPTIDE PRO-GLU-VAL-LYS-GLU-LYS.DESIGN, SYNTHESIS AND BIOLOGICAL ACTIVITY

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J. Rossjohn
Microbiology and Immunology, The University of Melbourne, Division of Health Sciences, CSIRO, Parkville,
Biochemistry and Molecular Biology, Monash University, Clayton, Australia P661
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for Peptide Chemistry, Hungarian Academy of Science, Eötvös L. University, Budapest, Hungary, Department
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Athens, Greece P664
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Chemistry, MAssachusetts Institute of Technology, Cambridge MA, USA P665
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EROP-MOSCOW, A DATABASE OF THE NATURAL OLIGOPEPTIDES

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K.S. Gannon, M. Aronovitz, J. Bardutzky, K. Bhattacharya, M. Fisher, R.R. Ratan, A Siddiq, V.E. Shashoua, **S.A. Kates**

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IDENTIFICATION OF CHROMOSOMAL TRANSLOCATIONS IN ACUTE LYMPHOBLASTIC LEUKEMIA IN IRANIAN CHILDREN

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STRUCTURE-ACTIVITY RELATIONSHIP OF MINI-PROINSULINS

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ADDITIONAL POSTERS

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EVOLUTIONARY COMBINATORIAL CHEMISTRY, A NOVEL TOOL FOR SAR STUDIES ON PEPTIDE TRANSPORT ACROSS THE BLOOD-BRAIN BARRIER. 2. DESIGN, SYNTHESIS AND EVALUATION OF THE FIRST PEPTIDE GENERATION

M. Teixido, I. Belda, S. González, M. Fabre, S. Vilar?, J.M. Garrell, X. Rosell?, F. Albericio, E. Giralt
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LOW MOLECULAR WEIGHT CXCR4 ANTAGONISTS BASED ON T140 ANALOGS THAT WERE IDENTIFIED AS TRIPLE-FUNCTIONAL AGENTS HAVING INHIBITORY ACTIVITIES AGAINST HIV INFECTION, CANCER METASTASIS AND RHEUMATOID ARTHRITIS

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INTEGRIN ANTAGONISTS: DESIGN, SYNTHESIS AND BIOLOGICAL EVALUATION

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EFFICIENT SYNTHESIS OF DIFFICULT SEQUENCE-CONTAINING PEPTIDES THROUGH O-ACYL ISOPEPTIDES: APPLICATION TO THE SYNTHESIS OF ALZHEIMER'S DISEASE-RELATED PEPTIDE, A β 1-42

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NOVEL WATER-SOLUBLE PRODRUGS OF CYCLOSPORIN ANALOGUES

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