

THE EUROPEAN PEPTIDE SOCIETY NEWSLETTER



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Peptides in Barcelona

Biologically Active
Peptides X

Workshop on
Membrane-Active Peptides

French Meeting on Peptides
and Proteins

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Cover photo: Casa Milà (Antoni Gaudí, 1910) is one of identifying icons of Barcelona

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NEWSLETTER EDITOR

Professor Paul Cordopatis
 Department of Pharmacy
 University of Patras
 GR 265 00 Patras, Greece
 Tel: (+30) 2610 997 713
 (+30) 2610 969 934
 Fax: (+30) 2610 997 714
 E-mail: pacord@upatras.gr

SOCIETY NEWSLETTER

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Peptides in Barcelona, 2007

Some dozen years ago, this correspondent published a possibly first-ever account of peptide science in the Iberian peninsula (“Peptides in Iberia”, available on-line at www.pepsoc.com/pepCda/uploadedDownloads/OfflinePublication5240_Download.pdf). Since then, significant growth in peptide research activities has taken place in both Iberian countries to make an update necessary. While this report will focus exclusively on recent developments in Barcelona, where the early steps of Spanish peptide science took place and the most active peptide research community is concentrated, it by no means pretends to ignore developments at other Spanish groups in Madrid (González-Muñiz, Jiménez-Barbero, Pérez-Gil, Rivas), Santiago (Granja, Mascareñas), Valencia (Pérez-Payà), or Zaragoza (Cativuela), to name just a few laboratories engaged in peptide research. Along similar lines, though perhaps at a slower pace, peptide science has diversified and grown in Portugal. Hopefully, separate accounts of all these advances will appear in these pages in the not too distant future.

At least two groups with peptide interests remain at the first hotbed of Spanish peptide science, the Center for Research and Development of the CSIC (Spanish High

Recent pictures of the Giralte (A), Albericio (B) and Andreu (C) groups.



Giralte (A)



Albericio (B).



Andreu (C).

Research Council) in Barcelona (www.iiqab.csic.es). Dr. Isabel Haro, current head of the Department of Peptide and Protein Chemistry at the Center, leads a group focused on immunopeptides, peptide vaccines and diagnostics. Dr. Francesca Reig, a pioneer of peptide chemistry in Spain, has in recent years re-focused her research on the development of delivery systems for peptides of biomedical interest. Other groups in the Centre make occasional contributors to peptide-based research.

The other historical peptide group in Spain, launched in 1974 by Ernest Giralt at the University of Barcelona, became known for its organization of the 21st European Peptide Symposium (Platja d'Aro, 1990). The group kept steadily growing in the 80–90s and at the onset of the 21st century experienced a considerable (and, happily, painless) transformation, spawning into several independent though often interacting laboratories. A substantial part of its former activity at the Department of Organic Chemistry, University of Barcelona, has now moved to the IRB [Biomedical Research Institute (www.irbbarcelona.org), Barcelona Science Park], with Ernest Giralt and Fernando Albericio as group leaders. Prof. Giralt directs the Chemistry and Molecular Pharmacology Program at IRB, with his original focus on the design and structural

analysis of bioactive peptides broadening to other targets, particularly proteins and natural products (www.pcb.ub.es/giralt/). Within the same Program, Prof. Albericio, current director of the Barcelona Science Park, heads a research group (www.pcb.ub.es/fama/) which under the nominal title of combinatorial chemistry in practice embraces a broad array of peptide-related subjects, from synthetic methodology to cyclic peptide natural products of marine origin and other polyheterocyclic nitrogen-containing systems. As one of the pioneers of combinatorial chemistry in Spain, Prof. Albericio was the promoter of a state-of-the-art combichem facility led by long-time associate Dr. Miriam Royo, with significant links to domestic and international pharma industry. Also at IRB, Prof. Miquel Pons, another Giralt lab old-timer, is pursuing his life-long interests in structural biology as leader of one of IRB's biomolecular NMR groups.

A couple hundred yards north from the IRB, at new premises of the Department of Organic Chemistry of the University of Barcelona, peptide research continues through the work of former Giralt

associates such as Drs. Ernesto Nicolás (bioactive peptides), Paul Lloyd-Williams (chemistry of amino acids) and Francesc Rabanal (membrane-active peptides).

A new setting for peptide research in the Barcelona area was opened in 2001-02 when this correspondent moved his research group to the recently created Department of Experimental and Health Sciences of the Pompeu Fabra University, then a rather new public university where he became professor of chemistry and head of the proteomics facility. Over the last five years, the group (www.upf.edu/cexs/recerca/uprot/index.htm) has continued to cultivate long-standing interests on antimicrobial peptides (now largely focusing on clinical targets) and peptide vaccines (including de novo design and replication of complex antigenic sites) while gradually expanding into proteomics (differential expression in antibiotic-resistance, markers for pancreatic cancer, lectin capture glycomics) and other multidisciplinary research areas. The recent move to brand-new premises at the Barcelona Biomedical Research Park (www.prbb.org) has significantly improved the group's scope and

resources, including the recent development of a pharma-oriented Bioanalytics, Pharmacology & Proteomics group (www.bapp.upf.edu/), in association with another PRBB unit.

This survey of the Barcelona peptide scene would be quite incomplete without mentioning two companies successfully marketing peptide products. On the one hand, BCN Peptides (<http://www.bcnpeptides.com>) is since January 2005 an independent company within the Lipotec Group, already mentioned in the above 1995 survey. Since then, the company, relying solely on solid phase methodology, has experienced considerable growth and belongs in a reduced group of businesses supplying bulk peptides under strict GMP specs as active pharmaceutical ingredients. ERA Biotech (www.erabiotech.com), on the other hand, operating from the Barcelona Science Park and listed as one of Europe's 200 most innovative companies (all sectors included) of 2007, commercializes proprietary technology for plant-based production of recombinant proteins and peptides.

Contributed by David Andreu

CONFERENCE REPORT

2nd Workshop on Biophysics of Membrane-Active Peptides

Lisbon, 1–4 April, 2007

The “2nd Workshop on Biophysics of Membrane-Active Peptides” was the second meeting of a series of meetings bringing together researchers from the various fields of membrane biophysics and peptide biochemistry that started with the title “Workshop on Biophysics of Membrane-Permeabilizing and Membrane-Translocation peptides” in Berlin, in April 2005.

The workshop took place in the University of Lisbon Science Museum. As expected, the space involved the visitors in a unique and real 19th century scientific setting. It was a site of tremendous historic significance of teaching and research. We believe it was a stimulus for inspiration, creativity, and collaboration amongst participants.

The meeting followed its original plan, with four symposia:

- 1) Membrane-translocating peptides / Cell penetrating peptides,
- 2) Membrane-permeabilizing peptides / Antimicrobial peptides,
- 3) Fusogenic peptides, and
- 4) Structure and Dynamics in peptide-membrane interaction

All symposia followed the same principle: 1–3 topical invited speakers

plus 3–4 selected communications. Most selected communications were from young scientists. There were a lot of poster communications (82), most of them in the “Structure and Dynamics in peptide-membrane interaction” (26) and “Membrane-permeabilizing peptides/Antimicrobial peptides” (25). The “Membrane-translocating peptides/Cell penetrating peptides” section had 16 posters presented, while the “Fusogenic peptides” section had 13.

Fifteen contributions were selected for oral presentations. There were seven invited topical lectures and three plenary lectures. Dr. Stuart McLaughlin, one of the main speakers could not attend due to a health problem in his family and he was replaced by Dr. Manuel Prieto, who gave a lecture titled “Protein amyloid-like fiber formation induced by negatively charged membranes”.

The meeting was attended by about 120 people, half of them being Ph.D. students. There were more than 80 poster communications from 22 countries (Australia, Brazil, Canada, South Korea, USA, and many European countries)

A thematic issue of the Journal of Peptide Science devoted to the workshop will be published in the Fall.

The success of the workshop led the participants to accept the suggestion of Dr. Anne Ulrich to organize a third edition of the meeting in Karlsruhe (Germany) in 2009.

Contributed by Miguel Castanho



CONFERENCE REPORT

Biologically Active Peptides \bar{x}

**Czech and Slovak National Peptide Conference
Prague, 11–13 April 2007**

The jubilee 10th Czech and Slovak National Conference “Biologically Active Peptides \bar{x} ” (BAP \bar{x}) took place this April, 11–13, again in the Institute of Organic Chemistry and Biochemistry (IOCB) of the Academy of Sciences of the Czech Republic. The Conference was organized on the Czech part by Dr. J. Slaninova and on the Slovak part by Dr. S. Zorad. There were 58 registered participants, 9 out of them from abroad. It is a pity that only a half of them was present when taking the photo. The Conference was accompanied also by the exhibition of 6 companies (Applied Biosystems, a.s., BioTech, s.r.o., INGOS, s.r.o., MERCK, s.r.o., Schoeller Pharma, s.r.o. and Sigma-Aldrich, s.r.o.).

During the two and a half days, 19 lectures and 23 posters were presented. The representant of IOCB, Dr. T. Kraus, officially opened the conference. The first lecture was delivered by the French representative in the EPS, Prof. S. Lavielle from Paris, and concerned Trojan peptides – cell penetrating peptides – and their antimicrobial potency. It was followed by lecture of Dr. V. Čeřovský on wasp venom antimicrobial peptides. Other plenary lectures were presented by Dr. C. Fekete from Budapest (Hypothalamic peptides in the regulation of energy homeostasis), Dr. M. Haluzík from Prague (Adipose tissue as a source of proinflammatory factors in



Some of the participants of the Conference in front of the IOCB

obesity), Dr. Benaki from Athens (Structural studies of humanin and its derivatives), Dr. K.Uray from Budapest (Antibody recognition and structure of mucin 2 epitop), Dr. J. Jankowski from Berlin (MALDI-TOF-TOF mass-spectrometric analysis of angiotensin peptides), Dr. Y. Imai from Wien (Angiotensin converting enzyme 2 (ACE2) and molecular explanation for SARS pathogenesis) and Dr. M. Zeman from Bratislava (Physiological and behavioral changes induced by over-expressed renin-angiotensin system in rat).

The participants appreciated a series of lectures concerning insect peptides of Prof. J. Žd'árek and Dr. J. Hlaváček from Prague (Neuropeptides involved in the puparium formation and oostatic peptides, respectively) and Dr. I. Daubnerová and Dr. L. Roller from Bratislava (Baculovirus mediated gene transfer and neuropeptides encoded in the silkworm, respectively). Interesting lecture was delivered by Dr. J. Bakoš in which he showed us that rats have been fond of wheel running and have been able to run up to 10 km per day.

All posters in the poster session were of high quality, let us mention the contribution of Dr. J. Cvačka concerning mass spectrometry of peptides from bumblebee venom reservoirs, Mgr. J. Maixnerova's poster concerning binding sites for the CART peptide with PC12 cells or posters on studies of the mechanism of stress of the Bulgarian colleagues Drs. A. Bocheva, E. B. Djambajsova and T. Pajpanova and the group from 1st Medical Faculty from Prague (Dr S. Hynie and Dr. V. Klenerova). We should mention also the posters on the capillary electrophoresis from the group of Dr. V. Kašička. All the contributions will be published in English as short communications (2–4 pages) in the Proceedings in the Collection Symposium Series.

Thanks to the sponsor contributions (in addition to those taking part in the exhibition mentioned above, to Clonestar Peptide Services, s.r.o., European Peptide Society, Eurorad Ltd., Ferring a.s.,

Lacomed s.r.o., Lambda Life, MGP Slovakia, s.r.o., PolyPeptide Labs a.s), the get-together party could take place in Vila Lanna on Wednesday and the participants could enjoy a concert of organ music in the St. Giles church.

As far as the weather is concerned, this year was no exception. The participants of the conference had the opportunity to admire the beauty of Prague in full blossom in sunshine and warm weather.

In comparison to the 1st BAP which took place in February 1988, there was about the same number of participants as well as of lectures and posters. From the participants of the first one, only Dr. Barth, Dr. Blahovec, Dr. Čeřovský and Dr. Slaninová participated also at the jubilee 10th Conference.

Contributed by Jiřina Slaninová and Stefan Zorad.

CONFERENCE REPORT

15th French Meeting on Peptides and Proteins

Dinard – France, 20–25 May 2007

The 15th “Reunion” on Peptides and Proteins was held in Dinard, France on May 20–25 2007 at the “Manoir de la Vicomté”, under the sponsorship of the European Peptide Society, the University of Rennes1, the CNRS, the “Region Bretagne”, Ille et Vilaine Council and “Rennes Metropole”. Twenty companies have sponsored this meeting, giving the opportunity to finance the intervention of young researchers. The meeting has been organized by the GFPP “Groupe Français des Peptides et des Protéines” and it was very successful, having an attendance of 170 participants from 7 Countries and 12 universities from all over France.

The scientific programme included 14 Lectures, 37 oral presentations, 85 Posters Presentations as well as a round table. Scientific contributions described several topics: Natural and Marine Peptides, Peptides and Nanosciences, Chemistry of amino acids, Directed Evolution, Auto assemblage, Modelling-Structure-Membranes, Dendritic Cellules-Immunotherapy, mi RNA, si RNA and Post-Traductional Modification.

The invited speakers who covered the symposium were Fernando Albericio (Barcelona) *New tricks for Solid Phase Peptide Synthesis*, Joël Henry (Caen) *Peptides régulateurs chez les mollusques marins*, Anne Hosmalin (Paris 5) *Présentation d'antigènes de lipopeptides vaccinaux par les cellules dendritiques*.



Delegates, 15th Reunion Peptides and Proteins

Dave Fernig (Liverpool) *Protein-like nanoparticles: tools for probing biomolecular function*, Brahim Lounis (Bordeaux) *Optical detection of single metal nanoparticles*, Frederic Lamaty (Montpellier) *Préparation d'alpha- et beta-aminoacides insaturés, synthons multi-fonctionnels pour la synthèse d'hétérocycles*, Andrew Griffiths (Strasbourg) *Directed evolution and high-throughput screening in microdroplets*, Catherine Etchebest (Paris 7) *Protéines /in silico/: structure, dynamique et interactions*, Carine Tisne (Paris V)

Identification par RMN de ligands peptidiques et non peptidiques d'ARN Structure, Arndt Benecke (Paris) *Coupling epigenesis, transcription, and DNA repair through the intricate interplay of sumoylation and acetylation of Thymine DNA Glycosylase*. Stephan Dimitrov (Grenoble) *Histone variant nucleosomes, remodeling and transcription*, Irina Naguibneva (Villejuif) *microARN et siARN dans les cellules normales et pathologiques*, Stephan Matile (Genève) *Synthetic Multifunctional Nanoarchitecture in Lipid Bilayers: From Porous*

Sensors to Artificial Photosynthesis, Frank Artzner (Rennes) Nanotubes peptidiques: des molécules simples pour un assemblage complexe.

Solange Lavielle (Paris) managed a workshop entitled “Labelling, why, how, and what for” on Wednesday night.

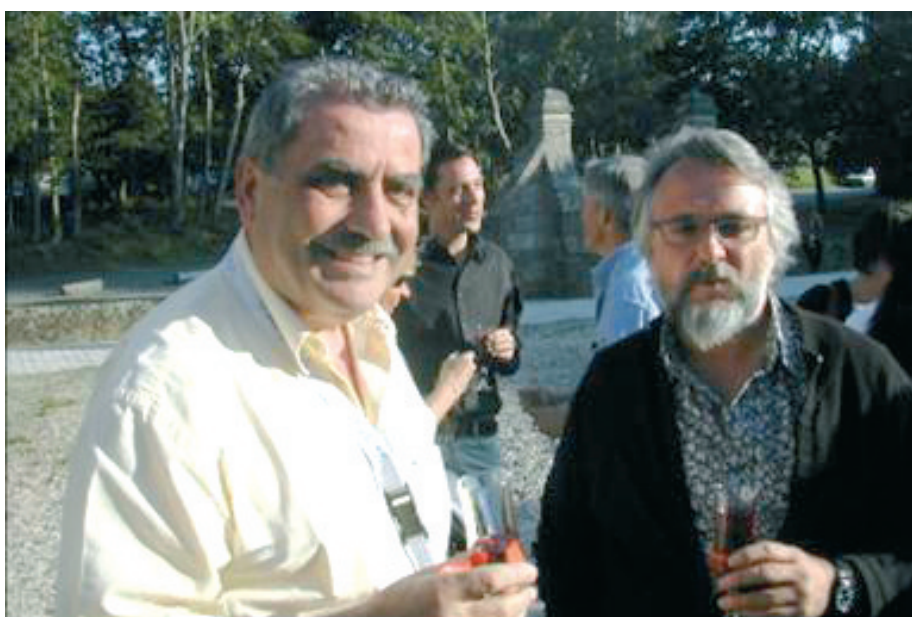
The official languages were both French and English. In addition to the scientific programme, all the attendees had the opportunity to visit Mt St Michel’s Abbey or to cross the Bay through the quicksand of the Mont St Michel (three hours walk) on Wednesday afternoon. A banquet took place on Thursday evening after an aperitif outside of the Manoir.

The meeting proved to be once again a highly successful reunion for exchanging ideas on the competitive area of peptide and protein domain. This meeting was an important and decisive stimulus for future work in the area.

Contributed by Michèle Baudy-Floc’h



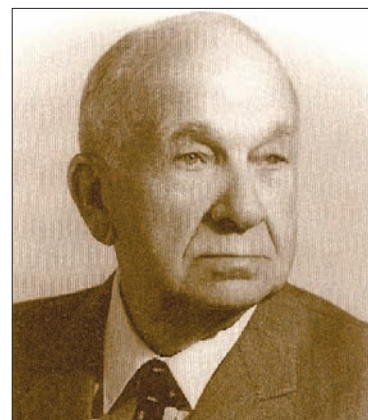
Crossing the bay of the Mont St Michel



Jean Martinez and Vincent Dive

In Memoriam

Professor Dr Hab. Mirosław T. Leplawy



On May 30, 2007 Professor Mirosław T. Leplawy, one of the founders of Polish peptide science, passed away. More importantly, he was a mentor, scientific father and friend to many of us.

Mirosław Tomasz Leplawy was born on September 22, 1922 in Kostrzyn Wielkopolski. He began his Chemical studies in 1943 at the State Technical College (Państwowa Wyższa Szkoła Techniczna), founded during the German occupation at the Technical University of Warsaw. After the second world war he continued his studies at the Faculty of Chemistry, Technical University of Łódź, and graduated in 1949 with M.Sc. and engineer in chemistry. Throughout his scientific career he has been connected with Technical University of Łódź. He received his Ph.D. in 1957 under the supervision of Professor Osman Achmatowicz, both an outstanding chemist and an educator of many Polish organic chemists.

In 1957–1959 Professor Leplawy was awarded a British Council scholarship and joined Prof. G.W. Kenner's group at the University of Liverpool (UK). In 1964 he defended his D.Sc. thesis (habilitation). He was awarded the title of full professor in 1977. For many years (1960–1998) he delivered lectures on the chemistry and technology of drugs.

He organized and educated a scientific team, secured high-quality equipment, and

created the conditions under which fruitful scientific activity could flourish.

He visited many of the major chemistry departments in the world and during the process made lifelong friendships with many notable chemists. He initiated scientific exchanges between his group and many other peptide laboratories, including the Department of Molecular Biology and Pharmacology Washington University, St. Louis; the Department of Organic Chemistry, University of Padova; the Department of Biochemistry and Molecular Biology, Medical College of Ohio; and the Department of Food Sciences, Justus Liebig University of Gissen.

He supervised 11 Ph.D. candidates in chemistry, and further inspired four scientists to successfully complete the procedures associated with obtaining a D.Sc. degree (two of them are now professors).

Professor Leplawy's scientific interests were focused on the chemistry and biology of peptides containing unusual amino acids. He was a pioneer on this subject in Poland. His paper published in *Tetrahedron* **1960**, *11* 39–51 (Leplawy, M. T., Jones, D. S., Kenner, G. W., Sheppard, R. C." Peptides. XI. Synthesis of peptides derived from α -methylalanine") initiated a world-wide interest in α,α -disubstituted amino acids. The peptide research group led by Professor Leplawy has pioneered the chemistry of sterically hindered,

α -hydroxymethyl- α -alkyl amino acids and α -hydroxymethylated peptide analogues. A significant number of published papers on this subject have originated from his group. The scientific record of Prof. Leplawy includes 110 papers, 140 conference communications, 20 patents and many unpublished studies for the pharmaceutical industry.

While Head of the Institute of Organic Chemistry at Technical University of Łódź for a twenty year period (1972–1982) he demonstrated all the qualities that a successful administrator at a major university requires. He served as Vice Dean for 4 terms of office (1967–1976). As a good citizen of the chemical community professor Leplawy also served as chairman of Scientific Boards for the Institute of Technology and Drug Chemistry at Medical University of Łódź, and twice as a chairman of the Organizing Committee of the Polish Peptide Symposium in Łódź (1979 and 1991).

Professor Leplawy was fortunate to live a very happy private life. He was a loving husband, father and grandfather. He loved life, enjoyed tourism and was an active participant in several sporting activities (skiing, tennis).

Professor Leplawy was both a truly inspiring scientist and human being. He will be warmly remembered by all who were privileged to have known him.

Contributed by Aleksandra Olma

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HANDBOOK OF BIOSENSORS AND BIOCHIPS

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ISAO KARUBE

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Society News

Executive Committee Meeting

Eötvös Loránd University, Budapest, 9 June 2007.

- Secretary of EPS reported that no nominations were received to date for National Representatives for Latvia, Belgium and Russia. The EC asked the Secretary to organise a new procedure to identify National representatives for the above countries. Until the election of new Council members from these countries, the EC confirms Dr. Liepina (Latvia) and Dr. Tourwe (Belgium) to act as temporary representatives of their peptide communities. The nomination procedure will be performed in September/October.
- Prof. Benedetti presented the draft of the accounts for 2006. This was prepared by Mazars LLP, Oxford, UK. The members of the EC acknowledged the appointment of a new auditor in Italy. This change will take place for the 2007 audit and decreases the related expenses.
- The EC reviewed the situation of the Sponsors. The list of Sponsors was presented. EC acknowledged the effort of Prof. Benedetti to attract more sponsors. The members of the EC offered their help to have new sponsors.
- The Treasurer of the Society informed the EC about the present incomes/expenditure. The Executive Committee reviewed the status of the budget of 2007 and accepted some proposed changes: cut on the expenditure of the support of small meetings, support of EPS participation at the 4th International Peptide Symposium in Australia. EC agreed to provide support up to 500 EURO per applicant for young (under age 40) participants of 4th IPS to contribute to their expenses. The applicants must be members of EPS, and must have an oral or poster presentation. The EPS will have up to 10 grants.
- The establishment of the Webmaster position at EPS was made in collaboration with Wiley to provide appropriate

service for members of the Society. A probation a period of one year was agreed. After this the results will be evaluated and EC will decide on the continuation. The EC discussed activities expected from the Webmaster and also the dissemination of related information. The EC asked Professor Benedetti to inform sponsors about the possibility to have their news item etc. on the EPS website. The difficulties of website related membership application was detected earlier this year. The EC asked the Webmaster in collaboration with Prof. Hudecz to test the membership application link of the EPS website.

- 30th EPS in Finland (2008)
Good progress in the preparation of the Symposium was reported (scientific programme, venue, exhibition, accommodation etc.). The members of the EC had several suggestions.
- 31st EPS in Denmark (2010)
The Secretary reported that the National Representative of Denmark, Dr. T. Hoeg-Jensen received and returned the letter of acceptance and conditions in January 2007. The Symposium will be chaired by Dr. T. Hoeg-Jensen, Professor M. Meldal and Dr. K. J. Jensen. EC asked the Secretary to contact the organisers of the 31st EPS about the 5th IPS to be held in Japan in 2010. The EC suggests that the 31st EPS should be organised in March/April, 2010 to avoid conflict of timing.
- 32nd EPS (2012)
EC agreed to propose to the Council of the Society Greece, as venue of the 32nd EPS.
- The Scientific Affairs Officer reported that the members of the sub-committee are: David Andreu, Michael Bienert, Anna Maria Papini, Jirina Slaninova, Dirk Tourwé. Concerning the support of small meetings, it has been confirmed that the financial support will be provided to the organisers only after the sponsored meeting is ended and the organizer has submitted a report. Small Meetings

support approved for 2007:

- 2nd Workshop on Biophysics on Bioactive Peptides, Lisbon, Portugal, April 1–4, 2007
- 3rd Dutch Peptide Symposium, Utrecht University, The Netherlands, April 27, 2007
- 15th Réunion on Peptides and Proteins, Dinard, May 20–25 2007, Dinard, France
- 19th Polish Peptide Symposium, Pultusk, Poland, September 23–27, 2007
- The Newsletter Editor reported that the new, previously accepted procedure was followed. The members of the EC found that it is acceptable to have the Newsletter separately from the J. Peptide Science, but delivered together with the Journal. Prof. Cordopatis experienced problems to have news items for the Newsletter. The EC agreed with the idea of Editor to create a new page to collect and provide information about new trans-European collaborative projects. Prof. Lankinen proposed to provide room for publishing peptide science related memories, essays etc. by retired and active colleagues in the Newsletter. The EC highly appreciated and accepted this suggestion.
- Concerning the Journal of Peptide Science, it has been reported that the number of submissions has continued to increase. They cover a good variety of aspects of peptide science, and the quality is consistently good. The Impact Factor has risen and is now about 1.8. The Manuscript Central system seems to work well, and the collaboration with the Wiley team led by Martin Rothlisberger has excellent and congenial people to work with. An occasional *Historical Essay* feature, which other journals in the field do not have, was introduced by Dr. Jones. Prof. Benedetti reported that the December, 2006 issue of JPS dedicated to the 10th Naples Workshop, was published very quickly after 5 months of the meeting. Three are special issues in the pipeline: 2nd Natural Peptides to Drugs Symposium in Zermatt, April 2006, Biophysics of Membrane-Active

Peptides, Lisbon April 2007, Peptides in Nanotechnology. EC expressed its great satisfaction with the report. Prof. Benedetti proposed to ask Dr. Jones in helping to create an archive of EPS in normal and also in digital form. Prof. Hudecz will write a letter to invite Dr Jones to act as responsible officer for this project.

- Concerning the new Editor-In-Chief for the Journal of Peptide Science Prof. Martinez reported on the situation developed. EC agreed to appoint Prof. L. Moroder as Editor-in-Chief of JPS.
- The next EC meeting in connection with the EPS 30 will take place in Helsinki on Saturday, April 19, 2008.

The venue of the Executive Committee meeting in Budapest was the Eötvös Loránd University. The meeting was perfectly organised by the Rector of the University, Professor Ferenc Hudecz. Sincere thanks go to him for the warm hospitality.

Condensed by the Editor from the Minutes of the Meeting provided by the EPS Secretary

Early EPS Symposia . . .

The photos presented here, are from the personal collection of the late Professor Gotfryd Kupryszewski, organizer of the 15th European Peptide Symposium held at Gdansk back at 1978, and kindly offered by Prof. Krzysztof Rolka.

The complete archive of the above event can be accessed at the Gdansk University server www.ppc.univ.gda.pl/15eps/pictures and we think that is an initiative worth to be praised and if possible to be repeated by other colleagues having archived photos of past European Peptide Symposia.







30th European Peptide Symposium

30EPS

Finlandia Hall, Helsinki, Finland
31 August - 5 September 2008

www.30eps.fi

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Tel: +358-9-5607500
Fax: +358-9-56075020
30eps@congrex.fi

CALENDAR of Forthcoming Events

2nd EUROPEAN CONFERENCE ON CHEMISTRY FOR LIFE SCIENCES

Wroclaw, Poland

4–8 September, 2007

For further information please contact:

Professor Henryk Kozlowski

Conference Chairman

Faculty of Chemistry, University of Wroclaw

Tel./Fax: +48 71 375 72 51

Email: henrykoz@wchuwr.chem.uni.

wroc.pl and lifesci@wchuwr.wroc.pl

Website: www.lifesciences2007.uni.

wroc.pl

9th INTERNATIONAL SYMPOSIUM ON SOLID PHASE SYNTHESIS, COMPLEMENTARY SOLUTION METHODS & COMBINATORIAL LIBRARIES

2nd INTERNATIONAL SYMPOSIUM ON PROTEOMIC, COMBINATORIAL & OTHER METHODS FOR DRUG DISCOVERY, DEVELOPMENT AND DELIVERY-COMPLEMENTARY VACCINE STRATEGIES

Norwich, England UK

28 August–1 September, 2007

For further information please contact:

Roger Epton, DSc, PhD, FRSC

Emeritus Professor & Coordinating Chairman

Norwich 2007 Symposia

Tel./Fax: +44 (0)1384 279324

Email: r.epton@mayflower.demon.co.uk

5th INTERNATIONAL CONFERENCE ON ARTHROPODS: CHEMICAL, PHYSIOLOGICAL AND ENVIRONMENTAL ASPECTS

Bialka Tatrzenska near Zakopane, Poland

16–21 September, 2007

For further information please contact:

Professor Danuta Konopinska

Faculty of Chemistry, University of Wroclaw

Tel.: (+48 71)-3757-250 or 3757-375

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For further information please contact:

Dr Aleksandra Misicka

Faculty of Chemistry, Warsaw University

Tel.: +48 605-231-688

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Email: misicka@chem.uw.edu.pl

Website: http://19pps.chem.uw.edu.pl

4th INTERNATIONAL PEPTIDE SYMPOSIUM

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6th HELLENIC FORUM ON BIOACTIVE PEPTIDES

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18–20 May, 2008

For further information please contact:

Professor Paul Cordopatis

Department of Pharmacy, University of Patras

Tel.: +30 2610 969 934

Fax: +30 2610 997 714

Email: pacord@upatras.gr

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Society Officers

Professor Jean Martinez

(Chairman)
Laboratoire des Aminoacides,
Peptides et Protéines
Faculté de Pharmacie
CNRS-UMR, BP 14491,
Av. Charles Flahault
F-34093 Montpellier Cédex 5
FRANCE
E-mail: martinez@pharma.
univ-montp1.fr
Tel: (+33) 467 54 86 50
Fax: (+33) 467 41 20 17

Professor Ferenc Hudecz

(Secretary)
Research Group of Peptide Chemistry
Hungarian Academy of Sciences
Eötvös Lorand University
Budapest 112, P.O. Box 32
H-1518 HUNGARY
E-mail: Fhudecz@ludens.elte.hu
Tel: (+36) 1 372 2828
Fax: (+36) 1 372 2620

Professor David Andreu

(Scientific Affairs Officer)
Department of Experimental
and Health Sciences
Universitat Pompeu Fabra
E-08003 Barcelona, SPAIN
E-mail: david.andreu@upf.edu
Tel/Fax: (+34) 935 422 934
Fax: (+34) 935 422 802

Professor Ettore Benedetti

(Treasurer)
Dipartimento delle Scienze Biologiche
Universita di Napoli "Federico II"
Via Mezzocannone 16
80134 Napoli, ITALY
E-mail: ettore.benedetti@unina.it
Tel: (+39) 081 253 6653
Fax: (+39) 081 253 4560

Professor Alex N. Eberle

University Hospital Basel
Department of Research
Klingelbergstrasse 23
CH-4301 Basel, SWITZERLAND
E-mail: alex-n.eberle@unibas.ch
Tel: (+41) 61 265 2382
Fax: (+41) 61 265 2706

**JOURNAL OF PEPTIDE
SCIENCE EDITOR-IN-CHIEF****Dr. John H. Jones**

Balliol College Oxford, OX1 3BJ UK
E-mail: john.jones@balliol.ox.ac.uk
Tel: (+44) 1865 277 733
Fax: (+44) 1865 277 803

NEWSLETTER EDITOR**Professor Paul Cordopatis**

Department of Pharmacy
University of Patras
GR-265 00 Patras, GREECE
E-mail: pacord@upatras.gr
Tel: (+30) 2610 997 713
(+30) 2610 969 934
Fax: (+30) 2610 997 714

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Luca De Luca

c/o Dipartimento delle Scienze Biologiche
Universita di Napoli "Federico II"
Via Mezzocannone 16
80134 – Napoli, ITALY
E-Mail: luca.deluca@unina.it
Tel: (+39) 081 253 6653
Cellphone: (+39) 0349 585 6345
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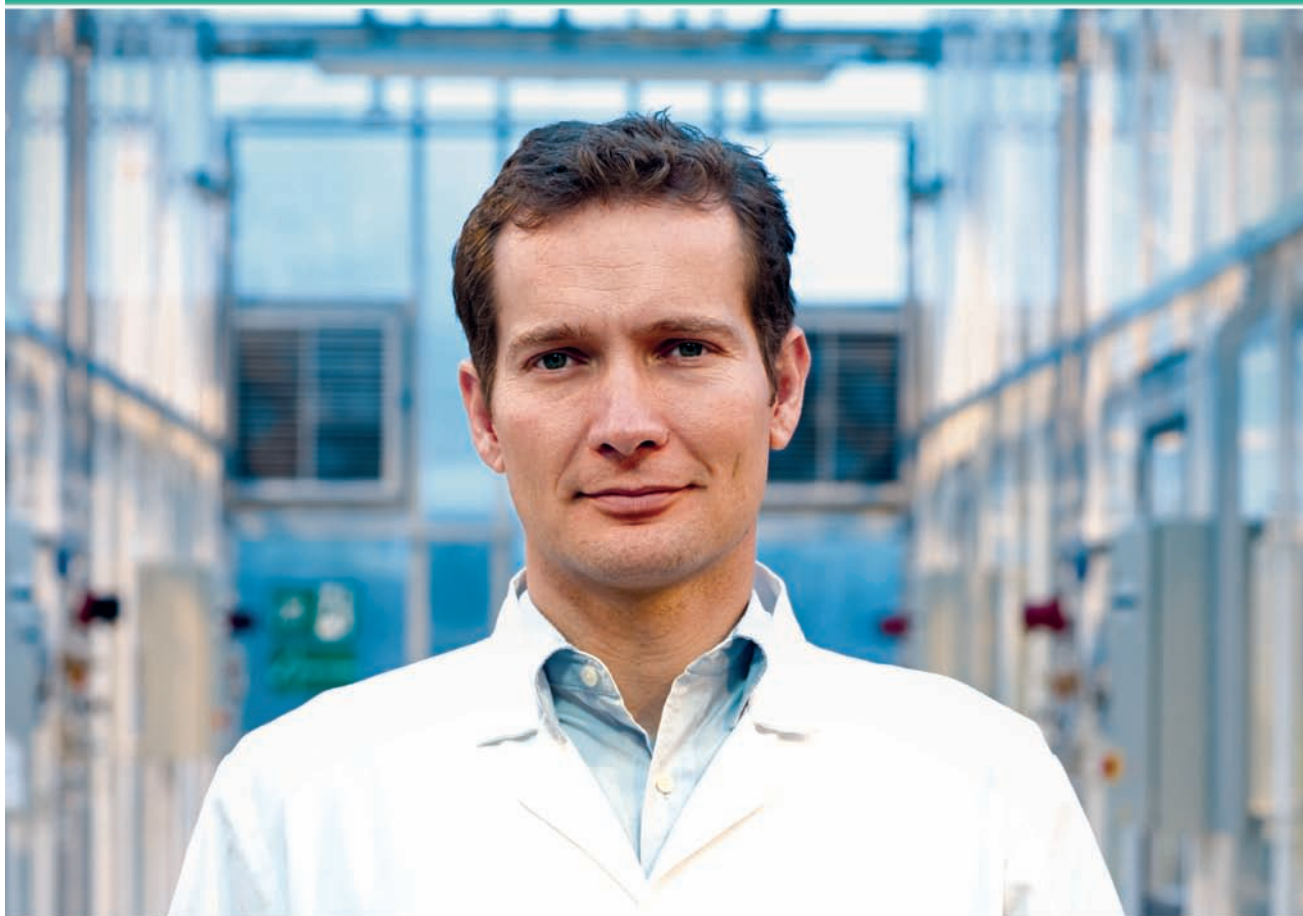
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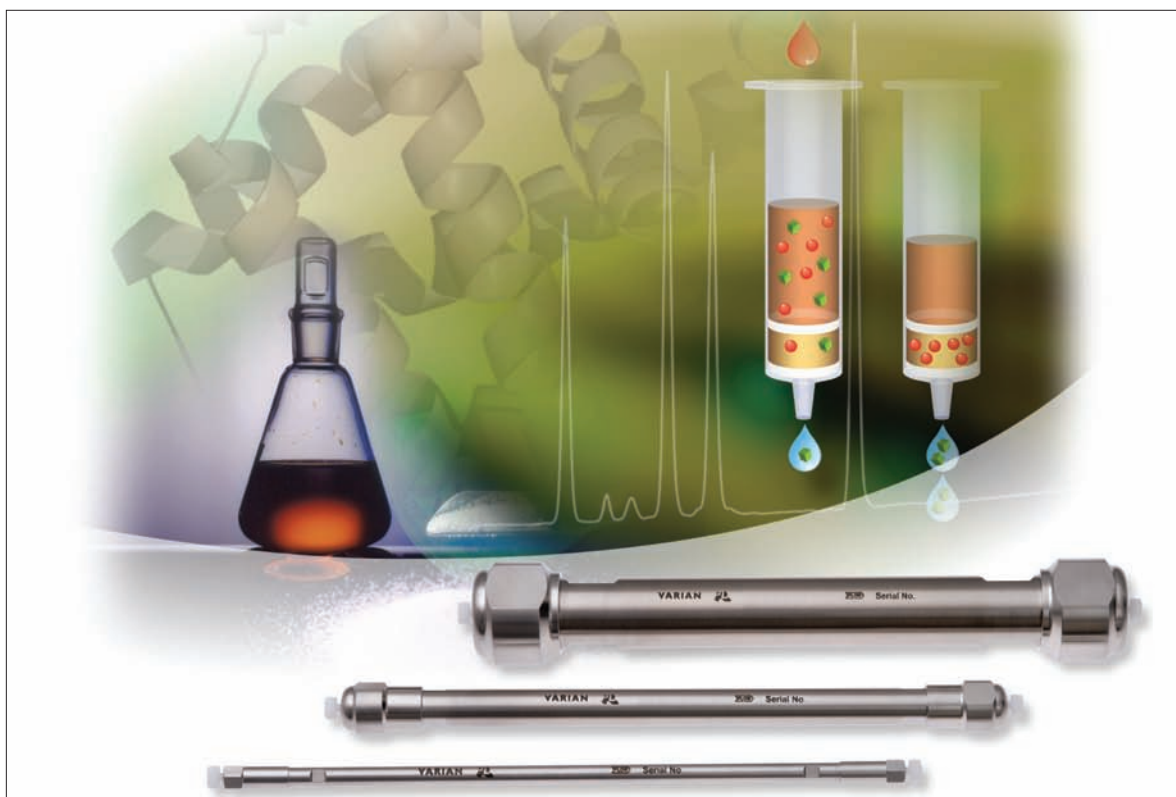


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