

# THE EUROPEAN PEPTIDE SOCIETY NEWSLETTER

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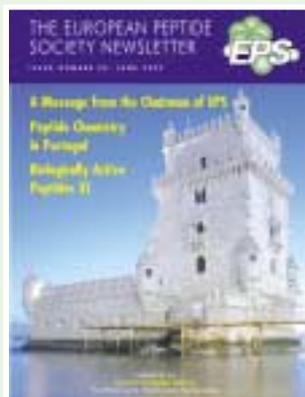
## A Message from the Chairman of EPS

### Peptide Chemistry in Portugal

### Biologically Active Peptides XI



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Cover photo: Belem Tower in Lisbon was built by the King D. Manuel in 1515 to commemorate Vasco da Gama's expedition to India.

### IN THIS ISSUE

A Message from the Chairman of EPS	2
Peptide Chemistry in Portugal	4
Biologically Active Peptides XI	8
Society News	10
Invitation Conferences	12
Calendar	14

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### SOCIETY NEWSLETTER

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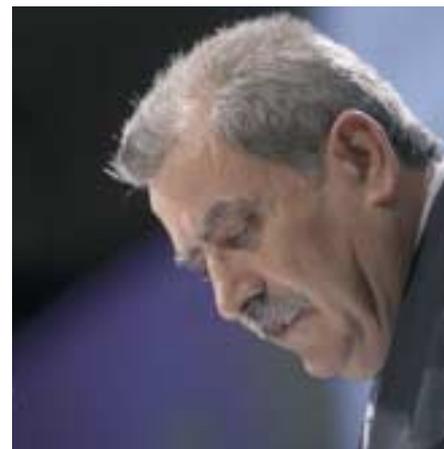
a) a PDF download from the European Peptide Society website at <http://www.eurpepsoc.com>

or

b) a print copy within the *Journal of Peptide Science*

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# A Message from the Chairman of EPS



*Dear Members of the European Peptide Society, Dear Friends*

The last European Peptide Symposium held in Helsinki was the occasion for the EPS Executive Committee to have a deeper look into Peptide Science and the Society. We have had several discussions on Peptide Science and its future and we would like to share some of our thoughts with you.

The contribution of Peptide Science to Science has been tremendously amazing for the last 50 years. Peptide Science has strongly contributed to the development of structural studies and analytical techniques, including the fantastic HPLC, Mass Spectrometry, NMR technologies. Peptide Science, starting with the first synthesis of the peptide hormone Oxytocin by Vincent du Vigneaud in 1953, Nobel Prize Laureate in 1955, was the opening of a new era in the field of synthesis of biologically active peptides and beyond, in the strong interface between Chemistry and Biology. The famous Solid Phase Peptide Synthesis provided easy access to the synthesis of long peptide sequences, and has been the seed for the extraordinarily development of the Chemistry on Solid Supports from the original work of Bruce Merrifield in 1963, Nobel Prize Laureate in 1984.

Combinatorial chemistry, automated synthesis and multi-component reactions have also emerged from initial studies performed in Peptide Science. Beyond these important participations in the field of Science, our field has stimulated the emergence of several "peptide companies" doing business connected to peptide research and science, in almost any country in the world, some of them having acquired international standard today.

Compared to the significant impact in science, the peptides, for several reasons that have been debated times over, except for being used as models, had not reached, so far, the same level of popularity in most of the Pharmaceutical companies as other classes of compounds. Nowadays, cosmetology is becoming more and more interested in amino acids and peptides are gently penetrating the world of drugs.

The European Peptide Society is still very alive and active, the number of members is still growing, the number of "satellites" (small meetings dealing with peptides and sponsored by the Society) is on the increase. This partly reflects the still growing interest in peptide sciences.



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However, the significance of the Impact Factor of the Journals, more and more linked to the evaluation of scientific activity and quality, is becoming an issue for our specialized journals. If we want to improve these journals, we really need to publish more high quality papers by members of our society.

Our Society does not demand any fee from its members; most of the revenues are devoted to sponsoring small meetings, and to helping young scientists attend meetings. Our main revenues come from

sponsors who have accepted to help the Society and the Peptide Science. We really need them to maintain our activities in this field.

As a conclusion, I would like to wish a long life to the field of peptide science with as much success as it has enjoyed in the previous years, and a long life to the European Peptide Society.

Jean Martinez  
*Chairman of the European  
Peptide Society*

# Peptide Chemistry in Portugal

Fifty years ago, when I was an undergraduate student of the Faculty of Science of the University of Porto, a large amount of human hair could be found in the basement of its Department of Chemistry. Collecting this material from hairdressers was my preliminary contribution to a joint venture with Fernando Serrão, my former mentor, who at the time was in Manchester working for his PhD with Professor H. Norman Rydon, on the synthesis of insulin. By hydrolyzing this hair, I should obtain cystein, which would be required to start our project. However, unexpectedly I had to interrupt my studies and this meant the end of our venture. Only a few years later, after Joaquina (Quina) Amaral had returned from working for her PhD also with Norman Rydon, in Exeter, and when Fernando had already gained the status of full professor, some work could be started on peptides in Portugal.

Meanwhile, I had been sent to Angola and, later, to Exeter also for a PhD and a two-year post-doctoral work with Norman. Back in Angola, I made an attempt to establish a peptide research group in Luanda, but this failed due to the decolonization that in 1974 followed the end of the dictatorship in Portugal. On returning to my country, almost twenty years after my "Porto's adventure", I was offered the opportunity to found a Depart-

ment of Chemistry at the newly created University of Minho at Braga. However, some further ten years were still required to have suitable laboratories built, people appointed and some funds available to enable establishing in Braga a research group in peptide chemistry. Owing to the traditionally very modest funding of research in this country, only after Portugal had joined the European Union was it possible to develop some visible work, first in Braga and later in Porto.

In 1984, Professor Ulf Ragnarsson, my former colleague in Exeter, was chairing the 18th European Peptide Symposium in Djurönäset, Sweden. After Ulf's proposal at my request, Portugal was accepted as a member of the European Peptide Committee, with two places for attendance to the symposia, one for Quina Amaral and another for me. Although without receiving any financial or other support from any public or private Portuguese organization but the University of Minho, ten years later we had the privilege to receive in Braga the 23rd European Peptide Symposium. The six members of my team were Dr. Lígia Rodrigues (my first PhD student) and the five students who were then working for their PhD under my supervision; Quina Amaral had accepted to join in as the seventh member of the organizing committee to play the role of representative of

the Porto group. Ten further years had elapsed when Braga and Porto engaged, for the first time and successfully, in a joint venture in the field of peptides; this was the organization of the 9th Iberian Peptide Meeting – so successful that we gained Professor Miguel Castanho, of the University of Lisbon, to the European peptide community. Miguel has since established in this country a new, visible and active group in physical biochemistry involving some peptide chemistry and will be hosting the next Iberian meeting.

## The Braga Unit

This unit belongs to the Chemistry Center of the University of Minho, operating within the Chemistry Department of its School of Science and houses Lígia Rodrigues, Luís Monteiro, Paula Ferreira, Sameiro Gonçalves, Sílvia Pereira-Lima, Susana Costa, myself and our co-workers. Our main activity has been and is maintained within the boundaries of organic chemistry and concerned with the development of new methods and new intermediates for amino acid and peptide synthesis in solution. This is complemented with their use in the production of peptides, peptide analogues and peptidomimetics with possible biological activity. Cleavage of protecting groups by reductive electrolysis, as monitored by cyclic voltammetry, together with the first



*Peptide Chemistry in Portugal: The Braga Unit*

efficient synthesis of dehydroalanine are landmarks within our past achievements. The latter opened the way to the synthesis of a wide variety of non-proteinogenic amino acids from larger dehydroamino acids to photocromic and bis-amino acids, these aimed at peptide cross-linking. Some of these compounds can be used as fluorescent and/or solvatochromic probes and preliminary studies reveal that they may exhibit antimicrobial activities. The development of a general method to make *alpha, alpha*-dialkyl glycines and

peptides by the Ugi-Passerin reaction together with the establishment, under the support of a kinetic and thermodynamic approach, of a general strategy to incorporate N and/or C fully alkylated glycines into peptides has been another landmark to mention. Synthesis, photo-physical characterization and investigation of the biological activity of fluorescent heterocyclic compounds of oxygen, sulphur and nitrogen has also been undertaken. These compounds have potential application in biomedicine as

long-wavelength fluorescent biomarkers, as phototriggers and photocleavable protecting groups/linkers, in either solution or solid phase peptide chemistry and amino acid-based compounds for materials science. The future activity of this unit will be projected to further developing the present achievements, taking occasionally advantage of electrochemical approaches, with the aim to continue synthesizing small peptides and glycopeptides sometimes under collaborative work with other groups; this may include incorporation of non-proteinogenic amino acids for testing their chemical applications and eventual bio-activity. Typically this work will be supported by kinetic methods and conformational analysis of the compounds synthesized, mostly by NMR techniques.

### **The Lisbon Unit**

Miguel Castanho graduated in biochemistry; then he joined a group of Physical Chemistry for his Ph.D., where he worked with spectroscopic tools to study the mechanisms of action of an antifungal drug that disturbs cellular membranes, under the supervision of Manuel Prieto (Technical University of Lisbon). By the time Miguel was starting his group in the University of Lisbon, Nuno Santos, a former Ph.D. student having worked with HIV-related peptides,



*Peptide Chemistry in Portugal: The Lisbon Unit*

called his attention to a new drug in clinical trials for HIV-1 fusion inhibition, enfuvirtide, a peptide that both researchers anticipated to be potentially membrane-active due to the presence of several hydrophobic residues at its endings. The presence of Trp residues made the peptide suitable for fluorescence studies and soon Miguel and Nuno started gathering seminal data for what is now a consolidated hypothesis: enfuvirtide and other HIV-1 fusion inhibitor peptides have a mechanism of action where membranes play an important role. In the early years of his work with this peptide I invited Miguel to present his data and conclusions in the Iberian Peptide Meeting, in Porto (2004).

This was the gate to the so far unknown world of peptide science, he later confessed to me. Being in contact with a community where so many molecules had membrane-interactive properties with remarkable biomedical and biotechnological interest revealed like a strong magnet for his research. Miguel joined the world of peptide science since then, and now studies several classes of peptides with biomedical interest, mainly since he joined the Medical School of the University of Lisbon, in 2007. A large component of his work is carried out in partnership with Nuno, now a PI leading his own research group. Together, they dissect the molecular details of peptide-lipid interaction of antimicrobial, cell-

penetrating, viral-related and analgesic peptides. Their collaborations span from Europe to Brazil, Australia, United States and China.

### **The Porto Unit**

This unit belongs to the Organic Synthesis of Bioactive Compounds group in “Centro de Investigação em Química da Universidade do Porto” (CIQ-UP) and is led by Paula Gomes ([www.fc.up.pt/pessoas/pgomes](http://www.fc.up.pt/pessoas/pgomes)). Gomes entered the group in 1994 (then led by Quina Amaral) and in 1997 joined the team of David Andreu in Barcelona, where she became acquainted with SPPS techniques and Surface Plasmon Resonance biosensors. Andreu's former

work with antimicrobial peptides (AMP) captured Gomes attention to peptide antibiotics, to which she has been devoting some of her work since 2003, after she returned to Porto. So, part of her team works with AMP and cell-penetrating peptides (CPP) for diverse biomedical purposes. The longest collaboration in AMP arose from the interest of Dr. Margarida Bastos (CIQ-UP) in the unraveling of the mechanism of action of AMP by use of Biophysical techniques. This was started jointly with Andreu in 2003, to study Cecropin A-Melittin hybrids that had been originally designed by Andreu's pioneering research in Merrifield's lab in the US. This led to the innovative Bastos' proposal, in 2008, of a key role for charge neutralization in the mechanism of action of AMP. In turn, CPP with which Gomes works are to be used as: (i) vectors for gene therapy, a project by Prof. M.C. Pedroso de Lima (CNC, University of Coimbra), and (ii) carriers for radio-labelled ligands for radiotherapy or radio-diagnostics, a project from Prof. I. Santos' team (ITN). But most of Gomes team is devoted to solution synthesis of



*Peptide Chemistry in Portugal: The Porto Unit*

amino acid and oligopeptide derivatives of non-peptide drugs, mainly antimalarials. This project is held in collaboration with other Portuguese and US researchers, namely, Dr. Rui Moreira (CECF-iMed.UL), Prof. Virgílio do Rosário (CMDT-IHMT), Dr. Phil Rosenthal (UCSF) and Prof. M.T. Cushion (University of Cincinnati), and already led to the discovery of novel antimalarials resistant to metabolic degradation/deactivation.

*Contributed by Hernani L. S. Maia*

## CONFERENCE REPORT

# Biologically Active Peptides XI

**Czech and Slovak National Peptide Conference,  
Prague, 22–24 April 2009**

The period of 3 days, from April 22 to April 24, when the weather was warm and sunny and Prague was in full blossom, was again the time for Czech and Slovak peptide researchers to meet in Prague for their eleventh meeting called “Biologically Active Peptides” (BAP XI, [www.uochb.cas.cz/BAPXI](http://www.uochb.cas.cz/BAPXI)). Again, as in the case of all previous meetings, the host institution was the Institute of Organic Chemistry and Biochemistry (IOCB) of the Academy of Sciences of the Czech Republic in Prague. The organizers (M. Flegel, V. Cerovsky, J. Slaninova, and S. Zorad) prepared a rich scientific and social program and invited several distinguished guests to the meeting.

We were honored to welcome in Prague the President of the European Peptide Society, Prof. Jean Martinez, and the Scientific Affairs Officer of the Society, Prof. David Andreu. Both of them presented very interesting plenary lecture on ghrelin ligands and antimicrobial/cell penetrating peptide, respectively. Other plenary lectures were given by Prof. M. Haluzik from Prague (new peptides/proteins regulating food intake), Dr. G. Mezo from Budapest (GnRH-based drug delivery system), Dr. J. Klaudiny from Bratislava (honeybee defensins), Dr. J. Turanek from Brno (antimicrobial peptides), Dr. R. Olszanecki from Krakow



*Part of the participants of the Conference in front of the IOCB*

(new angiotensins as therapeutic targets) and Dr. G. Peltre from Paris (peptides as probes for detection of allergens).

As far as the other lectures are concerned, let us mention the contribution of Prof. Pajpanova dealing with the synthesis, analysis and pharmacological qualities of neuropeptide mimetics containing non-natural amino acids, the contribution of the young PhD student from the Technical University in Prague Ing. T. Neubauerova about peptides with antimicrobial activity from larvae of flesh fly, and Prof. G. Nadasy's lecture about

angiotensin II and remodeling of coronary artery network.

The poster session on Thursday afternoon was also very interesting – there were presented 31 high quality posters. Let us mention 6 contributions dealing with antimicrobial peptides/proteins from different species: from wild bees (the group of Dr. V. Cerovsky from Prague), tick (the group of Prof. L. Grubhoffer from South Bohemian University in Ceske Budejovice), and plant (the group of Prof. M. Mackova from the Institute of Chemical Technology in

Prague). The problem of antimicrobial peptides was also the subject of the lecture of Prof. D. Andreu from Barcelona and Dr. J. Klaudivy from Bratislava. A series of interesting posters on peptides and nociception of the Bulgarian colleagues (Prof. R. Girchev, Dr. P. Markova, Prof. A. Bocheva, Dr. E. B. Djambajsova and Prof. T. Pajpanova) has drawn the attention of many participants, as well as the poster of Dr. V. Klenerova and Prof. S. Hynie (1st Medical Faculty, Prague) showing a specific effect of oxytocin on spontaneous behaviour of rats.

All the contributions will be published

in English as short communications (2–4 pages) in the Proceedings in the Collection Symposium Series.

As the IOCB can still be considered as the flagship of peptide research in the Czech Republic and the Institute of Experimental Endocrinology SAV is playing a similar role in Slovakia, the main themes of the Conference reflected the main peptide projects of the two institutions – antimicrobial peptides (10 contributions), peptides in regulation of food intake (3 contributions), capillary electrophoretic analyses of peptides (4 contributions) and angiotensin and oxytocin research (5 and 3 contributions, respectively).

The conference differed from the past ones in one point – in the number of participants from abroad. There were 20 participants from six countries: Bulgaria, Greece, Hungary, France, Poland and Spain. We want to especially acknowledge the participation of Prof. G. Nadasy (Budapest) who contributed a lot to vivid discussions of the presented lectures, and the youngest active participant, Bc. G. Daletos (Patras, Greece), who presented an interesting lecture on cyclic peptide antagonists of integrin.

The Conference was also accompanied by the exhibition of six companies (Eppendorf Czech & Slovakia, s.r.o., INGOS, s.r.o., KRD s.r.o., Scintila s.r.o., Schoeller Pharma, s.r.o., and Vidia s.r.o.) and thanks to their help and sponsor contributions of European Peptide Society, HPST s.r.o., Lambda Life, MERCK, s.r.o., MGP Zlin, s.r.o. and PolyPeptide Labs France SAS), the participants could enjoy the open sandwiches at the coffee breaks, the get-together party at “Masarova kolej” and the concert for mezzo-soprano, violin and organ in the St. Francis Church near Charles bridge.



*Dr. V. Cerovsky and Prof. D. Andreu during poster discussion*

*Contributed by Jirina Slaninová  
and Stefan Zorad.*

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# Society News

## ***Journal of Peptide Science:* Annual Best Publication Award**

The first award will be given in September 2009. The winner will receive a cheque of €2000 and will be announced and listed in *Journal of Peptide Science* online and in print.

**How to submit:** The award is for Full Papers published within *Journal of Peptide Science*. Once your submitted article is accepted, it participates automatically in the competition. Each article will stay for two years in the competition and has therefore two chances to win the award.

**How the Award is selected:** At the end of August each year, a shortlist of 10 articles will be prepared based on the highest numbers of citations and downloads from all full papers published in the two previous calendar years. Each member of the Editorial Board will then choose from the shortlist their three preferred publications and the Full Paper with the highest number of nominations will be the award winner.

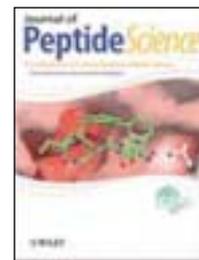
### ***Terms and Conditions:***

- One article can only win the award once.
- The award will be sent to the corresponding author.
- Publications from the research groups of the Editorial Board will be excluded from the Award.
- The decision of the Editorial Board is final and there will be no correspondence about the Award.
- The winners will be addressed directly, and the Award will be announced in *Journal of Peptide Science* online and in print, and also through other media if appropriate.

## ***Journal of Peptide Science* Introduces a New Type of Article: PROTOCOLS**

The new Peptide Protocol papers aim to fill-in a gap in the comprehensive coverage of peptides sciences by the *Journal of Peptide Science* (Le Chevalier Isaad *et al.* *J. Pept. Sci.* 2009; 15: 451–454). This “by invitation only” section will provide peer-reviewed, timely, detailed, fully documented experimental procedures of general interest that are novel and yet not part of the routinely and widely used repertoire. We aim to bring procedures that describe applications of new synthetic reagents, new building blocks and new synthetic strategies. The unique format intends to emphasize the applicative nature of these publications. It includes a boxed Reaction Scheme and General Optimized Procedure followed by a section of Scope and Comments. The Experimental Procedure is followed by a Limitation section and concludes with References. Depositing additional experimental, spectroscopic and analytical data in the Supporting Information available on-line complements the printed materials and will be helpful in reproducing the protocol and extending it into new applications.

We hope that the Peptide Protocol papers will address the unmet need for experimental information currently practiced in limited numbers of centers of expertise. By publishing these protocols in the *Journal of Peptide Science* we hope to disseminate this valuable know-how to the broad community of peptide scientists seeking access to reliable and detailed protocols reported by experts with hands-on experience delineating the advantages and limitations of the described applications.



## **A Renovated Webpage and a new Webmaster for the European Peptide Society**

Last September in Helsinki the Executive Committee of the EPS has decided, in collaboration with John Wiley & Sons Ltd., to renovate the webpage of the Society.

The EPS Secretary Professor Alex Eberle in collaboration with Martin Rothlisberger, Wiley's Executive Commissioning Editor, have undertaken the task to re-engineer the website, adding new characteristics and functionality.

The redesigned website, is finally active under the same address ([www.eurpepsoc.com](http://www.eurpepsoc.com)), and by the first days of July 2009 it will be fully active and daily updated.

The new webmaster Dr. George Pairas, Assistant Professor of Pharmaceutical Chemistry (University of Patras, Greece), will be in Chichester, UK by the end of June, to be trained in the management system by Wiley's Website Manager Dr. James Weeks.

At this point, we would like to thank the previous Website manager Dr. Luca de Luca, who has greatly helped to maintain this website during the last 5 years. His professionalism and devotion was always appreciated by all of us who worked with him.



*Dr. George Pairas*

## **Executive Committee Meeting**

The annual Executive Committee Meeting will be held at Eötvös Loránd University in Budapest on 19 June 2009. A report concerning this meeting will appear in the next issue of the Newsletter.

# Invitation Conferences

## Invitation to the 31st European Peptide Symposium

**Copenhagen, Denmark,  
September 5–9, 2010**



The 31st European Peptide Symposium will take place September 5–9, 2010 at the Bella Center in Copenhagen, Denmark, and will be chaired by Morten Meldal, Knud J. Jensen and Thomas Hoeg-Jensen. The meeting venue is conveniently located near the charming and cultural Copenhagen city centre.

Please join your colleagues from around the world at this meeting, which will include cutting-edge research and fascinating developments in a broad range of topics presented by leading international experts from both industry and academia. The confirmed invited speakers are presently Bill Degrado, Stephen Kent, Tom Muir, Herbert Waldmann,

Fernando Albericio, Paul Alewood, Annette Beck-Sickinger, Ernest Giralt and Horst Kessler.

The 31EPS will allow you to present your latest results and will provide ample opportunity to meet colleagues with similar or complementary research interests. To accommodate as many high-quality talks as possible, there will be a few parallel sessions in addition to the plenary sessions and a special session for young investigators. The poster sessions will take place in a large hall adjacent to the exhibition area, where the latest research tools and services will be presented by international companies. At 31EPS, an inspiring atmosphere for the exchange of ideas and for building long-lasting collaborations will be established.

Potential exhibitors and sponsors are welcome to contact the conference secretariat:

31EPS  
DIS Congress Service  
Telephone: +45 44 92 44 92  
E-mail: [31eps@discongress.com](mailto:31eps@discongress.com)  
[www.31eps.dk](http://www.31eps.dk)

Please visit the 31EPS website for more information, [www.31eps.dk](http://www.31eps.dk). Delegate registration will start in December 2009.

*See you in Copenhagen!*



Copenhagen



## Invitation to the 8th Australian Peptide Conference

**Couran Cove, South Stradbroke Island, Australia,  
October 11–16, 2009**

Advances in peptide research are occurring at an ever increasing pace, in a wide range of fields and scientific disciplines. With the sequencing of the human and other genomes now complete, we are at a particularly exciting time as the impacts of genomics, proteomics, and bioinformatics start to drive modern drug discovery.

To discuss these and other advances in peptide research, the Australian Peptide Conference committee has assembled an exciting scientific program, of local and international invited speakers, covering the areas of cutting edge peptide research. The meeting will cover not only peptide chemistry and biology, but will also have a particular emphasis on emerging technologies such as proteomics, biosensors, bioinformatics, fluorescent technologies, identification of new biomarkers as well as novel applications of the more established techniques with a major theme "Peptides: Tools, Targets and Therapeutics".

The conference will be held in Couran Cove, which is situated on South Stradbroke Island – an island resort experience of peaceful seclusion.

The registration and abstract forms are now open and available on the meeting home page [<http://www.peptideoz.org>] and if you have any queries regarding the former, please contact our conference manager, Mike Pickford ([mp@asnevents.net.au](mailto:mp@asnevents.net.au)) or secretary, Jackie Wilce ([Jackie.Wilce@med.monash.edu.au](mailto:Jackie.Wilce@med.monash.edu.au)). Don't forget that the closing date for both the 'early bird' registration and abstract is 17 July 2009.

*Come and join us...*

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# CALENDAR of Forthcoming Events

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## **2nd INTERNATIONAL SYMPOSIUM ON ANTIMICROBIAL PEPTIDES**

Saint-Malo, France  
17–19 June, 2009

Website:  
[www://colloque2.inra.fr/antimicrobial\\_peptides\\_2009](http://colloque2.inra.fr/antimicrobial_peptides_2009)

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## **6th INTERNATIONAL CONFERENCE ON ARTHROPODS**

Ochotnica Dolna, Poland  
21–26 June, 2009

Website:  
<http://viarthropods.stud.wchuwr.pl>

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## **20th POLISH PEPTIDE SYMPOSIUM**

Puck, Poland  
6–10 September, 2009

Website: [www.20pps.univ.gda.pl](http://www.20pps.univ.gda.pl)

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## **CHEMICAL PROTEIN SYNTHESIS**

Ringberg Castle, Bavaria, Germany  
20–23 September 2009

Website: [www.ug.edu.au/chemical\\_proteinsynthesis/](http://www.ug.edu.au/chemical_proteinsynthesis/)

(The *Journal of Peptide Science* will publish a special issue on behalf of this conference)

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## **8th AUSTRALIAN PEPTIDE CONFERENCE**

Couran Cove, South Stradbroke Island,  
Queensland, Australia

11–16 October 2009  
Website: [www.peptideoz.org](http://www.peptideoz.org)

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## **46th JAPANESE PEPTIDE SYMPOSIUM**

Kitakyushu, Japan  
4–6 November, 2009

Website: [www.peptide-soc.jp](http://www.peptide-soc.jp)

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## **3rd ASIA-PACIFIC INTERNATIONAL PEPTIDE SYMPOSIUM**

Jeju Island, Republic of Korea  
8–11 November, 2009

For more information, contact  
[srpaik@snu.ac.kr](mailto:srpaik@snu.ac.kr)

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## **EXPERIMENTAL APPROACHES TO PROTEIN:PROTEIN INTERACTIONS**

University of Sheffield, United Kingdom  
11–12 January, 2010

Website:  
[www.biochemistry.org/meetings/programme.cfm?Meeting\\_No=SA094](http://www.biochemistry.org/meetings/programme.cfm?Meeting_No=SA094)

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## **31st EUROPEAN PEPTIDE SYMPOSIUM**

Copenhagen, Denmark  
5–9 September, 2010

Website: [www.31eps.dk](http://www.31eps.dk)

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## **5th INTERNATIONAL PEPTIDE SYMPOSIUM in conjunction with 47TH JAPANESE PEPTIDE SYMPOSIUM**

Kyoto, Japan  
4–9 December, 2010

Website: [www.5ips.jp](http://www.5ips.jp)

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## **32nd EUROPEAN PEPTIDE SYMPOSIUM**

Athens, Greece, 2012

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# VariPep™ Peptide Solution

The cost-effective solution for the production of Synthetic Peptides



An expertly designed portfolio of products designed to enable management of the cost and efficiency of high volume synthetic peptide production from  $\mu\text{g}$  to g scale.

The VariPep Peptide Solution consists of:



- StratoSpheres™ resins for solid phase peptide synthesis – consistent, reliable performance, synthesis after synthesis.
- VariTide™ RPC – single, 'universal' HPLC column for the analysis and purification of synthetic peptides – designed to maximize throughput and improve purification economies.
- VariPure™ IPE (Ion Pair Extraction) for the fast removal of acidic ion pairing agents – maximizes the yield of purified peptides at minimized cost.

Varian's particle expertise combined with our global infrastructure and customer service makes Varian your single source supplier.

Learn more about Varian's cost-effective solution for synthetic peptides at [www.varianinc.com](http://www.varianinc.com) or email [sps@varianinc.com](mailto:sps@varianinc.com)

Synthesis Supports  
Sample Prep  
HPLC Columns  
Instrumentation  
Data Systems  
Support & Training