
THE EUROPEAN PEPTIDE SOCIETY NEWSLETTER



Issue Number 25, 1 July 2001

BACHEM SYMPOSIUM IN HONOUR OF ROBERT SCHWYZER'S 80th BIRTHDAY

PEPTIDE RESEARCH AT THE INTERFACE
OF CHEMISTRY AND BIOLOGY



Robert Schwyzer, taken during the Symposium.

Robert Schwyzer, Professor Emeritus of the Swiss Federal Institute of Technology in Zürich, celebrated his 80th birthday on 8th December 2000. He has been a leader in peptide chemistry and biology for almost fifty years, and is still actively involved in peptide research, publishing and participating at conferences. The careers of a whole generation of colleagues in Switzerland and in many other countries have been influenced by him. He has fathered several important peptide drugs. As Dr Peter Grogg, the founder of the Bachem Group, has acknowledged, Schwyzer also had a seminal influence on the emergence of Bachem. Since almost all of Schwyzer's important syntheses were carried out during his time at Ciba Ltd., Basel, it was most appropriate to hold a Symposium in honour of his 80th birthday in the Basel region, and no place was better suited than Bachem at Bubendorf, where over a hundred of his friends, colleagues and former collaborators gathered in the newly built auditorium on 23rd November, 2000.

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Robert Schwyzer and his wife, together with members of the Bachem management and the Symposium speakers (from the left): F Dick, D Erne, J Nüesch, Mrs Robert Schwyzer, J-P Durieux, P Grogg, G Jung, Robert Schwyzer, B Ernst, P Schiller, and AN Eberle.

Robert Schwyzer's Five Decades in Peptide Science

Robert Schwyzer was born a citizen of Zürich, in 1920. He grew up in Minnesota, USA (1924-33), but returned to Switzerland, attending the Literargymnasium Zürich 1934-1940, doing military service during World War II. He then studied chemistry at the University of Zürich, carrying out his dissertation work with Nobel Laureate Paul Karrer on "Vitamins and Antivitamins" (1947) followed by a *Habilitation* thesis on the synthesis of pteridines and folic acid (*Privatdozent*, 1951). In 1952, he founded peptide research groups at the Institute of Organic Chemistry (University of Zürich) and the Pharmaceutical Research Department of Ciba Ltd., Basel. Numerous patents and papers on methods of peptide synthesis, the first syntheses of gramicidin S, angiotensin II, ACTH-(1-24), and ACTH-(1-39) between 1955 and 1965 made his name. He was a visiting scientist at the Biochemistry Department of the University of Helsinki with Nobel Laureate Artturi I Virtanen (1950); at the Hormone Research Laboratory of the University of California, Berkeley with Choh-Hao Li (1958); and at the Department of Biochemistry, University of Washington, with Hans Neurath (1964, AAAS Fellowship). By 1960 he was a Vice-Director of Ciba Ltd. Leading positions at the Max-Planck-Gesellschaft, the Biochemistry Departments of the University of Basel and the University of Washington, Seattle were offered to him, and finally he accepted the role of founding Director of the Institute of Molecular Biology and Biophysics at the ETH in Zürich in 1963. He continued his work there until 1988, mainly on the chemistry and biology of polypeptides (structure-activity relationships of peptide hormones, antibiotics), as well as on the physics, chemistry, and pharmacology of peptide-lipid membrane interactions. He has received numerous international awards, including the Scheele Lecture, Stockholm, 1963; the Otto Naegeli Prize, Switzerland, 1964 (first synthesis of ACTH); the Stouffer Prize, Cleveland, Ohio, 1968; the Paul Karrer Lecture, 1969; the Ernesto Scoffone Memorial Lecture and Gold Medal of the Università degli studi di Padova; the Alan E Pierce Award and Lecture, American Peptide Symposium, Toronto, 1985; the Josef Rudinger Memorial Lecture and Award, European Peptide Symposium, Porto Carras, Greece, 1986; and many others. At present, he lives in his home in Bülach, together with his wife Rosa, both of them in excellent health.

Peptide Research at the Interface of Chemistry and Biology

The title of the Symposium encompasses the research activities of Robert Schwyzer in peptide science. The programme consisted of six invited lectures which also reflected Robert Schwyzer's many ties to colleagues, institutions and different countries. Of course these ties were much more numerous than the selection of six speakers could ever represent. The first lecture was given by Professor Jakob Nüesch, former President of the ETH Zürich and – before that – head of pharmaceutical research at Ciba-Geigy. He led the audience through a very thoughtful account of the past and future importance of peptide research. Professor Beat Ernst, representing the new generation of bioorganic chemists at the University of Basel, introduced the topic of design, synthesis and biological evaluation of compounds in the selection of antagonists. Professor Günther Jung (Tübingen) brilliantly covered the complex topic of developing T-cell superagonists and antagonists from combinatorial peptide libraries and Dr Jean-Pierre Durieux from Bachem reviewed new developments in industrial peptide chemistry. North America was represented by Professor Peter Schiller (Montreal), who spoke about opioid peptide analogs and peptidomimetics as pharmacological tools and potential drugs – his theme for almost three decades. Finally, Professor Alex N Eberle (Basel) portrayed Robert Schwyzer's contributions in the field of the melanocortins and some of the present-day concepts that have emerged from them. After receiving a Bachem share certificate from Dr Grogg, Professor Schwyzer himself closed the scientific part of the Symposium with a personal note of thanks.



Peter Grogg handing over a Bachem share certificate to Robert Schwyzer.

Robert Schwyzer's Thanks

"When I was asked whether I would agree to this event, I gladly accepted; mainly because nobody required a lecture of me. I was able to relax and to look forward to this day with great pleasure. And what am I doing now: talking once more! I just can't help it, since this may be my last chance to meet with former students and co-workers, with many of my peers and friends of old times. Those present may also be able to renew old acquaintances and friendships. I tell you frankly: I'm enjoying this meeting immensely, and I hope that you also are!

We owe today's pleasure to the initiative of two quite particular friends of mine, former students and co-workers:

- Peter Grogg was the last apprentice to graduate from my laboratory at Ciba Ltd. He was trained by my outstanding technician and scientist, Peter Sieber. In 1964, he accompanied me to the Department of Biochemistry of the University of Washington in Seattle during my appointment as a Visiting Professor and worked there with me and Brian Ridge (now in Exeter). Peter has one eminent capacity that I am completely lacking: a good sense for innovative business. Look at Bachem and you will see what I mean. I have learned from his example – and from others known to me – that it is not so much the formal training that is essential, but always the personality. This was recognized by the University of Basel a few years ago by conferring onto him the degree of "Doctor honoris causa". To Peter: my sincere admiration for your success and my hearty thanks for this congenial symposium.
- Then there is Alex Eberle who is now carrying the banner of modern peptide research in Switzerland. About twenty years ago, we had some difference of opinion. Fortunately, I was able to recommend him highly to my friend, Professor Alfred Pletscher, who wanted someone with extraordinary initiative and scientific capabilities for the position of Chairman of the Clinical Research Department at the University Hospital of Basel. Just now we learned that Alex has after 12 years resigned from his extremely demanding job. I thank him very sincerely for his continuing friendship, and wish him all the success and fulfillment he deserves in his future activities (plural – as befits his temperament).

The other contributors to this Symposium also deserve my thanks. In particular:

- Professor Jakob Nüesch – former President of the ETH in Zürich, with whom I was fortunate enough to collaborate on the subject of gramicidin S during my time at Ciba Ltd. in the 1950s;
- Professor Beat Ernst and Dr. Jean-Pierre Durieux – both of whom I had the pleasure to meet here for the first time;
- Professor Günther Jung – whose great achievements I have always admired;
- Professor Peter Schiller of the Clinical Research Institute of Montreal – a former graduate student and a close friend who is a continuing source of encouragement;
- Dr Daniel Erne – one of my dear postdocs, now with big responsibilities at Bachem;
- Dr Fritz Dick – of Bachem, who was instrumental in the organization of this day;
- And surely many other personnel at Bachem of whom I may not be aware.

What impressed me from your presentations is the tremendous acceleration in science. UV spectra that took me two full weeks to perform in 1945, took my students 1-2 hours in 1955, in the eighties, we could run a dozen or more in minutes. The same applies to essential analytical procedures: we first laboured in the Stone Age of crystallization and elemental analysis; now one uses modern, highly automated chromatographic and mass spectroscopic procedures – etc., etc. In the '50s, we synthesized peptides at a pace of about one bond per month and – later: what a relief! – we simply ordered them from Bachem – who now produce whole libraries full of peptides.

Looking back on my eighty years, I consider myself extremely fortunate. So many people helped me and gave me their support:

- My parents, who raised me in the backwoods of Northern Minnesota, who taught me the essentials for survival and looked after me through many hardships during the Great Depression, including some almost terminal illnesses, who brought me back to this country in 1933, and who very strictly taught me manners but let me choose my own way through hobbies, school, and studies.
- My father, who introduced me to a frugal life in the Alps and a rather adventurous and wild form of climbing in the high mountains.
- My comrades in military service and fellow students at the University of Zürich during the Second World War – including many Jewish students as refugees from Berlin.

- My wife to be and our close friend Nik Wunderlin, who shared with me the pleasures, hardships, and dangers of countless, rather extreme Alpine tours – our form of recreation during the war.
- My teachers in College and University, and my superiors and peers in industry and academia (to whom my “Recollections” in the ‘96 issue of *Protein Science*, Vol. 5, pp 2358-2363, were dedicated).
- My wife, here, who gave up her own career to take care of the “logistics” in our family, who raised and educated our three children (they became a physico-chemist-plus-veterinarian, a teacher, and a surgeon) and who allowed me to devote my time fully to my job and to enjoy the more pleasant aspects of family life. Without her, my prospects would have been rather bleak!
- My students and postdocs who shared with me the lure of active research at the University of Zürich, at Ciba Ltd., and at my Institute of Molecular Biology and Biophysics of the ETH in Zürich. Those present will remember the main idea behind our work was to bring together students from different areas of expertise, e.g. chemistry, physical chemistry, biochemistry, pharmacology, medicine, and engineering, to explore the connections between chemical structure and biological action of molecules, particularly peptides. How you had to cope with the (sometimes crazy) ideas and fantasies of a teacher who was more of an inventor, an artist, or a linguist, rather than a really erudite scholar. That certainly was not an easy job; and I am thankful to one and all of you for your patience, your perseverance, your ideas, and your never ending zeal.

Many of you are here today: I am proud of you all. You have succeeded in life, and a number of you are eminent scientists. Among those that are missing today, are at least nine who succumbed at an early age. It is with great sorrow that I remember them: Juan-Pedro Carrión, Hans Dietrich, Kurt Esko, Robert Hümbelin, Beat Iselin, Heini Kappeler, Hans-Jörg Möschler, Giatgen-Mario Pelican, and Professor Josef Rudinger.

At this point, I can't help but recite a wisdom that is thousands of years old:

To every thing there is a season, and a time to every purpose under the heaven:

A time to be born, and a time to die; a time to plant, and a time to pluck out that which is planted;

A time to kill, and a time to heal; a time to tear down, and a time to build up;

A time to weep, and a time to laugh; a time to mourn, and a time to dance;

A time to cast away stones, and a time to gather stones together; a time to embrace, and a time to refrain from embracing.

(Ecclesiastes 3, 1-5)



Robert Schwyzer during his address of thanks

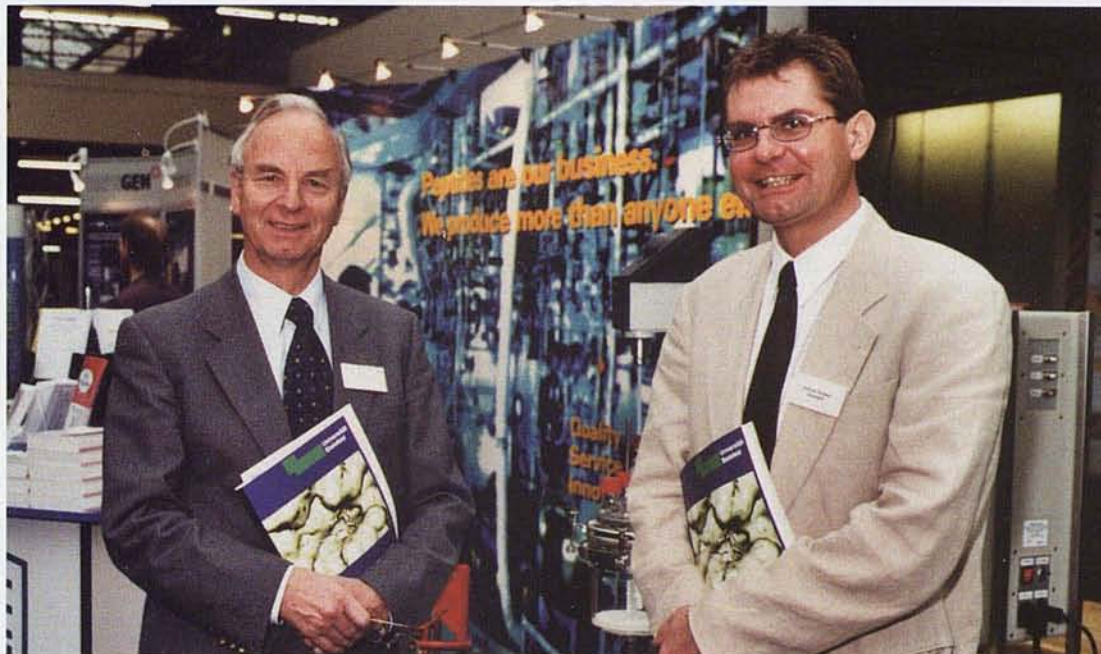
Telling you this, I am reminded of what my teacher, the Nobel Laureate Professor Karrer, said to Baki Erden, who was my bench neighbor for a while, because it may also apply to me. This Baki was a student from Turkey and – as far as I remember – was working with carotenoids and vitamin A. One nice day he broke a flask and spilled its contents over the bench, the floor and down the drain. A catastrophe, since the material represented days of costly work in field and laboratory – you know how Baki must have felt. Karrer happened to come by and saw the terrible mess and asked, apprehensively, what happened. We all felt very sorry for Baki and wondered what he would do. After a while he simply replied (probably quoting the Koran): “Kein Mensch entgeht seinem Schicksal.” Karrer was taken by surprise and, after a while, said “Ach, sind Sie auch so ein Alltagsphilosoph?” turned on his heel and left the room.”

Chairman's Acknowledgements

As Chairman of this Symposium, I would like to express my sincere gratitude to Bachem AG, in particular to Dr Fritz Dick and Dr Bernhard Streb for all their work in organizing the event, and also to Dr Peter Grogg, Dr Rolf Nyfeler and Dr Daniel Erne for their support.

Contributed by Alex N Eberle

5th GERMAN PEPTIDE SYMPOSIUM



***The two organisers of the Symposium
(Harald Tschesche, left, and Norbert Sewald, right) in the Exhibition area***

The University of Bielefeld was the venue of the 5th German Peptide Symposium (GPS), 11-14 March 2001. The Symposium was organised by Norbert Sewald and Harald Tschesche from the Department of Chemistry of the University of Bielefeld. For the first time, English was chosen as the conference language. The conference was attended by almost 200 participants from Germany and six other European countries. The meeting was supported by the University of Bielefeld, the Deutsche Forschungsgemeinschaft - SFB 549, the City of Bielefeld, the European Peptide Society, Advanced ChemTech, BACHEM and 14 other generous industrial sponsors, most of them also present as exhibitors during the Symposium. The 38 lectures were divided into 11 sessions, each of them with a common topic. The Symposium started with the EPS lecture given by Kurt Wüthrich (ETH Zürich, Switzerland) about the structural biology of prion proteins and the prion diseases. After the opening session a reception took place in the University restaurant. Luis Moroder (MPI Martinsried) described the rational design of photoresponsive cyclic bis-cysteiny-peptides as catalysts of oxidative protein refolding. Günther Jung (University of Tübingen) spoke on efforts to develop highly reactive patient-specific peptides and peptidomimetics from synthetic combinatorial peptide libraries for the treatment of autoimmune diseases. De novo design and combinatorial synthesis of four-helix metalloproteins with tuned properties, novel centers and catalytic activity was the topic of Wolfgang Haehnel (University of Freiburg). In her lecture, Hannelore Daniel (TU München) pointed out the way from gene to function of mammalian peptide transporters and the uptake of oligopeptides into cells. Annette Beck-Sickinger (University of Leipzig) described the synthesis of GFP-calcitonin conjugates via intein-mediated ligation and showed the potential of calcitonin-like peptides as protein-carrier. Jean-Pierre Durieux (BACHEM, Bubendorf, Switzerland) allowed the audience to look at the industrial side of peptide chemistry. Horst Kunz (University of Mainz) talked about the synthesis of glycopeptides with tumor-associated carbohydrate antigene structure for the development of antitumor vaccines. An efficient approach to glycopeptides by application of hexafluoroacetone as a protecting and activating reagent was shown by Klaus Burger (University of Leipzig). Bernhard Westermann (University of Paderborn) described the synthesis of C-glycosylated amino acids with ring-closing metathesis. Methods and problems of proteome analysis were presented by Friedrich Lottspeich (MPI Martinsried). The way from rational drug design to inhibition of protein-protein interaction with non-RGD peptides was shown by Horst Kessler (TU München). Wolfgang Voelter (University of Tübingen) gave a review on mistletoe lectins and their pharmaceutical importance. Árpád Furka (University of Budapest, Hungary) described the synthesis of combinatorial peptide libraries by automated synthesizers. In addition to the lectures there was a poster session with nearly 60 posters in the University hall. At the end of the conference, prizes for three scientifically outstanding poster contributions were awarded to Michael Thutewohl (MPI Dortmund), Sven Rothemund (Research Institute of Pharmacology Berlin) and Dominga Deluca (MPI Martinsried). The GPS was rounded off with a reception by the Mayor of the City of Bielefeld and a dinner at the Ravensberger Spinnerei, a historical industrial monument in the City of Bielefeld. The Bielefeld meeting has again shown that the GPS is now established as an important regional peptide symposium in Europe.

Contributed by Dirk Bächle

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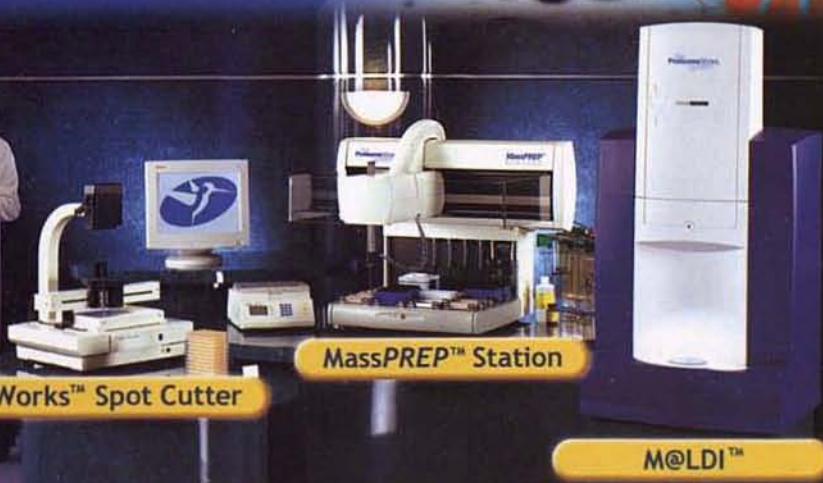
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MISCELLANEOUS NOTES AND NEWS IN BRIEF

- Hans-Dieter Jakubke has unearthed, from his days (1968) as a Post-doc in Prague, a photograph of Josef Rudinger in the lab. It is reproduced right. Does anyone else have any photographs of this kind?
- The Editor will always be warmly appreciative of contributions for this or any other section of the Newsletter. It's your Newsletter, dear colleagues!
- *J.Peptide Sci.* is pleased to announce the launch of EarlyView, a new service of Wiley InterScience. EarlyView facilitates the online publication of individual articles as soon as they are ready – before the release of a compiled issue of the Journal. All EarlyView articles are complete, peer-reviewed, edited and citable. EarlyView serves both authors and readers by reducing the time to publication. Articles are posted on Wiley InterScience on a daily basis, after receipt of authors' corrected proofs. To view the EarlyView articles, visit the Table of Contents page for *J.Peptide Sci.*: ww.interscience.wiley.com



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- The Proceedings of EPS-26 have just been published, which reminds me that by now many contributors will be writing definitive papers on their work. The Abstracts were published as a special issue of *J.Peptide Sci.* (as will be the case for EPS-27 next year). It would therefore be highly appropriate for the corresponding definitive papers to appear in *J.Peptide Sci.*, and EPS-26 contributors are encouraged to submit them to me.

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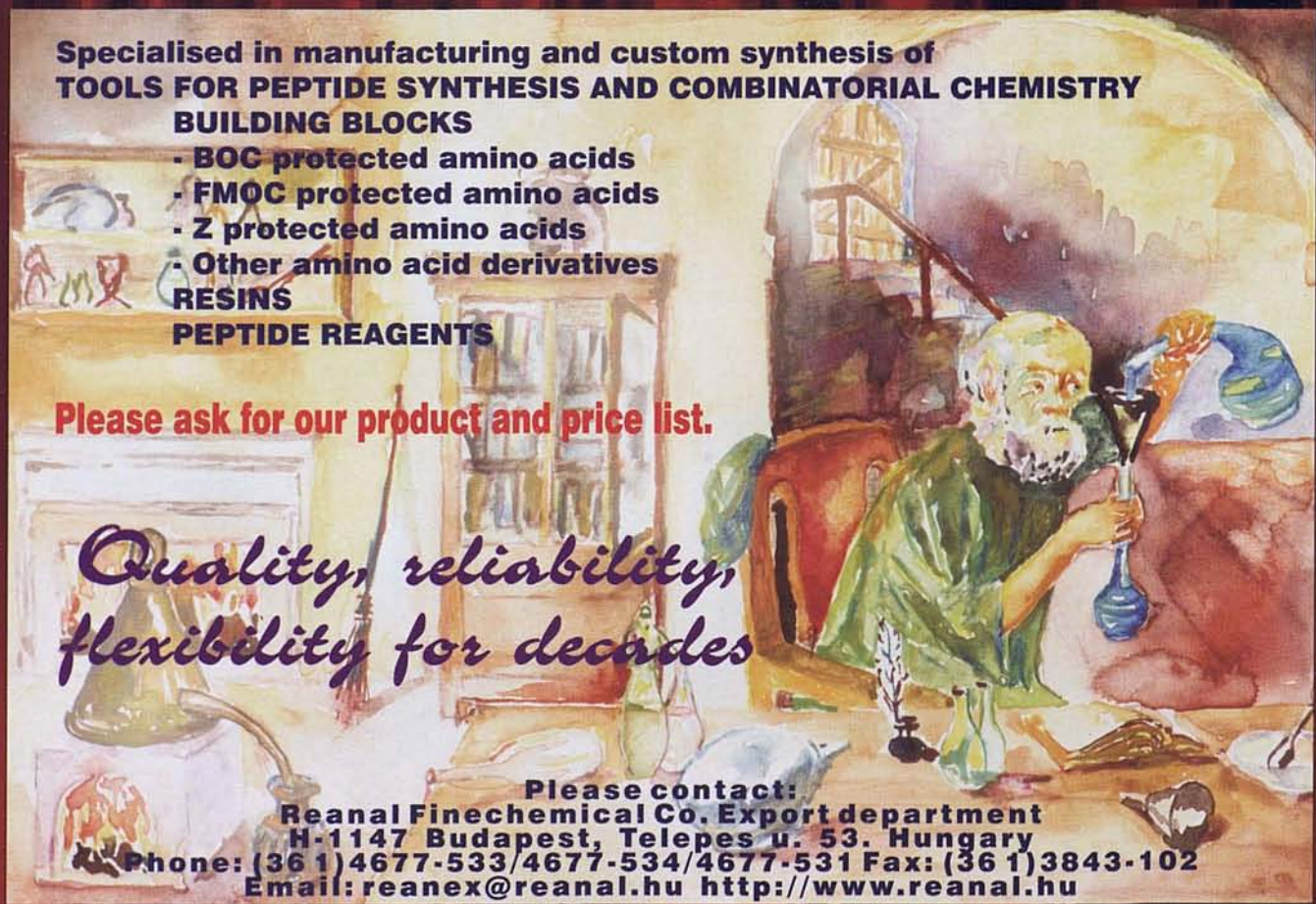
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BRIEF BOOK REVIEWS

R Beynon and JS Bond (Eds.). *Proteolytic Enzymes*. Second Edition. Oxford University Press. 2001. ISBN 0-19-963662-1.

This is the second edition of an important title in the *Practical Approach* series, with chapters on nomenclature etc, purification, assay, mechanistic investigation, inhibition, inhibitors, mass spectrometry of proteolysis-derived peptides, proteinases in sequence analysis, prevention of unwanted proteolysis, proteolysis as a structural probe, and proteases in peptide synthesis. Of particular value are the tested and clearly presented protocols, and Appendix II which gives key data on the principal commercially available proteases.

U Diederichsen, TK Lindhorst, B Westermann and LA Wessjohann (Eds.). *Bioorganic Chemistry*. Wiley-VCH. 1999. ISBN 3-527-29665-4.

Even with its subtitle *Highlights and New Aspects*, this nicely produced book from the Wiley-VCH stable does not really sell itself for what it is. It looks and sounds like another of their excellent advanced texts across a broad field – valuable, one might think, as the basis of an advanced lecture course. Actually it comprises some 50 articles originating from “Clausthal Meetings”, by about 100 contributors mostly from Germany and Switzerland. The areas covered range very widely, with a definite chemical bias, but reflect the research of the contributors rather than a cohesive account of bioorganic chemistry (whatever that is, specifically). It is more of a presentation of what is going on in bioorganic chemistry at the present time in the lands of Emil Fischer’s mother tongue (but presented in English). As such, there is a lot of peptide and carbohydrate organic chemistry in it, and a great deal to interest EPS Members, to whom it is warmly recommended.

A-M McIntyre. *Key Issues in the Pharmaceutical Industry*. Wiley. 1999. ISBN 0-471-96518-9.

The term *peptide* is not indexed, but as most Members of the EPS are either directly engaged in the pharmaceutical industry or in academic work which is driven and/or financed by the pharmaceutical industry, this monograph is relevant. The complex interactions between R & D, pricing, regulation, patents and ethics are well introduced, and any peptide scientist at the bench who feels that he is a small cog, but would like a better appreciation of how he fits into the greater machine, would do well to dip into this little book.

GB Fields, JP Tam and G Barany. *Peptides for the New Millennium*. Proceedings of the 16th APS. Kluwer. 2000. ISBN 0-7923-6445-7.

This volume is the expected door-stopper of over 800 closely printed pages, and no peptide lab anywhere in the world will not want to have a copy. It would be an impertinence to try and summarise its contents. Suffice it to say that it ranges wide and deep. Writing these notes in a Britain which is sorely afflicted by foot-and-mouth disease (with 2.5 million head of stock condemned to the end of April 2001), I thought I would dip in and see what peptide science was doing about it – sure enough, there is an indexed contribution here (p679, from European colleagues!). There can be few aspects of human or veterinary medicine which are not touched by peptide science these days, and no doubt most of them are represented in this volume. The Symposium itself was evidently accompanied by a good deal of fun. As of March 2001, information about the fun (an opera, even) is still accessible on the web at <http://www.chem.umn.edu/16aps/welcome.html>

J Martinez and J-A Fehrentz. *Peptides 2000*. Proceedings of EPS-26. Éditions EDK, Paris. 2001. ISBN 2-84254-048-4.

Another door-stopper, but nevertheless on my desk only seven and a half months after the end of the Symposium. It has the added convenience of a CD edition supplied with it (Developer: Marc Rolland). As in the last case, it would be an impertinence to attempt to review, but I did carry out the foot-and-mouth test: there are four references in this volume. The Editors are to be congratulated for rounding off their work as Symposium organisers so efficiently and well.

X-Y Hu, R Wang and JP Tam (Eds.). *Peptides*. Proceedings of the 1998 Chinese Peptide Symposium. Kluwer. 2000. ISBN 0-7923-6279-9.

A slimmer volume printed in bigger type, and nothing about operas here (tho' one hears there was some fun), but the Chinese Peptide Symposia are growing in every respect. This was the fifth in a series which is visibly evolving and attracting international interest as Chinese peptide science develops. This trend is bound to continue, so this volume also merits a place in any peptide library.

T Shiori (Ed.). *Peptide Science 2000*. Proceedings of the 37th JPS. Japanese Peptide Society, 2001. ISBN 4-931541-01-1.

The 37th Japanese Peptide Symposium was held at Aichi-ken Kinroh Kaikan in Nagoya on October 18-20, 2000. It consisted of two award lectures, thirty oral presentations, and eighty-eight poster presentations; there were about 350 active participants. The highlight of the Symposium was the Akabori Memorial Award Lecture by Günther Jung, the first recipient. Akabori was born on October 20, 1900, so the Symposium ended with exquisitely exact timing on the centenary of his birth.

As usual, the Proceedings volume, uniform in style with its immediate predecessor, has been produced with commendable, not to say amazing, speed – my copy was delivered on 10 April 2001, well inside six months from the Symposium.

Contributed by the Editor

CALENDAR OF SOCIETY MEETINGS

An exhaustive list of meetings relevant to the interests of members used to be given under this heading, but as from January 1999 this list, updated every month, has been printed in the *J.Peptide Sci*. It was felt that this would be much more useful to the Peptide Community because of the greater frequency of publication. Organisers of Meetings are asked to continue feeding the Editor with information, however. The Newsletter Calendar now only lists Society Symposia and Small Meetings being arranged under its auspices.

2nd MULTIDISCIPLINARY WORKSHOP ON
SELF-ASSEMBLY OF PEPTIDES AND
PROTEINS IN BIOLOGY, MEDICINE, AND
ENGINEERING

13-17 July 2001, Crete

*Professor Neville Boden [e-mail
nevb@chem.leeds.ac.uk]*

XVith POLISH PEPTIDE SYMPOSIUM

1-4 September 2001, Poland

*Professor Jerzy Silberring [e-mail
silver@chemia.uj.edu.pl]*

4th PEPTIDOMIMETICS AND
PROTEINOMIMETICS SYMPOSIUM

9-14 September, 2001, Sol Cress Holiday Resort,
Spa, Belgium

*Professor G Van Binst [e-mail
georges.van.binst@skynet.be]*

7th INTERNATIONAL SYMPOSIUM, SOLID
PHASE SYNTHESIS

18-22 September 2001, Southampton, UK

*Professor Roger Epton [e-mail
r.epton@mayflower.demon.co.uk]*

2nd GENERAL MEETING OF THE
INTERNATIONAL PROTEOLYSIS SOCIETY,
associated with the INTERNATIONAL
CONFERENCE ON PROTEASE INHIBITORS

31 October – 4 November 2001

Freising, near Munich

*The Organisers [e-mail Jochum@clinbio.med.uni-
muenchen.de]*

27th EUROPEAN PEPTIDE SYMPOSIUM

31 August - 6 September 2002, Sorrento, Italy.

<http://www.27eps.unina.it>

*Chairman Professor E Benedetti [e-mail
27eps@unina.it].*

28th EUROPEAN PEPTIDE SYMPOSIUM

5-10 September 2004, Jerusalem

(3rd INTERNATIONAL PEPTIDE SYMPOSIUM)

The Secretariat [e-mail peptide@kenes.com]

NEW PUBLICATION NOTICES

Information has been received on the following new books, journals, conference proceedings etc. which may be of interest to Members. Notices will be repeated in a future issue if it is necessary to correct them or desirable to provide fuller information. Suggestions for future entries in this section should be sent to the Editor, who will welcome them: full data should be provided, including the ISBN or ISSN. Listing here does not preclude a subsequent review in the Newsletter or J.Peptide Sci.

BIOORGANIC CHEMISTRY

For a review and details see above.

BIOPOLYMERS

Ed. A Steinbüchel.
A ten-volume comprehensive work on all aspects of biopolymers, to be published 2001-2002 by Wiley-VCH.

COMBINATORIAL LIBRARY DESIGN AND EVALUATION: Principles, Software, Tools, and Applications in Drug Discovery

Eds. AK Ghose and VN Viswanadhan.
648pp, 2001. Marcel Dekker Inc.

COMPREHENSIVE NATURAL PRODUCTS CHEMISTRY
Exec. Ed. O Metts-Cohn. 9 vols.
Vol. 4: Amino acids, peptides, porphyrins and alkaloids.
Elsevier, 1999.

ENZYME TECHNOLOGIES FOR PHARMACEUTICAL AND BIOTECHNOLOGICAL APPLICATIONS

Eds. HA Kirst, W-K Yeh and MJ Zmijewski, Jr.
624pp, 2001. Marcel Dekker Inc.

ENZYMES IN NONAQUEOUS SOLVENTS

Eds. EN Vulfson, PJ Halling and HL Holland.
679pp, 2001. Humana Press.
ISBN 0-89603-929-3.

KEY ISSUES IN THE PHARMACEUTICAL INDUSTRY

For a review and details see above.

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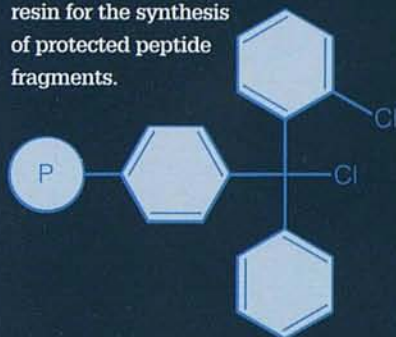
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