

Current challenges in drug discovery and development are the overcoming of the relative lack of success in launching new drugs to the market, the need of reducing, or at least stabilising, the ever increasing cost and time required for the discovery and development of a new medicine, the necessity of facing the pharmacological treatment of orphan diseases, as well as the interest in coping with the development of personalised pharmacotherapies taking into account the interindividual genetic variability.

On the other hand, the drug discovery and development activities currently have great opportunities for improvement on the basis of the consideration of the new genomic and proteomic knowledge, the exploitation of molecular diversity, the understanding of the therapeutic (as well as the side-effects and the toxicological) mechanisms from molecular and structural perspectives, and the intensive use of information technologies, among other issues.

The aforementioned challenges and opportunities require collaborative efforts of many scientific disciplines, from genetics and bioinformatics to clinical pharmacology. Among these disciplines, medicinal chemistry has a key role to play, since it is specially focussed on the chemical part of the pharmaceutical R&D, and effective and efficient medicines research requires a great amount of molecular knowledge. It is an obvious evidence that both biological targets and drugs are molecular entities that require to be studied from the chemical perspective. Thus, ratio-

nal drug design is based on the structures and physico-chemical properties of both targets and drugs, and both the drug activity and the ADMET properties are driven by physico-chemical features. For this reason, the optimisation of the efficacy and ADMET profile of a hit or lead compound always implies the introduction of relevant modifications in the chemical structure of such a compound.

The European Federation for Medicinal Chemistry (EFMC) is a key instrument to stand for and coordinate the efforts of the European medicinal chemistry community to better face the current challenges and opportunities of the drug discovery R&D. The EFMC links 23 scientific organisations from 20 countries, representing about seven thousands scientists from both industry and academia. It has a growing activity as forum for scientific discussion and dissemination by means of the organisation and sponsorship of relevant scientific events, the most important of which are the EFMC International Symposia on Medicinal Chemistry (EFMC-ISMC). Last but not least, the EFMC is increasing its dialogue and collaboration with the other European institutions and organisations playing a significant role in the pharmaceutical research and development, in agreement with the collaborative and interdisciplinary approaches that are required for an efficient generation of new useful and safe medicines.

Prof. Ferran Sanz  
President of the EFMC



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LD Organisation srl  
Route de Blocry, 55 - BE-1348 Louvain-la-Neuve  
Tel: +32 10 45 47 77 - Fax: +32 10 45 97 19  
Email: [efmc@ldorganisation.com](mailto:efmc@ldorganisation.com)

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# Executive Committee

## 2002 - 2004



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Prof. Dr. Ferran Sanz, Tel +34 932 240 302, Fax +34 932 240 875  
IMIM, School of Health and Life Sciences, Universitat Pompeu Fabra,  
Passeig Maritim de la Barceloneta, 37-49, 08003 Barcelona, Spain  
[fsanz@imim.es](mailto:fsanz@imim.es)



### Vice-Chairman

Dr. Edmond Differding, Tel +32 2 386 2730, Fax +32 2 386 3669  
UCB Pharma, R & D, Chemin du Foriest,  
B-1420 Braine-l'Alleud, Belgium  
[edmond.differding@ucb-group.com](mailto:edmond.differding@ucb-group.com)



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Prof. Dr. Henk Timmerman, Tel +31 20 444 75 80, Fax +31 20 444 76 10  
Vrije Universiteit Amsterdam, Department of Pharmacochimistry,  
De Boelelaan 1081A, P346, 1081-HV Amsterdam, The Netherlands  
[timmermn@chem.vu.nl](mailto:timmermn@chem.vu.nl)



### Secretary

Prof. Dr. Gerhard Ecker, Tel +43 1 4277 55110, Fax +43 1 4277 9551  
Institute of Pharm. Chemistry, University of Vienna, Althanstr. 14,  
1090 Wien, Austria  
[gerhard.f.ecker@univie.ac.at](mailto:gerhard.f.ecker@univie.ac.at)



### Treasurer

Dr. Wolfgang Froestl, Tel +41 61 696 21 82, Fax +41 61 696 86 76  
Novartis Pharma AG, Preclinical Research  
WKL-136.5.25, CH-4002 Basel, Switzerland  
[wolfgang.froestl@pharma.novartis.com](mailto:wolfgang.froestl@pharma.novartis.com)



### International Liaison Officer

Dr. Derek Buckle, Tel +44 1737 76 3482  
DRB Associates  
18 Hillfield Road, Redhill, Surrey RH1 4AP, United Kingdom  
[derek.buckle@ndirect.co.uk](mailto:derek.buckle@ndirect.co.uk)



### Long-Term Planning Officer

Prof. Dr. Roberto Pellicciari  
Dipartimento di Chimica e Tecnologia del Farmaco  
Università di Perugia  
Via del Lieco, 1, 06123 Perugia, Italy  
[rp@unipg.it](mailto:rp@unipg.it)

## Council

The Council consists of the members of the EC and one delegate of each Adhering Organisation.  
The details of each delegate can be found within the National Organisations pages.

# Executive Committee

## 2005 - 2006

**President** till 31.12.2005 - **Past-President** 01.01.2006 - 31.12.2007  
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 Passeig Marítim de la Barceloneta, 37-49, 08003 Barcelona, Spain  
[fsanz@imim.es](mailto:fsanz@imim.es)



**President Elect** till 31.12.2005 - **President** 01.01.2006 – 31.12.2008  
 Prof. Roberto Pellicciari,  
 Tel. +39 075 5855120 or +39 075 5855164, Fax +39 075 5855124  
 Dipartimento di Chimica e Tecnologia del Farmaco  
 Università di Perugia, Via del Liceo, 1, IT-06123 Perugia, Italy  
[rp@unipg.it](mailto:rp@unipg.it)



**Secretary**  
 elected 01.01.2005 – 31.12.2006, 2nd term  
 Prof. Dr. Gerhard Ecker, Tel +43 1 4277 55110, Fax +43 1 4277 9551  
 Institute of Pharm. Chemistry, University of Vienna, Althanstr. 14, 1090 Wien, Austria  
[gerhard.f.ecker@univie.ac.at](mailto:gerhard.f.ecker@univie.ac.at)



**Treasurer**  
 elected 01.01.2005 – 31.12.2006, 2nd term  
 Dr. Wolfgang Froestl, Tel +41 61 696 21 82, Fax +41 61 696 86 76  
 Novartis Pharma AG, Preclinical Research, WKL-136.5.25, CH-4002 Basel, Switzerland  
[wolfgang.froestl@pharma.novartis.com](mailto:wolfgang.froestl@pharma.novartis.com)



**Additional Member**  
 01.01.2005 – 31.12.2006, first term  
 Dr. David Alker, Tel +44 1304 648448, Mobile 0 7818 457662, Fax +44 1304 651813  
 Discovery Staffing Group Manager, Pfizer Global Research and Development, Sandwich  
 Laboratories (IPC 475), Ramsgate Road, Sandwich, Kent, CT13 9NJ  
[david\\_alker@sandwich.pfizer.com](mailto:david_alker@sandwich.pfizer.com)



**Additional Member**  
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 Dr. Brigitte Lesur, Tel + 33 1 49 81 82 42, Fax +33 1 49 81 82 20  
 Cephalon France, Centre de Recherche et de Développement Medicinal Chemistry  
 19, avenue du Professeur Cadiot, 94704 - Maisons Alfort, France  
[blesur@cephalon.fr](mailto:blesur@cephalon.fr)



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 Prof. Peter Matyus, PhD., DSc., Tel/Fax: +36-1-2170851  
 Head of Department, Department of Organic Chemistry, Semmelweis University  
 Hogyes u. 7, Budapest, H-1085, Hungary  
[matypet@szerves.sote.hu](mailto:matypet@szerves.sote.hu)



## Council

The Council consists of the members of the EC and one delegate of each Adhering Organisation.  
 The details of each delegate can be found within the National Organisations pages.

# EFMC OBJECTIVES

The [European Federation for Medicinal Chemistry \(EFMC\)](#) is an independent association founded in 1970. Free from any political convictions, it represents the scientific organisations from 20 European countries and covers a geographical area, the size of the USA with a similar scientific population. Its objective is to advance the science of medicinal chemistry by promoting cooperation and encouraging strong links between the national adhering organisations, in order to promote contacts and exchanges between medicinal chemists in Europe and around the World.

Moreover, it offers medicinal chemists an opportunity to publish their work internationally by organising the biennial International Symposium on Medicinal Chemistry (ISMC). ISMC meetings have been held in many different European countries since 1970: Israel, Italy, Germany, Spain, Sweden, France, UK, The Netherlands, Switzerland, Hungary, Denmark and even Canada. These symposia, with an average attendance of 1,400 delegates, are highly international with a broad range of speakers and attendees representing well in excess of 40 countries.

The EFMC has very strong links with the Medicinal Chemistry Division of the American Chemical Society. Not only does the EFMC have a permanent representative from this division, who attends its management meetings, but also the EFMC now has a permanent representative on the Long Range Planning Committee of The ACS Medicinal Chemistry Division. Through this collaboration the ACS convenes sessions for the biennial ISMC Symposia, the flagship symposia of the EFMC, and conversely the EFMC convenes sessions for ACS National meetings. This relationship is being continually strengthened.

European scientists are currently contributing some 40% of the total published manuscripts of The Journal of Medicinal Chemistry. Indeed, the EFMC has a specific representative on the Editorial Advisory Board of the Journal of Medicinal Chemistry. Thus demonstrating the quality of European science and its scientists.

Strong links are also established with the Asian Federation of Medicinal Chemistry: participating in meetings organised by the AFMC and vice versa. This collaboration gives the EFMC a strong international flavour.

Another important part of the EFMC activities is conferring its sponsorship on national scientific meetings. There are a number of scientific meetings organised between two or more countries for which the EFMC confers its sponsorship. More recently it has also awarded bursaries for younger scientists to attend meetings that the EFMC has sponsored.

The EFMC also acknowledges the excellence of medicinal chemists' work, it confers three major awards: the Nauta Award, the UCB Award and the Prous Award. They are given every two years for outstanding achievements in the field of Medicinal Chemistry.

The EFMC homepage is now hot-wired to the web sites of many national organisations, thus facilitating the flow of information, and the new yearbook "Medicinal Chemistry in Europe" should help to further develop cooperation between member organisations as well as their industrial partners and therefore advance medicinal chemistry in Europe, and by extension around the globe.

# CORPORATE *members*

The [EFMC](#) offers the opportunity to become corporate sponsor to all those companies which contribute significantly to EFMC.

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- a one page advertisement in the yearbook at full rate
- sponsoring one of the three EFMC awards
- sponsoring EFMC grants for attending ISMCs, paying travelling costs for EC-members
- or any other contribution which supports the activities of the Federation.

Corporate Members will be acknowledged by the Federation in its primary literature and website and, more importantly, they will have the opportunity to actively contribute to the long range planning of EFMC activities. Thus, Corporate Members will be invited to nominate a scientist from their organization to liaise directly with appropriate members of the Federation's Executive Committee. In this manner they will have an opportunity to suggest topics, and even individual speakers, for forthcoming EFMC-ISMC Symposia.

Companies interested to become a Corporate Member should contact the EFMC Secretariat

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Prof. Dr. W. Th.  
Nauta Foundation



# EFMC Awards 2004

The Awards have been presented during the Opening Session of the **XVIIIth EFMC International Symposium on Medicinal Chemistry**, August 15, in Copenhagen, Denmark.

EFMC



European Federation for  
Medicinal Chemistry

## **The Nauta Award** **on Pharmacochemistry 2004** for Prof. C. Robin Ganellin

This award is granted to Prof. C. Robin Ganellin, University College London, on the basis of his impressive career in both industry, academia and scientific organisations, as well as for his efforts to internationally promote Medicinal Chemistry as a chemical discipline. His key contribution to the discovery of histamine antagonists as a novel class of antiulcer drugs with a major clinical impact is especially recognised.

The "Nauta Award on Pharmacochemistry" has been established to honour the memory of Prof. Dr. W. Th. Nauta, whose activities have been very important for the advancement of Medicinal Chemistry in general, and for the development of international organizational structures for this discipline. The prize is awarded once every two years to an outstanding European medicinal chemist or to a non-European scientist working in Europe. The prize was given for the first time in 1992.

EFMC

Awards



## **The UCB Award for Excellence in Medicinal Chemistry 2004**

**for Prof. Jesper Wengel**

This award is granted to Prof. Jesper Wengel, University of Southern Denmark, Odense, on the basis of his outstanding scientific contributions. In particular, his discovery of Locked Nucleic Acids (LNA) has been highly significant in the discovery of effective antisense oligonucleotides, a discovery that has greatly enhanced the chances of a successful development of oligonucleotide-based therapeutic agents.

The "UCB Award for Excellence in Medicinal Chemistry" has been established by UCB S.A. in order to increase the awareness of the important role played by Medicinal Chemistry in the discovery of new medicines. The prize is awarded once every two years to a scientist, not exceeding the age of 45 years, without restrictions regarding nationality, to acknowledge and recognize outstanding research in the field of Medicinal Chemistry in its broadest sense. The first UCB Award was given in 2002.

## **The Prous Science Award for New Technologies in Drug Discovery 2004**

**for Prof. C. Oliver Kappe**

This award is granted to Prof. C. Oliver Kappe, Karl-Franzens University, Graz, on the basis of his outstanding and innovative scientific contributions in the field of microwave-assisted combinatorial chemistry.

The Prous Science Award for New Technologies in Drug Discovery has been established by Prous Science S.A. and is given for the first time this year. This prize is awarded once every two years to encourage research and innovation in technological developments related to the drug discovery process, and is given to a scientist, without restrictions regarding nationality, to acknowledge the invention, evaluation or innovative use of new technologies for drug discovery.



# events

## EFMC EVENTS 2004



### The XVIIIth International Symposium on Medicinal Chemistry (ISMC)

has been held in Copenhagen, Denmark (August 15-17 and 19) and Malmö, Sweden (August 18), 2004 under the auspices of EFMC.

1200 participants from 54 countries participated in this symposium focused on medicinal chemistry as a scientific discipline undergoing rapid development. The molecular biological revolution, new drug design technologies and the progressing mapping of the human genome have created a new exciting working field for scientists in these research areas. These developments are continuously broadening the borderlines between chemistry, informatics and biology and provide new opportunities for drug design on a rational basis. ISMC 2004 illustrated the integration of the complementary industrial and academic drug design approaches.

The abstracts of EFMC 2004 have been published as a supplement to *Drugs of the Future*, Volume 29, Suppl. A, August 2004 and copies are still available <http://www.prous.com/journals/orderMedChem.html>



### The Symposium on Advances in Synthetic, Combinatorial and Medicinal Chemistry (ASCMC)

, organized under the auspices of the EFMC, by the Medicinal Chemistry Section of the D.I. Mendeleev Russian Chemical Society & ChemBridge Corporation, took place in Moscow, Russia, From May 5 until May 8, 2004.

The topics which were covered during this symposium included: New Synthetic Methodologies, Total Synthesis of Natural Products and Heterocyclic Chemistry, Combinatorial Chemistry, Diversity- and Target-Oriented Synthesis, Medicinal Chemistry and Drug Discovery & Development. The program also included a half-day Business Mini-Symposium "Discovery Chemistry Outsourcing Opportunities in Russia". 600 participants from outside Russia were joined by 400 Russian scientists for the first two days of the symposium.

Abstract books are still available via the symposium secretariat:

[ascmc@LDOrganisation.com](mailto:ascmc@LDOrganisation.com)



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organised by the National Adhering Organisations 2004/2005

EFMC sponsored events highlighted in orange

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**Lead Profiling, Myth or Reality?**

UGent -Het Pand, Ghent, Belgium  
KVCV & SRC Medicinal Chemistry Divisions

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Tel : +32 10 45 47 77  
Fax : +32 10 45 97 19  
[secretariat@LDOrganisation.com](mailto:secretariat@LDOrganisation.com)  
[www.LDOrganisation.com](http://www.LDOrganisation.com)

**November 26-28, 2004**

**Liblice 2004 - Advances in Organic,  
Bioorganic and Pharmaceutical Chemistry**

Nymburk, Czech Republic  
Division of Organic, Bioorganic and Pharmaceutical  
Chemistry of the Czech Chemical Society  
Prof. Pavel Drašar  
Tel : +420 224 354 283 Fax : +420 224 310 859  
[Pavel.Drasar@vscht.cz](mailto:Pavel.Drasar@vscht.cz)  
<http://uoch.vscht.cz/orbifachos/Liblice2004.html>

**December 2, 2004**

**Trends in Medicinal Chemistry**

National Heart and Lung Institute, Kensington,  
London, UK  
SMR  
SMR Secretariat  
Tel : +44 870 833 2431  
Fax : +44 870 833 2434  
[secretariat@smr.org.uk](mailto:secretariat@smr.org.uk)  
[www.smr.org.uk](http://www.smr.org.uk)

**December 9, 2004**

**New Research Strategies in Medicinal Chemistry**

Paris, Institut Curie  
Pierre Roger  
Tel : +33 1 45 36 29 49  
Fax : +33 1 45 36 20 13  
[Pierre.roger@sanofi-synthelabo.com](mailto:Pierre.roger@sanofi-synthelabo.com)  
[www.sct.asso.fr](http://www.sct.asso.fr)

**January 19, 2005**

**Danish Pharmacology 2005**

University of Southern Denmark, Odense

Prof. Michael J. Mulvany  
Tel : +45 8942 1711  
Fax : +45 8612 8804

[mm@farm.au.dk](mailto:mm@farm.au.dk)  
[www.dsft.dk](http://www.dsft.dk)

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Medicinal Chemistry Section of the Royal Dutch  
Society of Chemistry  
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Tel : +31 294 479183  
Fax : +31 294 477138  
[hein.coolen@solway.com](mailto:hein.coolen@solway.com)  
[www.kncv.nl](http://www.kncv.nl)

**March 8, 2005**

**Journée commune SFC-SCT-**

**Académie de Pharmacie**

Paris, Institut Curie  
Société de Chimie Thérapeutique,  
Société Française de Chimie, Académie de Pharmacie  
Pierre Roger  
Tel : +33 1 45 36 29 49  
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[Pierre.roger@sanofi-synthelabo.com](mailto:Pierre.roger@sanofi-synthelabo.com)  
[www.sct.asso.fr](http://www.sct.asso.fr)

**March 10, 2005**

**Chemical Genetics and Genomics: What are they  
and are they helping drug discovery?**

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SMR Secretariat  
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Fax : +44 870 833 2434  
[secretariat@smr.org.uk](mailto:secretariat@smr.org.uk)  
[www.smr.org.uk](http://www.smr.org.uk)

**March 10, 2005****Spring Meeting of the Swiss Chemical Society**Universität Bern  
SCS Division of Chemical ResearchProf. Philippe Renaud  
Tel : +41 31 631 43 59  
Fax : +41 31 631 34 26  
Philippe.renaud@ioc.unibe.ch  
<http://www.swiss-chem-soc.ch/DCR>**March 13-16, 2005****2<sup>nd</sup> Anglo-Swedish Medicinal Chemistry Symposium**Are, Sweden  
BMCS/Aptekare SwedenJeanette Jansson  
Tel : +46 8 723 50 84  
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[jeanette.jansson@swepharm.se](mailto:jeanette.jansson@swepharm.se)**March 14 - 16, 2005****Annual Meeting of the GDCh Division of Medicinal Chemistry**

Leipzig, Germany

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Tel : +49 7917 358/360/366  
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[tg@gdch.de](mailto:tg@gdch.de)  
<http://www.gdch.de/vas/tagungen/tagungen2005.html>**March 17, 2005****Cukrblik - Current Chemistry and Biochemistry of Saccharides**Prague, Czech Republic,  
Division of Organic, Bioorganic and Pharmaceutical  
Chemistry of the Czech Chemical Society  
Czech Microbiological Society  
Prof. Jitka MoravcováTel : +420 224 354 283 Fax : +420 224 310 859  
[Jitka.Moravcova@vscht.cz](mailto:Jitka.Moravcova@vscht.cz) <http://vscht.cz/lam/new>**April 2005****16<sup>th</sup> East of England Medicinal Chemistry Meeting**Hatfield, UK  
BMCSStephen Fletcher  
Tel : +44 1279 440289  
[Stephen.fletcher@merck.com](mailto:Stephen.fletcher@merck.com)**April 7-8, 2005****4<sup>th</sup> Johnson and Johnson PRD Symposium on Drug Discovery**Antwerp (Belgium)  
Johnson and Johnson,  
University of Antwerp with the aid of KVCV  
Prof. Koen Augustyns  
Tel : +32 3 820 27 03  
Fax : +32 3 820 27 39[koen.augustyns@ua.ac.be](mailto:koen.augustyns@ua.ac.be) [www.kvcv.be](http://www.kvcv.be)**May 2005****9<sup>th</sup> Conference in Advanced Medicinal Chemistry**Thessaloniki, Greece  
Department of Medicinal Chemistry,  
Aristotelian University of Thessaloniki and Hellenic  
Society of Chemistry  
Panos N. Kourounakis  
Tel : +30 2310997621  
Fax : +30 2310997622  
[panoskur@pharm.auth.gr](mailto:panoskur@pharm.auth.gr) <http://www.pham.auth.gr>**May 2005****XXX<sup>th</sup> Colouristic Symposium**Eger (Hungary)  
Hungarian Chemical SocietyDr. Agnes Kovacs-Stahl  
Tel : +36 1 201 6883  
Fax : +36 1 201 8056  
[mail@mke.org.hu](mailto:mail@mke.org.hu)  
[www.mke.org.hu](http://www.mke.org.hu)**May 8-13, 2005****15<sup>th</sup> Noordwijkerhout-Camerino Symposium : Trends in Drug Research**Noordwijkerhout, the Netherlands  
Secretariat 15<sup>th</sup> Noordwijkerhout-Camerino  
SymposiumProf. Dr. Henk Timmerman  
Tel : +31 20 444 75 80  
Fax : +31 20 444 76 10  
[timmermn@few.vu.nl](mailto:timmermn@few.vu.nl)**May 9-10, 2005****Protein Kinases: Signalling Success**  
English Heritage Lecture Theatre, London, UK  
BMCS/SCIElaine Wellingham  
Tel : +44 1275 853311  
Fax : +44 1275 853311  
[confsec@blueyonder.co.uk](mailto:confsec@blueyonder.co.uk)

**June 16, 2005**

**The Therapeutic Potential  
of Tissue Engineering and Regeneration**  
National Heart and Lung Institute, Kensington,  
London, UK  
SMR Secretariat  
Tel : +44 870 833 2431  
Fax : +44 870 833 2434  
secretariat@smr.org.uk  
www.smr.org.uk

**June 17, 2005**

**Pharma Sci Fair. Anticancer Agents Session**  
Nice, France, Palais des Congrès  
Michel Koch, Claude Monneret, Olivier Lafont  
Tel : +33 2 35 14 8651  
Fax : +33 2 35 14 8400  
Olivier.lafont@univ-roen.fr  
www.sct.asso.fr

**June 20-23, 2005**

**Joint Meeting on Medicinal Chemistry**  
Vienna  
Medicinal Chemistry organisations from Austria,  
Germany, Hungary, Italy, Poland and Spain  
Peter Ettmayer  
Tel : +43 1 86634 378  
Fax : +43 1 86634 383  
peter.ettmayer@pharma.novartis.at  
http://www.goech.at

**June 25-26, 2005**

**The Role of Chemistry in Molecular Medicine**  
Szeged (Hungary)  
Prof. Botond Penke  
Tel : +36 62 545131  
Fax : +36 62 545971  
penke@ovrisc.mdche.u-szeged.hu  
www.mke.org.hu

**June 28-29-30, 2005**

**Vegyészkonferencia  
(Org. and Med. Chem. Symp.)**  
Hajduszoboszló (Hungary)  
Organic and Medicinal Chemistry Division (OMCD)  
of the Hungarian Chemical Society  
Prof. Péter Mátyus  
Tel : +36 1 217 0851  
Fax : +36 1 217 0851  
matypet@szerves.sote.hu  
www.mke.org.hu

**July 5-8, 2005**

**Rencontres Internationales  
de Chimie Thérapeutique**  
Paris, Maison de la Chimie  
Madame le Professeur Garbay, M. Vidal  
Tel : +31 42 86 40 80  
Fax : +31 42 86 40 82  
garbay@pharmacie.univ-paris5.fr  
www.sct.asso.fr

**August 28 - September 1, 2005**

**11<sup>th</sup> Blue Danube Symposium  
on Heterocyclic Chemistry**  
Brno, Czech Republic  
Department of Organic Chemistry, Masaryk  
University of Brno, Kotlarska 2, 611 37 Brno  
Prof. Dr. Milan Potacek  
Tel : +420 549 496 615 Fax : +420 549 492 688  
potacek@chemi.muni.cz  
http://www.bdshc.org/bdshc11

**September 4-7, 2005**

**13<sup>th</sup> RSC/SCI Medicinal Chemistry Symposium**  
Cambridge, UK  
BMCS/SCI  
Elaine Wellingham  
Tel : +44 1275 853311  
Fax : +44 1275 853311  
confsec@blueyonder.co.uk

**September 3-8, 2005**

**XVI<sup>th</sup> Fechem  
Conference on Organometallic Chemistry**  
Budapest (Hungary)  
Organic and Medicinal Chemistry Division (OMCD)  
of the Hungarian Chemical Society  
Prof. István T. Horváth  
Tel : +36 1 209 0590 Fax : +36 1 209 0607  
istvan.t.horvath@hit-team.net  
www.fechem.elte.hu

**September 8, 2005**

**Cardiovascular Medicine**  
Organon Research Laboratories, Scotland, UK  
SMR Secretariat  
Tel : +44 870 833 2431  
Fax : +44 870 833 2434  
secretariat@smr.org.uk  
www.smr.org.uk

**September 11-16, 2005**  
**Summer School Drug Design**  
 Austria

Austrian Pharmaceutical Society &  
 Austrian Chemical Society  
 Prof. Gerhard Ecker  
 Tel : +43 1 4277 55063  
 Fax : +43 1 4277 9551  
[gerhard.f.ecker@univie.ac.at](mailto:gerhard.f.ecker@univie.ac.at)  
<http://www.oephg.at/>

**September 12-14, 2005**  
**34<sup>th</sup> Conference Synthesis and Analysis of Drug**

Brno, Czech Republic  
 Czech Pharmaceutical Society,  
 Section of Synthetic Drugs  
 Prof. Luděk Beněš  
 Tel : +420 541 562 927  
 Fax : +420 541 240 607  
[benesl@vfu.cz](mailto:benesl@vfu.cz)

**September 12-16, 2005**  
**Second Joint Italian Swiss Meeting**  
**on Medicinal Chemistry**  
 Modena

Prof. Giuseppe Ronisvalle, Dr. Wolfgang Froestl  
 Dr. Livio Brasili  
 Tel : + 39 059 205 51 39  
 Fax : + 39 059 205 51 31  
[brasili.livio@unimore.it](mailto:brasili.livio@unimore.it)  
<http://www.swiss-chem-soc.ch/smc/>

**September 13-16, 2005**  
**XIV Congreso Nacional de la SEQT**  
 Bilbao

Dr. Aurelio Orjales, Dr. Esther Domínguez,  
 Dr. Maravillas Bordell, Dr. Roberto Olivera,  
 Dr. M<sup>a</sup> Dolores Badia. Dr. Esther Lete,  
 Dr. M<sup>a</sup> Luisa Lucero, Dr. Ramón Mosquera  
 Tel : +34 94 4818300  
 Fax : +34 94 4818309  
[aorjales@faes.es](mailto:aorjales@faes.es) <http://www.seqt.org>

**September 14-15, 2005**  
**Interfaces'05**

SOPRON (Hungary)  
 Hungarian Chemical Society

Dr. András Kovács  
 Tel : +36 1 201 6883  
 Fax : +36 1 201 8056  
[mail@interfaces05.hu](mailto:mail@interfaces05.hu)  
[www.interfaces05.hu](http://www.interfaces05.hu)

**September 18-21, 2005**  
**11<sup>th</sup> Conference on Total Reflection X-Ray**  
**Fluorescence Analysis and Related Methods**  
 Budapest (Hungary)

Spectrochemical Association  
 of the Hungarian Chemical Society  
 Prof. Gyula Záray  
 Tel : +36 1 209 0555  
[zaray@ludens.elte.hu](mailto:zaray@ludens.elte.hu)  
[www.mke.org.hu](http://www.mke.org.hu)

**October 13, 2005**  
**Fall Meeting of Swiss Chemical Society**  
 Ecole Polytechnique fédérale de Lausanne

Prof. Thomas Rizzo  
 Tel : +41 21 693 3073  
 Fax : +41 21 693 5170  
[Thomas.rizzo@epfl.ch](mailto:Thomas.rizzo@epfl.ch)  
<http://www.swiss-chem-soc.ch/>

**November 2005**  
**Annual One Day Symposium**  
 Namur, Belgium  
 SRC & KVCV, Medicinal Chemistry Divisions

LD Organisation  
 Tel : +32 10 45 47 77  
 Fax : +32 10 45 97 19  
[secretariat@ldorganisation.com](mailto:secretariat@ldorganisation.com)  
[www.src.be](http://www.src.be)

**December 8, 2005**  
**Case Histories in Drug Discovery and Design**  
 National Heart and Lung Institute, Kensington,  
 London, UK

SMR Secretariat  
 Tel : +44 870 833 2431  
 Fax : +44 870 833 2434  
[secretariat@smr.org.uk](mailto:secretariat@smr.org.uk)  
[www.smr.org.uk](http://www.smr.org.uk)

**September 2-6, 2006**  
**XIX<sup>th</sup> International Symposium**  
**on Medicinal Chemistry**  
 Istanbul, Turkey

Turkish Association of Pharmaceutical  
 and Medicinal Chemistry  
 Erden Banoglu  
 Tel : +90 312 2154468  
 Fax : +90 312 2235018  
[banoglu@gazi.edu.tr](mailto:banoglu@gazi.edu.tr)





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Im Schleiert 10

D-76187 Karlsruhe

Germany

Phone +49 (0)721 95061-0

Fax +49 (0)721 95061-80

[www.abcr.de](http://www.abcr.de)



# Intellectual Property for Pharmaceuticals

Konrad Becker  
Aeschenvorstadt 24, P.O. Box 318 - CH-4010 Basel - Switzerland

<http://www.beckerpatent.ch>  
[mail@beckerpatent.ch](mailto:mail@beckerpatent.ch)

Why should a medicinal chemist care about intellectual property? There are specialists dealing with the matter of patents and trademarks, so let us concentrate on “true” science! But: Intellectual property protection is paramount for the pharmaceutical industry. With increased globalisation and global competition as a consequence thereof, only companies with a constant flow of innovative products and services will survive. The better you can protect this innovation the better off your company is.

Intellectual property protection has also grown in importance for universities. Nowadays it is more difficult than ever to secure funds for research. If the results of research could be commercialised, and at the same time a royalty stream generated from it, many financial problems of research groups at universities could be alleviated. The general public will also profit from such a development when the fruits of academic research are more often translated into practical products and made generally available.

Intellectual property rights get more and more attention in the general media. In the past few years a lot of awareness has been created on the emotional side, with slogans such as “no patents for life”, or in the context of healthcare costs, prices for pharmaceuticals and parallel imports. It is therefore important that scientists working in research, development, production, marketing and administration know the basic aspects and principles of intellectual property, and have an idea of the burning questions that intellectual property specialists are dealing with [1].

The success of today's pharmaceutical industry very much depends on adequate protection of intellectual property. Under the term intellectual property one understands many different forms of protection titles such as patents, trademarks, designs, plant variety protection, protection of geographical indication and other related titles, but also protection of undisclosed information, know-how, and copyright. Protection of inventions by patents, protection of (generally undisclosed) information required for registration of pharmaceuticals, and trademarks supporting effective marketing are all very important, but one can properly state that *patents* form the lifeline for the research-based pharmaceutical industry. Investment of, at present, more than USD 500 million for research and development of one new medicine which reaches the market can only be justified because intellectual property protection grants a limited term of exclusivity for the commercial exploitation of such an invention. Yet, patents are and will probably continue to remain a contentious issue.

There is an inherent tension between the limited monopoly of a (pharmaceutical) patent, which gives the successful innovator a fair chance to recoup his investments, and the interest of governments in containing health care cost. Likewise the use of trademarks in marketing efforts of pharmaceutical industry is under attack, mainly because some governments and political circles believe that trademarks are misused to partition markets and to indirectly extend the period of exclusivity granted by a patent.

## What is a Patent?

A patent is an exclusive right granted by the state for a limited time in respect of a new and useful invention [2]. This right is usually limited to the territory of the state granting the patent. If protection is desired in a number of countries, patents must be obtained in all of them, either through national patent offices or through a regional multinational body such as the European Patent Office.

For a patent to be granted for an invention, the invention must be novel and involve an inventive step, that is, must be non-obvious. Novelty and non-obviousness are determined with respect to the "state of the art", which (somewhat simplified) means everything in use or published before the patent application was first filed or before the invention was made.

It is important to realise that a patent does not give the right to practise the invention, but only the right to exclude others from doing so. For example, owning a patent for a new drug does not give the right to market the drug without permission from the regulatory authorities, nor does it give the right to infringe an earlier existing patent. The patent owner may enforce his exclusive right in the courts, stop the activities of an infringer and make him pay damages. The patent owner may also grant licenses allowing a licensee to use the invention (if he fulfils all the other non-patent requirements), usually in return for financial compensation such as royalties on the sale of products.

The exclusive right given by a patent is granted for a limited period only, usually 20 years from the filing date. Some countries allow extensions of the patent term for pharmaceuticals to make up for the fact that marketing is delayed by the need to obtain regulatory approval. Once the patent term has expired or the patent has lapsed by non-payment of the renewal fees, anyone is free to use the invention. The public is able to do so because the patent specification is published (usually 18 months after the first filing date) with a description which enables the invention to be carried out by a skilled person.

## International Agreements

Basis for the "globalisation" of patent rights is the International Convention for the Protection of Industrial Property (Paris Convention) dating back more than 120 years [3]. The most important practical aspect of the Paris Convention is that, if an application for a patent is made in one country, corresponding applications may be filed in other countries within one year from the first filing date. These later filings will be treated as if they were filed on the same day as the first application.

As a consequence, publications and use relating to the invention after that first filing date will not influence the patentability of later filed identical patent applications in other countries. This allows an inventor to first test and develop an invention before spending all the money for world wide filing. It is still desirable to postpone planned publications until patent applications have been filed world wide, since additions to the subject matter included in those later world wide patent applications are not shielded from the impact of prior art surfacing in these first 12 months called "priority year".

The Paris Convention not only covers patents, but also other industrial property rights, notably trademarks. Another important aspect of the Paris Convention is the fact that foreigners and nationals of the state where an intellectual property right is applied for are treated equally except for formal requirements.

A simplified mechanism for world wide patent applications is offered by the Patent Cooperation Treaty (PCT) [4]. The PCT is now in force for over 120 countries, covering all important markets in North America, Europe and Asia, except e.g. for Taiwan, Argentina, Chile and some other countries in Latin America, Arabic countries in the Middle East and also some countries in Africa are not yet members of PCT. The PCT, like the Paris Convention, is administered by the World Intellectual Property Organization (WIPO), a UN organization with its headquarters in Geneva. It does not create a supranational patent office, nor does it grant a "world patent", but it does simplify the process of filing patent applications simultaneously in a

number of countries. Under the PCT, a single application may be filed securing rights for all PCT contracting states. A search is made for relevant prior art together with a first assessment of patentability, and the application is published, together with the search report, 18 months after the priority date. The applicant then has 12 more months (i.e. a total of 2<sup>1/2</sup> years from the first filing date) in which to prepare all necessary translations and documents for national filings in the designated countries. This again allows a patent applicant to further evaluate the commercial value of the invention before making investments in world wide filings. The search results and the preliminary assessment of patentability also reveal if prior art is known which prohibits the grant of a valid patent.

The agreement on Trade Related Aspects of Intellectual Property Rights (TRIPs) is a further important agreement which had considerable impact on patent, trademark and other intellectual property rights available to pharmaceutical companies [5]. This agreement evolved from the GATT Uruguay Round and is part of the package of agreements which had to be accepted and implemented by all World Trade Organization (WTO) member states. The TRIPs agreement covers the whole range of intellectual property issues including patents, trademarks, geographical indications, industrial designs, integrated circuits, copyright and trade secret protection, as well as general provisions concerning basic principles, intellectual property enforcement, and dispute resolution between WTO member states.

TRIPs requires WTO member states to introduce strong patent protection, the most important elements of which are: A minimum term of 20 years from filing; patent protection to be available for all chemical compounds, including pharmaceuticals; patent rights to be without discrimination as to whether products are locally made or imported; and enforcement procedures to be effective, fair, equitable and not unnecessarily costly. Further to that the WTO offers a convenient and comparatively fast dispute settlement procedure for disputes between WTO member states about whether TRIPs (and other GATT/WTO agreements) are properly implemented and properly interpreted.

Prior to the TRIPs agreement a number of countries discriminated against pharmaceutical patents by allowing automatic compulsory licences in this field. This meant that the patent owner could not use the patent to exclude others, but only to collect royalties from imitators, the royalties often being fixed at arbitrarily low levels. Under TRIPs, compulsory licenses are allowed only under strict conditions, and on an individual basis. The question of compulsory licences are again on the table in the political discussions around TRIPs, as could be seen in the Doha and Cancún Ministerial Conferences. Many developing countries believe that the problems with their national health systems could be alleviated by importing pharmaceuticals from other countries under compulsory licences. A complicated system of rules has now been set up, which should make sure, e.g., that the compulsory licence system will not be misused and that the pharmaceuticals imported into developing countries under such a compulsory licence will not be re-exported to first world countries [6].

## Formal Aspects of a Patent

A patent application consists of a description of the invention, which may include figures (and in pharmaceutical applications usually chemical formula and examples), the claims, and an abstract. The abstract is technical information only, is used chiefly for search purposes, and has no legal effect.

A patent description is a legal as well as a scientific document, which serves a different purpose from that of a paper in a scientific journal, and should be read in a different way. The description must be sufficiently clear to enable a skilled person to reproduce the invention. In pharmaceutical cases it will normally contain a number of examples. Academic scientists are sometimes distrustful of patents as sources of scientific information because many patents contain what are called "paper examples" which were never actually carried out. The inclusion of a "paper example" as a cookbook recipe in a patent is not a false representation that the compound has been made; it is an honest representation that it is predictable that the compound can be made in that way.



The claims serve the important legal purpose of defining the scope of the exclusive rights given by the patent. Claims in patent applications as filed are often much broader than claims in a patent as granted after examination in a patent office, and only the latter have to be observed. It is an infringement of the patent to make or do something which is covered by the scope of the claims, as interpreted by the responsible court. The scope of the claims is not limited to the literal wording, but to some extent also includes equivalents of the literal wording. The claims must be supported by the description, but will often be broader in scope than the specific embodiments of the invention described in the examples. On the other hand, claims may only cover part of what is described in the patent, since examination of the claims by a patent office may reveal that original claims as filed in the application do not fulfil the legal requirements.

Patents usually contain a number of claims starting with a broad claim to a large group of compounds or a very general process, going on to more limited (dependent) claims to particular sub-groups, and ending with specific claims to individual preferred compounds or particular conditions of a process. These dependent claims are supposed to give a fall-back position in the event that the broadest (or a broader) claim is later found invalid by a court.

Patent claims may be classified into product claims and process claims. Product claims claim a physical entity, for example a chemical compound, a crystal form, a compound mixture or a pharmaceutical formulation. Process claims (sometimes called method claims) cover the act of doing something, for example manufacturing a (new or old) product, using a product in a particular way, or even treating a disease. A compound claim is infringed by someone making, using or selling the compound, irrespective of how it is made. A claim to a process for making the compound is infringed not only by carrying out the process, but also by using or selling the product of the process.

Once a compound is sold, the patent rights are exhausted, which means that the purchaser may use or re-sell it without limita-

tion. Since a patent is a territorial right, this exhaustion is – in principle – limited to the patent territory. The patent owner can therefore stop the import of a patented product even if the patent rights to this product are exhausted in the exporting country. There is a notable exception to the mentioned principle of national exhaustion within the European Economic Area, where the free flow of goods is the rule. Patents can only be enforced once when a product is first put on the European market, a situation called regional exhaustion. Parallel trade within the European Union is a continuous concern for the pharmaceutical industry since national health authorities regulate marketing and pricing, thereby creating considerable price differences for pharmaceuticals between different member states of the EU. These price differences are then used (or rather misused) by parallel traders shifting products from one country to another, and re-labelling or re-packaging the products. Patent (and also trademark) rights cannot be used to stop parallel trade, except under special circumstances.

## Patentability Requirements in Europe

Although formal aspects of patent applications and patents are pretty much harmonized throughout the world actually as a consequence of the PCT discussed above and the Patent Law Treaty [7] signed recently, there are still differences in the substantive patentability requirements, most notably between the United States and the rest of the world. In the following we will first present the situation in Europe.

The European Patent Convention (EPC) [8] now comprises 28 member states, in particular the 25 countries of the European Union (EU) with the exception of Latvia, Lithuania and Malta (which will have to join the EPC as well), and also Bulgaria, Romania, Turkey, Monaco, Switzerland and Liechtenstein [9]. As an alternative to filing separate patent applications at each national patent office, the EPC provides for the grant of patents in some or all of the member states by means of a single patent application written in English, French or German. The patent application is examined for patentabi-



lity by the European Patent Office in Munich and Den Haag. Once the European patent is granted, it has to be translated into the national official languages and falls apart into a bundle of national patents subject to national laws on validity and infringement. Although an EU ("Community") patent is in discussion since 1975 no unitary EU patent is available and probably will not be in the near future. Such unitary EU patent would be highly desirable for industry, but the projects for an EU patent failed so far because of the translation requirements, the projected costs for the patent applicant, and inadequate proposals for the judicial arrangements for validity and infringement of such patents.

According to the EPC, inventions can only be patented if they are new, are based on an inventive step, and are industrially applicable [10]. Novelty is determined in relation to the "state of the art", which comprises everything that is known to the public by written or oral publication, use or any other way, in any country in the world, before the priority date of the invention. Earlier filed patent applications, even if they are not yet published, are also taken into account for novelty purposes. The novelty requirement makes sure that nothing is patented which is already in the public domain and freely accessible.

A so-called "inventive step" is present if the invention is non-obvious to "the person skilled in the art", i.e. to a person familiar with the technical field which is a competent worker but lacks imagination or inventive capability. For chemical patents the person skilled in the art normally is an average qualified industrial chemist. For complex inventions such as in the field of biotechnology the person skilled in the art may be considered to be a team of qualified scientists from different branches of science. Whether or not a claim will be regarded by the examiner or the judge as involving an inventive step is sometimes difficult to predict, since to some extent judgment of what is obvious or non-obvious is a matter of subjective interpretation.

In considering obviousness, it is of no relevance how the invention was made, whether as a result of planned research, a flash of inspiration, or even pure chance. An invention may be simple without being obvious.

Producing a simple solution to what appears to be a complex problem is often highly inventive. With the benefit of hindsight an invention very often seems to be simple, derived from the prior art as a series of logical steps, but it does not necessarily follow that the invention was obvious at the time of filing the patent application. Further indication of non-obviousness of an invention may be commercial success, a solution to a long-time need, or success where many others failed. The inventive step requirement makes sure that simple and obvious modifications of prior art should remain free to use by everybody.

The third basic requirement of the EPC is that the invention should be susceptible of industrial application. Industrial application comprises making or using the invention in any kind of industry, including agriculture. According to the EPC, methods of medical treatment or diagnosis performed on the human or animal body are regarded as being incapable of industrial application and therefore not patentable. However, substances invented for use in such medical treatment and diagnosis may be patented. An old compound not previously known to have any medicinal property can be protected as a drug claiming "Substance X as a pharmaceutical". The invention that a known drug has a new and unrelated medicinal benefit can be protected by a claim of the type "Use of substance X in the manufacture of a medicament for the treatment of disease Y", commonly known as a "Swiss-type" claim because the Swiss patent office was the first to accept claims of this type. The reason for the exclusion of medical and surgical treatment from patenting is the understanding that doctors should be free to treat their patients without having to worry about whether they are infringing a patent.

The EPC makes further specific exceptions to patentability. For example, artistic works, aesthetic creations, scientific theories, mathematical methods, the presentation of information, business methods, and computer programs as such are all unpatentable. Discussions about the patentability of computer inventions are presently going on, and these inventions may be patentable if they do not relate to computer programs as such. Animal and plant varieties are also not patentable. Plant varieties

can be protected by plant breeders' rights. However, any invention relating to plants which is not restricted to a variety (and for that reason not protectable under plant breeders' rights) should be patentable, if new and non-obvious.

Further excluded from patentability are inventions the publication or exploitation of which would be contrary to "ordre public" or morality. This provision, designed to ensure that patents would not be granted for inventions such as improved letter bombs, has been seized upon by opponents to gene technology, in their attempts to prevent patenting of nucleic acids and living organisms. The European Communities recently approved the Directive on the Patenting of Biotechnological Inventions which more closely defines what should be regarded as contrary to ordre public and morality. The subject matter of the EU Directive is incorporated into the Implementing Regulations of the EPC [11]. It is now clear that processes for cloning human beings, processes for modifying the germ line genetic identity of human beings, uses of human embryos for industrial and commercial purposes, and processes for modifying the genetic identity of animals which are likely to cause them suffering without any substantial medical benefit to man or animal, and also animals resulting from such processes, are not patentable. On the other hand it is now clearly stated that biological material which is isolated from its natural environment or produced by means of a technical process is patentable (if new and non-obvious), even if it previously occurred in nature. However, discussions about patentability of biotechnological inventions are far from being settled, which is illustrated by the controversy about patenting of stem cell inventions and the fact that leading EU countries such as Germany and France have so far failed to implement the EU Directive on the Patenting of Biotechnological Inventions.

Patent laws of many non-European countries contain similar patentability requirements and exclusions from patentability as the EPC. Some countries offer a "grace period" for publications of the inventors. This means that a publication of the inventor(s) or derived from the inventor(s) will not be regarded as prior art, if the first filing date or the filing date in that particular country is not later than a specified period of months, usually 6 or 12 months, after

the first publication date. An inventor publishing his invention in a scientific journal or presenting the subject matter at a public seminar still can file a patent application in these countries. It must, however, be taken into account that under the EPC no valid patent can be granted for European countries if the first filing date is after the publication date!

## Patents in the US

Whereas the rest of the world uses the "first-to file" system, in which the date of the first patent filing (the priority date) is important, the USA adheres to the "first-to-invent" system [12]. Here the critical date is the date of invention, and if two inventors independently make the same invention, the patent goes to the one who can prove the earlier invention date in a complex process called "interference". Accordingly, for a US patent, prior art is what was known before the invention date, rather than before the filing date, but with the proviso that if there has been a publication of the invention, the US patent must be applied for within 12 months of the publication date, corresponding to the so-called "grace period" explained above. Furthermore the law in the US does not take into account if an invention is used outside the United States at any time before filing a patent application in the US. Printed publications from anywhere in the world, however, are invalidating a patent as in other constituencies. US law requires that the invention should be "useful", which to some extent corresponds to the industrial applicability requirement under the EPC, but represents a higher hurdle for patentability. In the US, unlike under the EPC, methods of medical and surgical treatment, business methods, and computer programs are patentable.

## Trademarks

A trademark is used to identify a product or service and to indicate the source. It serves to differentiate a product or service of one company from same or similar products or services of other companies. Trademarks allow consumers to select products and services from companies they know and trust. Trademarks are exclusive rights granted by the state and limited to the territory of that

state. Again it is not possible to have one registration for a trademark for the whole world, but through registration in each country, or group of countries such as the European Union. The term of a trademark right is generally ten years and renewable indefinitely.

Trademarks are usually words (brands, names), combinations of letters and/or numerals, but they can also be signs, symbols, and even colours, shapes, smells and sounds. When registering, classes of application (groups of goods or services) have to be designated for which a registration is sought.

There is no “novelty requirement”, but a trademark is registered in the name of an applicant only if there are no conflicting older trademark rights, i.e. trademarks that are identical or confusingly similar and registered by others before the registration date, or in use by others and widely accepted, or famous trademarks. Trademarks are examined with respect to whether they do not monopolize words of general usage and whether they do not conflict (being identical or confusingly similar) with earlier trademarks.

The Paris Convention and the TRIPs Agreement mentioned above also apply to trademarks. The Paris Convention provides that a priority of a trademark registration in one country is accepted in all other countries within 6 months. The Trademark Law Treaty [13] harmonizes formal aspects of trademark applications and trademark registration. The Madrid Agreement concerning the International Registration of Marks and its Protocol allow a simplified registration procedure in Madrid Union member states based on registration in the home country [14]. The Nice Agreement concerns the International Classification of Goods and Services for the purpose of registration of trademarks [15].

Domain names are to some extent related to trademarks. For domain names, however, a first come first served principle applies, and they cannot be used to exclude others from using the name. Conflicts between trademark owners and domain name owners can often be solved by an efficient arbitration system offered by WIPO, but sometimes regular courts have to decide.

## Know-how

Know-how can also be regarded as a special form of intellectual property. To keep know-how secret may be important to retain or gain an advantage vis-à-vis a competitor not disposing over similar knowledge. However, if the secret know-how is (intentionally or accidentally) made public or independently developed by somebody else, all the advantage of secret know-how is lost. For this reason a know-how owner should always make a learned decision whether to keep the know-how secret or to patent it. If it is patented, it cannot be kept secret, but the patent gives a right to exclude others from the use of the patented knowledge.

The TRIPs agreement discussed above also foresees that “undisclosed information” should be protected by law [16]. A special form of undisclosed information are clinical test data required by registration bodies as a condition for approving the marketing of pharmaceutical products. Such data shall be protected against disclosure, and steps taken to ensure that the data are protected against unfair commercial use. In practical terms this means that a competitor (e.g. a generic producer) is not allowed to make use of this information when trying to get marketing approval for a copy product, at least for a period of years. In Europe, registration exclusivity is 6 or 10 years depending on the country and the type of product, and 5 years in the US.

## Impact of patents and trademarks on the pharmaceutical industry

The rapid pace of modern developments is accentuating the significance of the drug trademark. In technical terms, the trademark of a respected company stands for quality. The drug trademark conveys to the authorities, doctors, pharmacists and patients a guarantee of safety and therapeutic efficacy for the whole product, and not just for the active substance, as is the case with generics. In commercial terms, it is useful for all parties – above all, patients – to sell a drug under a trade name, rather than using complicated chemical or generic denominations. With an easily memorized trademark and the associated guarantee of quality, the pharmaceutical

manufacturer is invoking the reputation of the company as a whole. Of course, defects must be avoided at all costs, to prevent fatal damage to the company's reputation. In economic terms, the trademark carries a high value-adding potential in the pharmaceutical market [17].

Strong worldwide patent protection is essential to support innovation in the pharmaceutical industry. The great majority of medicines would not have been developed or commercially introduced if patent protection had not been available. The huge cost of research and development for a new chemical entity or for a new indication of an existing pharmaceutical, and the relative ease of copying a medicinal product provide an explanation for the importance of patent protection for major pharmaceutical companies. For drugs introduced in the nineties of the last century, it is estimated that R&D costs are approximately USD 500 million per drug put on the market. And these figures are even higher today. On the other hand costs for demonstrating bio-equivalence of a generic copy of a medicinal product is approximately USD 1 million [18].

Yet, the relevance of strong intellectual property protection goes far beyond major multinational pharmaceutical corporations. Guaranteeing the protection of intellectual property in research using the modern tools of molecular biology is essential for many start-up biotech companies to survive. Many of these firms do not yet have products for sale, and for them it is essential to protect their intellectual

property as the only real capital they have.

In the context of the controversy surrounding the international trade debate, there are a lot of myths surrounding the issue of patents. A first such myth is that patents create monopolies. In reality, patents offer protection only for a limited time. Due to the time required for market introduction, the actual exclusivity is limited to eight to ten years, in spite of a patent term of 20 years. In countries with patent term extension the exclusivity may last up to five years more. Furthermore, most new medicines protected by patents compete with similar products, both protected and off-patent. Competition is fierce in almost all therapeutic areas, and even new chemical entities which introduce a novel therapeutic concept are followed by competitor products within a short time period. A second myth is that patents are a significant factor in escalating health care costs. This argument ignores the fact that there is a clear and established link between patent protection and the rate of innovation, but no such link between the strength of intellectual property protection and price levels. Innovation has an impact on health care cost: Many pharmaceuticals shorten treatment and hospitalisation time and costs. On the other hand they improve treatment, prolong life, and thereby cause costs which we all think are justified by the results obtained.

Patents are a main driver for future pharmaceutical innovation which will help alleviation, early detection and prevention, and cure of disease.

- [1] A more comprehensive discussion of Intellectual Property for non-specialists may be found in *Chimia* 2000, 54, No. 5 (pages 272 –324)
- [2] See P.W. Grubb, *Chimia* 2000, 54, 274-277; P.W. Grubb, "Patents for Chemicals, Pharmaceuticals and Biotechnology", 3<sup>rd</sup> edition, Oxford University Press 1999, 4<sup>th</sup> edition expected in 2004.
- [3] <http://www.wipo.int/treaties/en/ip/paris/index.html>
- [4] <http://www.wipo.int/pct/en/index.html>
- [5] [http://www.wto.org/english/docs\\_e/legal\\_e/27-trips.doc](http://www.wto.org/english/docs_e/legal_e/27-trips.doc) or .pdf, see also [http://www.wto.org/english/docs\\_e/legal\\_e/legal\\_e.htm](http://www.wto.org/english/docs_e/legal_e/legal_e.htm)
- [6] [http://www.wto.org/english/tratop\\_e/trips\\_e/t\\_news\\_e.htm](http://www.wto.org/english/tratop_e/trips_e/t_news_e.htm)
- [7] <http://www.wipo.int/treaties/en/ip/plt/index.html>
- [8] <http://www.european-patent-office.org/legal/epc/index.html>
- [9] <http://www.european-patent-office.org/epo/members.htm>
- [10] Articles 52 to 57 EPC
- [11] Rules 23b to 23e EPC
- [12] <http://www.uspto.gov/web/patents/legis.htm>, see in particular 35 USC § 100 to 103
- [13] <http://www.wipo.int/treaties/en/ip/tlt/index.html>
- [14] [http://www.wipo.int/madrid/en/legal\\_texts/index.html](http://www.wipo.int/madrid/en/legal_texts/index.html)
- [15] <http://www.wipo.int/treaties/en/classification/nice/index.html>
- [16] Article 39 TRIPS
- [17] W. Haring, *Chimia* 2000, 54, 290-292
- [18] T.B. Cueni, *Chimia* 2000, 54, 318-320



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|   | Intellectual Property/Patent Issues                               |

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Tel: +44 (0) 1435 873062 Fax: +44 (0) 1435 872734 Email: [sciup@scientificupdate.co.uk](mailto:sciup@scientificupdate.co.uk)







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**Name** Austrian Chemical Society, Medicinal Chemistry Section

**Mission** To foster medicinal chemistry in Austria by jointly organizing and hosting national and international summerschools, minisymposia and workshops together with the Austrian Pharmaceutical Society.

**Founded** 1999

**Members** 100

**Members Profile**

Trade and Industry:	27%
Research Institute and University:	46%
Others:	27%

**Activities** Neue Werkstoffe – Neue Wirkstoffe, mini-symposium during the 10<sup>th</sup> Chemietage, September 2002, Innsbruck.  
Summer School for Drug Design, September 2003, Vienna.  
Joint Meeting on Medicinal Chemistry, Krakow 15-18 October 2003.

**Address**

Postal:	Nibelungengasse 11/6, AT-1010 Vienna
Telephone:	+43 1 587 42 49 or +43 1 587 39 80
Fax:	+43 1 587 89 66
Internet:	<a href="http://www.goech.at">http://www.goech.at</a>
Email:	<a href="mailto:office@GOECH.at">office@GOECH.at</a>

**President** O.Univ. Prof. Dr. Ulrich Schubert  
**Section head** Dr. Peter Ettmayer  
**Secretary** Gabriela Ebner

**EFMC-Delegate**

Name:	Dr. Peter Ettmayer
Address:	Novartis Forschungsinstitut GmbH, Brunner Strasse 59, AT-1235 Vienna
Email:	<a href="mailto:peter.ettmayer@pharma.novartis.com">peter.ettmayer@pharma.novartis.com</a>

**Medicinal and Bioorganic Chemistry Division of Royal  
Flemish Chemical Society (KVCV)****Name**2002  
120**Founded  
Members**

Organisation of symposia and activities.  
Promotion of contacts between industry and academia.

Promotion of contacts with other national  
and international organisations.

Every 2 years the "Dr. Paul Janssen Price of Medicinal Chemistry"  
is awarded to an outstanding Ph.D. thesis in the field.

**Activities**

Postal:

KVCV Secretariaat  
Celestijnenlaan 200F  
3001 Herverlee

**Address**

Tel:

+32 16 29 32 14

Fax:

+32 16 22 68 92

Email:

[info@kvcv.be](mailto:info@kvcv.be)

Internet:

[http:// www.kvcv.be](http://www.kvcv.be)

Prof. Koen Augustyns  
Prof. Serge Van Calenbergh  
Dr. Peter Ten Holte

**President  
Treasurer  
Secretary**

Prof Koen Augustyns  
University of Antwerp Campus Drie Eiken  
Laboratory of Medicinal Chemistry

**EFMC-Delegate**

Universiteitsplein 1

B-2610 Antwerpen

Tel:

+32 3 820 27 03

Fax:

+32 3 820 27 39

Email:

[koen.augustyns@ua.ac.be](mailto:koen.augustyns@ua.ac.be)

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**Société Royale de Chimie (SRC), Medicinal Chemistry Division****Name**

The Division of Medicinal Chemistry of the SRC provides a forum for scientists interested in medicinal chemistry and related areas in pharmaceutical research. The Division's activities intend to bring together its members and to foster contacts in a European context.

**Mission**

1973

**Founded**

179

**Members**

The DMC organises annually a Symposium aimed at updating interested participants on particularly rapidly evolving areas of pharmaceutical research, by specialists in their respective field. The DMC confers, every 2 years, the "Paul Janssen Price" to acknowledge an outstanding Ph.D. thesis work.

**Activities**

Postal (SRC):

ULB, CP 160/07, Av. F. D. Roosevelt 50

**Address**

BE-1050 Bruxelles

Tel:

+32 2 650 52 08

Fax:

+32 2 650 51 84

Internet:

<http://www.src.be>

Email:

[src@ulb.ac.be](mailto:src@ulb.ac.be)

Dr. Edmond Differding

**President**

Name:

Dr. Benoît Kenda

Address:

UCB Pharma, R &amp; D

Chemin du Foriest

BE-1420 Braine-l'Alleud

Tel:

+32 2 386 24 15

Fax:

+32 2 386 36 69

Email:

[benoit.kenda@ucb-group.com](mailto:benoit.kenda@ucb-group.com)**EFMC-Delegate**





**Name** Division of Organic, Bioorganic and Pharmaceutical Chemistry of the Czech Chemical Society

**Mission** The Division represents chemists of a wide range of professional interest in organic chemistry and related fields and organizes meetings and lectures in Czech Republic.

**Founded** 1993 by reorganization from Division of Organic and Pharmaceutical Chemistry and Prague Division of Czech Chemical Society and organizers of microsymposia "Bio-organic Days".

**Members**  
**Members Profile**

723 of which 10 are members of the medicinal chemistry section  
Trade and Industry: 20%  
Research Institutes and Universities: 70%  
Other: 10%

**Activities**

Organization of annual national symposium "Advances in Organic, Bioorganic and Pharmaceutical Chemistry".  
Organization of annual microsymposium "Cukrblik" on Carbohydrate Chemistry.  
Organization of annual series of lectures "Publikum".  
Providing informations for Czech organic, bioorganic and pharmaceutical Chemists, webpage: <http://uoch.vscht.cz/orbifachos/>  
Cooperation in organization of Alfred Bader Prize competition for young Czech organic and bioorganic chemists

**Address**

Postal: Assoc. Prof. Jaroslav Kvicala  
Department of Organic Chemistry  
Institute of Chemical Technology in Prague,  
Technická 5  
CZ-16628 Prague 6

Telephone: +420 224 35 4242  
Fax: +420 224 35 4288  
Email: [Jaroslav.Kvicala@vscht.cz](mailto:Jaroslav.Kvicala@vscht.cz)

**President**  
**Secretary**

Assoc. Prof. Jaroslav Kvicala  
Dr. Irena Valterova

**EFMC-Delegate**

Name: Assoc. Prof. Věra Klimešová  
Address: Faculty of Pharmacy Charles University  
Heyrovského 1203  
CZ-500 05 Hradec Králové  
Email: [klimeso@faf.cuni.cz](mailto:klimeso@faf.cuni.cz)

**The Danish Society for Pharmacology and Toxicology****Name**

To advance the development of pharmacology, toxicology and medicinal chemistry.

**Mission**

338 members of which 86 are members of the medicinal chemistry section.

**Members**

Trade and Industry: 50%  
Research Institute and University: 50%

**Members Profile**

5-10 yearly seminars on current topics in pharmacology, toxicology and medicinal chemistry  
19 January 2005: Danish Pharmacology 2005, University of Southern Denmark, Odense.

**Activities**

Postal: Att. Assoc. Prof. Søren K. Kjærgaard  
Institut for Miljø- og Arbejdsmedicin,  
Aarhus Universitet  
Vennelyst Bld. 6  
DK-6000 Århus C  
Telephone: +45 89 42 61 74  
Fax: +45 89 42 61 99  
Internet: <http://www.dsft.dk>  
Email: [skk@mil.au.dk](mailto:skk@mil.au.dk)

**Address**

Prof. Dr. Michael J. Mulvany  
Assoc. Prof. Dr. Søren K. Kjærgaard

**President  
Secretary**

Name: Prof. Dr. Hans Bräuner-Osborne  
Address: Department of Medicinal Chemistry  
The Danish University of Pharmaceutical Sciences  
Universitetsparken 2  
DK-2100 Copenhagen Ø  
Email: [hbo@molpharm.net](mailto:hbo@molpharm.net)  
Telephone: +45 3530 65 18

**EFMC-Delegate**



## Name **Société de Chimie Thérapeutique**

### Mission

To gather medicinal chemists in order to promote progress in Medicinal Chemistry by organizing meetings, distributing awards and grants, encouraging junior scientists and publishing medicinal chemistry journals or series.

### Founded Members

1966  
302

### Members Profile

Trade and Industry:	17%
Research Institute:	8%
University:	70%
Other:	5%

### Activities

Meetings and conferences:  
Annual Meeting: Rencontres internationales de Chimie Thérapeutique (Next meeting: Paris, July 5-8, 2005).  
Nouvelles stratégies de recherches en chimie thérapeutique, Paris, Dec. 9, 2004.  
Conferences organised with Société française de Chimie and Académie Nationale de Pharmacie, Paris, March 2005.  
Junior scientists meeting, Paris, January 2005.  
General Assembly, Paris, December 9, 2004.  
Parma Sci Fair, Theme Anticancer agents, Nice, June 17, 2005.  
Awards:  
Every two-year: \*Prix Charles Mentzer, rewarding a fruitful career in Medicinal Chemistry.  
Every year: \*Prix d'encouragement à la recherche en Chimie Thérapeutique, for junior scientists.  
Paul Ehrlich Lecture, attributed every year during the annual meeting.  
Prix de la vocation en Chimie Thérapeutique, attributed to students during the annual meeting.  
Publishing activities:  
Scientific editing of The European Journal of Medicinal Chemistry, Elsevier, 1 issue per month (2004 Volume 39).  
Actualités de Chimie Thérapeutique, 1 volume per year (2004 n° 30).

### Address

Postal: 5, rue Jean-Baptiste Clément  
FR-92296 Chatenay-Malabry cedex  
Telephone: +33 1 46 83 56 84 - Fax: +33 1 46 83 53 23  
Internet: <http://www.sct.asso.fr>  
Email: [Joelle.Mayrargue@cep.psud.fr](mailto:Joelle.Mayrargue@cep.psud.fr)

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Dr. Pierre Roger  
Prof. Michel Koch  
Prof. Joëlle Mayrargue  
Name: Prof. Olivier Lafont  
Address: Faculté de Médecine et de Pharmacie,  
22, boulevard Gambetta ,FR-76183, Rouen cedex 1  
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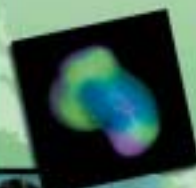
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## Division of Medicinal Chemistry of the German Chemical Society

(GDCh)

### Name

### Mission

To foster the whole area of Medicinal Chemistry in University and Pharmaceutical Industry. The Division builds an interdisciplinary bridge between Chemistry, Biology, Medicine and Pharmacy.

### Founded

### Members

### Members Profile

1971 at Karlsruhe, Germany

700

Trade and Industry:

60%

Research Institute and University:

35%

Other:

5%

Annual meetings, interdisciplinary symposia,  
scientific publications, award.

### Activities

### Address

Postal:

Varrentrappstr. 40-42

D-60486 Frankfurt am Main

Telephone:

+49 69 7917 363

Fax:

+49 69 7917 450

Internet:

[www.medchem.de](http://www.medchem.de)

Email:

[U.Bechler@gdch.de](mailto:U.Bechler@gdch.de)

Dr. Ulrich Stilz

### President

### EFMC-Delegate

Name:

Prof. Dr. Gerd Schnorrenberg

Address:

Boehringer Ingelheim Pharma GmbH & Co. KG

Chemische Forschung

Birkendorfer Strasse 65

D-88397 Biberach an der Riss

Telephone:

+49 7351 54 20 26

Fax:

+49 7351 54 51 37

Email:

[gerd.schnorrenberg@bc.boehringer-ingelheim.com](mailto:gerd.schnorrenberg@bc.boehringer-ingelheim.com)



<b>Name</b>	<b>Hellenic Society of Medicinal Chemistry</b>
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<b>Mission</b>	Advancement of research in Medicinal Chemistry and Drug Design, promotion of cooperation between scientists of related fields and consulting on relevant subjects.
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<b>Founded</b>	1980
<b>Members</b>	107

<b>Members Profile</b>	Trade and Industry: 20%
	Research Institute: 30%
	University: 40%
	Other: 10%

<b>Activities</b>	Symposia, seminars, consulting.
-------------------	---------------------------------

<b>Address</b>	Postal: Koryzi 6, Athens GR-117 43
	Internet: <a href="http://amorgos.pharm.auth.gr/HelSocMedChem/home.html">http://amorgos.pharm.auth.gr/HelSocMedChem/home.html</a>

<b>President</b>	Assoc. Prof. Dr. Anna Tsantili-Kakoulidou
<b>Vice-President</b>	Assoc. Prof. Dr. Emmanuel Mikros
<b>Secretary</b>	Ass. Prof. Dr. Sotiris Nikolaropoulos

<b>EFMC-Delegate</b>	Name: Prof. Dr. Panos. N. Kourounakis,
	Address: Dept. of Pharmaceutical Chemistry, School of Pharmacy, Univ. of Thessaloniki, Thessaloniki GR-54121
	Telephone: +30 2310 997 621
	Fax: +30 2310 997 622
	Email: <a href="mailto:panoskur@pharm.auth.gr">panoskur@pharm.auth.gr</a>

## Organic and Medicinal Chemistry Division (OMCD) of the Hungarian Chemical Society (HCS)

### Name

The dissemination of results and particularly of new trends in organic and medicinal chemistry among Hungarian scientists.

### Mission

1907 (HCS)  
300 (Medicinal Chemistry oriented members of the OMCD)

### Founded Members

Trade and Industry:	40%
Research Institute:	20%
University:	30%
Others:	10%

### Members Profile

Regular organisation of conferences,  
seminars and lectures in various fields of medicinal chemistry.  
Encouragement and initiating the development of  
new generations of scientists working in this field.  
Bimonthly seminars by invited scientists  
in the field of medicinal chemistry.

### Activities

Postal (HCS Headquarters):	HU-1027 Budapest, Főu. 68.
Telephone:	+36 1 201 6883
Fax:	+36 1 201 8056
Internet:	<a href="http://www.mke.mtesz.hu">www.mke.mtesz.hu</a>
Email:	<a href="mailto:mail.mke@mtesz.hu">mail.mke@mtesz.hu</a>

### Address

Prof. Dr. Péter Mátyus  
Dr. János Wölfling

### President OMCD Secretary

Name:	Prof. Dr. Péter Mátyus
Address:	Department of Organic Chemistry Semmelweis University, Budapest Hógyes E.u. 7. HU-1092 Budapest
Tel:	+36 1 2170851
Fax:	+36 1 2170851
Email:	<a href="mailto:matypet@szerves.sote.hu">matypet@szerves.sote.hu</a>
Internet:	<a href="http://clauder.sote.hu">http://clauder.sote.hu</a>

### EFMC-Delegate



<b>Name</b>		<b>Israel Association for Medicinal Chemistry</b>	
<b>Mission</b>	To organize and to foster the interaction between medicinal chemists in academia, industry and drug dispensing institutions, in an independent Association devoted to education, research and development of Medicinal Chemistry through meetings and workshops, and to represent the Association at the national level, at the EFMC, and at related international levels. IAMC is open for membership to molecular biologists, pharmacologists and pharmacists.		
<b>Founded</b>	1991		
<b>Members</b>	52		
<b>Members Profile</b>	Trade and Industry:	55%	
	Research Institute and University:	40%	
	Other:	5%	
<b>Activities</b>	The Association holds symposia and annual scientific meetings. Promotion of one-day symposia on new vistas in drug research and a workshop on progress in instrumental drug analysis, and representation of the Association at the EFMC and related international bodies. The past annual meeting was held at Kfar Hamaccabiah, Ramat Gan, in March 2003. It was highly successful and lectures were delivered in selected topics such as "Molecular diagnosis of Prion diseases", "Computational Drug Design", Synthetic drug candidates", Animal models for drug development", "Cell therapy" and "Anticancer drugs".		
<b>Planned activities</b>	November 2004 - workshop on Medicinal chemistry of phosphorus March 2005 - Annual Association meeting May 2005 - workshop on Patents in Med. Chem.		
<b>Address</b>	Postal:	Department of Medicinal Chemistry and Natural Products School of Pharmacy – Faculty of Medicine Hebrew University of Jerusalem PO Box 12065 Jerusalem IL-91120	
	Telephone:	+972 2675 75 73	
	Fax:	+972 2675 89 59	
	Email:	<a href="mailto:adomb@md.huji.ac.il">adomb@md.huji.ac.il</a>	
<b>President Secretary</b>	Prof. Abraham J. Domb Dr. Jeffrey Sterling		
<b>EFMC-Delegate</b>	Name:	Prof. Abraham J. Domb	
	Address:	Hebrew University of Jerusalem PO Box 12065, Jerusalem IL-91120	
	Email:	<a href="mailto:adomb@md.huji.ac.il">adomb@md.huji.ac.il</a>	



## Section for Medicinal Chemistry, Israel Chemical Society

### Name

As a Section of the Israel Chemical Society (ICS), its missions are to recruit medicinal chemists and pharmaceutical chemists living in Israel and interested foreign residents, to enhance the science of Medicinal Chemistry, to represent its members in organizations at the national and international levels, including EFMC, to cultivate the teaching of Medicinal Chemistry, to initiate, organize and sponsor scientific meetings.

### Mission

Trade and Industry:  
Research Institute:  
University:  
Other:

1978  
50

50%  
10%  
30%  
10%

### Founded Members

### Members Profile

The past annual meeting of the ICS-Section on Medicinal Chemistry was held at the Convention Center, Dan Panorama Hotel, Tel Aviv, in February 2003, attracting a great audience, and lectures were delivered in selected topics such as "Molecular Recognition – The basis for Drug Design", "Discovery of peptido- and proteino-mimetic drug leads using cyclic peptide spatial libraries", "Finding many needs in the haystack of chemistry" and "Peptide pharmaceuticals and the trends in the pharmaceutical market".

### Activities

Postal:

Department of Chemistry  
Ben-Gurion University of the Negev  
P.O. Box 653, Beer-sheva IL-84105

Telephone:

+972 8 646 11 96

Fax:

+972 8 667 29 43

Internet :

<http://www.technion.ac.il/technion/chemistry/ICS>  
<http://www.weizmann.ac.il/ICS>

Email:

[ashani@bgumail.bgu.ac.il](mailto:ashani@bgumail.bgu.ac.il)

### Address

Prof. Shammai Speiser  
Prof. Dr. Haim Cohen

### President Secretary

Name:

Prof. Dr. Israel Agranat,

Address:

Department of Organic Chemistry  
The Hebrew University of Jerusalem  
Philadelphia Building 201

### EFMC-Delegate

Jerusalem IL-91904

Telephone:

+ 972 2 658 52 21

Fax:

+ 972 2 651 19 07

Email:

[isria@vms.huji.ac.il](mailto:isria@vms.huji.ac.il)



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**BÜCHI**  
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**Name** **Division of Medicinal Chemistry  
of the Italian Chemical Society (Società Chimica Italiana)**

**Mission** The Division of Medicinal Chemistry is a section of the Italian Chemical Society (a non-profit association with about 6,000 adhering members), which has the aim to diffuse the knowledge of chemistry and medicinal chemistry in particular.

**Members** 644

**Members Profile**

Trade and Industry:	13%
Research Institute:	0,5%
University:	86%
Other:	0,5%

**Activities**

Promotion and stimulation of the development of research and training in medicinal chemistry. Organisation of national and international symposia and meetings. Organisation of advanced schools in medicinal chemistry, analytical chemistry and organic synthesis in medicinal chemistry.

**Address**

**Postal:** Divisione di Chimica Farmaceutica (S.C.I.)  
c/o Dipartimento di Scienze Farmaceutiche  
Università degli Studi di Catania  
Viale A. Doria, 6 – Città Universitaria  
IT-95125 Catania

**Email:** [giuseppe.ronsisvalle@unict.it](mailto:giuseppe.ronsisvalle@unict.it)

**President**  
**Vice-President**  
**Secretary**

Prof. Dr. Giuseppe Ronsisvalle  
Prof. Dr. Alba Chimirri  
Prof. Dr. Antonello Mai

**EFMC-Delegate**

**Name:** Prof. Dr. Giuseppe Ronsisvalle  
**Address:** Dipartimento di Scienze Farmaceutiche  
Università degli Studi di Catania  
Viale A.Doria, 6 - Città Universitaria  
IT-95125 Catania

**Email:** [giuseppe.ronsisvalle@unict.it](mailto:giuseppe.ronsisvalle@unict.it)

**Latvian Association for Medicinal Chemistry**

**Name**

Promotion of medicinal chemistry

**Mission**

1992

**Founded**

12

**Members**

Research Institute and University:

83%

**Members Profile**

Other:

17%

Promotion of medicinal chemistry

**Activities**

Postal:

Latvian University,  
Institute of Microbiology and Biotechnology  
4-402 Kronvalda Boulevard

**Address**

LV-1586 Riga

Telephone:

+371 7034890

Fax:

+371 7323065

Email:

vina@lanet.lv

Dr. Ilmara Vina

**President**

Name:

Prof. Dr. Gunars Duburs

**EFMC-Delegate**

Address:

Latvian Institut of Organic Synthesis  
21 Aizkraukles street

LV-1006 Riga

Telephone:

+371 7551232

Fax:

+371 7550338

Email:

[gduburs@osi.lv](mailto:gduburs@osi.lv)

## Mission

Basis for mutual contacts and integration for scientists who represent different profile of their activity in the following areas: organic and bioorganic synthesis, analytical chemistry, computational chemistry, biochemistry, molecular biology, biotechnology, pharmacy and medicine.

## Founded Members

1975  
100

## Activities

Organization of bimonthly as well occasional gatherings where various theoretical and practical topics of drug research and development are discussed.

Organization of experts groups in the field of medicinal chemistry and drug development.

Participation in organization of national and international conferences on medicinal chemistry.

Organization of the Medicinal Chemistry Section during yearly meetings of the Polish Chemical Society.

## Address

Postal: Technical University  
Institute of General and Ecological Chemistry  
Żeromskiego 116  
90-024 Łódź  
Poland

Telephone: +48 42 631 31 22

Fax: +48 42 631 31 28

Email: [jkarolak@mail.p.lodz.pl](mailto:jkarolak@mail.p.lodz.pl)

President  
Vice-President

Prof. Janina Karolak-Wojciechowska  
Ass. Prof. Dariusz Matosiuk  
Email: [darek@eskulap.am.lublin.pl](mailto:darek@eskulap.am.lublin.pl)

## EFMC-Delegate

Name: Prof. Katarzyna Kieć-Kononowicz  
Address: Jagiellonian University, Medical College  
Department of Chemical Technology of Drugs  
Medyczna 9  
30 688 Kraków  
Email: [mfkonono@cyf-kr.edu.pl](mailto:mfkonono@cyf-kr.edu.pl)



**The D.I. Mendeleev Russian Chemical Society,  
Medicinal Chemistry Section****Name**

Education in medicinal chemistry.  
Organisation of regular scientific seminars.

**Mission**

2000  
150

**Founded  
Members**

Research Institute: 67%  
University: 26%  
Other: 7%

**Members Profile**

Organising regular and specific seminars in medicinal chemistry.  
Assisting in the organisation of regular courses for undergraduate students of Moscow State University in medicinal chemistry.  
Providing interaction between Russian academician research in the field of medicinal chemistry and industrial institutions.

**Activities**

Postal: Attention Prof. Dr. Zefirov N.  
Chem. Department, Organic Chair  
Moscow State University  
RU-119899, Moscow  
Telephone: + 7 095 939 1620  
Fax: + 7 095 135 5228

**Address**

Prof. Dr. Nikolai S. Zefirov  
Prof. Dr. Sergey O. Bachurin

**President  
Vice-President**

Prof. Dr. Alexey N. Zefirov

**Secretary**

Name: Prof. Dr. Nikolai S. Zefirov  
Address: Chem. Department, Organic Chair  
Moscow State University  
RU-119899 Moscow  
Email: [zefirov@org.chem.msu.ru](mailto:zefirov@org.chem.msu.ru)

**EFMC-Delegate**



**Name**      **Section for Medicinal Chemistry of the Slovenian Pharmaceutical Society**

**Mission**      The mission of the Section for Medicinal Chemistry of the Slovenian society is the advancement and promotion of medicinal chemistry in Slovenia and Europe. It will pursue its mission by organizing scientific meetings, schools and working-group in order to encourage discussions and exchange of ideas in the field of medicinal chemistry. This section will cooperate with similar associations in the country and abroad.

**Founded**      23 February 2004  
**Members**      21

**Members Profile**

Trade and Industry:	20 %
Research Institute:	15 %
University:	60 %
Others:	5 %

**Address**

Postal:	University of Ljubljana, Faculty of Pharmacy Aškerčeva 7, SI- 1000 Ljubljana, Slovenia
Telephone:	+386 1 4769561
Fax:	+386 1 4258031
E-mail:	<a href="mailto:daniel.kikelj@ffa.uni-lj.si">daniel.kikelj@ffa.uni-lj.si</a>
Internet:	<a href="http://www.farmacevtsko-drustvo.si">www.farmacevtsko-drustvo.si</a>

**President**

Dr. Lucija Peterlin Mašič

**EFMC-Delegate**

Name:	Prof Danijel Kikelj
Address:	University of Ljubljana, Faculty of Pharmacy Aškerčeva 7, 1000 Ljubljana, Slovenia
Telephone:	+386 1 4769561
Fax:	+386 1 4258031
E-mail:	<a href="mailto:daniel.kikelj@ffa.uni-lj.si">daniel.kikelj@ffa.uni-lj.si</a>

**Sociedad Española de Química Terapéutica****Name**

To assist in the development and improvement of research and training in the different areas of Medicinal Chemistry throughout Spain.

**Mission**

1977  
300

**Founded  
Members**

Trade and Industry: 25%  
Research Institute: 30%  
University: 35%  
Other: 10%

**Members Profile**

Supporting the participation of young researchers at meetings and other educational events.

**Activities**

Organising symposia on topics related with research and education towards the discovery of new drugs. Sponsoring the Spanish Society of Medicinal Chemistry Award.

Administrating five Awards addressed to young scientists to acknowledge outstanding research in the field of Medicinal Chemistry.

Postal: SEQT  
Juan de la Cierva, 3  
ES-28006-Madrid  
Telephone: +34 91 56 22 900  
Fax: +34 91 56 44 853  
Email: [seqt@iqm.csic.es](mailto:seqt@iqm.csic.es)  
Internet: <http://www.seqt.org>

**Address**

Dr. M<sup>a</sup> José Camarasa Rius  
Dr. Jordi Quintana and Dr. Felipe Alcudia  
Dr. Rosario González-Muñiz

**President  
Vice-President  
Secretary**

Name: Dr. Isabel Fernández  
Address: Arte n° 25, 4A  
ES-28033 Madrid  
Email: [isabelfer55@hotmail.com](mailto:isabelfer55@hotmail.com)

**EFMC-Delegate**

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PROUS SCIENCE



## Swedish Pharmaceutical Society, Section for Medicinal Chemistry

### Name

To strengthen the Medicinal Chemistry Discipline through the arrangement of conferences, seminars and other educational initiatives

### Mission

1972  
310

### Founded Members

Trade and Industry: 70%  
Research Institute: 1%  
University: 19%  
Other: 10%

### Members Profile

Anglo-Swedish Medicinal Chemistry Symposium  
Åre, March 2003, Medicinal Chemistry  
Scheelesymposium  
Stockholm, November 27<sup>th</sup> 2003, Combinatorial Chemistry  
Techniques in Medicinal Chemistry  
Success Stories in Medicinal Chemistry  
Stockholm, September 27<sup>th</sup> 2004

### Activities

Postal: Wallingatan 26A, SE-Stockholm  
Telephone: +46 8 723 50 00  
Fax: +46 8 20 55 11  
Internet: <http://www.swepharm.se>  
Email: [marit.johansson@swepharm.se](mailto:marit.johansson@swepharm.se)

### Address

Dr. Anders Karlén  
Dr. Rolf Johansson  
Dr. Kostas Karabelas

### President Vice-President Secretary

Name: Dr. Anders Karlén  
Address: Uppsala University,  
Dept. Organic Pharmaceutical Chemistry, Box 574  
SE-751 23 Uppsala  
Email: [anders.karlen@orgfarm.uu.se](mailto:anders.karlen@orgfarm.uu.se)

### EFMC-Delegate



**Name** **Division for Medicinal Chemistry (DMC),  
Swiss Chemical Society (SCS)**

**Mission** The DMC provides a forum for scientists interested in medicinal chemistry and related fields by organising symposia, seminars, presentations and courses.

**Founded** 1990  
**Members** 575

**Members Profile**

Trade and Industry:	78%
Research Institute:	3%
University:	11%
Other:	8%

**Activities**

July 1-4, 2003: 2<sup>nd</sup> French-Swiss Meeting MC, Beaune  
 October 9, 2003: Fall Meeting of the SCS in Lausanne  
 May 13, 2004: Minisymposium on Research Concepts of Swiss Startup Companies, Basel  
 October 7, 2004: Fall Meeting of the SCS at the Univ. of Zurich  
 October 10-15, 2004: 6<sup>th</sup> Swiss Course on MC, Leysin  
 September 2005: Second Joint Italian – Swiss Meeting on Medicinal Chemistry, Modena

**Address**

Postal: Attention Dr. Wolfgang Froestl  
 Novartis Pharma WKL-136.5.25  
 CH-4002 Basel.

Telephone: +41 61 696 21 82  
 Fax: +41 61 696 86 76  
 Email: [wolfgang.froestl@pharma.novartis.com](mailto:wolfgang.froestl@pharma.novartis.com)  
 Internet: <http://www.swiss-chem-soc.ch/smc/>

**President** Dr. Wolfgang Froestl  
**Vice-President** Dr. Hans Peter Maerki  
**Secretary** Dr. Peter Mohr

**EFMC-Delegat**

Name: Dr. Peter Mohr  
 Address: F. Hoffmann La Roche  
 Bau 92 / 4.36  
 CH-4070 Basel  
 Switzerland  
 Telephone: +41 61 688 56 91  
 Fax : +41 61 688 86 16  
 Email: [peter.mohr@roche.com](mailto:peter.mohr@roche.com)



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2002 award winners:

Prof. Bernhard Breit, University of Freiburg  
Prof. Thomas Carell, Philipps University, Marburg

 **NOVARTIS**



**Name**      **Section of Pharmacochemistry,  
Royal Netherlands Chemical Society (KNCV)**

**Mission**

- to promote scientific research and education in the area of pharmacochemistry.
- to bring together scientists in the field and to offer them a platform for discussion and exchange of ideas.
- to identify talent in the field.
- to organize meetings in the field.

**Founded**      28<sup>th</sup> August 1970  
**Members**      450 (including student members)

**Members Profile**

Trade and Industry:	20%
Research Institute:	10%
University:	40%
Other:	30%

**Activities**

Organisation of one annual scientific meeting (1 day).  
Co-organisation of Dutch Medicine Days (FIGON) (2 days).  
Co-organisation of annual NWO platform meeting (1 day).  
Co-organisation of sessions at KNCV Winter/Summer Congress.  
Participation in KNCV, NWO, FIGON and EFMC platforms.  
Dutch Pharmacochemistry Award every 2 years for the best Dutch Ph.D. thesis in the field.

**Address**

Postal:	Dr. C.M. Timmers Organon International Department of Medicinal Chemistry, Room RK 3111 P.O. Box 20, 5340 BH Oss, The Netherlands
Telephone:	+31 412 662874
Fax:	+31 412 662546
Internet:	<a href="http://www.kncv.nl">www.kncv.nl</a>
Email:	<a href="mailto:Marco.timmers@organon.com">Marco.timmers@organon.com</a>

**President**      Prof. Dr. N.P.E. Vermeulen (Vrije Universiteit, Amsterdam)  
**Vice-President**      Dr. D. Dijkstra (Rijksuniversiteit Groningen)  
**Secretary**      Dr. C.M. Timmers (Organon International, Oss)

**EFMC-Delegate**

Name:	Dr. C.M. Timmers
Address:	Organon International Department of Medicinal Chemistry, Room RK 3111 P.O. Box 20, 5340 BH Oss, The Netherlands
Email:	<a href="mailto:Marco.timmers@organon.com">Marco.timmers@organon.com</a>



vrije Universiteit amsterdam

At the Vrije Universiteit the word " Pharmacochemistry " was invented and introduced in the 1960's. The department is now a partner of the Leiden Amsterdam Center for Drug Research (LACDR).

The LACDR took also the initiative for the European Consortium in Pharmaceutical Sciences (ULLA).

The department of pharmacochemistry offers masterprogrammes in different fields :

- drug design and synthesis
- computational medicinal chemistry and toxicology
- drug discovery and target finding
- drug disposition and safety
- biomolecular and drug analysis



#### Current fields of research

- G-protein coupled receptors
- ligands for histamine and chemokine receptors
- cytochrome P450 structures
- activities and affinities
- bioactivation mechanisms and biomarkers
- bio-analytical technologies

#### full professors :

Prof. dr. Hubertus Irth  
Prof. dr. Rob Leurs  
Prof. dr. Henk Timmerman  
Prof. dr. Nico Vermeulen



**Name** Turkish Association of Medicinal and Pharmaceutical Chemistry

**Mission** Establish communication and cooperation between the members.  
Establish policies in medicinal chemistry teaching and research in the country.  
Organize scientific meetings and conferences, get in touch with international related bodies.

**Founded** 1994  
**Members** 100

**Members Profile** Academics: 100%

**Activities** Organizing meetings and conferences.  
9-12 October 2004, International meeting (IMMPC-2) organised by the Association, Antalya.

**Address** Postal: Assoc. Prof. Dr. Serdar Unlu  
Gazi University  
Faculty of Pharmacy  
Hipodrom  
TR-06330 Ankara, Turkey  
Telephone: +90 312 2154468/1417  
Fax: +90 312 2235018  
Email: [sunlu@gazi.edu.tr](mailto:sunlu@gazi.edu.tr)  
Internet: [www.medchem.org](http://www.medchem.org)

**President** Prof. Dr. M. Fethi Sahin  
**Vice-President** Prof. Dr. Hakki Erdogan  
**Secretary** Prof. Dr. Serdar Unlu

**EFMC-Delegate** Name: Prof. Dr. M. Fethi Sahin  
Address: Gazi University  
Faculty of Pharmacy  
TR-06330 Ankara, Turkey  
Email: [mfsahin@gazi.edu.tr](mailto:mfsahin@gazi.edu.tr)

**The Biological and Medicinal Chemistry Sector (BMCS)  
of the Royal Society of Chemistry (RSC)**

**Name**

The BMCS aims to further the interests of all members of the RSC, both industrial and academic, involved in the pursuit and understanding of biologically active molecules. It also acts to promote public awareness of the crucial role played by chemistry in the modern industrial environment

**Mission**

1995 (Formerly Fine Chemicals & Medicinals Group)  
1129 in total; 600 of which are medicinal chemists

**Founded  
Members**

Predominantly industry

**Members Profile**

Major Meetings scheduled for 2004-2005:

14 October 2004: Ion Channels in 21<sup>st</sup> Century, Harlow, UK

13-16<sup>th</sup> March 2005: 2<sup>nd</sup> Åre Anglo-Swedish Medicinal Chemistry Meeting, Åre, Sweden

April 2005: 16<sup>th</sup> East of England Medicinal Chemistry Meeting, Hatfield, UK

9-10<sup>th</sup> May 2005: Protein Kinases; Signalling Success, London, UK

4-7<sup>th</sup> September 2005: 13<sup>th</sup> RSC-SCI Medicinal Chemistry Symposium, Cambridge, UK

**Activities**

Postal:

Royal Society of Chemistry  
Burlington House  
Piccadilly

**Address**

London UK-W1J 0BA

Telephone:

+44 207 437 8656

Fax:

+44 207 4937 8883

Internet :

<http://www.rsc.org/lap/rscscm/dab/ind009.htm>

Dr. David Alker, (Pfizer Central Research, UK)

Dr. Karl Swift (Maybridge, UK)

**President  
Secretary**

Name:

Dr. Derek R Buckle

Address:

18 Hillfield Road  
Redhill

**EFMC-Delegate**

Surrey, UK-RH1 4AP

Email:

[drbassociates@dsl.pipex.com](mailto:drbassociates@dsl.pipex.com)

**Name** **Society for Medicines Research**

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[Communications@organon.com](mailto:Communications@organon.com)

[www.organon.com](http://www.organon.com)

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## POLYMER LABORATORIES Ltd

Essex Road - Church Stretton - Shropshire SY6 6AX  
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[Plinfo@polymerlabs.com](mailto:Plinfo@polymerlabs.com)  
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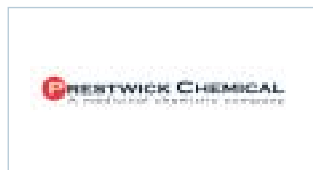
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