

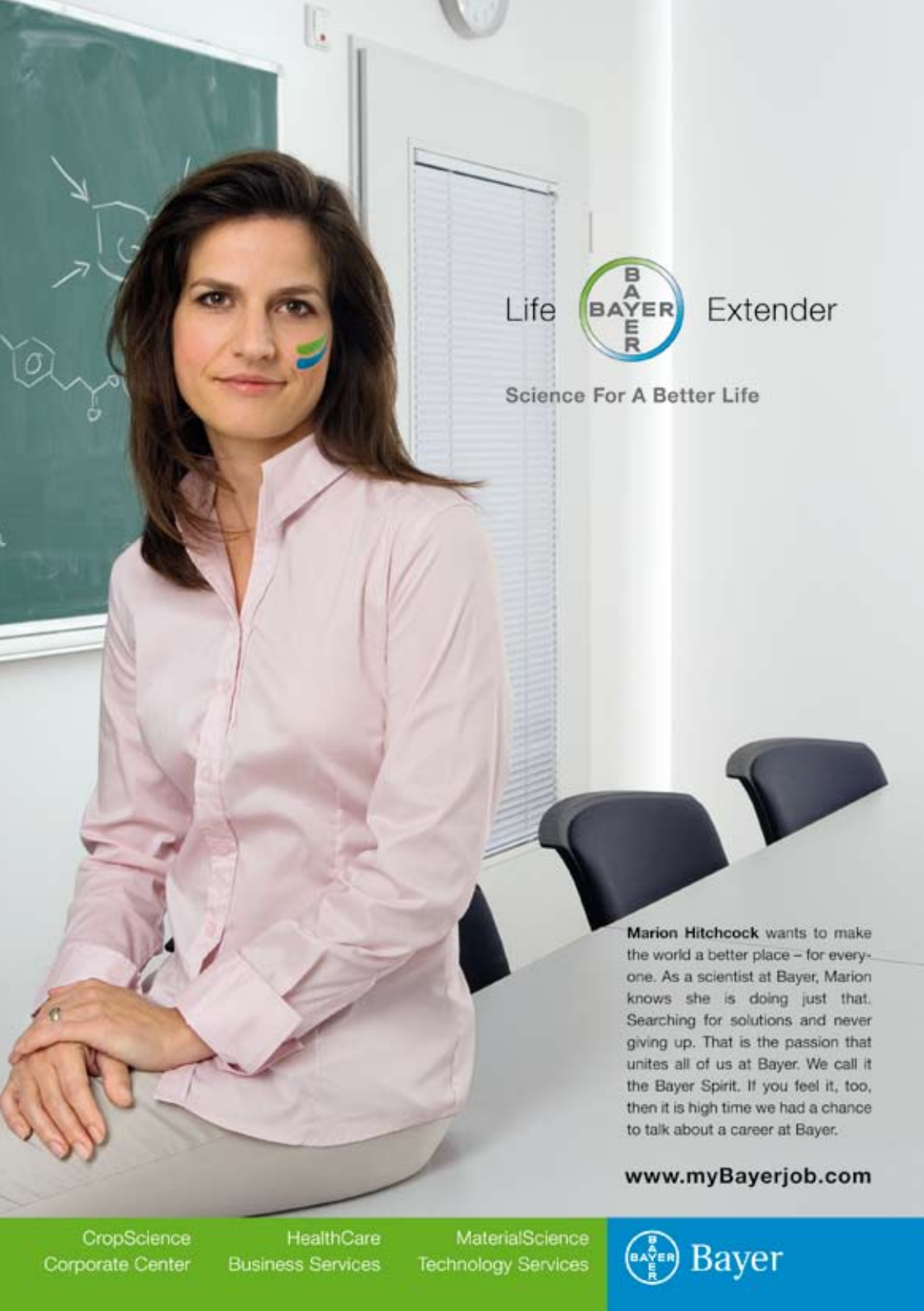


EFMC

YEARBOOK 2012

Medicinal Chemistry in Europe

EFMC-ISMIC 2012 Berlin
Second Announcement



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Dear colleagues,

To represent you as the President of the EFMC from 2012 to 2014 is a special honor for me and makes me feel privileged. For the upcoming term I look forward to working together with all of you, to share our experiences and accomplishments, to support each other, to be open to our common concerns, and to refresh and energize our vision of the future. The year 2011 has been a year of continued economic crisis and of unprecedented change for many of our members in the pharmaceutical industry. In these challenging times the EFMC is committed to continue to serve as a scientific and strategic platform for Medicinal Chemists in Europe. Activities of the EFMC are intended to both foster the scientific excellence and training of our discipline in Europe and at the same time to facilitate collaborations across academia, biotech and the pharmaceutical industry. This editorial will provide you with an overview of important events in 2011 and planned activities of our Federation in 2012.

First of all, I would like to take the opportunity to welcome Phil Jones, as new member of the Executive Committee, and our new Council members Terence Beghyn (France), Jürgen Mack (Germany), and Antoni Torrens (Spain). Let me also thank Javier Fernandez for his tremendous engagement and support of the Executive Committee. Furthermore, I would like to thank Yves Rolland and Maria Luz Lopez Rodriguez for their contributions and their continuous support to the EFMC Council.

The Committees of the EFMC are of critical importance in driving new initiatives within the EFMC. I would like to thank all members of the Committees for their continuous commitment and enthusiasm. As newly appointed chair of the Education and Training Committee I would like to welcome Hein Coolen. He takes over this responsibility from Javier Fernandez. Javier has fostered the training efforts with his team across Europe. I'm grateful for all the important contributions he has made. Furthermore, I would like to welcome Phil Jones, Andrew Thomas (Roche), Sarah Skerratt (Pfizer), and Andy Thomas (AstraZeneca) as new members

of the Industry Liaison Committee. I would also like to thank Mark Andrews (Pfizer) and Liz Pease (AstraZeneca) for their contributions to promote our relationships with the pharmaceutical industry.

In June 2011 the third edition of the "Frontiers in Medicinal Chemistry: Emerging Targets, Novel Candidates and Innovative Strategies" took place in Stockholm (Sweden). The Meeting was chaired by Anders Karlén, President of the Medicinal Chemistry Section of the Swedish Academy of Pharmaceutical Sciences, and co-organized by the European Federation for Medicinal Chemistry, and the Division of Medicinal Chemistry of ACS.

In August 2011 the 4th International Symposium on "Advances in Synthetic and Medicinal Chemistry" was held in St. Petersburg (Russia). This symposium was chaired by Prof. K.C. Nicolaou (Scripps) and Tony Wood (Pfizer) and co-organized with ChemBridge Corporation and the support of the ACS. Besides these major events, in 2011 the EFMC has also been organizing sessions at the Spring ACS meeting in Anaheim, at the PharmSciFair meeting in Prague, and at the 8th AFMC International Medicinal Chemistry Symposium in Tokyo.

Education and Training is a cornerstone of the mission of EFMC and are provided to young scientists and industrial researchers through our summer schools and short courses. Among them, I would like to highlight the Medicinal Chemistry Schools. Besides the Summer School in Urbino (Italy) the EFMC has supported summer schools in Leiden (The Netherlands), Nottingham (UK), Vienna (Austria), and Pavia (Italy) in 2011.

The focus of the third EFMC Short Course, organized by Mike Trevethick (Pfizer) and Henk Timmerman (VU University Amsterdam) and held in April of this year, was on Principles and Application of *in vitro* Pharmacology in Drug Discovery. The fourth EFMC short course was focused on Safety and Attrition and took place in December. This short course was co-organized by Alan Stobie (Pfizer) and Henk Timmerman (VU University

Amsterdam). Short courses are intended for scientists working in the field, and the presentations are given by senior scientists from both industry and academia. The number of participants is limited to 35 to allow for in depth discussions. Also in 2012, EFMC will organize a Spring and a Fall Short Course. The next course (April 1-4, 2012) will be organized by Thomas Klabunde (Sanofi), Birgit Schoeberl (Merrimack), and Henk Timmerman (VU University Amsterdam) and will focus on the topic Target selection through chemical and systems biology. Topic of the Fall Short Course will be Improving Compound Quality: Physical Chemistry and DMPK Properties in Drug Discovery. Principles, Assays and Predictions, and the program will be compiled by Kevin Beaumont (Pfizer). Detailed information can be found on our web page www.efmc.info. Please mark the date and register in time.

For 2012, the main event will be the XXIInd International Symposium on Medicinal Chemistry (ISMC), organized by our two German Member Societies (GDCh and DPhG) in Berlin, September 2-6. As for previous editions, the meeting will cover all major therapeutic areas, new technologies and late hot topics. Special emphasis will be put on case studies and first time disclosures. The registration is already open and I would like to encourage you to register for this premier medicinal chemistry event of 2012.

On occasion of the XXIInd ISMC meeting, the three EFMC Awards will be conferred. These are the Nauta Award for Pharmacochimistry, the UCB-Ehrlich Award for Excellence in Medicinal Chemistry and the Prous Institute – Overton and Meyer Award for New Technologies in Drug Discovery. In addition, there will be EFMC prizes to acknowledge scientific achievements of a young medicinal chemist from Industry and one from Academia. The call for applications for the awards and the prizes will be open until end of January, and I encourage you to visit our web-page www.efmc.info for further information and to submit an application.

Among other major events coming up in 2012 under the auspices of EFMC I wish to highlight the 1st Israeli-UK Medicinal Chemistry Conference, which will take place on April 22-23 in Rehovot (Israel), the 30th Noordwijkerhout-Camerino-Cyprus Symposium, scheduled for May 13-17 in Amsterdam (Netherlands), the 21st Italian National Meeting in Medicinal Chemistry to be held in Palermo (Italy), July 17-21, the 19th EuroQSAR – Knowledge Enabled Ligand Design which will take place on August 26-31 in Vienna (Austria), and the EFMC sponsored session at the 4th EuCheMS Chemistry Congress in Prague (Czech Republic), August 26-30.

Over the coming year we will continue to provide you with updates on EFMC activities through our newsletter MedChemWatch and on our web-page www.efmc.info which offers also a meeting calendar and job portal. I would like to acknowledge Nele Coulier and Gabriele Costantino and his team for all their efforts to support day to day operations and to foster communication and information exchange within our community.

Last but certainly not least, I would like to thank the Past President, Gerhard Ecker. Under his leadership the EFMC evolved into a learned society with a well organized and sustainable organizational structure. Furthermore he initiated a strategic partnership with the Royal Society of Chemistry which led to the creation of MedChemComm, the official journal of the EFMC and the Royal Society of Chemistry in the field of medicinal chemistry. Gerhard has been a strong advocate of Medicinal Chemistry in Europe. His strong commitment to the frontiers of our science has continued to foster the visibility and reputation of EFMC in the scientific community. He also played a key role in facilitating the dialogue with major European science initiatives including the Innovative Medicine Initiative. Personally, I'm grateful to Gerhard for his friendship and for helping me to prepare for my term as President.

With best personal regards,
Uli Stolz, President EFMC

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Medicinal Chemistry in Europe, the Yearbook of the European Federation for Medicinal Chemistry is published by:

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 Scientific Conference Producers
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Premium Sponsors



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Premium Sponsors are CROs, Service Providers, Publishers that directly sponsor EFMC activities through major financial contributions. Their contribution helps the EFMC towards its main objective of developing a strong Medicinal Chemistry community in Europe that is well-equipped for the challenges of the future and enables the discovery of innovative new medicines for patients.

Corporate Members

EFMC offers any company the opportunity to become an official corporate member. Corporate membership will help EFMC with its objective of advancing the science of medicinal chemistry and can be achieved in several ways:

- By sponsoring an EFMC International Symposium with a minimum of €10 000
- By sponsoring an official EFMC Award
- By paying an annual fee of € 2 000 to EFMC

Companies interested to become a corporate member should contact the Administrative Secretariat at administration@efmc.info



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The EC consists of seven members: the President, the President Elect or the Past President, the Secretary, the Treasurer and three additional members. All members of the EC, except the President and the Past President, are elected by secret ballot by the Council during a meeting of the Council. After a term of one year, the President Elect will automatically become President. The members of the EC are not delegates of their respective countries. All details about the election process can be found in the statutes of the EFMC on the EFMC official website: www.efmc.info

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Activities The current affairs of the Federation are handled by the EC. Among its members, the EC will assign the responsibilities of International Liaison, Communication and Planning.

Council

The Council consists of the members of the EC and one delegate of each Adhering Organisation. According to the statutes, the voting rights are allotted according to the following rules: members of the EC: 1 vote, countries with up to 99 members: 2 votes, countries with 100-199 members: 3 votes, countries with 200-399 members: 4 votes, countries with 400-599 members: 5 votes, countries with 600-899 members: 6 votes, countries with more than 899 members: 7 votes. As for countries with more than one Adhering Organisation, votes will be proportionally distributed among them, taking into a resulting number will be rounded off to the closest digit.

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University of Antwerp, Belgium - EFMC Executive Committee

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Université Lille2 - Société de Chimie Thérapeutique, France

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University of Copenhagen - The Danish Society of Pharmacology, Toxicology and Medicinal Chemistry, Denmark

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University of Copenhagen, Denmark - EFMC Executive Committee

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Kiel University (DPHG) - German Pharmaceutical Society, Section of Pharmaceutical/Medicinal Chemistry, Germany

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StagePharma, The Netherlands - EFMC Executive Committee

Prof. Gabriele COSTANTINO

University of Parma, Italy - EFMC Executive Committee

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University of Pisa - Division of Medicinal Chemistry of the Italian Chemical Society, Italy

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University of Helsinki - Finnish Pharmaceutical Society, Finland

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Prof. Dr Nikolay S. ZEFIROV

Moscow State University - The D.I. Mendeleev Russian Chemical Society, Medicinal Chemistry Section, Russia

The **European Federation for Medicinal Chemistry (EFMC)** is an independent association founded in 1970 that represents 25 scientific organisations from 23 European countries. 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 deepen contacts and exchanges between medicinal chemists in Europe and around the World. Moreover, it offers medicinal chemists the opportunity to present their work internationally by organizing the biennial International Symposium on Medicinal Chemistry (EFMC-ISMC). These symposia, with an average attendance of 1,200 delegates, are highly international with a broad range of speakers and attendees from the pharmaceutical industry and academia. Furthermore, in collaboration with the Royal Society of Chemistry, EFMC is publishing *MedChemComm*, the official journal of EFMC. *MedChemComm* is a peer reviewed journal publishing concise articles and reviews covering medicinal chemistry research.

The EFMC pursues its activities via the Executive Committee (EC), the Council and three Committees devoted to Education and Training, Industry Liaison and Information and Communication. These committees strengthen the links between Council and EC and help to define the mission, vision and goals of EFMC. A Scientific Advisory Board, composed of internationally highly recognized opinion leaders in the field of medicinal chemistry, assists in strategic planning and ensures a dynamic and vibrant advancement of EFMC.

The EFMC has very strong links with the Medicinal Chemistry Division of the American Chemical Society. Through this collaboration the ACS convenes sessions for the biennial ISMC Symposia, and conversely the EFMC convenes sessions for ACS National meetings. In addition, the two societies regularly exchange observers at their committee meet-

ings. Furthermore, the EFMC has an ex officio representative on the Editorial Advisory Board of the *Journal of Medicinal Chemistry*. EFMC also has strong links with the European Association for Chemical and Molecular Sciences (EuCheMS) and with the European Federation for Pharmaceutical Sciences (EUFEPS). Furthermore, EFMC reaches out to former USSR and Eastern European scientists through its successful series of ASMC Symposia, organised with the support of ChemBridge Corporation, in Russia or in Ukraine. In addition, the EFMC also collaborates with the Asian Federation of Medicinal Chemistry by participating in meetings organised by the AFMC and vice versa, giving the EFMC a broad international footprint.

An important part of the EFMC activities is sponsorship of national scientific meetings and Medicinal Chemistry Schools. Supported by Bentham, it also awards bursaries for younger scientists to attend ISMC meetings. The EFMC also acknowledges the excellence of medicinal chemists' work, by conferring three major awards: the Nauta Award on Pharmacochimistry, the UCB-Ehrlich Award for Excellence in Medicinal Chemistry and the Prous Institute-Overton and Meyer Award for New Technologies in Drug Discovery, which are given every two years for outstanding achievements in the field of Medicinal Chemistry. From 2010 on, EFMC established two new prizes to acknowledge the scientific accomplishments of young medicinal chemists, both in industry and academia.

The EFMC homepage is now hot-wired to the web sites of many national organisations, thus facilitating the flow of information. The e-newsletter *MedChemWatch* as well as the yearbook "*Medicinal Chemistry in Europe*" 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.

Current Committee Membership:

- Hein COOLEN - ETC Chair
- Armin BUSCHAUER
- Norbert HAIDER
- Peter MOHR
- Silvia ORTEGA
- Maurizio RECANATINI
- Alan STOBIE

(StagePharma, EFMC EC Member, The Netherlands)
 (University of Regensburg, Germany)
 (University of Vienna, Austria)
 (Hoffman La Roche, Switzerland)
 (Universidad Complutense de Madrid, Spain)
 (University of Bologna, Italy)
 (Pfizer, UK)

Committee Objective:

To ensure the training of the next generation of medicinal chemists within Europe at both the undergraduate and postgraduate levels, based on strong industry-academia cooperation, and to provide a platform to address future development training needs.

Committee Goals:

- Undertake a comprehensive analysis of the structure and profile of European teaching and education systems for Medicinal Chemistry
- Agree on the core skills medicinal chemists should acquire during their Masters level and PhD level training
- Quantify existing undergraduate and postgraduate level training courses within Europe
- Identify best practice from this analysis and publish an overview and conclusions
- Summarise career destinations for Masters and PhD level medicinal chemists, and identify core skills gaps in each country from both the industrial and academic perspective
- Identify deficiencies in the current teaching and education of Medicinal Chemistry in Europe, and establish means of addressing these
- Summarise currently available software for e-learning of Medicinal Chemistry

- Continue to support the European School of Medicinal Chemistry (Urbino), accredited by EFMC, and the official EFMC sponsored schools; the Leiden/Amsterdam Center for Drug Research School on Medicinal Chemistry, the Swiss Course on Medicinal Chemistry, the Vienna Summer School, the Residential School: Medicinal Chemistry (Nottingham) and the Summer School on Pharmaceutical Analysis (Rimini)

- Facilitate the establishment of additional local residential Medicinal Chemistry Schools in other European countries
- Incorporate Medicinal Chemistry trends in future Medicinal Chemistry Schools
- Include sessions on teaching and education of Medicinal Chemistry on a regular basis in EFMC-sponsored symposia
- Hold a satellite session at each ISMC on the future trends and direction of Medicinal Chemistry
- Raise the awareness and importance of appropriate Medicinal Chemistry training and education with other relevant learned societies e.g. IUPAC, EUPFES

In order to achieve these challenging goals the Education Committee would welcome your knowledge, experience and ideas. If you wish to contribute towards our objectives, please contact the Administrative Secretariat at administration@efmc.info

Current Committee Membership:

- Graeme ROBERTSON – ILC Chair
- Christophe GENICOT
- Ana GRADILLAS
- Phil JONES
- Rob LEURS
- Leandros SKALTSOUNIS
- Sarah SKERRATT
- Andrew THOMAS
- Andy THOMAS

(University of Perugia, Italy)
 (UCB, Belgium)
 (San Pablo CEU University, Spain)
 (ASC, EFMC EC Member, UK)
 (VU University Amsterdam, The Netherlands)
 (University of Athens, Greece)
 (Pfizer, UK)
 (F. Hoffman - La Roche, Switzerland)
 (AstraZeneca, UK)

Committee Objective:

The focus of the Industrial Liaison Committee is to enhance interactions at the industry/academia interface and to promote improved cooperation between the pharmaceutical industry and academia to further develop EFMC's capabilities in promoting and supporting the development of medicinal chemistry across Europe.

The ILC also aims to increase the visibility of EFMC activities within all types of companies who employ medicinal chemists, such that the full medicinal chemistry landscape is fully engaged within the EFMC.

Committee Goals:

- To act as a link between industry and academia for the exchange of ideas, information, and knowledge on medicinal chemistry
- To understand and champion the views of industry within EFMC and, where appropriate, to promote these on a wider, European stage
- To provide a forum for industrial and academic medicinal chemists to discuss the evolution of medicinal chemistry in Europe
- To encourage, recognise & support medicinal chemistry talent in industry (e.g. through EFMC prizes, industry sessions at EFMC meetings, etc.)

In order to achieve these challenging goals the ILC welcomes new committee members. If you are interested please contact the Administrative Secretariat at administration@efmc.info

Current Committee Membership:

- Koen AUGUSTYNS – ICC Chair
- Terence BEGHYN
- Gabriele COSTANTINO

- Laszlo MOLNAR
- Christa E. MÜLLER
- Rino RAGNO
- David REES

(University of Antwerp, EFMC EC Member, Belgium)
 (Université Lille2, France)
 (Università degli Studi di Parma and
 Editor of MedChemWatch, Italy)
 (Gedeon Richter, Hungary)
 (University of Bonn, Germany)
 (Università di Roma, Italy)
 (Astex Therapeutics, UK)

Committee Objective:

To improve and strengthen the communication to the EFMC member societies and individual medicinal chemists. The main goals are to increase the visibility of the EFMC and its activities via extensive use of internet-based technology and to establish an information platform for all issues related to Medicinal Chemistry in Europe. In addition, the ICC Committee will also support the other Committees in coordinating their activities and disseminating information.

Committee Goals:

- To strengthen and improve communication with our National Adhering Organisations
- To support the National Adhering Organisations by ensuring that their information is communicated electronically in an efficient manner via EFMC channels
- To provide a Web-portal for Medicinal Chemistry activities in Europe and to broadly disseminate information on EFMC sponsored events
- To explore possibilities for creating benefits for Corporate Members and individual medicinal chemists who are members of our National Adhering Organisations

In order to achieve these challenging goals the committee is open to suggestions and comments. Please send your ideas to the Administrative Secretariat at administration@efmc.info

Current Committee Membership:

- Gerhard ECKER – SAB Chair
(University of Vienna, Austria)
- Peter ETTMAYER
(Boehringer, Austria)
- Giovanni GAVIRAGHI
(Siena Biotech, Italy)
- Povl KROGSGAARD-LARSEN
(The Carlsberg Foundation, Denmark)
- Christian NOE
(University of Vienna, Austria)
- Roberto PELLICCIARI
(University of Perugia, Italy)
- Ferran SANZ
(University Pompeu Fabra, Spain)

The Scientific Advisory Board is an EFMC consulting body, mainly consisting in assessing the Federation's strategic goals, in giving advices on EFMC policy related matters, in submitting to the Executive Committee proposals for novel initiatives and in proposing strategies how to raise awareness of Medicinal Chemistry in Europe. The SAB is composed of established medicinal chemists and chaired by the past president.



MedChemWatch

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MedChemWatch

Editor

- Gabriele COSTANTINO

(University of Parma, Italy)

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- Lucija PETERLIN MASIC
- Leonardo SCAPOZZA
- Wolfgang SIPPL
- Sarah SKERRATT

(Gazi University, Turkey)

(University of Ljubljana, Slovenia)

(University of Geneva, Switzerland)

(University Halle-Wittenberg, Germany)

(Pfizer, United Kingdom)

MedChemWatch, the official newsletter of EFMC, provides you with a regular and effective update on the activity of our committees, gives information on EFMC-approved schools and EFMC-sponsored meetings, and alerts you on calls for Medicinal Chemistry related grants and funding opportunities. Furthermore, in each issue you will find a perspective article from a leading scientist and the presentation of a Medicinal Chemistry research group in Europe.

MedChemWatch is now incorporated into the paper version of MedChemComm, thus giving our contributions the broadest audience and visibility.

We strongly encourage you to contribute to MedChemWatch which should ideally become a forum for exchange of ideas, thoughts and visions for the future of Medicinal Chemistry, accompanied by useful information on events, grants and news from our member societies.



Rapid communication of research in medicinal chemistry

MedChemComm



A peer-reviewed journal publishing medicinal chemistry research, including new studies related to biologically-active chemical or biochemical entities that can act as pharmacological agents with therapeutic potential or relevance.

MedChemComm is a monthly journal containing a mix of vibrant and concise research and review articles. It complements the existing RSC Publishing portfolio of bioscience journals, providing authors in the field with a dedicated subject-specific publication.

Co-Editor-in-Chief: **Dr Anthony Wood**, Pfizer, USA

Co-Editor-in-Chief: **Professor Greg Verdine**,
Harvard University, USA

Official journal of:



ASMC 2011

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Report **ASMC 2011**

4TH INTERNATIONAL SYMPOSIUM on Advances in Synthetic and Medicinal Chemistry

August 21-25, 2011

St.Petersburg, Russia

ASMC 11 St.Petersburg was organised by EFMC and ChemBridge Corporation, in the series of events which started with ASMC 04 in Moscow, followed by ASMC 07 in St.Petersburg and ASMC 09 in Kiev. Prof. K.C. Nicolaou (The Scripps Research Institute & University of California, US) and Dr Anthony Wood (Pfizer, US) were the chairmen of the symposium, where American and European chemists met Eastern European scientists in the areas of synthetic and medicinal chemistry.

With 39 plenary lectures, invited talks and oral communications, as well as 177 poster presentations, this 4th edition of the symposium attracted 400 participants from more than 40 countries, with a good balance between industry and academia. Also the speakers represented a large number of countries, pharmaceutical and biotechnology companies, and academic institutions. This blend of academic-industrial speakers and participants was ideal for scientific exchanges, networking and discussions.

On the occasion of ASMC, the EFMC Prize for a Young Medicinal Chemist in Industry and the EFMC Prize for a Young Medicinal Chemist in Academia were conferred. Professor Christian Heinis (Ecole Polytechnique Fédérale de Lausanne, Switzerland) and Dr Alexander V. Mayweg (Roche, Switzerland) were the winners of the 2011 EFMC Prizes, and both gave a talk at the symposium.



The scientific program was closed with a presentation of Nobel prize winner Professor Ei-ichi Negishi (Purdue University, United States). His talk on "Magical Power of d-Block Transition Metals—Pd-Catalyzed Cross-Coupling and Zr-Catalyzed Asymmetric carboalumination of Alkenes (ZACA)" was one of the highlights of the symposium.

In addition to the scientific program, several social activities were organised. Participants enjoyed the bus city tour through the centre of St.Petersburg and the excursions in and around the city. With a gala dinner at the Nikolaevsky Palace, a fine specimen of architecture of the 19th century built to the design of the famous German born Russian architect Andrey Stakenschneider for the son of Emperor Nikolay I, we concluded the conference in style.

The next edition of this biennial symposium will take place on May 5-8, 2013 in Moscow. ASMC 2013 will continue the tradition of the ASMC symposia to create an international platform where scientists from all over the world meet and exchange their view and ideas. For more information on the next edition of ASMC, we invite you to regularly check the EFMC website www.efmc.info

FRONTIERS IN MEDICINAL CHEMISTRY: Emerging Targets, Novel Candidates and Innovative Strategies

June 19-21, 2011

Stockholm, Sweden

On June 19-21, 2011 the **Frontiers in Medicinal Chemistry Meeting** was held in Stockholm. The meeting was co-organized by the ACS, Division of Medicinal Chemistry, the European Federation for Medicinal Chemistry (EFMC) and the Swedish Academy of Pharmaceutical Sciences (SAPS). The event was the third in the series initiated in Siena, Italy in 2007 and continued in Barcelona, Spain in 2009. The theme of this year's meeting was Emerging Targets, Novel Candidates and Innovative Strategies. Altogether 247 delegates from 27 countries attended the meeting, including 105 from academy, 133 from industry and 9 exhibitors.

Inaugurated by the presidents of the EFMC, Gerhard Ecker, the ACS-MEDI, Jeff Zablocki and the SAPS Medicinal Chemistry section, Anders Karlén the Symposium was opened with lectures of Prof. Ben Cravatt, The Scripps Research Institute, USA and Roberto Pellicciari, University of Perugia, Italy. The two other plenary lectures were held by Prof. James Wells, University of California at San Francisco, USA and Prof. Stefan Laufer, University of Tübingen, Germany. The meeting covered most aspects of medicinal chemistry including sessions on ADME profiling, cancer and epigenetics, case studies and emerging targets, chemical neuroscience (CNS), GPCR's, protein-protein interactions and structure-based ligand design. The program included four 45 minutes lectures and eighteen 30 minutes lectures; 64 posters were on display during the two poster sessions.



A poster prize was awarded to one of the presenters.

The organizers of the conference acknowledge the Stockholm County Council for its invitation of the participants to a reception and a guided tour at the City Hall, famous for its architecture, and for hosting the Nobel Banquet in December every year. The program also included a gala dinner at The Grand Hotel, a landmark in Stockholm built in 1874.

"Frontiers in Medicinal Chemistry" was made possible by the generous financial support of our institutional and industrial sponsors and the assistance of our collaborators. Also, the organizing and scientific committee would like to acknowledge the speakers and participants for sharing their science and, more importantly, for their key contribution to the outstanding scientific level of the event.

**EFMC****ISMCM 2012**XXIIndInternational Symposium
on Medicinal Chemistry

Berlin, Germany September 2-6, 2012

Call For Abstracts

Abstracts for oral communications and poster presentations can be submitted via the symposium website.

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CONFIRMED PLENARY LECTURES**Ada YONATH**

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Youssef BENNANI

(Vertex Pharmaceuticals, USA)

Günther STOCK

(Health Capital Berlin, DE)

EFMC AWARD LECTURES

- The Nauta Award for Pharmacochimistry
- The UCB-Ehrlich Award for Excellence in Medicinal Chemistry
- The Prous Institute-Overton and Meyer Award for New Technologies in Drug Discovery

EFMC PRIZE LECTURES

- Prize for a Young Medicinal Chemist in Industry
- Prize for a Young Medicinal Chemist in Academia

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Web: www.ismc2012.org

www.ismc2012.org

SESSIONS AND SESSION COORDINATORS

**ANTIBODY-DRUG CONJUGATES
FINALLY READY FOR PRIME TIME? (ACS SESSION I)**
Gene Dubowchik (BMS, USA)

ANTI-INFECTIVES AND THE RESISTANCE PROBLEM
Maurizio Botta (University of Siena, IT)

**CHALLENGES AND OPPORTUNITIES FOR DRUG
METABOLISM IN DRUG DISCOVERY AND PRECLINICAL
DRUG DEVELOPMENT (AFMC SESSION)**
John Miners (Flinders University School of Medicine, AUS)

HOT TRENDS IN PROCESS CHEMISTRY
Vittorio Farina (Johnson and Johnson Pharmaceutical R&D, BE)

CHEMICAL BIOLOGY APPROACHES IN DRUG DISCOVERY
Craig Crews (Yale University, USA)

**CHEMISTRY AND STEM-CELL RESEARCH
SMALL MOLECULE MODULATION OF STEM
CELLS FOR REGENERATIVE MEDICINES**
Angela Russell (University of Oxford, UK)

**DESIGNING BETTER DRUGS: LIGAND EFFICIENCY
GUIDED OPTIMIZATION IN DRUG DISCOVERY
(ACS SESSION II)**
Nicholas Meanwell (BMS, USA)

**EMERGING DRUGS – CASE STUDIES
OF RECENTLY DISCLOSED NEW MEDICINES**
Rui Moreira (University of Lisbon, PT)

**EPIGENETICS – AN AREA OFFERING
FORMIDABLE CHALLENGES AND
OPPORTUNITIES FOR MEDICINAL CHEMISTS**
Dash Dhanak (GlaxoSmithKline, USA)

FIRST TIME DISCLOSURES
Katarzyna Kiec-Kononowicz (Jagiellonian University, PL)

**DRUG SAFETY: WHAT TOXIC EFFECTS
CAN BE REASONABLY PREDICTED?**
Thomas Steger-Hartmann (Bayer Pharma, DE)

INTRACTABLE TARGETS: IS BIGGER BETTER?
Herbert Waldmann
(Max Planck Institute of Molecular Physiology, DE)

LATE BREAKING NEWS
Pascal George (Independent Scientific Expert and Adviser, FR)

METABOLIC DISORDERS
Peter Mohr (F. Hoffmann-La Roche, CH)

**MOLECULAR THERAPIES FOR INFLAMMATORY
AND AUTOIMMUNE DISEASES**
Graham Warrellow (UCB, UK)

NEW DEVELOPMENTS IN CNS DRUG RESEARCH
Anabella Villalobos (Pfizer, USA)

FIGHTING CANCER : KINASES AND BEYOND
Carlos Garcia-Echeverria (Sanofi Aventis, FR)

NEW OPPORTUNITIES IN LEAD DISCOVERY
Gerhard Klebe (Philipps-University Marburg, DE)

**NEW SMALL MOLECULE APPROACHES
FOR NEGLECTED DISEASES**
Jeremy Burrows (Medicines for Malaria Venture, CH)

NEXT GENERATION OF CARDIOVASCULAR DRUGS
Hanno Wild (Bayer Pharma, DE)

**STRATEGIES TO TACKLE CHALLENGING
TARGETS IN ONCOLOGY**
Martin Missbach (Novartis, CH)

**PREDICTIVE TOOLS, VIRTUAL SCREENING
AND CHEMINFORMATICS**
Andy Davis (AstraZeneca, SE)

RECENT HIGHLIGHTS IN MEDICINAL CHEMISTRY
Maria Luz Lopez-Rodriguez
(Complutense University of Madrid, ES)

**SYNTHETIC CHEMISTRY: FROM NANO TO MACRO
(EUCHEMS SESSION)**
Peter Matyus (Sемmelweis University, HU)

TARGETING PROTEIN-PROTEIN INTERACTIONS
Kristian Strömgaard (University of Copenhagen, DK)

**THE IMPACT OF TRANSPORTERS IN DRUG DISCOVERY
AND ORAL BIOAVAILABILITY ENHANCEMENT
(EUFPS SESSION)**
Andreas Link (University of Greifswald, DE)

WHAT'S NEW IN GPCR RESEARCH?
Ad Ijzerman
(Leiden/Amsterdam Center for Drug Research, NL)

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EFMC 2012 AWARDS

Call for nominations

DEADLINE: JANUARY 31, 2012

Nominations for these Awards consist of a nomination letter, a brief CV, including a list of selected publications and two supporting letters. The nominations should be submitted to the Chairman of the Juries, Dr Hans Ulrich Stilz, President of EFMC, c/o EFMC Administrative Secretariat, Rue Michel de Ghelderode 33/2, 1348, Louvain-la-Neuve, Belgium fax: +32 10 45 97 19 e-mail: awards@efmc.info



**THE NAUTA AWARD
FOR PHARMACOCHEMISTRY**

For the advancement of medicinal chemistry and the development of international organisational structures in Medicinal Chemistry. The Award will be given for outstanding achievements in the field of Medicinal Chemistry.



**THE UCB-EHRLICH AWARD
FOR EXCELLENCE IN MEDICINAL CHEMISTRY**

To acknowledge and recognize outstanding research in the field of Medicinal Chemistry in its broadest sense by a young scientist. This Award has been established with the support of UCB Pharma.



**THE PROUS INSTITUTE-OVERTON AND MEYER AWARD
FOR NEW TECHNOLOGIES IN DRUG DISCOVERY**

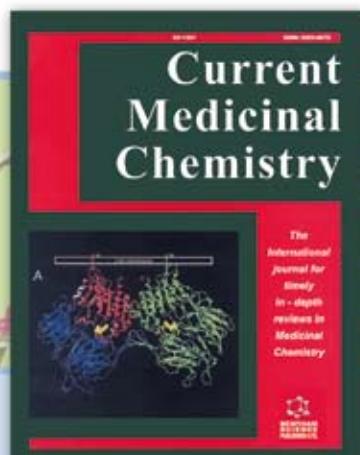
To encourage innovation and investigation in technological development related to drug discovery, this Award established with the support of Prous Institute will be given for the discovery, evaluation or use of new technologies.

The awards will be conferred on the occasion of the XXIInd EFMC International Symposium on Medicinal Chemistry (ISMC) to be held in Berlin, Germany, September 2-6, 2012



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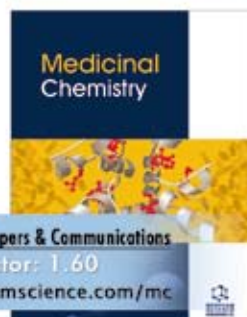
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FOR A YOUNG MEDICINAL CHEMIST IN ACADEMIA

To acknowledge and recognize an outstanding young medicinal chemist (≤35 years old) working in Academia within Europe.

The **Prize** is given annually and consists of a diploma, €1.000 and an invitation to give a short presentation at an EFMC symposium. Two additional nominees will also be identified and acknowledged.

Applications should consist of:

- a one-page letter by the candidate including a short rationale for their application
- one page with his/her 5 most important publications
- a brief cv of the candidate
- abstract of potential oral presentation

THE EFMC PRIZE

FOR A YOUNG MEDICINAL CHEMIST IN INDUSTRY

To acknowledge and recognize an outstanding young medicinal chemist (≤35 years old) working in industry within Europe.

The **Prize** is given annually and consists of a diploma, €1.000 and an invitation to give a short presentation at an EFMC symposium. Two additional nominees will also be identified and acknowledged.

Nominations should be submitted by the candidate's supervisor and should consist of:

- a letter by the supervisor
- a brief cv of the candidate
- abstract of potential oral presentation



EFMC
European Federation
for Medicinal Chemistry

Deadline for Nominations is January 31, 2012

See www.efmc.info for full details.

19th EuroQSAR

Knowledge Enabled Ligand Design



August 26-30, 2012
Vienna, Austria

OPENING LECTURE

Myths and Fallacies about Exploring Chemical Space: SAR is the Medicinal Chemist's Retrospective Tool in Ligand Design

Dr Christopher A. LIPINSKI (Mellor Discovery Inc., USA)

KEYNOTE LECTURES

- **Pharmacophore Modeling in Early Drug Discovery**
Dr Karl-Heinz BARINGHAUS (Sanofi-Aventis, DE)
- **Open Innovation Applied to Agrochemical Discovery**
Dr Mark FORSTER (Syngenta, UK)
- **Mining in Corporate Databases:
What Can We Learn from our Historical Data?**
Dr Jan M. KRIEGL (Boehringer-Ingelheim, DE)
- **New Trends and Perspectives in QSAR Modelling**
Prof. Roberto TODESCHINI (University of Milano-Bicocca, IT)
- **Fluorine Local Environment: From Screening to Drug Design**
Dr Anna VULPETTI (Novartis, CH)

Hansch Session: "Grand Challenges for QSAR"

- **The Impact of QSAR on Medicinal Chemistry**
Prof. Hugo KUBINYI (DE)
- **Activity cliffs, Information Theory, and QSAR**
Prof. Gerald M. MAGGIORA (University of Arizona, USA)
- **The Sin of Seduction: Deceptive Images from Macromolecular Cryocrystallography**
Dr Yvonne C. MARTIN (Martin Consulting, USA)
- **Data Matters. The Discovery of New Knowledge**
Dr Wendy WARR (Wendy Warr & Associates, UK)

TOPICS

- Integrative Approaches -
Predicting *In vivo* data
- Open Source, Open Access,
Open Data
- Proteins - Structure, Function,
Modulation, Interaction
- *In silico* Profiling -
PhysChem meets Biology
- Translational Informatics
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www.euroqsar2012.org

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www.LDOrganisation.com

- **EFMC** sponsored events highlighted in blue
- **EFMC** organised events highlighted in yellow
- **EFMC** Schools highlighted in green

Young Research Scientists Meeting

February 2-3, 2012

Romainville, France

www.sct-asso.fr

Contact Person: Luc Demange
Email: jeunes.chercheurs@asso-sct.fr

Organised by:
Société de Chimie Thérapeutique (France)

**XI Laboratory of Synthetic Methodologies
in Medicinal Chemistry**

February 13-17, 2012

Siena, Italy

www.unisi.it/eventi/labms

Contact Person: Federico Corelli
Tel: + 39 0577 234 308 - Fax: + 39 0577 234 333
Email: corelli@unisi.it

Organised by :
Division of Medicinal Chemistry of the Italian
Chemical Society (Società Chimica Italiana) (Italy)

Joint Meeting SCT-SCF-ANP

March 6, 2012

Paris, France

www.sct-asso.fr

Contact Person: Robert Dodd
Email: sct@asso-sct.fr

Organised by :
Société de Chimie Thérapeutique (France)

**2nd RSC Symposium on Chemical Biology
for Drug Discovery**

March 20-21, 2012

Macclesfield, UK

www.maggichurchoosevents.co.uk/BMCS/index.htm

Contact Person: Maggi Churchoose Events
Email: maggi@maggichurchoosevents.co.uk
Tel: + 44 (0)1359 221004
Fax: + 44 (0)1359 221004

Organised by :
The Biological and Medicinal Chemistry Sector
(BMCS) of the Royal Society of Chemistry (RSC)
(United Kingdom)

**Spring Symposium
Pharmacochimistry in Changing Pharma
Landscape**

March 30, 2012

Utrecht, The Netherlands

Contact Person: Henk Timmerman
Tel: + 31(0) 71 5762791
Fax: + 31(0) 71 3646556
Email: henktim@planet.nl

Organised by:
Section Medicinal Chemistry, Royal Netherlands
Chemical Society (KNCV)

Teacher's days

April 2012

Belgrade, Serbia

Contact Person: Ratko Jankov
Email: rjankov@chem.bg.ac.rs
Tel: + 381 11 3282630

Organised by :
Serbian Chemical Society, Division of Medicinal
Chemistry (Serbia)

**5th EFMC Short Course on Medicinal Chemistry
Target Selection through Application
of Chemical and Systems Biology**

April 1-4, 2012

Oegstgeest (near Leiden), The Netherlands

www.ldorganisation.com

Contact: EFMC Administrative Secretariat
Tel: + 32 10 45 47 77 Fax: + 32 10 45 97 19
Email: administration@efmc.info

**VI Nuove Prospettive in Chimica Farmaceutica
(NPCF 6)**

April 15-17, 2012

Rimini, Italy

www.npcf6.it

Contact Person: Maurizio Recanatini
Tel: + 39 051 20 99720
Fax: + 39 051 20 99734
Email: info@npcf6.it
Organised by :
the Dipartimento Scienze Farmaceutiche
Università di Bologna

**2012 Spinks Symposium
«Regenerative Medicine»**

April 17, 2012

Oxford, UK

Contact Person: Ellen Friel
Email: friele@rsc.org
Tel: + 44 1223 432440

Organised by :
The Biological and Medicinal Chemistry Sector
(BMCS) of the Royal Society of Chemistry (RSC)
(United Kingdom)

**The 1st Israeli - UK
Medicinal Chemistry Conference**

April 22-23, 2012

Rehovot, Israel

www.iamc.chemistry.org.il

Contact Person: Raphael Nudelman
Email: raphael.nudelman@teva.co.il
Tel: + 972-54-8886119 - Fax: + 972-3-9166361

Organised by :
The Medicinal Chemistry Section of the Israel
Chemical Society (Israel) and the Biological and
Medicinal Chemistry Sector (BMCS) of the Royal
Society of Chemistry (RSC) (United Kingdom)

**23rd Symposium
on Medicinal Chemistry in Eastern England**

April 26, 2012

Hatfield, UK

Contact Person: Nicole Hamblin
Email: nicole.j.hamblin@gsk.com

Organised by :
The Biological and Medicinal Chemistry Sector
(BMCS) of the Royal Society of Chemistry (RSC)
(United Kingdom)

**Minisymposium on «Epigenetic Targets:
New Opportunities for Medicinal Chemistry»**

May or June 2012

Basel, Switzerland

Organised by :
Division for Medicinal Chemistry (DMC), Swiss
Chemical Society (SCS) (Switzerland)

**30th Noordwijkerhout-Cyprus-Camerino
Symposium****May 13-17, 2012**

Amsterdam, The Netherlands

www.noordwijkerhoutcc2012.com

Contact Person: Henk Timmerman

Tel: + 31 (0) 71 5762791

Fax: + 31 (0) 71 3646556

Email: henktim@planet.nl

Organised by:

Section Medicinal Chemistry, Royal Netherlands
Chemical Society (KNCV)**The fourteenth advanced level workshop
on PK/PD data analysis: A hands-on residential
course using Phoenix WinNonlin****May 13-17, 2012**

Cambridge, UK

www.lakemedelsakademin.se/cambridge2012

Organised by :

Swedish Academy of Pharmaceutical Sciences
(Sweden)**Protein Kinase 2012****May 21-22, 2012**

Cambridge, UK

Contact Person: Stephen East

Email: stephen.east@evotec.com

Tel: +44 (0) 1235 441735

Organised by :

The Biological and Medicinal Chemistry Sector
(BMCS) of the Royal Society of Chemistry (RSC)
(United Kingdom)**Hellenic Symposium on Medicinal Chemistry****May 25-27, 2012**

Athens, Greece

www.helmedchem2012.gr

Contact Person: Anna Tsantili-Kakoulidou

Email: tsantili@pharm.uoa.gr

Tel: + 30 210 7274530

Fax: + 30 210 7274747

Organised by :

Hellenic Society of Medicinal Chemistry (Greece)
and the Division of Organic and Medicinal Chem-
istry of the Association of Greek Chemists**DSFTM Annual Meeting 2012****May 30-31, 2012**

Copenhagen, Denmark

www.dsftm.dk

Contact Person: Lennart Bunch

Email: info@dsftm.dk

Organised by:

The Danish Society of Pharmacology, Toxicology
and Medicinal Chemistry (Denmark)**ICOSECS 8 - 8th International Conference
of the Chemical Societies of the South-Eastern
European Countries****June - July 2012**

Belgrade, Serbia

Contact Person: Ivanka Popovic

Email: ivankashd@tmf.bg.ac.rs

Tel: + 381 11 3370425

Organised by :

Serbian Chemical Society, Division of Medicinal
Chemistry (Serbia)

Summer School on Pharmaceutical Analysis SSPA**June 10-13, 2012**

Rimini, Italy

<http://www.scpaweb.org>

Contact Person: Vincenza Andrisano

Tel: + 39 (0) 51 2099742

Fax: + 39 (0) 51 2099741

Email: sspa2011@scpaweb.org

Organised by :

Division of Medicinal Chemistry of the Italian Chemical Society (Società Chimica Italiana) (Italy)

32nd Edition of the European School of Medicinal Chemistry (ESMEC) EFMC Accredited School**July 2-6, 2012**

Urbino, Italy

www.esmec.eu

Contact Person: Lucia Bedini

Tel: + 39-0722-3033-23 - Fax: + 39-0722-3033-13

Email: chimfarm@uniurb.it

Organised by :

Division of Medicinal Chemistry of the Italian Chemical Society (Società Chimica Italiana) (Italy)

RICT 2012: 48th International Conference on Medicinal Chemistry**July 4-6, 2012**

Poitiers, France

www.rict2012.org

Contact Person: Sébastien Papot

Email:

sct@asso-sct.fr or sebastien.papot@univ-poitiers.fr

Organised by :

Société de Chimie Thérapeutique (France)

21st National Meeting on Medicinal Chemistry NMMC 2012**July 17-20, 2012**

Palermo, Sicily

www.21nmcc.palermo.it

Contact Person: Girolamo Cirrincione

Tel: + 39 091 6161606

Fax: + 39 091 6169999

Email: girolamo.cirrincione@unipa.it

Organised by :

Division of Medicinal Chemistry of the Italian Chemical Society (Società Chimica Italiana) (Italy)

19th EuroQ SAR Knowledge Enabled Ligand Design**August 26-30, 2012**

Vienna, Austria

www.euroqsar2012.org/

Contact: LD Organisation, Scientific Conference Producers

Tel: + 32 10 45 47 77

Fax: + 32 10 45 97 19

Email: secretariat@ldorganisation.com**EFMC Sponsored Session at the 4th EuCheMS Chemistry Congress****August 26-30, 2012**

Prague, Czech Republic

www.euchems-prague2012.cz

**XXIInd International Symposium
on Medicinal Chemistry (EFMC-ISMC)**

September 2-6, 2012

Berlin, Germany

www.ismc2012.org

Contact: LD Organisation, Scientific Conference Producers

Tel: + 32 10 45 47 74 - Fax: + 32 10 45 97 19

Email: secretariat@ismc2012.org

Organised by :

European Federation for Medicinal Chemistry (EFMC), Division of Medicinal Chemistry of the German Chemical Society (GDCh) (Germany), German Pharmaceutical Society, Section of Pharmaceutical/Medicinal Chemistry (Germany)

**Introduction to Quantitative Pharmacology
and PK/PD for Drug Discovery
& Development Scientists**

September 12-13, 2012

Munich, Germany

www.lakemedelsakademin.se/munich2012

Organised by :

Swedish Academy of Pharmaceutical Sciences (Sweden)

**Medicinal Chemistry Session at Fall Meeting
of the Swiss Chemical Society**

September 13, 2012

Zürich, Switzerland

www.swiss-chem-soc.ch/events/event.cfm?ID=213

Contact Person: Hans Peter Lüthi

Email: hans.luethi@phys.chem.ethz.ch

Organised by :

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

Vth Meeting on Medicinal Chemistry

September 13-15, 2012

Lublin, Poland

Contact Person: Katarzyna Kiec-Kononowicz

Email: mfkonono@cyf-kr.edu.pl

Organised by :

Polish Society of Medicinal Chemistry (Poland)

**4th RSC/SCI Symposium on GPCRs in Medicinal
Chemistry**

September 17-19, 2012

Surrey, UK

www.maggichurchoosevents.co.uk/BMCS/index.htm

Contact Person: Maggi Churchoose Events

Email: maggi@maggichurchoosevents.co.uk

Tel: + 44 (0)1359 221004

Fax: + 44 (0)1359 221004

Organised by :

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**Emerging Paradigms
in Anti-infective Drug Design**

September 18-19, 2012

London, UK

www.maggichurchoosevents.co.uk/BMCS/index.htm

Contact Person: Maggi Churchoose Events

Email: maggi@maggichurchoosevents.co.uk

Tel: + 44 (0)1359 221004

Fax: + 44 (0)1359 221004

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Dutch Medicine Days 2012

October 1-3, 2012
Lunteren, The Netherlands

www.figondmd.nl

Contact Person: Hein Coolen
Email: Hein.coolen@stagepharma.com

10th Swiss Course on Medicinal Chemistry

October 14-19, 2012
Leysin, Switzerland

www.swiss-chem-soc.ch/smc/leysin/leysin.html

Contact Person: Gabi Lichtenhahn
Tel: + 41 61 267 15 50
Email: Gabi.Lichtenhahn@unibas.ch

Organised by :
Division for Medicinal Chemistry (DMC),
Swiss Chemical Society (SCS) (Switzerland)

6th EFMC Short Course on Medicinal Chemistry
Improving Compound Quality: Physical Chemistry
and DMPK Properties in Drug Discovery.
Principles, Assays and Predictions

October 21-24, 2012
Oegstgeest (near Leiden), The Netherlands

www.ldorganisation.com

Contact: EFMC Administrative Secretariat
Tel: + 32 10 45 47 77 Fax: + 32 10 45 97 19
Email: administration@efmc.info

The 18th Intermediate Workshop on PK/PD Data
Analysis: A four-day Course Using WinNonlin

October 21-25, 2012
Rome, Italy

www.lakemedelsakademin.se/rome2012

Organised by :
Swedish Academy of Pharmaceutical Sciences
(Sweden)

21st LACDR School
on Medicinal Chemistry

Fall 2012
Oegstgeest (near Leiden), The Netherlands

Contact Person: Mrs Bea Dekker
Email: bdekker@lacdr.leidenuniv.nl
Tel: +31 71 5274341 - Fax: +31 71 5274277

Organised by:
Leiden/Amsterdam Center for Drug Research

Annual One-Day Meeting
on Medicinal Chemistry of SRC & KVCV

November 2012
Belgium

www.medchem.be

Organised by:
Medicinal and Bioorganic Chemistry Division of
Royal Flemish Chemical Society (KVCV) (Belgium)
and the Société Royale de Chimie (SRC),
Medicinal Chemistry Division (Belgium)

**3rd National Meeting
on Medicinal Chemistry**

November 28-30, 2012
Aveiro, Portugal

Contact Person: Rui Moreira
Email: rmoreira@ff.ul.pt

Organised by :
Group of Medicinal Chemistry of the Portuguese
Chemical Society (Portugal)

**XXIIIth International Symposium
on Medicinal Chemistry (EFMC-ISMC)**

September 7-11, 2014
Lisbon, Portugal

Contact : LD Organisation, Scientific Conference
Producers

Tel : + 32 10 45 47 74 Fax : +32 10 45 97 19
Email : secretariat@ldorganisation.com

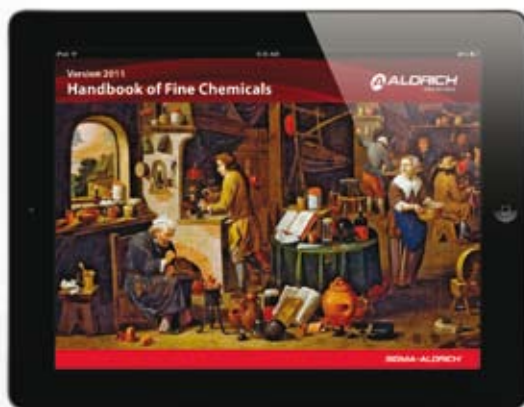
Organised by : the European Federation for
Medicinal Chemistry and the Group of Medicinal
Chemistry of the Portuguese Chemical Society



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EFMC
Short
Course

5th Short Course on Medicinal Chemistry

TARGET SELECTION THROUGH APPLICATION OF CHEMICAL AND SYSTEMS BIOLOGY

April 1-4, 2012

This intensive course is intended for scientists working in the field, and the presentations will be given by senior scientists from industry. The number of participants will be limited to 35, to favour in depth discussion.

Course Outline

In recent years drug discovery shifted from a traditional target-based approach towards phenotype and patient-based approaches. This course will discuss how systems biology contributes to a better understanding of human physiology and diseases (session I) and of the cellular biological systems behind (session II). This understanding is key for the discovery of novel drugs in order to address the right targets and biological mechanism. In addition experimental (and computational) approaches to target identification will be a topic (session III), which are key for de-convolution of the molecular target(s) of known drugs or of hits from phenotypic screens (e.g. chemical proteomics). The last session will then describe how 'omics data can be used to identify signatures of diseases (e.g. gene expression signature) and how these signatures can foster the understanding of a disease-phenotype. These disease signatures can be mapped to signatures of drugs for modern drug discovery. Each of the four sessions of the course will be introduced by an overview, followed by several case studies and some hands-on exercises using various modelling tools.

Course Organisers

Thomas Klabunde, *Sonofi-Aventis, DE*
Birgit Schoeberl, *Merrimack Pharma, USA*
Local Organiser
Henk Timmerman, *VU University Amsterdam, NL*

Deadline for preregistration

February 28, 2012

Venue

Castle "Oud Poelgeest", Oegstgeest
(near Leiden), The Netherlands
Airport: Schiphol, Amsterdam

Fee

€ 1375,00
Including accommodation, breakfast,
coffee breaks, lunches and dinners during
the days of the conference.

Contact

EFMC Administrative Secretariat
LD Organisation sprl
Scientific Conference Producers
Rue Michel de Ghelderode 33/2
1348 Louvain-la-Neuve, Belgium
Tel: +32 10 45 47 74 Fax: +32 10 45 97 19
Mail: administration@efmc.info
Web: www.efmc.info



**EUROPEAN FEDERATION
FOR MEDICINAL CHEMISTRY**

April 1-4, 2012
Oegstgeest (near Leiden), The Netherlands

Course Organisers
Birgit SCHOEBERL (Merrimack Pharmaceuticals, USA)
Thomas KLABUNDE (Sanofi-Aventis, Germany)

Additional Speakers:
Christina Friedrich (Rosa & Co, USA)
Julio Saez-Rodriguez (EBI, UK)
Uwe Rix
(H. LEE MOFFITT CANCER & RESEARCH INSTITUTE, USA)
Francesco Iorio
(EMBL-EBI & WELCOME TRUST SANGER INSTITUTE, UK)

Target Selection through Application of Chemical and Systems Biology

In recent years drug discovery shifted from a traditional target-based approach towards phenotype and patient-based approaches. This course will discuss how systems biology contributes to a better understanding of human physiology and diseases (session I) and of the cellular biological systems behind (session II). This understanding is key for the discovery of novel drugs in order to address the right targets and biological mechanism. In addition experimental (and computational) approaches to target identification will be a topic (session III), which are key for deconvolution of the molecular target(s) of known drugs or of hits from phenotypic screens (e.g. chemical proteomics). The last session will then describe how 'omics data can be used to identify signatures of diseases (e.g. gene expression signature) and how these signatures can foster the understanding of a disease-phenotype. These disease signatures can be mapped to signatures of drugs for modern drug discovery. Each of the four sessions of the course will be introduced by an overview, followed by several case studies and some hands-on exercises using various modelling tools.

Session I: How can modelling & simulation help to understand disease physiology? The

first session will cover what physiological and disease modelling is and how it can help to understand (disease) physiology. Case studies will be given how disease and physiological modelling can support the understanding of human (patho)physiology and can be used to foster the discovery of novel therapeutic approaches. The first session of the course will end with a work-shop on mechanistic physiological models for use in pharmaceutical discovery and development to provide some hands-on experiences with modelling software (e.g. JDesigner).

Session II: How can molecular mechanistic modelling help to find new targets? Whereas the first session is focussing on modelling of physiological processes (e.g. the interplay of the organs), molecular mechanistic modelling – the topic of this session – captures the processes occurring on the (intra)cellular level. After having looked into (disease) physiology in the first session of the course, in this session we will take a magnification glass to see what is happening within the cell. Case studies will be given of how these models can be used to identify or validate molecular targets. At the end of the session some more detailed technical insights will be provided into various modelling approaches of cellular

systems (e.g. biochemical modelling based on differential equations and logic-based modelling). We will discuss advantages and disadvantages of the different formalisms, and finally some practical exercises introducing to tools like Copasi, Matlab and/or CellNOpt will be given.

Session III: Within recent years drug discovery is moving from target-based approaches using single enzyme or cell-based screenings towards phenotypic screening of (patho) physiologically relevant (primary) cells. This can be explained by the limited success of target-based approaches and by the discovery that several successful drugs often modulate an orchestra of different targets. Within this session experimental (and computational) approaches to target identification will be discussed, which are key for de-convolution of the molecular target(s) of known drugs or for finding the molecular basis for the activity of hits from phenotypic screens (e.g. chemical proteomics). At the end of the session some approaches and tools will be presented that allow predictions of putative molecular targets of compounds based on the information of their chemical structure (e.g. SEA approach).

Session IV: A significant number of recent studies wink at the idea that every biological state can be described by a proper gene expression signature: a well defined set of genes together with a pattern of expression that is exclusively linked to it. In this scenario DNA-microarray technology can be deemed as the natural language through which these “biological-state-summaries” can be generated. By making use of novel non-parametric genome-wide metrics it has been possible to “connect” drugs, genes and diseases by simply comparing the corresponding gene-expression signatures. As a consequence, several approaches have

been proposed to exploit the massive amount of publicly available gene-expression data for computational “drug re-purposing” by using a “guilt-by-association” approach (i.e. if two drugs elicit a “similar” transcriptional response then they could share a therapeutic application) or by measuring the extent of “anti-similarity” between drug- and disease-signature (i.e. if a drug is able to revert a phenotype signature then it could be able to “revert the phenotype” as well). On the same time more rationale approaches have been recently designed to extract important features from expression signatures, to “finger-print” patients in order to detect the activity of crucial biological pathways and to correlate these measurements with clinicopathological features. In this session we will review some of the introduced methods by discussing successful study cases and tutoring the use of publicly available tools.

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Europe**





EFMC
Short
Course

Course Organisers

Kevin Beaumont, *Pfizer, USA*

Local Organiser

Henk Timmerman, *VU University Amsterdam, NL*

Deadline for preregistration

September 15, 2012

Venue

Castle "Oud Poelgeest", Oegstgeest
(near Leiden), The Netherlands
Airport: Schiphol, Amsterdam

Fee

€ 1375,00

Including accommodation, breakfast,
coffee breaks, lunches and dinners
during the days of the conference.

Contact

EFMC Administrative Secretariat
LD Organisation sprl
Scientific Conference Producers
Rue Michel de Ghelderode 33/2
1348 Louvain-la-Neuve, Belgium
Tel: +32 10 45 47 74
Fax: +32 10 45 97 19
Mail: administration@efmc.info
Web: www.efmc.info

6th Short Course on Medicinal Chemistry

IMPROVING COMPOUND QUALITY: PHYSICAL CHEMISTRY AND DMPK PROPERTIES IN DRUG DISCOVERY. PRINCIPLES, ASSAYS AND PREDICTIONS

October 21-24, 2012

This intensive course is intended for scientists working in the field, and the presentations will be given by senior scientists from industry. The number of participants will be limited to 35, to favour in depth discussion.

Course Outline

In modern drug discovery, it is important that the Medicinal Chemist understands how to balance potency and ADME properties in order to provide high quality compounds for progression to clinical studies. This short course will be a mixture of talks and worked exercises designed to further the understanding of DMPK.

The course will include: Outlines of the key DMPK in vitro assays: physico-chemistry for ADME; Oral drug absorption; Fundamentals of drug distribution; drug metabolizing enzymes; drug transport proteins; basic PK principles and human PK prediction; PKPD relationships.



**EUROPEAN FEDERATION
FOR MEDICINAL CHEMISTRY**

October 21-24, 2012
Oegstgeest (near Leiden), The Netherlands

Course Organiser
Kevin Beaumont (Pfizer, US)

Improving Compound Quality: Physical Chemistry and DMPK Properties in Drug Discovery. Principles, Assays and Predictions

The vast majority of drugs are delivered by routes that are remote from their sites of action. Thus, in order to be effective, compounds must move from the site of administration to the site of their target, avoiding a number of barriers to drug passage. Once at the target, it is also important that a drug remains there long enough to exert its pharmacological effect. This defines the dose regimen of the drug. The physicochemical and DMPK properties of a compound will often define how it will overcome barriers to drug delivery as well as the duration of action of the drug.

An early review of drug development compound attrition highlighted inappropriate human pharmacokinetics as a key attrition risk. Up to 40% of compounds selected for clinical development were not passing the human pharmacokinetics set out in the project objectives. This included limited drug exposure due to poor oral absorption and bioavailability as well as short elimination phase half-life values leading to unacceptable dose regimens. Analysis showed that the majority of these compounds were optimized based on potency, leading to molecules with significant size and lipophilicity. It was reasoned that consideration of ADME properties into compound optimization would

reduce human pharmacokinetic attrition. Subsequently, DMPK expertise has become a crucial component of the compound optimization and selection process, and compound loss due to inappropriate human pharmacokinetics has fallen.

In modern drug discovery, it is important that the Medicinal Chemist understands how to balance potency and ADME properties in order to provide high quality compounds for progression to clinical studies.

The application of DMPK expertise into compound optimization and selection is based on the following key aspects and assays:

- 1) A thorough understanding of the effect of physicochemistry on drug disposition as it relates to oral absorption, drug distribution and clearance.
- 2) A strong background understanding of the enzymes and transporters that determine drug disposition. In addition, a feel for the SAR of such drug metabolizing enzymes and transporters.

- 3) An array of *in silico*, *in vitro* and *in vivo* assays that aim to understand pharmacokinetic behavior in animals and humans.
- 4) Methodologies to predict the pharmacokinetics and pharmacodynamics of a compound in humans from preclinically available information.
- 4) Fundamentals of drug distribution, including plasma protein binding, the 'free drug' hypothesis and CNS penetration.
- 5) Overview of the array of drug metabolizing enzymes and their role in drug elimination and excretion.

This course will cover the fundamentals of DMPK that a Medicinal Chemist needs to understand in order to efficiently incorporate ADME properties into compound optimization and selection. The course will include in presentations and tutorials on key aspects of the use of DMPK including:

- 1) Outlines of the key *in vitro* assays available to optimize compounds in terms of oral absorption, drug distribution and rate of metabolism. Additionally, an understanding of assays to address key safety issues such as drug-drug interactions will be provided.
- 2) An in depth examination of the influence of physicochemistry (Log P, Log D_{7.4}, MW, TPSA etc) on drug disposition, including optimal properties for oral drug absorption, membrane permeation and drug metabolism.
- 3) Description of the physiology of the human body to understand the barriers to oral drug delivery, including dissolution in the gastrointestinal tract fluid, crossing the gastrointestinal tract wall and avoiding hepatic first-pass extraction.
- 6) A review of the emerging science of drug transport proteins and their effects on drug disposition, including absorption, distribution and clearance.
- 7) Basic pharmacokinetic principles (half-life, clearance, volume of distribution, oral bioavailability) and prediction to human from *in vitro* and *in vivo* preclinical information.
- 8) How to relate pharmacology at the drug target to the time course of effect and prediction of clinical dose (Pharmacokinetic/Pharmacodynamic relationships).

At the end of this intensive 2.5 day course, the attending medicinal chemists should have gained an understanding of the key aspects of DMPK required to work effectively in compound optimization and selection. They will leave with a common drug metabolism language that should enhance their partnerships with DMPK colleagues in the drug discovery process.



MERCACHEM

Mercachem is a leading European CRO for organic chemistry, medicinal chemistry and early process research. Our modern, state-of-the-art laboratory facilities are located in Nijmegen, the Netherlands. Founded in 1997, Mercachem employs 115 people, almost 50% of whom hold post-graduate degrees in chemistry.

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- Synthesis of complex 3-dimensional molecules
- Target family centric libraries
- Integrated medicinal chemistry projects
- Unbiased catalyst screening

Mercachem is a dynamic and flexible organization with high standards of quality and efficiency, creative people with a problem-solving mindset and outstanding communication.

For more information, please contact us.

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Kerkenbos 1013 | 6546 BB Nijmegen
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(German Chemical Society)
Continuing Education
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GERMANY

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Fax: +49 69 79 17-475
E-Mail: fb@gdch.de

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Technical English for Laboratory Personnel in Industry – For the Chemical Industries, Pharma/Life Science, Food/Personal Care & Medical Sector (973/12)

March 6 – 7, 2012, Steven L. Hanft, M.A.,
Frankfurt/Main

Principles of Electrochemistry – Fundamental and application of electrochemical methods (806/12)

March 12 – 13, 2012, Dr. Andrea Balducci,
Frankfurt/Main

Environmental Risk Assessment of Veterinary Medicinal Products – Legal Requirements and Regulatory Needs (193/12)

April 25 – 26, 2012, Dr. Christoph Schlüter,
Dr. Gerd Maack, Dessau

Incoherent Light Sources – From Black Body Radiators to Luminescent Semiconductors (802/12)

September 24 – 25, 2012,
Prof. Dr. Thomas Jüstel, Frankfurt/Main

Downstream Bioprocessing – Expanded Bed Adsorption in the Downstream processing of bioproducts (174/12)

October 22 – 24, 2012, Prof. Dr. Marcelo Fernández-Lahore, Dr. Sonja Diercks-Horn,
Bremen

High-Performance Thin-Layer Chromatography Mass Spectrometry (HPTLC-MS) – In Cooperation with the University of Hohenheim (335/12)

November 14, 2012, Prof. Dr. Gertrud Morlock,
Stuttgart

Electrochemical energy storage devices – An overview on materials, devices and applications (807/12)

November 19 – 20, 2012, Dr. Andrea Balducci,
Frankfurt/Main

Chemical Development and Scale-Up in the Fine Chemical and Pharmaceutical Industries (907/12)

November 27 – 29, 2012, Dr. Will Watson,
Dr. Derek Robinson, Frankfurt/Main

Austria	Austrian Chemical Society, Medicinal Chemistry Section
Belgium	Royal Flemish Chemical Society (KVCV), Medicinal and Bioorganic Chemistry Division Société Royale de Chimie (SRC), Medicinal Chemistry Division
Croatia	Croatian Chemical Society, Medicinal Chemistry Section
Denmark	The Danish Society for Pharmacology, Toxicology and Medicinal Chemistry
Finland	Finnish Pharmaceutical Society
France	Société de Chimie Thérapeutique (SCT)
Germany	Division of Medicinal Chemistry of the German Chemical Society (GDCh) German Pharmaceutical Society, Section of Pharmaceutical/Medicinal Chemistry (DPhG)
Greece	Hellenic Society of Medicinal Chemistry
Hungary	Organic and Medicinal Chemistry Division (OMCD) of the Hungarian Chemical Society (HCS)
Israel	The Medicinal Chemistry Section of the Israel Chemical Society
Italy	Division of Medicinal Chemistry of the Italian Chemical Society (Società Chimica Italiana)
Latvia	Latvian Association for Medicinal Chemistry
The Netherlands	Section Medicinal Chemistry, Royal Netherlands Chemical Society (KNCV)
Poland	Polish Society of Medicinal Chemistry
Portugal	Group of Medicinal Chemistry of the Portuguese Chemical Society
Russia	The D.I. Mendeleev Russian Chemical Society, Medicinal Chemistry Section
Serbia	Serbian Chemical Society, Division of Medicinal Chemistry
Slovenia	Section for Medicinal Chemistry of the Slovenian Pharmaceutical Society
Spain	Sociedad Española de Química Terapéutica
Sweden	The Swedish Academy of Pharmaceutical Sciences
Switzerland	Division for Medicinal Chemistry (DMC), Swiss Chemical Society (SCS)
Turkey	Turkish Association of Medicinal and Pharmaceutical Chemistry
United Kingdom	The Biological and Medicinal Chemistry Sector (BMCS) of the Royal Society of Chemistry (RSC)

AUSTRIA

Austrian Chemical Society, Medicinal Chemistry Section



Mission	To foster Medicinal Chemistry in Austria by jointly organising and hosting national and international summer schools, minisymposia and workshops together with the Austrian Pharmaceutical Society.
Founded	1999
Members	100
Member profile	Trade and Industry: 27% Research Institute and University: 46% Others: 27%
Postal address	Nibelungengasse 11/6 1010 Vienna Austria
Telephone	+43-1-587-42-49 or +43-1-587-39-80
Fax	+43-1-587-89-66
E-mail	office@GOECH.at
Website	www.goech.at
President	Ao. Univ. Prof. Dipl.-Ing. Dr techn. Marko MIHOVILOVIC (TU Vienna)
EFMC-Delegate	Prof. Dr Gerhard PUERSTINGER (Universität Innsbruck)
NAO Secretariat	Mrs Gabriela EBNER (Austrian Chemical Society)



Medicinal and Bioorganic Chemistry Division of the Royal Flemish Chemical Society (KVCV)

43

Organisation of symposia and activities, promotion of contacts between industry and academia, promotion of contacts with other national and international organisations.

Mission

2002
120

**Founded
Members**

Celestijnenlaan 200F
3001 Herverlee
Belgium

Postal address

+32-16-29-32-14
+32-16-22-68-92

**Telephone
Fax**

info@kvcv.be
<http://med-bio-organ.kvcv.be/>

**E-mail
Website**

Every 2 years the J&J PRD award for Medicinal Chemistry is given to an outstanding PH.D. thesis in the field.

Activities

- **Annual One-Day Meeting on Medicinal Chemistry of SRC & KVCV**
(November 2012), Belgium

Prof. Dr Koen AUGUSTYNS
(Universiteit Antwerpen)

President

Dr Peter TEN HOLTE
(J&J PRD)

Secretary

Prof. Dr Serge VAN CALENBERGH
(Universiteit Gent)

EFMC-Delegate

KVCV
(Medicinal and Bioorganic Chemistry Division)

NAO Secretariat

BELGIUM (SRC)

Société Royale de Chimie (SRC) Medicinal Chemistry Division



Mission 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.

Founded 1973
Members 130

Postal address ULB, CP 160/07
Avenue F. Roosevelt, 50
1050 Bruxelles
Belgium

Telephone +32-2-650-52-08
Fax +32-2-650-51-84

E-mail src@ulb.ac.be
Website www.src.be

Activities • **Annual One-Day Meeting on Medicinal Chemistry of SRC & KVCV** (November 2012), Belgium

The MCD co-organises jointly with KVCV this Symposium aimed at updating interested participants on particularly rapidly evolving areas of pharmaceutical research, by specialists in their respective field.

The MCD confers, every 2 years, the «Johnson and Johnson Pharmaceutical Research and Development Award for Young Medicinal Chemists» to acknowledge an outstanding Ph.D. thesis work.

President Dr Edmond DIFFERDING
(Differding Consulting s.p.r.l.)

EFMC-Delegate Dr Edmond DIFFERDING
(Differding Consulting s.p.r.l.)

NAO Secretariat SRC
(Medicinal Chemistry Division)



Croatian Chemical Society, Section of Medicinal / Pharmaceutical Chemistry

Develop and promote scientific, professional and educational activities in the field of medicinal chemistry.

- 1) Improve visibility of the science of medicinal chemistry by building stronger connections and cooperation between members who pursue this discipline
- 2) Promote and improve cooperation between Croatian Chemical Society, Industry and Academia (in advancing the science of medicinal chemistry)
- 3) Build strong links, cooperations and networking with European (EFMC) medicinal chemistry sections/related scientific organisations and their members

Mission

2009 (Croatian Chemical Society was founded in 1926)

Founded

80

Members

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

Member profile

Horvatovac 102a
HR-10000 Zagreb Croatia

Postal address

+385 (0)1 460 6164
+385 (0)1 460 6131

Telephone Fax

tajnistvo@hkd.hr
www.hkd.hr

E-mail Website

Section meetings/workshops/lectures/discussions/forums

Activities

Prof. Dr Vitomir SUNJIC
(Chirallica)

President

Dr Tajana PREOCANIN / Ms Nada TRAJKOV
(Croatian Chemical Society)

Secretary/Treasurer

Dr Ivica MALNAR
(Galapagos)

EFMC-Delegate

DENMARK



The Danish Society of Pharmacology, Toxicology and Medicinal Chemistry

Mission	To advance the development of Pharmacology, Toxicology and medicinal chemistry.
Members	300 members total, 80 in medchem section.
Member profile	Trade and Industry: 50% Research Institute and University: 50%
Postal address	DSFTM, att: Lennart Bunch Department of Medicinal Chemistry Faculty of Pharmaceutical Sciences Universitetsparken 22100 Copenhagen OE Denmark
Telephone	+45 35-33-62-44
Fax	+45 35-33-60-41
E-mail	info@dsftm.dk
Website	www.dsftm.dk
Activities	5-10 yearly seminars on current topics in pharmacology, toxicology and medicinal chemistry. • DSFTM Annual Meeting 2012 (May 30-31, 2012), Copenhagen, Denmark.
President	Prof. Dr Lennart BUNCH (University of Copenhagen)
Secretary	Prof. Mette M. ROSENKILDE (University of Copenhagen)
EFMC-Delegate	Prof. Dr Lennart BUNCH (University of Copenhagen)
NAO Secretariat	Inger Marie BRO (Danish Society of Pharmacology, Toxicology and Medicinal Chemistry)



FINLAND

Finnish Pharmaceutical Society

47

NATIONAL ADHERING ORGANISATIONS

The Finnish Pharmaceutical Society promotes and supports pharmaceutical sciences in Finland. The society arranges symposia, courses, seminars and discussions concerning recent developments in the area of pharmaceutical research and other current topics related to the field. The society also allocates grants and awards for individual researchers and it is actively cooperating with other national and international societies working in the same area.

Mission

1887
320 of which 35 are members
of the medicinal chemistry group

Founded Members

Fredrikinkatu 61
00100 Helsinki
Finland

Postal address

+358-(0)9-19159190
erik.wallén@helsinki.fi
<http://pro.tsv.fi/finpharmsociety/index.htm>

Telephone E-mail Website

- Symposia (co-organizer of Helsinki Drug Research, FinMedchem, BBBB and PharmSciFair symposia), courses, seminars and discussions
- Grants and awards (Albert Wuokko Award)
- Participation in Federation of Finnish Learned Societies, EFMC and EUFEPS platforms

Activities

Dr Tom WIKBERG
(Finnish Medicines Agency)

President

Dr Leena PELTONEN
(University of Helsinki)

Secretary

Dr Erik WALLÉN
(University of Helsinki)

EFMC-Delegate



Mission	To gather medicinal chemists in order to promote progress in Medicinal Chemistry by organising meetings, distributing awards and grants, encouraging junior scientists and publishing medicinal chemistry journals or series.
Founded	1966
Members	302
Member profile	Trade and Industry: 17% Research Institute: 8% University: 70% Other: 5%
Postal address	Centre d'Etudes Pharmaceutiques 5, rue Jean-Baptiste Clément 92296 Chatenay-Malabry, France
Telephone	+33-1-46-835-684
Fax	+33-1-46-835-323
E-mail - Website	sct@sct-asso.fr - www.sct-asso.fr
Activities	<p>Organisation of meetings and conferences:</p> <ul style="list-style-type: none"> • Young Research Scientists Meeting (February 2-3, 2012), Romainville, France • Joint Meeting SCT-SCF-ANP (March 6, 2012), Paris, France • RICT 2012: 48th International Conference on Medicinal Chemistry (July 4-6, 2012), Poitiers, France <p>Awards:</p> <p>Prix Charles Mentzer, rewarding a fruitful career in Medicinal Chemistry (every two-year).</p> <p>Prix d'encouragement à la recherche en Chimie Thérapeutique, for junior scientists (every year).</p> <p>Paul Ehrlich Lecture, attributed every year during the annual meeting.</p> <p>Prix de la vocation en Chimie Thérapeutique, attributed to students during RICT.</p> <p>Publishing activities:</p> <p>Scientific editing of The European Journal of Medicinal Chemistry, Elsevier, 1 issue per month.</p>
President	Dr Robert DODD (CNRS)
Secretary	Prof. Dr Hervé GALONS (Université René Descartes)
EFMC-Delegate	Dr TERENCE BEGHYN (Université Lille 2)

GERMANY (GDCh)



Division of Medicinal Chemistry of the German Chemical Society (GDCh)

49

NATIONAL ADHERING ORGANISATIONS

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.

Mission

1971 at Karlsruhe, Germany
800

Founded Members

Trade and Industry: 60%
Research Institute and University: 35%
Other: 5%

Member profile

Varrentrappstr. 40-42
60486 Frankfurt am Main,
Germany

Postal address

+49-69-7917-363
+49-69-7917-1363

Telephone Fax

u.Bechler@gdch.de
www.gdch.de/medchem.be

E-mail Website

Annual meetings, interdisciplinary symposia,
scientific publications, award.

Activities

- XXIInd International Symposium on Medicinal Chemistry
(September 2-6, 2012), Berlin, Germany

Dr Eckhard OTTOW
(Bayer)

President

Dr Jürgen MACK
(Boehringer Ingelheim Pharma)

EFMC-Delegate

GDCh
(Division of Medicinal Chemistry)

NAO Secretariat

GERMANY (DPhG)


 DPhG

German Pharmaceutical Society, Section of Pharmaceutical/Medicinal Chemistry

Mission	To foster the whole area of Medicinal Chemistry in University and Pharmaceutical Industry by annual meetings, awards and activities related to the education in Medicinal Chemistry.
Founded	1985
Members	679
Member profile	Trade and Industry: 20% University: 60% Others: 20%
Postal address	Hamburger Allee 26-28 60486 Frankfurt am Main Germany
Telephone	+49-69-7191596-0
Fax	+49-69-7191596-29
E-mail	info@dphg.de
Website	www.dphg.de
Activities	Annual awards in Medicinal Chemistry (Germany), co-operations with other organisations, support of the education in Medicinal Chemistry, annual meetings. • XXII nd International Symposium on Medicinal Chemistry (September 2-6, 2012), Berlin, Germany
President	Prof. Dr Peter GMEINER (Universität Erlangen-Nürnberg)
EFMC-Delegate	Prof. Dr Bernd CLEMENT (Universität Kiel)
NAO Secretariat	DPhG (Section of Pharmaceutical/Medicinal Chemistry)



Advancement of research in Medicinal Chemistry and Drug Design,
promotion of cooperation between scientists of related fields
and consulting on relevant subjects.

Mission

1980

Founded

107

Members

Trade and Industry: 20%

Research Institute: 30%

University: 40%

Other: 10%

Member profile

School of Pharmacy

Postal address

Department of Pharmaceutical Chemistry

University of Athens

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Greece

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Telephone

+30-210-7274-747

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tsantili@pharm.uoa.gr, snikolar@upatras.gr

E-mailWebsite <http://www.hsmc.gr/>**Website**

Symposia, seminars, consulting, supporting young researchers.

Activities**• Hellenic Symposium on Medicinal Chemistry**

(May 25-27, 2012), Athens, Greece

Prof. Dr Anna TSANTILI-KAKOULIDOU

President

(University of Athens)

Dr Manolis FOUSTERIS

Secretary

(University of Patras)

Dr John PIRMETTIS

Treasurer

(National Centre for Scientific Research "Demokritos")

Prof. Dr Anna TSANTILI-KAKOULIDOU

EFMC-Delegate

(University of Athens)

HUNGARY



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

Mission	The dissemination of results and particularly of new trends in Organic and Medicinal Chemistry among Hungarian scientists.
Founded	1907 (HCS)
Members	300 (Medicinal Chemistry oriented members of the OMCD)
Member profile	Trade and Industry: 40% Research Institute: 20% University: 30% Others: 10%
Postal address	Hattyú u. 16 HU-1015 Budapest Hungary
Telephone	+36-1-201-6883
Fax	+36-1-201-8056
E-mail	mail@mke.org.hu
Website	www.mke.org.hu
Activities	Regular organisation of conferences, seminars and lectures in various fields of Medicinal Chemistry.
President	Ass. Prof. Dr János WÖLFLING (University of Szeged)
EFMC-Delegate	Ass. Prof. Dr János WÖLFLING (University of Szeged)
NAO Secretariat	HCS (Organic and Medicinal Chemistry Division (OMCD))

**The Medicinal Chemistry Section
of the Israel Chemical Society**

To organise 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. The Association is open for membership to molecular biologists, pharmacologists and pharmacists.

Mission

1991, 2004 - united with the Israely Association for Medicinal Chemistry

**Founded
Members**

Trade and Industry: 35%
Research Institute and University: 60%
Other: 5%

Member profile

Dr. Raphael Nudelman
Non-Clinical Safety Department
Teva Pharmaceutical Industries Ltd.
12 Haterufa St., P.O. Box 8077
42504 Netanya Israel

Postal address

+972-39166142, cell: +972-54-8886119
+972-39166361

**Telephone
Fax**

Raphael.nudelman@teva.co.il
www.iamc.chemistry.org.il

**E-mail
Website**

The Association holds symposia and annual scientific meetings. Promotion of symposia on new vistas in drug research and workshops on progress in instrumental drug analysis in collaboration with partner societies in the EU, and representation of the Association at the EFMC and related international bodies.

Activities

- **1st Israeli-UK Medicinal Chemistry Conference**
(April 22-23, 2012), Rehovot, Israel

Dr Raphael NUDELMAN (Teva Pharmaceutical Industries)

President

Dr Arie Lev GRUZMAN (Bar-Ilan University)

Vice-President

Dr Raphael NUDELMAN (Teva Pharmaceutical Industries)

EFMC-Delegate

Dr Masha NIV (The Hebrew University of Jerusalem)

NAO Secretariat



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

Mission	To improve Medicinal Chemistry in academia and industry by promoting contacts and collaboration between researchers working in this and related fields with the aim to propose and develop projects to advance Medicinal Chemistry; to organise national and international meetings, interdisciplinary symposia and advanced schools to spread knowledge in drug development; to distribute awards and grants that encourage junior scientists to pursue research in Medicinal Chemistry; to cooperate with similar associations in the country and abroad.
Founded	1979
Members	600
Member profile	Trade and Industry: 13%, Research Institute: 5,5% , University: 81% Other: 0,5%
Postal address	Divisione di Chimica Farmaceutica University of Pisa - Dipartimento di Scienze Farmaceutiche Via Bonanno 6 - 56126 Pisa Italy
Telephone	+ 39-050-2219561
Fax	+ 39-050-2219605
E-mail	fsettimo@farm.unipi.it
Website	http://dcf.frm.uniroma1.it/cgi-bin/home.pl
Activities	<ul style="list-style-type: none"> • XI Laboratory of Synthetic Metodologies in Medicinal Chemistry (February 13-17, 2012), Siena, Italy • VI Nuove Prospettive in Chimica Farmaceutica (NPCF 6) (April 15-17, 2012), Rimini, Italy • Summer School on Pharmaceutical Analysis SSPA (June 10-13, 2012), Rimini, Italy • 32nd Edition of the European School of Medicinal Chemistry (ESMEC) - EFMC Accredited School (July 2-6, 2012), Urbino, Italy • 21st National Meeting on Medicinal Chemistry NMMC 2012 (July 17-20, 2012), Palermo, Sicily
President	Prof. Federico DA SETTIMO (Università di Pisa)
Secretary	Prof. Ersilia DE LORENZI (Università di Pavia)
Treasurer	Prof. Gabriele COSTANTINO (Università degli Studi di Parma)
EFMC - Delegate	Prof. Federico DA SETTIMO (Università di Pisa)



LATVIA

Latvian Association for Medicinal Chemistry

55

NATIONAL ADHERING ORGANISATIONS

1992 **Founded**
12 **Members**

Research Institute and University: 83% **Member profile**
Other: 17%

Latvian University **Postal address**
Institute of Microbiology and Biotechnology
4-402 Kronvalda Boulevard
LV-1586 Riga
Latvia

+371 7034890 **Telephone**
+371 7323065 **Fax**

vina@lanet.lv **E-mail**

Promotion of medicinal chemistry **Activities**

Dr Ilmara VINA **President**
(Latvian University)

Prof. Dr Gunars DUBURS **EFMC-Delegate**
(Latvian Institute of Organic Synthesis)

THE NETHERLANDS



Section Medicinal Chemistry, Royal Netherlands Chemical Society (KNCV)

Mission	To promote scientific research and education in the area of Medicinal Chemistry. 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 organise meetings in the field.
Founded	28 th August 1970
Members	350 (including student members)
Member profile	Trade & Industry: 20% Research Institute: 10% University: 40% Other: 30%
Postal address	Dr J.C.H.M. WIJKMANS MSD Department of Medicinal Chemistry, Room RK 3111 P.O. Box 20 - 5340 BH Oss The Netherlands
Telephone	+31-412-665464
Fax	+31-412-662546
E-mail	jac.wijkmans@spcorp.com
Website	www.kncv.nl
Activities	<ul style="list-style-type: none"> • Spring Symposium: Pharmacochimistry in Changing Pharma (March 30, 2012), Utrecht, The Netherlands • 30th Noordwijkerhout-Cyprus-Camerino Symposium (May 13-17, 2012), Amsterdam, The Netherlands • Dutch Medicine Days 2012 (October 1-3, 2012), Lunteren, The Netherlands
President	Prof. Dr A.P. IJZERMAN (Medicinal Chemistry / LACDR)
Secretary	Dr J.C.H.M. WIJKMANS (MSD)
Treasurer	Dr Pieter SMID (Abbott)
EFMC-Delegate	Prof. Dr Henk TIMMERMAN (Vrije Universiteit Amsterdam / LACDR)



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

Mission

2006
50

**Founded
Members**

Jagiellonian University
Medical College, Pharmacy Faculty
Medyczna 9
30-688 Kraków
Poland

Postal address

+48 12 620 55 81; +48 12 620 55 80
+48 12 620 55 96

**Telephone
Fax**

ptchm@ptchm.pl
www.ptchm.pl

**E-mail
Website**

- Organisation of meetings where various theoretical and practical topics of drug research and development are discussed.
- Participation in organisation of national and international conferences on Medicinal Chemistry.
- Propagation of news and information on Medicinal Chemistry activity in the scientific society interested in Medicinal Chemistry.

Activities

• **Vth Meeting on Medicinal Chemistry**
(September 13-15, 2012), Lublin, Poland

Executive Committee

Prof. Dr Andrzej BOJARSKI
Prof. Dr Janina KAROLAK-WOJCIECHOWSKA
Prof. Dr Katarzyna KIEC-KONONOWICZ
Prof. Dr Dariusz MATOSIUK
Dr Marek ZYLEWSKI

Prof. Dr Katarzyna KIEC-KONONOWICZ
(Jagiellonian University)

EFMC-Delegate

PORTUGAL



Group of Medicinal Chemistry of the Portuguese Chemical Society

Mission To diffuse the knowledge of Medicinal Chemistry. To foster interdisciplinary bridges between Chemistry, Biology, Medicine and Pharmacy. To encourage research among young students. To promote the interaction between medicinal chemists in academia and professionals in industry.

Founded 2007
Members 239

Postal address Sociedade Portuguesa de Química
Av. da República, 37-40
1050-187 Lisboa
Portugal

Telephone +351 21 793 4637
Fax +351 21 795 2349

E-mail sede@spq.pt
Website www.spq.pt

Activities

- Assisting and promoting regular courses in Medicinal Chemistry targeted for (undergraduated and postgraduated) students.
- Organisation of short meetings and seminars on recent advances in the area of Medicinal Chemistry. A National Meeting in Medicinal Chemistry is planned in each two years (first in 2008).

• **3th National Meeting on Medicinal Chemistry**
(November 28-30, 2012), Aveiro, Portugal

President Prof. Dr Rui MOREIRA
(University of Lisbon)

EFMC-Delegate Prof. Dr Rui MOREIRA
(University of Lisbon)

NAO Secretariat PCS
(Group of Medicinal Chemistry)

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

Education in Medicinal Chemistry.
Organisation of regular scientific seminars.

Mission

2000
150

**Founded
Members**

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

Member profile

RU-119899 Moscow
Russia

Postal address

+ 7 095 939 1620
+ 7 095 939 0290

**Telephone
Fax**

zefirov@org.chem.msu.ru

E-mail

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

Prof. Dr Nikolay S. ZEFIROV
(Moscow State University)

President

Prof. Sergey BACHURIN
(Institute of Physiologically Active Compounds)

Vice-President

Prof. Dr Nikolay S. ZEFIROV
(Moscow State University)

EFMC-Delegate

SERBIA

Serbian Chemical Society, Division of Medicinal Chemistry



Mission	To establish communication and co-operation between academia and industry, promote scientific research and education in the area of Medicinal Chemistry and encourage research among young students through meetings, seminars and workshops.
Member profile	Industry 6% Research Institute and University 86% Others 4%
Postal address	Karnegijeva 4 11120 Belgrade Serbia
Telephone	+381-11-3370-467
Fax	+381-11-3370-467
E-mail	SHDOffice@tmf.bg.ac.rs
Website	www.shd.org.rs
Activities	Promotion of Medicinal Chemistry by academy-industry interaction, co-operations with other organisations and support of the education in Medicinal Chemistry. <ul style="list-style-type: none"> • Teacher's days (April 2012), Belgrade, Serbia • ICOSECS 8 - 8th International Conference of the Chemical Societies of the South-Eastern European Countries (June - July 2012), Belgrade, Serbia
President	Prof. Dr Miroslav J. GASIC (Serbian Academy of Sciences and Arts)
Secretary	Prof. Dr Dragana MILIC (Faculty of Chemistry University of Belgrade)
EFMC-Delegate	Prof. Dr Miroslav J. GASIC (Serbian Academy of Sciences and Arts)



Section for Medicinal Chemistry of the Slovenian Pharmaceutical Society

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 organising 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.

Mission

23 February 2004
28

**Founded
Members**

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

Member profile

University of Ljubljana
Faculty of Pharmacy
Aškerceva 7
1000 Ljubljana
Slovenia

Postal address

+386 1 4769561
+386 1 4258031

**Telephone
Fax**

danijel.kikelj@ffa.uni-lj.si
www.sfd.si

**E-mail
Website**

- **2nd Meeting of the Paul Ehrlich MedChem Euro-PhD Network**
Ljubljana, Slovenia

Activities

Dr Lucija PETERLIN MAŠIČ
(University of Ljubljana)

President

Prof. Dr Danijel KIKELJ
(University of Ljubljana)

EFMC-Delegate

SPAIN

Sociedad Española de Química Terapéutica



Mission	To assist in the development and improvement of research and training in the different areas of Medicinal Chemistry throughout Spain.
Founded	1977
Members	400
Member profile	Trade & Industry: 25% Research Institute: 30% University: 35% Other: 10%
Postal address	Juan de la Cierva,3 28006 Madrid Spain
Telephone - Fax	+34 91 56 22 900 - +34 91 56 44 853
E-mail - Website	seqt@iqm.csic.es - www.seqt.org
Activities	Supporting the participation of young researchers at meetings and other educational events. Organising symposia on topics related with research and education towards the discovery of new drugs. Sponsoring the Spanish Society of Medicinal Chemistry Award. Administrating seven Awards addressed to young scientists to acknowledge outstanding research in the field of Medicinal Chemistry.
President	Dr Antoni TORRENS (Esteve Química)
Secretary	Mrs Ana CASTRO MORERA (IQM-CSIC)
Treasurer	Dr. Ana Rosa SAN FÉLIX GARCÍA (IQM-CSIC)
EFMC-Delegate	Dr Antoni TORRENS (Esteve Química)
NAO Secretariat	SEQT (Sociedad Española de Química Terapéutica)



SWEDEN

The Swedish Academy of Pharmaceutical Sciences Section for Medicinal Chemistry

63

NATIONAL ADHERING ORGANISATIONS

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

Mission

1972
276

Founded Members

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

Member profile

Wallingatan 26A
SE Stockholm
Sweden

Postal address

+46 8 723 50 00
+46 8 20 55 11

Telephone Fax

Goran.Lidgren@lakemedelsakademin.se
www.swepharm.se

E-mail Website

- The fourteenth advanced level workshop on PK/PD data analysis: A hands-on residential course using Phoenix WinNonlin (May 13-17, 2012), Cambridge, UK
- Introduction to Quantitative Pharmacology and PK/PD for Drug Discovery & Development Scientists (September 12-13, 2012), Munich, Germany
- The 18th Intermediate Workshop on PK/PD Data Analysis: A four-day Course Using WinNonlin (October 21-25, 2012), Rome, Italy

Activities

Prof. Dr Anders KARLÉN (Uppsala University)

President

Anna-Lena GUSTAVSSON (Karolinska Institutet)

Secretary/Treasurer

Göran LIDGREN
(Swedish Academy of Pharmaceutical Sciences)

Secretary

Prof. Dr Anders KARLÉN (Uppsala University)

EFMC-Delegate

SWITZERLAND



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	590
Member profile	Trade & Industry: 75% University: 15 % Other: 10%
Postal address	Schwarztorstrasse 9 3007 Bern Switzerland
Telephone	+41 31 310 40 90
Fax	+41 31 310 40 29
E-mail	info@scg.ch
Website	www.scg.ch
Activities	<ul style="list-style-type: none"> • Minisymposium on «Epigenetic Targets: New Opportunities for Medicinal Chemistry» (May or June 2012), Basel, Switzerland • Medicinal Chemistry Session at Fall Meeting of the Swiss Chemical Society (September 13, 2012), Zürich, Switzerland • 10th Swiss Course on Medicinal Chemistry (October 14-19, 2012), Leysin, Switzerland
President	Prof. Dr. Karl-Heinz ALTMANN (ETH Zürich)
EFMC-Delegate	Dr Manfred KANSY (F. Hoffmann-La Roche Ltd)
NAO Secretariat	SCS (Division of Medicinal Chemistry (DMC))



Turkish Association of Medicinal and Pharmaceutical Chemistry

Establish communication and cooperation between the members.
Establish policies in Medicinal Chemistry teaching and research
in the country. Organise scientific meetings and conferences,
get in touch with international related bodies.

Mission

1994

Founded

170

Members

Academics: 100%

Member profile

Department of Pharmaceutical Chemistry
Faculty of Pharmacy - Gazi University
06330 Ankara
Turkey

Postal address

+90 312 222 72 25

Telephone

+90 312 223 50 18

Fax

mfsahin@gazi.edu.tr

E-mail

www.medchem.org

Website

Organising meetings and conferences.

Activities

Prof. Dr M. Fethi SAHIN
(Gazi University)

President

Prof. Dr M. Fethi SAHIN
(Gazi University)

EFMC-Delegate

UNITED KINGDOM



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

Mission	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.
Founded	1995 (Formerly Fine Chemicals & Medicinals Group)
Members	850 members, 600 of whom are medicinal chemists
Member profile	Predominantly industry
Postal address	Royal Society of Chemistry - Burlington House - Piccadilly W1J 0BA London, United Kingdom
Telephone - Fax	+44 207 437 8656 - +44 207 437 8883
E-mail - Website	www.rsc.org/Membership/Networking/InterestGroups/BMCS
Activities	

The Biological and Medicinal Chemistry Sector (BMCS) is a Sector of the Industry & Technology Forum of the Royal Society of Chemistry (RSC) in the UK. The annually elected committee is primarily responsible for the organisation of scientific meetings and symposia, supporting educational activities in the UK, and advising the Society on policies that directly affect the BMCS. Specifically, 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. The predominant areas thus include pharmaceuticals, agrochemicals, flavours and fragrances. It also acts to promote public awareness of the crucial role played by chemistry in the modern industrial environment. The BMCS is particularly active in the organisation of scientific meetings and does so in collaboration with a wide variety of other groups both within and external to the RSC. Over the past few years the BMCS has been especially active in promoting some of the important interfacial areas in which chemists are intimately involved. In recent years, it has held internationally attended meetings with the EFMC, the Society for Chemical Industry, the Society for Medicines Research and with the Biochemical Society. On average six or more scientific meetings are held each year. Support for educational activities, such as the running of lectures and day schools, and the provision of equipment are also an important component of BMCS activities. Indeed, some of these initiatives are now established as annual events. The BMCS also administers annual awards that acknowledge major scientific achievements in both academia and industry that have been carried out within the UK. The BMCS provides a significant input into Royal Society of Chemistry strategic initiatives.

•2nd RSC Symposium on Chemical Biology for Drug Discovery

(March 20-21, 2012), Macclesfield, UK

•2012 Spinks Symposium; «Regenerative Medicine»

(April 17, 2012), Oxford, UK

•The 1st Israeli - UK Medicinal Chemistry Conference

(April 22-23, 2012), Rehovot, Israel

•23rd Symposium on Medicinal Chemistry in Eastern England

(April 26, 2012), Hatfield, UK

•Protein Kinase 2012

(May 21-22, 2012), Cambridge, UK

•4th RSC/SCI Symposium on GPCRs in Medicinal Chemistry

(September 17-19, 2012), Surrey, UK

•Emerging Paradigms in Anti-infective Drug Design

(September 18-19, 2012), London, UK

President	Dr Phil JONES (ASC)
Secretary	Dr Stuart CAMERON (Peakdale)
EFMC-Delegate	Dr David ALKER (David Alker Associates)

New
Journal



Toxicology Research

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Chinese Society Of Toxicology

Directory of Companies

An alphabetical list of pharmaceutical companies, as well as manufacturers and suppliers of products and services for Medicinal Chemistry in Europe

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4SC AG	Am Klopferspitz 19a	82152 MARTINSRIED	49 89 7007630 DE
A & D INSTRUMENTS LTD	Abingdon Science Park	ABINGDON OX14 3YX	+44 1235 550 420 GB
AAF INTERNATIONAL BV	Egelenburg 2	10816K AMSTERDAM	+31 20 549 44 11 NL
ABBOTT LABORATORIES	100 Abbott Park Rd	ABBOTT PARK IL 60064-3500	+1 847 937 6100 US
ABCR GMBH & CO. KG	Im Schleiert 10	76187 KARLSRUHE	49 0 721 950 61 0 DE
ABGENE HOUSE	Blenheim Road	EPSOM SURREY KT19 AP	+44 1372 72 34 56 GB
ABSORPTION SYSTEMS	440 Creamery Way Suite 300	EXTON PA 19341	+1 610 280 7300 US
ACCELRYIS	334 Cambridge Science Park	CAMBRIDGE CB4 0WN	+44 1223 228 500 GB

Advanced Chemistry Development, Inc. (ACD/Labs)



info@acd labs.com
Tel: +1 416 368 3435
Fax: +1 416 368 5596

www.acd labs.com

Advanced Chemistry Development, Inc., (ACD/Labs) is a chemistry software company that provides enterprise and desktop solutions to support R&D efforts. With almost two decades of experience providing solutions to the pharmaceutical and biotech industries we offer medicinal chemists unique applications for multi-technique analytical data processing, interpretation, chemical characterization, compound profiling (for ADME-Tox and physicochemical properties), and property-based lead optimization.

ACROS ORGANICS Geel West Zone 2 Janssen Pharmaceuticaaloo, 3A 2440 GEEI +32 014 57 52 11 BE

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The American Chemical Society publishes the most trusted journals at the interface of chemistry, biology and medicine, including *ACS Medicinal Chemistry Letters* which is dedicated to the rapid dissemination of the most striking brief communications in medicinal chemistry. This journal complements the *Journal of Medicinal Chemistry*, the highest impact and most cited original research journal in Medicinal Chemistry.

ACTELION	Gewerbestrasse 16	4123 ALLSCHILL	+41 61 487 45 45 CH
ACTIVE MOTIF	Avenue Franklin Roosevelt 104 Box 25	1330 RIXENSART	+32 2 653 00 01 BE
ADELPHI MANUFACTURING CO. LTD	Olympus House Mill Green Road	HAYWARDS HEATH RH16 1XQ	+44 1444 440 091 GB
ADHESIVES RESEARCH INC	400 Seaks Run Road PO BOX 100	GLEN ROCK PENNSYLVANIA 17327	+1 717 357 979 US
ADPAK MACHINERY SYSTEMS LTD	3 Pendleside Lomeshaye Industrial Estate	NELSON BB9 6RY	+44 1282 601 444 GB
ADVION Inc.	Brown Road 19	ITHACA NY, 14850	+1 607 266 9162 US
ALEX HOSE LTD	Spring Bank Industrial Estate Watson Mill Lane	HALIFAX HX6 3BW	+44 1422 317 200 GB
AGILENT TECHNOLOGIES	Pegasus Park - De Kleeflaan 12A bus 12	1831 DIEGEM	02 404 92 22 BE

AKZO NOBEL NV	Velperweg 76	6824 BM ARHNEM	+31 26 366 44 33	NL
ALCON LABS	6201 S. Freeway (TT-3)	FORT WORTH TEXAS 76134-2099		US
ALFA AEAR GMBH & CO KG	Postbox 11 07 65	76057 KARLSRUHE	+49 721 84007 280	DE
ALFA LAVAL TUMBA AB	Hans Stahles vag	14780 TUMBA	+46 85 306 5000	SE
ALLERGAN INC.	P.O. Box 19534	IRVINE CA 92623	+1 714 246 4500	US
ALL-FILL INTERNATIONAL LTD	Unit 5 Gateshead Close- Sunderland Road	SANDY SG19 1RS	+44 1767 691 100	GB
AMAFILTER	Kwakelkade 28 Postbus 396	1800 AJ ALKMAAR	+31 72 527 34 00	NL
AMERSHAM PLC	Amersham Place Little Chalfont	BUCKINGHAMSHIRE HP7 9NA	+44 1494 544000	GB
AMGEN INC.	One Amgen Center Drive	THOUSAND OAKS CA 91320-1799	+1 805 447 1000	US
AMRI	Zahony u. 7	BUDAPEST	Direct: +36 1 6666 132	HU
ANABIOTEC NV	Reitbroekstraat 13	9940 EVERGEM	+32 9 253 60 30	BE
ANSELL OCCUPATIONAL HEALTHCARE	Winggaardveld 34 C	9300 AALST	+32 5 371 05 05	BE
APPLIED PRECISION INC	121 High Street	MARLBOROUGH SN8 1LZ	+44 1672 518 350	GB
APPLIKON DEPENDABLE INSTRUMENT	De Brauwweg 13 PO BOX 149	3100 AC SCHIEDAM	+31 10 462 18 55	NL
ARGENTA DISCOVERY LTD	8/9 Spire Green Centre Flex Meadow	HARLOW ESSEX CM19 5TR	+44 1279 645 674	GB
ARMFIELD LTD	Bridge House West Street	RINGWOOD BH24 1DY	+44 1425 478 781	GB
ARQUE	19 Presidential Way	WOBURN MA 01801-5140	+1 781 994 0300	US
ARRAY BIOPHARMA	3200 Walnut Street	BOULDER CO 80301	+1 303 381 6645	US
ASTEX TECHNOLOGY LTD	250 Cambridge Science Park Milton Road	CAMBRIDGE CB4 0WE	+44 1223 226 200	GB
ASTON SCIENTIFIC LTD	Silverdales House 111 Wendover Road	STOKE MANDEVILLE HP22 5TG	+44 1296 614 144	GB
ASTRA ZENECA PLC	15 Stanhope Gate	LONDON W1K 1LN	+44 (0)20 7304 5000	GB
AVENTIS PHARMACEUTICALS INC.	300 Somerset Corporate Boulevard	BRIDGEWATER NJ 08807-2854	+1 800 981 2491	US
AVERY BERKEL	Foundry Lane	SMETHWICK B66 2LP	+44 8709 050 064	GB
AVILA THERAPEUTICS	100 Beaver Street	WALTHAM MA, 02453		US
B. BRAUN MEDICAL	Carl-Braun-Straße 1	34212 MELSUNGEN	+49 (0) 56 61 71-0	DE
BASF AG	Carl-Bosch-Straße 38	67056 LUDWIGSHAFEN	+49 (0)621 60-0	DE

Bayer AG



Bayer

contact person: Ingo Drawert
bsp-hochschulmarketing@bayerhealthcare.com
Tel: 03046816957

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BIOENGINEERING AG	Sogenrainstrasse 7	8636	WALD	+41 55 256 82 09	CH
BIOGAIA FERMENTATION AB	PO Box 965	22009	LUND	+46 46 280 1700	SE
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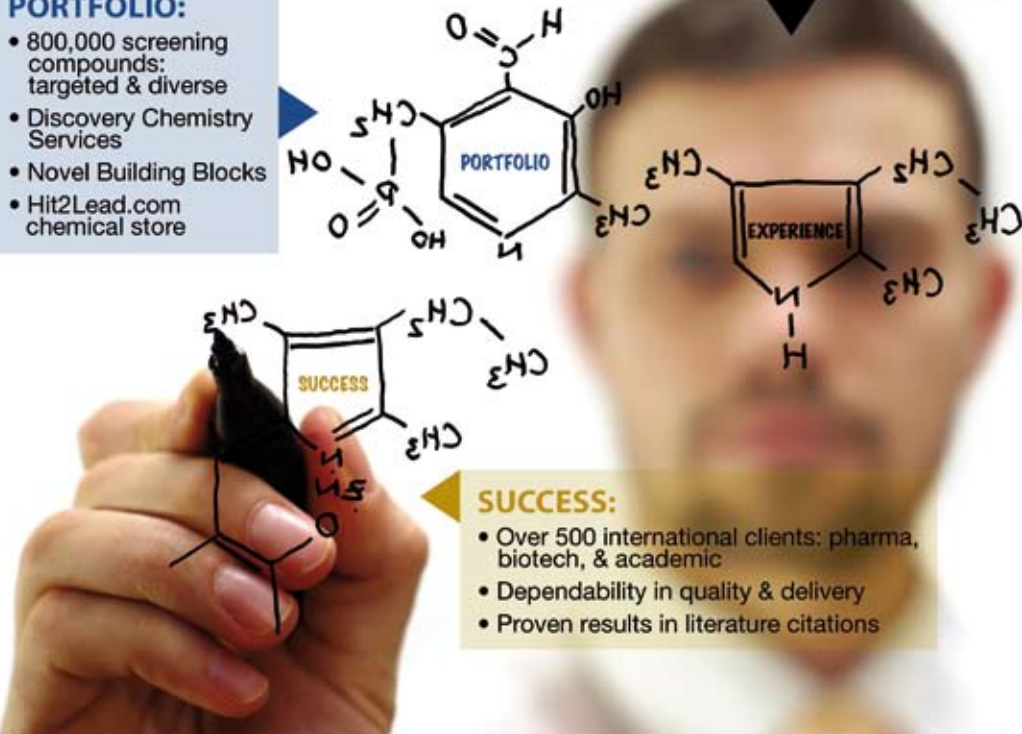
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