Dear Colleague

This is now the third time that I have the pleasure to provide you with the traditional overview of all the important activities of the European Federation for Medicinal Chemistry. The year 2010 has been very successful for EFMC, which is constantly progressing towards one of the leading learned societies in the European life science field. Medicinal Chemistry Communications (MedChemComm), our official journal published together with the Royal Chemical Society, had a fantastic start and I am very grateful to the two editors in chief, Gregory Verdine (Harvard University) and Anthony Wood (Pfizer), who give the journal the right spirit. Exploring new grounds and expanding the field of Medicinal Chemistry ("drugging the undruggable") is exactly what EFMC was aiming for. Furthermore, I would also like to thank the three regional editors, Sylvie Garneau-Tsodikova (US), Rob Leurs (Europe), and Ming-Quiang Zhang (Asia) for their permanent efforts keeping the high quality of the journal. I am convinced that MedChemComm will be among the leading journals in the field once its first impact factor is published. So do not forget to submit your high quality work. Once published it will be available for free to the whole community till end of the year 2011! MedChemComm is also including MedChemWatch, the e-newsletter of EFMC. This requires a much more professional handling as there are strict deadlines now for finalising an issue. I thus deeply acknowledge the immense effort Gabriele Costantino and his team are putting in.

The most important event in 2010 was the 21st International Symposium on Medicinal Chemistry (EFMC-ISMC), which took place in Brussels, a city often considered as capital of Europe. Chaired by Koen Augustyns and Edmond Differding, the meeting brought together almost 1.200 Medicinal Chemists from 47 countries, who exchanged ideas, discussed hot topics and enlarged their networks. At the opening ceremony, Michel Goldman, Executive Director of the "Innovative Medicines Initiative" (IMI), outlined the main goals of this 2 billion Euro public private partnership devoted to the precompetitive pharmaceutical research. In addition, all of us enjoyed the lecture of Camille Wermuth, the 2010 Nauta Awardee. With this respect I also would like to congratulate Tony Wood for receiving the UCB-Ehrlich Award and Klaus Müller for being awarded the Prous Institute - Overton and Meyer Award. For the first time we also handed over the EFMC Prizes. These will be given every year and are restricted to scientists not older than 35 years. The prize for a Young Medicinal Chemist in Academia was given to Andreas Bender, University of Cambridge, and the one for Industry to Antonio Nardi, Grünenthal. The call for the 2011 prizes is already open, so do not miss the application deadline! Finally, I would like to thank our Belgian hosts, the Medicinal and Bioorganic Chemistry division of the Royal Flemish Chemical Society (KVCV) and the Medicinal Chemistry Division of the Société Royale de Chimie (SRC), as well as Ly Differding and her team from LD Organisation, who now for the second time showed that an ISMC organised under their responsibility becomes unforgettable also from a social point of view. Thus, all of us are looking forward to the 22nd EFMC-ISMC, organised in collaboration with our German colleagues, and scheduled for Sept. 16 – 20, 2012, in Berlin.

The **second EFMC Short Course** focused on *Safety and Attrition* and took place in Oegstgeest and again was fully booked. Without the steady input from our Education & Training Committee, in particular the engagement of Peter Matyus and Henk Timmerman, as well as the enthusiasm of Alan Stobie (Pfizer), the chair of the 2nd course, this success would not have been possible. Our short courses are intended for scientists working in the field and the presentations are given by senior scientists both from industry and academia. The number of participants is limited to 35 to promote in depth discussion. In case of overbooking preference is given to applicants from EFMC adhering countries and employees of EFMC corporate members. The next course (April 10-13, 2011) will be organised by Mike Trevethick (Pfizer) and will deal with *Principles and Applications of in vitro Pharmacology in Drug Discovery for Medicinal Chemists*. So please mark the date and do not forget to register in time. Detailed information can be found on our web page www.efmc.info.

In the upcoming year EFMC will co-organise two major events in Europe: The third edition of Frontiers in Medicinal Chemistry - Emerging Targets, Novel Candidates and Innovative Strategies, will be organised together with the Swedish Academy of Pharmaceutical Sciences and the Medicinal Chemistry Division of the American Chemical Society and will take place from June 19-21, 2011, in Stockholm. Following the spirit of this series, the meeting will bring together top quality speaker form the Scandinavian region and from US. I am very pleased that this time also the ACS Medi Division is on board as full partner. This certainly further strengthens the links to our American Colleagues. Second, the fourth edition of the International Symposium on Advances in Synthetic and Medicinal Chemistry (ASMQ), jointly organised by ChemBridge Corporation and EFMC, will be organised in St. Petersburg, August 21-25, 2011. This time the programme will be put together by K.C. Nicolaou (Scripps Research Institute) and Tony Wood (Pfizer), once more guaranteeing a selection of outstanding speakers from both academia and industry.

Besides these key events, which are organized or co-organised directly by EFMC, we are also organising sessions at the Spring ACS Meeting in Anaheim, at the PharmSciFair in Prague, and at the AIMECS meeting in Tokyo. This once more proves the excellent international network of EFMC. In addition, I particularly want to mention our educational events, the Medicinal Chemistry Schools. Besides the Summer School in Urbino (Italy), which is the only EFMC Accredited School by now, EFMC supports also Medicinal Chemistry Schools in Leiden/Amsterdam (The Netherlands), Leysin (Switzerland), Nottingham (UK), Pavia (Italy), and Vienna (Austria).

When I started my presidency one of my main aims was to establish a sustainable infrastructure for EFMC. I am very pleased to see that this goal has been in many ways fulfilled. Nele Coulier does a fantastic job giving indispensable support to Koen, Rasmus and me in our daily tasks. Our newsletter MedChemWatch is constantly increasing its readership and our web-page www.efmc.info now also offers a meeting calendar and a job portal. I am very grateful to all our colleagues for making this possible with their enthusiasm and their ideas.

Edita

At the Council Meeting in Brussels we also had the pleasure to welcome two new member societies, the Medicinal Chemistry Group of the Finnish Pharmaceutical Society, represented by Eric Wallen and the Medicinal Chemistry Section of the Croatian Chemical Society, represented by Ivica Malnar. With these new members we cover almost the all of whole Europe and there are only very few white spots left. Welcome in the European Med. Chem. Family! I also would like to give a warm welcome to new Council members who joined us in 2010 or will join us this year: Federico Da Settimo (Italy) and Manfred Kansy (Switzerland). I would also like to take the opportunity to thank Luisa Mosti and Peter Mohr for all their input, their continuous support and all the contributions they made. The Council had also to elect 6 positions for the Executive Committee for the period of 2011-2012. I am pleased to announce that Koen Augustyns, Rasmus Clausen, and Javier Fernandez will continue for another two years to serve EFMC. I also would like to welcome Hein Coolen and Gabriele Costantino in the team. Last but not least it is a special pleasure to welcome Ulrich Stilz, who was unanimously elected to President-elect and will become President of EFMC in 2012. On this occasion I would like to express my deepest gratitude to Mark Bunnage, Peter Matyus, and Roberto Pellicciari, who left the Executive Committee by end of the year 2010. I would like to express my deepest gratitude to Mark for his enthusiasm, his ideas, and his strong commitment to the Industrial Liaison Committee. Peter was no longer eligible for re-election and I highly appreciate all the input he gave the past six years, especially in his capacity as chair of the Education & Training Committee. Last, but definitely not least, I want to thank Roberto for all his contributions and the incredible amount of work and time he devoted to EFMC the past 7 years. His visions and ideas, combined with his enthusiasm and his strong scientific network laid the ground for EFMC becoming an internationally highly respected federation.

Finally, I want to take this occasion to thank all Colleagues from the Executive Committee and from the Council for the friendly and very constructive atmosphere we had during the whole year. I also wish to express my gratitude to the members of our committees, the editorial board of the newsletter, and all colleagues who participated in the organization of our events. I wish you a good start into the New Year and look forward to working with you for another year!

With my very best regards

Gerhard Ecker

President EFMC

Premium **Sponsors**

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.



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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

BOEHRINGER



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

IANSSEN R&D



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UCB



PROUS INSTITUTE



NAUTA





Organisers

Mike Trevethick, Discovery Biology, Pfizer Henk Timmerman, VU Amsterdam

Deadline for registration

February 28, 2011

Venue

Castle "Oud Poelgrest", Degstgeest (near Leiden), The Netherlands Airport: Schiphol (Amsterdam)

Fee

€ 1275,00

Including 3 nights accommodation, breakfast, coffee breaks, lunches and dinners during the 3 days of the conference.

Contact

EFMC Administrative Secretariat LD Organisation spri 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.efmcshortcourses.org

DISCOVERY FOR MEDICINAL CHEMISTS

3rd Short Course on Medicinal Chemistry

April 10-13, 2011

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

Course Outline

In the initial phases of drug discovery where compound potency and selectivity are major considerations, data derived from biologists is of prime importance to the chemist. This short course will be a mixture of talks, tutorials and case histories involving GPCRs (G protein coupled receptors), enzymes and ion channels.

The course will discuss:

The techniques and data that biologists use to assess potency and selectivity of agonists, antagonists and enzyme inhibitors. [The 'rules' under which such data is collected - and what happens if these rules are not obeyed. | Distinguishing between potency and affinity. | Equilibrium and kinetic assays. | How kinetic assays can seriously improve your project. Translating in vitro data to the in vivo environment.



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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.















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

Prof. Dr Lennart BUNCH

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

Prof. Dr Rasmus P. CLAUSEN

University of Copenhagen, Denmark - EFMC Executive Committee

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Universität Kiel - German Pharmaceutical Society,

Section of Pharmaceutical/Medicinal Chemistry, Germany

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University of Vienna, Austria - EFMC Executive Committee

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Sanofi-Aventis, Germany - Executive Committee

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Vrije Universiteit Amsterdam / LACDR - Section of Medicinal Chemistry, Royal Netherlands Chemical Society (KNCV), The Netherlands

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University of Athens - Hellenic Society of Medicinal Chemistry, Greece

Prof. Dr Serge VAN CALENBERGH

Universiteit Gent - Medicinal and Bioorganic Chemistry Division of Royal Flemish Chemical Society (KVCV), Belgium

Dr Erik WALLEN

University of Helsinki - Finnish Pharmaceutical Society, Finland

Prof. Dr János WÖLFLING

University of Szeged - Organic and Medicinal Chemistry Division (OMCD) of the Hungarian Chemical Society (HCS), Hungary

Prof. Dr Nikolay S. ZEFIROVMoscow State University - The D.I. Mendeleev Russian Chemical Society, Medicinal Chemistry Section, Russia

To be elected in March 2011

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

Temporarily unassigned

Teva Pharmaceutical Industries - The Medicinal Chemistry Section of the Israel Chemical Society, Israel

EFMC Objectives

The European Federation for Medicinal Chemistry (EFMC) is an independent association founded in 1970. Free from any political convictions, it represents the scientific organisations from 23 European countries and covers a geographical area the size of the USA with a similar scientific population. Its objective is to advance the science of Medicinal Chemistry by promoting cooperation and encouraging strong links between the National Adhering Organisations, in order to 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 organising 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 representing well in excess of 40 countries. Furthermore, in collaboration with the Royal Society of Chemistry, EFMC is publishing MedChemCom, 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 3 Committees devoted to Education and Training, Industry Liaison and Information & 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 leader 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 meetings. 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 Pharmacochemistry, 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.

Education and Training Committee

Current Committee Membership:

- Javier FERNANDEZ ETC Chair
- Armin BUSCHAUER
- Norbert HAIDER
- Peter MOHR
- Silvia ORTEGA
- Maurizio RECANATINI
- Alan STOBIF

(Janssen R&D, EFMC- EC Member, Spain) (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 Residental 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, EUFEPS

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

ILC

Industry Liaison Committee

Current Committee Membership:

- Graeme ROBERTSON ILC Chair
- Mark ANDREWS
- Christophe GENICOT
- Ana GRADILLAS
- Rob LEURS
- Liz PEASE
- Leandros SKALTSOUNIS

(University of Perugia, Italy)
(Pfizer, UK)
(UCB, Belgium)
(San Pablo CEU University, Spain)
(VU University Amsterdam, The Netherlands)
(AstraZeneca, UK)
(University of Athens, Greece)

Committee Objective:

To promote and improve liaison and cooperation between EFMC and Industry so that the EFMC can better achieve its over-arching objective to advance the science of Medicinal Chemistry. This includes increasing the visibility of EFMC activities within companies which employ medicinal chemists as well as those related industries for whom Medicinal Chemistry is an enabling science or for whom medicinal chemists represent a significant customer base.

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)
- To support sharing of job offers and candidate CV through the EFMC website
- To establish a directory of European centres of specific expertise in drug research

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

Information & Communication Committee

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)

(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



Scientific Advisory Board

Current Committee Membership:

- Roberto PELLICCIARI SAB Chair
- Peter ETTMAYER
- Giovanni GAVIRAGHI
- Povl KROGSGAARD-LARSEN
- Christian NOE
- Ferran SANZ
- Henk TIMMERMAN

(University of Perugia, Italy)
(Boehringer, Austria)
(Siena Biotech, Italy)
(The Carlsberg Foundation, Denmark)
(University of Vienna, Austria)
(University Pompeu Fabra, Spain)
(VU University Amsterdam, The Netherlands)

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.



${\sf MedChemWatch}$

MedChemWatch

Editor

Gabriele COSTANTINO

Editorial Committee

- Erden BANOGLU
- Leonardo SCAPOZZA
- Wolfgang SIPPL
- Sarah SKERRATT

(University of Parma, Italy)

(Gazi University, Turkey) (University of Geneve, 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 Official journal of EFMC



Launched in July 2010, new RSC Publishing journal MedChemComm publishes 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.

Guided by Editors-in-Chief Dr Anthony Wood (Pfizer, UK) and Professor Greg Verdine (Harvard University, USA), MedChemComm contains a mix of vibrant and concise research and review articles, providing authors with a dedicated subjectspecific publication.

And with free online access to all MedChemComm content. available until the end of 2011, you can be sure of maximum visibility for your research.

Also of interest

Check out related bioscience titles in the RSC Publishing portfolio at www.rsc.org/publishing; including Malecular BioSystems, Organic & Biomolecular Chemistry, Natural Products Reports, Integrative Biology, Metallomics and Photochemical & Photobiological Sciences.

Submit your work now



ISMC

With 1,150 participants from 47 nations, the XXIst International Symposium on Medicinal Chemistry (ISMC 2010), held at the Brussels meeting centre SQUARE from September 5-9, 2010, has been a very successful symposium with a diverse and high quality program.

XXIst EFMC-ISMC 2010 in Brussels

ISMC 2010 was jointly organized by the Medicinal and Bioorganic Chemistry Division of the Royal Flemish Chemical Society (KVCV) and by the Medicinal Chemistry Division of the Société Royale de Chimie (SRC), on behalf of the European Federation for Medicinal Chemistry (EFMC). The organizers are very pleased to have reached the main objective of creating a major scientific event for Medicinal Chemistry in Europe.

ISMC 2010 covered drug discovery advances in all major therapeutic areas, as well as the most recent advances in lead identification and optimization strategies, in drug design and development, and in prediction of activity as well as of adverse effects. An emphasis was on first time disclosures, emerging drugs and emerging technologies, including nanotechnologies and the chemical modulation of stem cells. ISMC 2010 also illustrated the impact of the omics and biomarker areas on the interfaces between chemistry, informatics, biology and experimental medicine.

The opening ceremony, led by Dr Edmond Differding (formerly with UCB) and Prof. Koen Augustyns (University of Antwerp), symposium chairmen, and Prof. Gerhard Ecker (University of Vienna), EFMC President, was the start of a five day symposium with many scientific highlights. With an introduction to IMI, the Innovative Medicines Initiative Joint Undertaking (IMI JU), by Prof. Michel Goldman (Executive Director of IMI, Belgium), the tone was set for a successful symposium with about 100 speakers, 500 poster presentations, 50 exhibitors and 30 sponsors. The three prestigious EFMC Awards were also conferred during the opening ceremony. Prof. Camille Wermuth (University Louis Pasteur Strasbourg and Prestwick Chemicals, France) was awarded the Nauta Award for Pharmacochemistry, Dr Anthony Wood (Pfizer, UK) the UCB-Ehrlich Award for Excellence in Medicinal Chemistry, and Prof. Klaus Müller (ETH Zürich, Switzerland) the Prous Institute-Overton and Meyer Award for New Technologies in Drug Discovery, and each of them delivered a highly interesting talk later on in the Symposium. The Inaugural Lecture by Prof. Tom Blundell (University of Cambridge, UK)

concluded the opening ceremony, and the evening was brought to an end with a well-attended welcome reception.

The following 4 days, the participants attended a busy program of 2 plenary lectures and 6 award and prize lectures, including the IUPAC-Richter Prize lecture by Prof. Arun Ghosh, 27 parallel sessions and 2 sunset sessions, 3 workshops and 3 poster sessions. Among the posters presented, ten were awarded an EFMC poster prize, and ten young scientists were awarded travel grants offered to young researchers by Bentham Science Publishers. Highlights of the program were the plenary lecture by Sheng Ding (Scripps Research Institute, United States) on the chemical modulation of stem cells, and the closing lecture by Greg Verdine (Harvard University, United States) on 'Drugging the Undruggable'.

ISMC 2010 attracted 1,150 participants coming from 47 nations. The top twenty list of numbers of delegates per country is shown in Figure 1. A distribution of the delegates according to their affiliation (Figure 2), shows that there was almost a 1:1 ratio of medicinal chemists and researchers from industry (49%) and academia (32% faculty, 19% students).

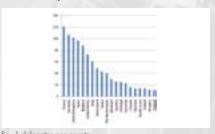


fig. 1 delegates per country

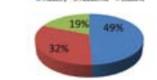


fig. 2 distribution of delegates according to their affiliation

The congress venue "SQUARE", Brussels' fully renovated conference centre, did not only offer state of the art facilities for speakers, exhibitors and participants but was also located in the historic heart of Brussels, allowing participants to discover the host city of ISMC 2010. The scientific program was also completed with an interesting social program. Participants enjoyed the concert at the Bozar, the Brussels Centre for Fine Arts and one of the showpieces of the Belgian capital, and the excursions in and around Brussels. With a gala dinner at "La Tentation", a nicely renovated textile store praised for its sublime architecture and monumental stairs, we concluded the conference in style.

The next edition of this biennial symposium will take place in 2012 in Berlin, Germany and will be jointly organized by the Division of Medicinal Chemistry of the German Chemical Society (GDCh) and the Section of Pharmaceutical/Medicinal Chemistry of the German Pharmaceutical Society (DPhG). ISMC 2012 will continue the tradition of the ISMC Symposia to create an international platform where scientists from all over the world meet and exchange their view and ideas. The first details can be found on the regularly

updated symposium website www.ismc2012.org or via the EFMC website www.efmc.info





Prof. Dr Koen Augustyns



Dr Edmond Differding

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- New advanced intermediates
- Support to development.
- Metabolites
- Impurities
- · Cold chemistry

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- * NMB
- Mass spectroscopy.
- LC/MS
- HPLC (proporative)
- · Elemental analysis
- Water contain

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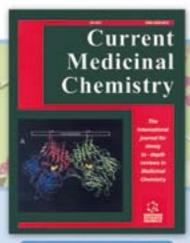
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Internet www.mercachem.com



EFMC 2010 AWARDS

The Awards have been presented during the XXIst International Symposium on Medicinal Chemistry (EFMC-ISMC) September 5-9, 2010, Brussels, Belgium

THE NAUTA AWARD FOR PHARMACOCHEMISTRY

for Professor

Camille George Wermuth

University Louis Pasteur Strasbourg and Prestwick Chemicals, France

For his significant contribution to the science of medicinal chemistry, both by scientific achievements and by educational activities. Prof. Wermuth contributed to the development of three marketed drugs and the results of his work are documented in more than 250 publications and 60 patents.

The Nauta Award for Pharmacochemistry. For the advancement of Medicinal Chemistry and the development of international organizational structures in Medicinal Chemistry. The Award is given for outstanding achievements in the field of Medicinal Chemistry.

THE UCB-EHRLICH AWARD FOR EXCELLENCE IN MEDICINAL CHEMISTRY

for Dr Anthony Wood

Pfizer Global Research and Development, UK

For his instrumental role in the discovery of Maraviroc, the first small molecule antagonist of the CCR5 receptor marketed for the therapy of HIV infections. Maraviroc represents the first successful advancement of a chemokine receptor modulator to the market and for the first time provided an antiviral therapy that targets a host protein rather than a viral protein.

The UCB-Erlich Award for Excellence in Medicinal Chemistry To acknowledge and recognise 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

for Professor

Klaus Müller

ETH Zürich, Switzerland

for his pioneering work in the field of computer assisted molecular modeling and for his seminal contributions to the understanding of multipolar interactions and fluorine effects in protein-ligand interactions.

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 is given for the discovery, evaluation or use of new technologies.



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TWO ADDITIONAL NOMINEES WILL ALSO BE IDENTIFIED AND ACKNOWLEDGED.

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- 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

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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 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

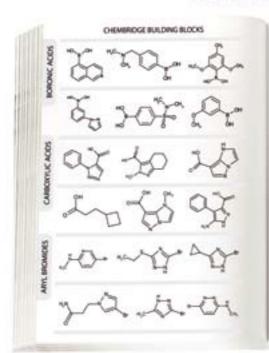


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Calendar of Events

organised by the EFMC National Adhering Organisations 2011

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

Young Research Fellows Meeting

February 4, 2011 Paris, France

www.sct-asso.fi

Contact person: Dr Luc Demange

Email: jeunes@sct-asso.fi

Organised by: Société de Chimie Thérapeutique

XXII Croatian Meeting of Chemists and Chemical Engineers

February 13-16, 2011 Zagreb, Croatia

http://22skiki.fkit.hr/en/index_EN.html

Contact person: Karolina Maduna Valka

Tel: +385 1 4597 134 - Fax: +385 1 4597 260 Email: 22skiki@fkit.hr Organised by: Croation Society of Chemical

X Laboratory of Synthetic Methodologies in Medicinal Chemistry

February 13-17, 2011 Siena, Italy

www.unisi.it/eventi/labms

Contact person: Prof. Federico Corelli

Tel: +39-0577-234-308 - Fax: +39-0577-234-333

Organised by: Italian Medicinal Chemistry Division

Fragments 2011: 3rd RSC-BMCS Fragment-based Drug Discovery meeting

March 7-8, 2011 Stevenage, UK

www.RSC.org/events
www.maaaichurchouseevents.co.uk/BMCS

Contact person: Maggi Churchouse Events Tel: +44 (0)1359 221004 - Fax: +44 (0)1359 221004 Email: maggi@maggichurchouseevents.co.uk Organised by:

RSC Biological and Medicinal Chemistry Secto

Calendar of Events

AntiMalarial Drugs: chemistry development and future challenges

March 15-16, 2011 London, UK

www.RSC.org/events www.antimal.eu

Contact person: Iracy Seddon Email : Tracy.Seddon@liverpool.ac.uk Organised by : AntiMal and RSC Biological and Medicinal Chemistry Sector

Frontiers in Medicinal Chemistry, a Joint German-Swiss Meeting

March 20-23, 2011 Saarbrücken, Germany

www.adch.de/medchem2011

Contact person:
Prof. Rolf W. Hartmann
Tel: +49 681/302-2424 - Fax: +49 681/302-4386
Email: rwh@mx.uni-saarland de

Organised by: GDCH. DPhG. and SCS

Spring Symposium: Resistance in Pharmacotherapy

March 25, 2011
Utrecht, The Netherlands

www.kncv.n

Contact person: Jac Wijkmans Tel: 0412 665464 Email: jac.wijkmans@merck.cor

Organised by: Medicinal Chemistry Section of Royal Dutch Chemical Society (KNCV)

5th Anglo-Swedish Medicinal Chemistry Symposium

March 20-23, 2011 Are, Sweden

www.lakemedelsakademin.se/templates/kurs/ kurstillfalle.aspx?id=4256 Contact person: Agneta Larhed Email: agneta.larhed@swepharm.se

Organised by: RSC Biological and Medicinal Chemistry Sector and the Swedish Academy of Pharmaceutical Sciences

Joint Meeting SCT-SFC-Académie Nationale de Pharmacie (ANP)

March 22, 2011 Paris, France

www.sct-asso.fi

Contact person: Dr Robert Dodd Email: president@sct-asso.fr

Organised by: SCT-French Society of Chemistry-French National Academy of Pharmacy

EFMC sponsored session at ACS Spring Meeting 2011

March 27-31, 2011 Anaheim, California, USA

http://portal.acs.org/portal/acs/corg/content

9th Congress of the Israeli Association for Medicinal Chemistry

March 2011 Rehovot, Israe

Contact person: Dr Raphael Nudelman Tel: +972-548886119 - Fax: +972-3916636 Email: raphael.nudelman@teva.co.il

Organised by:
The Medicinal Chemistry Sectio
of the Israel Chemical Society

3rd EFMC Short Course on Medicinal Chemistry Principles and Applications of in vitro Pharmacology in Drug Discovery for Medicinal Chemists

April 10-13, 2011
Oegstgeest (near Leiden)
The Netherlands

www.ldorganisation.com

Contact: EFMC Administrative Secretariat
Tel: +32 10 45 47 74 - Fax: +32 10 45 97 19

Proteinase 2011: from molecules to medicines - 7th SCI-RSC symposium on proteinase inhibitor design

April 11-12, 2011 Basel, Swizerland

www.RSC.org/events www.maggichurchouseevents.co.uk/BMCS

Contact person: Maggi Churchouse Events Tel: +44 (0)1359 221004 - Fax: +44 (0)1359 221002 maggi@maggichurchouseevents.co.uk Organised by: RSC Biological and Medicinal Chemistry Sector and SCI Fine Chemicals Group

Teacher's days

26-27 April 2011 Belgrade, Serbia

www.shd.ora.rs

Contact Person: Prof. Dr Ratko Jankov Tel: +381 11 3292 630

rjankov@chem.bg.ac.rs

Organised by: Serbian Chemical Society and Faculty of Chemistry University of Belgrade

49th Meeting of the Serbian Chemical Society

13-14 May 2011 Kragujevac, Serbic

www.shd.org.rs/HtDocs/SHD/SHD-index.htm

Contact Person: Prof. dr Zivoslav Tesic Tel: +381 11 3336 733 ztesic@chem.bg.ac.rs

Organised by: Serbian Chemical Society

29th Noordwijkerhout-Camerino-Cyprus Conference on Medicinal Chemistry

> May 1-6, 2011 Limassol, Cyprus

Calendar of Events

1st National Chemistry Conference

May 22-25, 2011 Sopron, Hungary

www.mkenk2011.mke.org.hu

Contact person: Mónika Bondár, Panna Körispataky Tel: +36-1-2016883 - Fax: +36-1-2018056 Email: mkenk2011@mke.org.hu

> Organised by: Hungarian Chemical Society

EFMC sponsored session at PharmSciFair 2011

June 13-17, 2011 Prague, Czech Republic

www.pharmscifair.org

Frontiers in Medicinal Chemistry Meeting: Emerging Targets, Novel Candidates and Innovative Strategies

> June 19-21, 2011 Stockholm, Sweden

www.malmokongressbyra.se/efmc_2011 Contact person: Agneta Larhed fel: +46-8-723 5010 - Fax: +46-8-20 55 11 Email: agneta.larhed@swepharm.se Organised by:

he European Federation for Medicinal Chemistry, the ACS, Division of Medicinal Chemistry, the Swedish Academy of Pharmaceutical Sciences, Section for Medicinal Chemistry SEQT Second Summer School on "Medicinal Chemistry in Drug Discovery: the Pharma Perspective"

> June 26-29, 2011 Madrid, Spain

> > www.seqt.org

Contact person: Dr Javier Fernández Gadec Tel: 925245776 - Fax: 925245771 Email: jfernan0@its.jnj.com

> Organised by: Janssen-Cilag and SEQ1

VII I-A-CZ-D-GR-HU-PL-SK-SL Joint Meeting on Medicinal Chemistry 2011

> June 30-July 2, 2011 Catania, Italy

Contact person: Prof. Giuseppe Ronsisvalle Tel: +39 09 57 38 40 16 Fax: +39 095 33 67 22 Email: giuseppe.ronsisvalle@unict.it

Organised by: Università di Catanic

31th Edition of the European School of Medicinal Chemistry (ESMEC) EFMC Accredited School

> July 3-8, 2011 Urbino, Italy

www.esmec.eu

Contact person: Lucia Bedini
Tel: +39 0722-303323 - Fax: +39 0722-303313

Organised by: Italian Medicinal Chemistry Division RICT 2011 - 47th International Conference on Medicinal Chemistry 47^{èmes} Rencontres Internationales de Chimie Thérapeutique

> July 6-8, 201 Lyon, France

www.medchem.f

Contact person: Prof. Roland Barret Tel: +33 (0) 4 78 77 28 21 Fax: +33 (0) 4 78 77 70 82 Email: roland.barret@univ-lyon1.fr Oragnised by: Société de Chimie Thérapeutia 4th International Symposium on Advances in Synthetic and Medicinal Chemistry

August 21-25, 2011

www.asmc11.ora

Contact: LDOrganisation, Scientific Conference Producers Tel: +32 10 45 47 77 - Fax: +32 10 45 97 19

Email: asmc@LDOrganisation.com

4th European Conference on Chemistry for Life Sciences (4ECCLS)

August 31-September 3, 2011 Budapest, Hungary

www 4eccls mke ora hu

Contact person: Beáta Androsits, Mónika Bondá Tel: +36-1-2016883 - Fax: +36-1-2018056 Fmail: 4eccls@mke.org.hu

> Organised by: Hungarian Chemical Society

XVI Congreso de la Sociedad Española de Química Terapéutica

September 2011 Valencia, Spain

www.seqt.org

Contact person: Dr Antonio Pineda Lucena Tel: +34963289680 - Fax: +34963289701 Email: apineda@cipf.es

Organised by: SEQT/F.C.V. Centro de Investigación Príncipe Felipe

3rd Balaton Course in Medicinal Chemistry

September 2011
Balatonszemes, Hungary

Contact person: Molnárné Czagány Krisztina Tel: +36-1-2170851 - Fax: +36-1-217085 Email: krisztina.czaaany@szerves.sote.hu

Organised by:
Organic and Medicinal Chemistry Division o
Hungarian Chemical Society

4th Polish Meeting on Medicinal Chemistry

September 8-10, 2011 Lublin, Poland

www.ptchm.pl

Contact Person: Prof Dariusz Matosiuk Tel: +48 81 535 73 55 - Fax: +48 81 535 73 55 Email: ptchm@ptchm.pl / darek.matosiuk@ am.lublin.pl

> Organised by: Polish Society of Medicinal Chemistry

Calendar of Events

Fall Meeting of the Swiss Chemical Society

September 9, 2011 Lausanne, Switzerland

Contact person: Dr Sandrine Gerber Tel: +41 21 693 31 17 - Fax: +41 21 693 93 55

Email: sandrine.gerber@epfl.ch

Organised by: SCS

16th RSC/SCI Medicinal Chemistry Symposium

September 11-14, 2011 Cambridge, UK

www.RSC.org/events www.soci.org/General-Pages/Display-Even

Contact person: SCI Conference Team
Tel: +44 (0)20 7598 1561 - Fax: +44 (0)20 7235 7745
Email: conferences@soci.org
Organised by:
RSC Biological and Medicinal Chemistry Sector
and SCI Fine Chemicals Group

XXIV National Congress of the Italian Chemical Society SCI 2011

September 11-15, 2011 Lecce, Italy

Organised by: Italian Chemical Societ

EUROanalysis 16

European Conference on Analytical Chemistry "Challenges in Modern Analytical Chemistry"

September 11-15, 2011 Belgrade, Serbia

www.shd.org.rs/HtDocs/SHD/SHD-index.htm Contact Person: Prof. dr Slavica Razic slavica.razic@pharmacy.bg.ac.rs Organised by: Division of Analytical Chemistry of the European Association of Chemical and Molecular Sciences (EuCheMS) and Division of Analytical Chemistry of the Serbian Chemical Society (DAC-SCS)

Summer School on Drug Design

September 11-16, 2011 Vienna, Austria

www.oenha.ai

International Congress on Organic Chemistry

September 18-23, 2011 Kazan, Russia

http://butlerov-iopc.com

Contact Person: Sergey Bachurin Tel: +74965249508 - Fax: +74965249508 Email: bachurin@ipac.ac.ru

> Organised by: Russian Academy of Sciences

Summer School on Pharmaceutical Analysis (SSPA)

September 19-21, 2011 Pavia, Italy

www.scpaweb.org/home.html

Organised by: Italian Medicinal Chemistry Division

Recent Developments in Pharmaceutical Analysis (RDPA)

September 21-24, 2011 Pavia, Italy

www.rdpa2011.com

Contact person: Gabriella Massolini Tel: +39(0)382987383 Fmail: a massolini@unipy it

Organised by : Pharmaceutical Chemistry Department of the University of Pavia

14th Austrian Chemistry Days Minisymposium Medicinal Chemistry

September 26-29, 2011 Linz, Austria

www acech at

Contact Person: Prof. Marko D. Mihovilovi Tel: +43-1-58801-15420 Fax: +43-1-58801-15499 Email: mmihovil@pop.tuwien.ac.at Organised by:

4th BBBB International Conference on Pharmaceutical Sciences

September 29-October 1, 2011 Bled, Slovenia

www.sfd si

Contact person: Prof. Dr Lucija Petrlin Mašic Tel: +386 1 4769 635 Email: lucija peterlin@ffa.uni-lj.si Organised by: SFD, Slovenian Pharmaceutical Society, Slovenia and University of Ljubljana, Faculty of Pharmacy

Dutch Medicine Days 2011

October 3-5, 2011 Lunteren, The Netherlands

www.figondmd2011.nl

Contact Person: Rudolf W. van Older

Organised by FIGON

20th LACDR School on Medicinal Chemistry

October 2011
Oegstgeest (near Leiden),
The Netherlands

http://medchem.lacdr.gorlaeus.net/node/3039

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

EFMC sponsored session at the AFMC Meeting 2011

November 29-December 2, 2011 Tokyo, Japan

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

November 2011 Belgium

SCT Annual Workshop in Medicinal Chemistry



International Symposium on

Advances in Synthetic and Medicinal Chemistry

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August 21-25, 2011 St. Petersburg, Russia

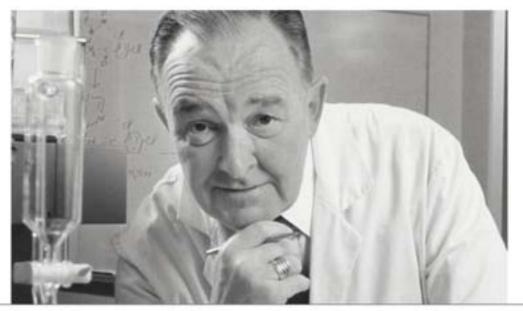
Symposium Chairmen:

LD Organisation

Prof. K.C. NICOLAGU (The Scripps Research Institute & University of California, San Diego, United States) Dr Anthony WOOD (Pfizer, Sandwich, United Kingdom)

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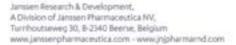
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Gerhard F. Ecker

Dept. Medicinal Chemistry, Univ. Vienna, Austria

Richard Kidd Royal Society of Chemistry, Cambridge, UK

Barend Mons

Netherlands Bioinformatics Center and Leiden University Medical Center, Leiden, The Netherlands.

Bryn Williams-Jones

Pfizer Worldwide R&D, Sandwich Research, UK

Knowledge Driven Drug Discovery goes Semantic

While the availability of freely accessible information sources relevant to medicinal chemistry and drug discovery has grown over the past few years, the knowledge management challenges of this data have also grown enormously: how to get consistent answers, how to manage different interfaces, how to judge data quality, and how to combine and overlay the data to generate new knowledge. Open PHACTS (Open Pharmaological Concept Triple Store), a consortium of 22 partners, is poised to address this knowledge management challenge with semantic web technology to accelerate drug discovery. Here we describe the brief rationale, history and approach of the OpenPHACTS consortium with a final aim to create an Open Pharmacological Space (OPS).

Modern drug discovery research is increasingly dependent on the availability, processing and mining of high quality data. Analysis and hypothesis generation for drug-discovery projects requires careful assembly, overlay and comparison of data from many sources. For example, expression profiles and data from genome-wide association studies (GWAS)¹ need to be overlaid with gene and pathway identifiers and reports on compounds *in vitro* and *in vivo* pharmacologyUtility of data-driven research goes from virtual screening, HTS analysis, via target fishing and secondary pharmacology to biomarker identification.

Over the last 15 years industry has spend significant resources to integrate public data

and information sources and align this with internal, proprietary data while the academic Medicinal Chemistry research community suffered from lack of access to large data sets, especially those including curated bioactivity data. In contrast to data from the bioinformatics world, where whole organism genomes, protein sequences, and protein structures are available to everyone, the chemoinformatics community traditionally is closed and proprietary. Access to commercial databases of high quality crystal structures and chemical information requires licenses, as do most of the software packages needed. Medium size and large sets of bioactivity data per se are rare, as large scale screening efforts have almost exclusively been performed in industrial laboratories. This has disconnected industrial and academic drug discovery efforts and directed academia more towards method development. Furthermore, in silico models developed in academia have largely been restricted to the small and scattered publicly available chemical space.

This setting changed drastically with the NIH roadmap, which led to the creation of PubChem, a public available depository of screening data. PubChem currently comprises 31 million compounds, 73 million substances and 490.000 bioassay results. Others like DrugBank, ChemBank, IUPHAR, and ChEMBLdb followed soon and today there is a panel of databases available which can be searched for compounds and associated biological data. The current release of the ChEMBLdb contains more than 2,4 million

activities of approx. 623.000 compounds measured against almost 7.200 targets.² The latest issue of the Nucleic acid research database summary lists almost 140 individual resources in the general field of molecular biology. However, there is still the urgent need for cleaning, improving and connecting these data to the public domain bioinformatics data, especially with respect to target validation, safety, efficacy and bioavailability. As an example, ChemSpider was set up as a free access platform for the aggregation, deposition and curation of community chemistry data, which has collected almost 25 million unique chemical structures linked out to over 400 data sources. ChemSpider has addressed the issues around data quality of chemical compound information available across the public data sources by running automated cleaning algorithms and providing wiki-like manual tools for commenting on and editing the aggregated compound information. Another milestone was the publication of the GSK 'Tres Cantos Antimalarial Compound Set', a set of 13 533 annotated compound structures shown to inhibit Plasmodium growth.3 This for the first time allows academia to get access to a large data set derived under industry settings and standards and is likely to stimulate antimalarial research through chemical biology and medicinal chemistry.

Public access to large amounts of information, by means of the open access policy for databases and papers, now will assist academia to contribute in a meaningful manner to drug discovery. Medicinal Chemists are thus expected to familiarize themselves with a multiplicity of highly variable sources and data formats, and their focus is shifting from data acquisition, to problem-solving skills, knowledge management and data integration.⁴

Nevertheless, there is a real danger that the high capacity to generate more data will not be in sync with our ability to manage the data well enough and, more importantly, to transform these data into biological and biochemical knowledge. Data integration over multiple sources is not sufficient to understand biology, but it is a prerequisite to even start to understand the complexity of any process in living organisms. As traditional medicinal chemistry research is embracing chemical biology and make increased use of phenotypic screening and high content biology for SAR, the requirements on data-analysis and integration will increase. Unfortunately, this cumbersome and costly process is repeated across companies, institutes and academic laboratories. This represents a significant waste and an opportunity cost and effectively slows down scientific progress and consequently biomedical intervention.

The emerging semantic web technologies and approaches are one way to address this major bottleneck in contemporary high throughput science. Simply put, "semantic web approaches" aims to establish unique identifiers for the concepts and entities within a given domain to allow effective connections to be made between data sources. More ambitiously unique identifiers are not only assigned to "things" (e.g. a compound) but also assigned to concepts such as "hydrolyses", "is a", etc (e.g "NaCl is a salt") to allow more advanced search and reasoning over large data-sets. In the chemistry domain the CAS-number is an example of such a unique identifier; another one is the IUPAC InChI which rapidly gains popularity and support. As data volumes increase we would want to address increasingly complex search questions and rapid answers to questions such as "provide all compounds which have been associated with liver toxicity and list their interaction profiles with the transporters expressed in the liver" are becoming crucial for the success of drug discovery research programs. Currently, answering such a broad question requires cumbersome parsings, reading and integration efforts. The ideal situation would be an immediate answer to this question, with the full possibility to 'drill down' in the underlying information resources for deeper investigation.

The Concept Web Alliance (CWA), formed in 2009 and comprising over 90 participants from academia and the private sector worldwide, is a collaborative community seeking to apply semantic concepts to deal with the massive amounts of information flooding the biological sciences and (later) other scientific disciplines. Many participants are also participants or members of other related networks and alliances, such as the W3C, the Pistoia Alliance and SageBionetworks, to name just a few. Collaboration of these like-minded alliances is a stated aim of CWA, which is built on the principles of Open Source, Open Access and Open Data. The rationale for the CWA semantic web approach is that classical data warehousing methods are no longer scalable to the size, spread and complexity of life science datasets, information resources and data analysis needs. These aims fit very well with the challenges already identified in harnessing public data for drug discovery.

A first step towards better global data integration and innovative ways to manage these data to produce meaningful information and finally knowledge is obviously the interoperability of the various data and information sets. Although standards are indispensible to this process, the discussions about standards can be lengthy and in fact may have an inherent potential side effect of blocking the very process it aims to accelerate. The consequences of not agreeing to common standards are evident when looking on public bioactivity data bases such as PubChem, BindingDB, and DrugBank. All of them host a broad range of pharmacological activity data, mostly manually curated, which are accessible through various web-based tools. However, the lack of common standards for representation of these data makes it excruciatingly time consuming to exploit the information present. Nevertheless, in a fully connected world where many different teams are providing valuable, but specialist, datasources top down approaches as e.g. previously enforced by IUPAC for chemical nomenclature, will most likely fail in the biomedical domain.

As an example, the CWA has adopted the approach of 'bottom up standard setting by best practices'. Recognizing that the power of standards lies in their widespread adoption the CWA firmly believe that the only long-term sustainable model for a scientific system to support global computational biology approaches as needed is full openness around the core semantic components, vocabularies and interfaces. However, this does not preclude the exposure and the delivery of proprietary content, nor does it preclude value-added closed-source or commercial services delivered on top of this system.

In order to succeed and gain widespread community adoption, this approach will need to go way beyond the current state of the art of tools in the life sciences and semantic web domain. The transition from classical, hypothesis driven research towards systems approaches requires rigorous new methodology. A further key challenge is that current data sources are largely incompatible with massive computational approaches and the vast majority of drug-discovery sources cannot easily interoperate. Recently developed data and text mining approaches, improved data capture standards, and leveraging semantic web technology open a first-timeopportunity to achieve interoperability through the semantic harmonization of data in key data sources. A priori data interoperability 'at the source' would therefore be a desired long-term effect of this distributed approach. Regarding questions around long-term sustainability of available resources, recent studies in the scope of the ELIXIR project have shown that out of 531 databases surveyed, 63 were either not online anymore or had not been updated since 2005 and, for a further 78, the update status was unclear. More importantly, less than 10% of the biomolecular resources surveyed indicated that they had multi-annual funding secured. The data resource landscape is therefore very fragile and a large and influential consortium involving academic as well as industrial drugdiscovery partners can play an important role in capturing the most important 'assertional content' globally in a stable, interoperable and sustainable format.

The semantic approach, is based on the extraction and encoding of free-text, table, image, molecular sequence and structured information in Resource Description Framework (RDF) assertions that together with provenance data to form the basic building block of interoperability. The concept of RDF "triple"s (extracted simple assertions, also called nanopublications by CWA) has already been adopted by a wide and rapidly expanding community and is being implemented both for bioinformatics and chemogenomics. For instance, the Bio2RDF.org project aims to transform different sources of bioinformatics data into a distributed platform for biological knowledge discovery. Initially, the authors focused on building a public database of openlinked data with web-resolvable identifiers that provides information about named entities. This involved the conversion of open data represented in a various formats to RDF-based linked data with normalized names. Bio2RDF entities also make reference to other open linked data networks thus facilitating traversal across information spaces. Bio2RDF is currently indexing around 5 billion triples, and is built with the open source Virtuoso database. However, currently the redundancy problem is not yet handled in Bio2RDF and in the linked open "data-cloud" in general. One step further is the Chem2Bio2RDF initiative, which comprises a repository aggregating data from multiple chemogenomic data sources that is cross-linked to Bio2RDF. Chem2Bio2RDF also includes a tool to facilitate query generation as well as a set of extended functions to address specific chemical/biological search needs. Potential usefulness in specific examples of polypharmacology, multiple pathway inhibition and adverse drug reaction-pathway mapping has been demonstrated.8 Another very valuable source recently launched is ChemProt (www. cbs.dtu.dk/services/ChemProt/), a disease chemical biology database, which is based

on a compilation of multiple chemical-protein annotation resources, as well as diseaseassociated protein-protein interactions (PPIs).9 ChemProt comprises more than 700.000 unique chemicals with biological annotation for 30.578 proteins, leading to more than chemical-protein interactions, million which were integrated in a quality scored human PPI network of 428.429 interactions. ChemProt can assist in the in silico evaluation of environmental chemicals, natural products and approved drugs, as well as the selection of new compounds based on their activity profile against most known biological targets, including those related to adverse drug events. Nevertheless, the increasing availability of linked data sources also requires innovative browsing and navigation tools, such as iPHACE (cgl.imim.es/iphace/).10 iPHACE represents an integrative web-based tool to navigate in the pharmacological space defined by small molecule drugs contained in the IUPHAR-DB, with additional interactions present in PDSP. Extending beyond traditional querying and filtering tools, iPHACE offers a means to extract knowledge from the target profile of drugs as well as from the drug profile of protein targets.

Open Pharmacological Space

In light of all these developments and in order to foster public-private partnership the Innovative Medicines Initiative launched a call for development of an Open Pharmacological Space to establish a set of practical standards for the major public drug discovery resources and to implement these standards in a public infrastructure to the benefit of both pharma and academic drug-discovery communities. Open PHACTS, the winning consortium, will concentrate on a semantic web approach to develop an open source, open standards and open access innovation platform (OPS). The Open PHACTS project will be one of the first international attempts to create a reliable and scalable system, a common product beyond collective prototyping. OPS aims to deliver a sustainable, reliable web based environment

through proven agile software engineering models. OPS will comprise data, vocabularies and infrastructure needed to accelerate drugoriented research. This semantic integration hub will address key bottlenecks in small molecule drug discovery: disparate information sources, lack of standards and shared concept identifiers, guided by well defined research questions assembled from participating drug discovery teams. Workflows for data capture, visualization. processing, interoperability, and chemogenomics will be developed to create a comprehensive Systems Chemical Biology Analysis Network. Security issues around proprietary data, shared via the CWA nanopublication system and accessible for safe querying and reasoning will be properly addressed with expert trusted parties. The core Open PHACTS consortium comprises 14 European core academic and SME partners as well as 8 EFPIA members, with leading experts in the fields of data mining, annotation, small molecule data storage and manipulation, target related bioinformatics, RDF-type information handling, massive in silico reasoning and chemical biology. Noteworthy, Open PHACTS is not only open in terms of data but also in terms of the consortium itself. With the alignment of other Knowledge Management projects in IMI and a wider community of like-minded partners it is likely that already in 2011 the approach

taken by Open PHACTS will be actively followed, co-developed and implemented by close to 100 partners world-wide. Any partner with an interest and an ability to contribute data, software or expertise is principally considered as an 'associated partner'.

Dissemination and community engagement will also utilize the manifold channels EFMC and RSC can provide. A large and influential consortium like this, involving academic groups, learned societies, as well as industrial drug-discovery partners collaborating in the context of OPS is likely to increasingly drive researchers around the globe to capture and distribute data and information in a semantically interoperable and computer readable format, as their data will 'connect' and 'mean' more from the onset. We therefore emphasize that - if successful and sustainable - the OPS project is likely to significantly contribute to more successful and cost-effective development of drugs and vaccines in human and animal health, as well as in nutrition and personal genomics. Turning data into knowledge is the cornerstone of successful drug discovery, but is the core business of science in general. A future driven by the open sharing of data, tools, services and workflows benefits the whole scientific community.

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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)

Latvian Association for Medicinal Chemistry

The Netherlands Section Medicinal Chemistry, Royal Netherlands Chemical Society (KNCV)

Poland Polish Society of Medicinal Chemistry

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Serbian 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%

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Telephone +43-1-587-42-49 or +43-1-587-39-80

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Activities • 6th Summer School on Drug Design

(September 11-16, 2011), Vienna, Austria

14th Austrian Chemistry Days

Minisymposium Medicinal Chemistry (September 26-29, 2011), Linz, Austria

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EFMC-Delegate Prof. Dr Gerhard PUERSTINGER

(Universität Innsbruck)

NAO Secretariat Mrs Gabriela EBNER

(Austrian Chemical Society)

BELGIUM (KVCV)



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

Founded 2002 120 **Members**

Postal address Celestijnenlaan 200F 3001 Herverlee Belgium

> +32-16-29-32-14 Telephone +32-16-22-68-92 Fax

> > info@kvcv.be E-mail www.kvcv.be Website

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

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

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> Dr Peter TEN HOLTE Secretary

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NAO Secretariat KVCV

(Medicinal and Bioorganic Chemistry Division)

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 126

Postal address ULB, CP 160/07

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E-mail src@ulb.ac.be

Website www.src.be

Activities The DMC organises annually a Symposium aimed at updating interested participants on particularly rapidly evolving areas of pharmaceutical research, by specialists in their respective field.

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

Annual One Day Meeting on Medicinal Chemistry, Medicinal Chemistry Division of SRC & Medicinal and Bio-Organic Chemistry Division of KVCV.

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

(November 2011), Belgium

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(Differding Consulting s.p.r.l)

EFMC-Delegate Dr Edmond DIFFERDING

(Differding Consulting s.p.r.l)

NAO Secretariat SRC

(Medicinal Chemistry Division)

CROATIA



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

> 2009 (Croatian Chemical Society was founded in 1926) Founded

> > 80 Members

Mission

Trade and Industry: 40% Member profile

Research Institute: 20% University: 20% Others: 20%

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HR-10000 Zagreb Croatia

+385 (0)1 460 6164 Telephone

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> ntrajkov@hkd.hr E-mail www hkd hr Website

Section meetings/workshops/lectures/discussions/forums **Activities**

 XXII Croatian Meeting of Chemists and Chemical Engineers (February 13-16, 2011), Zagreb, Croatia

> Prof. Dr Vitomir SUNIIC President

(Chirallica)

Dr Biserka PRUGOVECKI / Ms Nada TRAJKOV Secretary/Treasurer

(Croatian Chemical Society)

Dr Ivica MALNAR **EFMC-Delegate**

(Galapagos)

DENMARK

The Danish Society of Pharmacology, Toxicology and Medicinal Chemistry



Mission To advance the development of Pharmacology,

Toxicology and medicinal chemistry.

Members 377 members of which 120 are members

of the medicinal chemistry section.

Member profile Trade and Industry: 50%

Research Institute and University: 50%

Postal address Att. Inger Marie Bro

Wilh. Meyers Alle, bygning 240 Bartholinbygningen, Univ. park

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Telephone +45-89-42-17-26

Fax +45-86-12-88-04

E-mail imb@farm.au.dk Website www.dsftm.dk

Activities 5-10 yearly seminars on current topics in pharmacology,

toxicology and medicinal chemistry.

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(Danish Society of Pharmacology, Toxicology and Medicinal

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FINLAND



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

Members 320 of which 30 are members of the medicinal chemistry group

Postal address

Founded

Fredrikinkatu 61 00100 Helsinki

Finland

+358-(0)9-19159190

erik.wallen@helsinki.fi E-mail Website

http://pro.tsv.fi/finpharmsociety/index.htm

Activities

Telephone

• Symposia (co-organizer of Helsinki Drug Research and PharmSciFair symposia), courses, seminars and discussions

Grants and awards (Albert Wuokko Award)

• Participation in Federation of Finnish Learned Societies, EFMC and EUFEPS platforms

President

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Dr Erik WALLEN

EFMC-Delegate

(University of Helsinki)

FRANCE

Société de Chimie Thérapeutique



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

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E-mail - Website herve.galons@univ-paris5.fr - www.sct.asso-fr

Activities Organisation of meetings and conferences.

Awards: Every two-year: Prix Charles Mentzer, rewarding a fruitful

career in Medicinal Chemistry.

Every year: Prix d'encouragement à la recherche en Chimie Thérapeutique, for junior scientists. Paul Ehrlich Lecture, attributed every year during the annual meeting. Prix de la vocation en Chimie Thérapeutique, attributed to students during the annual meeting. **Publishing activities:** Scientific editing of The European Journal of Medicinal Chemistry, Elsevier, 1 issue per month (2004 Volume 39).

• Young Research Fellow Meeting (February 4, 2011), Paris, France

• Joint Meeting SCT-SFC-Académie Nationale de Pharmacie (ANP)

(March 22, 2011), Paris, France

 RICT 2011 - 47th International Conference on Medicinal Chemistry 47èmes Rencontres Internationales de Chimie Thérapeutique (July 6-8, 2011), Lyon, France

• SCT Annual Workshop in Medicinal Chemistry

(December 2011), Paris, France

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EFMC-Delegate Dr Yves ROLLAND (Les Laboratoires Servier)

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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

Founded 1971 at Karlsruhe, Germany 800 **Members**

Trade and Industry: 60% Member profile Research Institute and University: 35%

Other: 5%

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u.Bechler@gdch.de E-mail Website www.gdch.de/gdch e.htm

Activities Annual meetings, interdisciplinary symposia, scientific publications, award.

• Frontiers in Medicinal Chemistry, a Joint German-Swiss Meeting (March 20-23, 2011), Saarbrücken, Germany

> XXIInd International Symposium on Medicinal Chemistry (September 16-20, 2012), Berlin, Germany

> > Dr Hans-Ulrich STILZ President (Sanofi-Aventis)

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GERMANY (DPhG)

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Mission To foster the whole area of Medicinal Chemistry in University

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Founded 1985 Members 679

Member profile Trade and Industry: 20%

University: 60% Others: 20%

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60486 Frankfurt am Main

Germany

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E-mail info@dphg.de Website www.dphg.de

Activities Annual awards in Medicinal Chemistry (Germany), coope-

rations with other organisations, support of the education in

Medicinal Chemistry, annual meetings.

• Frontiers in Medicinal Chemistry, a Joint German-Swiss Meeting

(March 20-23, 2011), Saarbrücken, Germany

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(September 16-20, 2012), Berlin, Germany

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EFMC-Delegate Prof. Dr Bernd CLEMENT

(Universität Kiel)

NAO Secretariat DPhG

(Section of Pharmaceutical/Medicinal Chemistry)

GREECE



Iellenic Society of 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% Member profile

Research Institute: 30% University: 40%

Other: 10%

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(University of Athens)

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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%

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Hungary

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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.

• 1st National Chemistry Conference

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• 4th European Conference on Chemistry for Life Sciences (4ECCLS)

(August 31 – September 3, 2011), Budapest, Hungary

• 3rd Balaton Course in Medicinal Chemistry (September 2011), Balatonszemes, Hungary

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(University of Szeged)

EFMC-Delegate Ass. Prof. Dr János WÖLFLING

(University of Szeged)

NAO Secretariat HCS

(Organic and Medicinal Chemistry Division (OMCD))

ISRAEL



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. IAMC is open for membership to molecular biologists, pharmacologists and pharmacists.

Mission

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

200 Members

Trade and Industry: 35% Member profile

Research Institute and University: 60%

Other: 5%

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School of Pharmacy – Faculty of Medicine Hebrew University of Jerusalem

PO Box 1206591120 Jerusalem Israel

+972-39166142, cell: +972-54-8886119 **Telephone** +972-39166361 **Fax**

Raphael.nudelman@teva.co.il E-mail
www.weizmann.ac.il/conferences/medchem/ Website

The Association holds symposia and annual scientific meetings. Promotion of one-day symposia on new vistas in drug research and a workshop on progress in instrumental drug analysis, and representation of the Association at the EFMC and related international bodies.

Activities

• 9th Congress of the Israeli Association for Medicinal Chemistry

(March 2011), Rehovot, Israel

Dr Raphael NUDELMAN President (ad interim)
(Teva Pharmaceutical Industries)

Temporarily unassigned EFMC-Delegate

ICS NAO Secretariat

(Medicinal Chemistry Section)



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

• X Laboratory of Synthetic Methodologies in Medicinal Chemistry (February 13-17, 2011), Certosa di Pontignano, Siena, Italy

• 30th Camerino-Cyprus-Noordwijkerhout Conference

(May 1-6, 2011), Limassol, Cyprus

 VII I-A-CZ-D-GR-HU-PL-SK-SL Joint Meeting on Medicinal Chemistry 2011 (30 June-2 July, 2011), Catania, Italy

• 31th Edition of the European School of Medicinal Chemistry (ESMEC) (July 3-8, 2011), Urbino, Italy

 XXIV National Congress of the Italian Chemical Society SCI 2011 (September 11-15, 2011), Lecce, Italy

Summer School on Pharmaceutical Analysis (SSPA)

(September 19-21, 2011), Pavia, Italy

• Recent Developments in Pharmaceutical Analysis (RDPA)

(September 21-24, 2011), Pavia, Italy

 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)





Latvian Association for Medicinal Chemistry

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 Me-

dicinal 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 28th 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

+31-412-662546

E-mail jac.wijkmans@spcorp.com

Website www.kncv.nl

Fax

Activities • Spring Symposium: Resistance in Pharmacotherapy

(March 25, 2011), Utrecht, The Netherlands

• 30th Camerino-Cyprus-Noordwijkerhout Conference

(May 1-6, 2011), Limassol, Cyprus

• 20th LACDR School on Medicinal Chemistry (October 2011), Oegstgeest, The Netherlands

Dutch Medicine Days 2011

(October 3-5, 2011), 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)

POLAND



Polish Society of Medicinal Chemistry

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 Founded 50 Members

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

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

ptchm@ptchm.pl **E-mail** www.ptchm.pl **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

Executive Committee

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

 4th Polish Meeting on Medicinal Chemistry (September 8-10, 2011), Lublin, Poland

Prof. Dr Katarzyna KIEC-KONONOWICZ (Jagiellonian University) EFMC-Delegate

PORTUGAL





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 62

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 biennially.

President Prof. Dr M. Luisa SÁ E MELO

(University of Coimbra)

EFMC-Delegate Prof. Dr Rui MOREIRA

(University of Lisbon)

NAO Secretariat PCS

(Group of Medicinal Chemistry)

RUSSIA



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

Education in Medicinal Chemistry.

Organisation of regular scientific seminars.

Mission

2000 Founded 150 Members

Research Institute: 67% Member profile

University: 26%

Other: 7%

RU-119899 Moscow Postal address

Russia

+ 7 095 939 1620 Telephone + 7 095 939 0290 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

 International Congress on Organic Chemistry (September 18-23, 2011), Kazan, Russia

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

Prof. Dr Nikolay S. ZEFIROV

(Moscow State University)

President

Prof. Sergey BACHURIN (Institute of Physiologically Active Compounds)

Vice-President

Prof. Sergey BACHURIN

(Institute of Physiologically Active Compounds) 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

Research Institute and University 86%

Others 4%

Industry 6%

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.

EURO analysis 16

European Conference on Analytical Chemistry (September 11-15, 2011), Belgrade, Serbia • 49th Meeting of the Serbian Chemical Society (May 13-14, 2011), Kragujevac, Serbia

Teacher's days

(April 26-27, 2011), 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)

SLOVENIA



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 workinggroup 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 Founded

28 **Members**

Trade and Industry: 20 % Member profile

Research Institute: 15 % University: 60 %

Others: 5 %

Postal address University of Ljubljana

Faculty of Pharmacy Aškerceva 7 1000 Ljubljana Slovenia

+386 1 4769561 Telephone +386 1 4258031 Fax

E-mail danijel.kikelj@ffa.uni-lj.si

www.sfd.si Website

Activities 4th BBBB International Conference on Pharmaceutical Sciences

(September 29 - October 1, 2011), Bled, Slovenia

Dr Lucija PETERLIN MAŠIC President

(University of Ljubljana)

EFMC-Delegate

Prof. Dr Danijel KIKELJ (University of Ljubljana)

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 395

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.

• SEQT Second Summer School on "Medicinal Chemistry in Drug Discovery: the Pharma Perspective"

(June 26-29, 2011), San Lorenzo de El Escorial, Madrid, Spain

• XVI Congreso de la Sociedad Española de Química Terapéutica (September 2011), Valencia, Spain

SEQT XVth edition Awards for Young Researchers

President Prof. Dr María L. LÓPEZ-RODRÍGUEZ

Secretary

(Universidad Complutense de Madrid)
Dr Ana Rosa SAN FÉLIX GARCÍA (IQM-CSIC)

Treasurer Dr Sonsoles VELÁZQUEZ DÍAZ (IQM-CSIC)

EFMC-Delegate Prof. Dr María L. LÓPEZ-RODRIGUEZ

(Universidad Complutense de Madrid)

NAO Secretariat SEQT (Sociedad Española de Quimica Terapéutica)

SWEDEN



The Swedish Academy of Pharmaceutical Sciences Section for Medicinal Chemistry

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

Mission

Founded 276 Members

Trade & Industry: 70% Member profile

Research Institute: 1% University: 19% Other: 10%

Wallingatan 26A Postal address
SE Stockholm

SE Stockholm Sweden

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

Symposia, seminars, courses. Activities

 5th Anglo-Swedish Medicinal Chemistry Symposium (March 20-23, 2011), Are, Sweden

> • Frontiers in Medicinal Chemistry (June 19-21, 2011), Stockholm, Sweden

> > Prof. Dr Anders KARLÈN President (Uppsala University)

Anna-Lena GUSTAVSSON Secretary/Treasurer
(Karolinska Institutet)

Dr Agneta LARHED Secretary
(Swedish Academy of Pharmaceutical Sciences)

Prof. Dr Anders KARLÈN **EFMC-Delegate** (Uppsala University)

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

• Frontiers in Medicinal Chemistry, a Joint German-Swiss Meeting

(March 20-23, 2011), Saarbrücken, Germany

• Fall Meeting of the Swiss Chemical Society (September 9, 2011), Lausanne, 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))

TURKEY



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

+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 President (Gazi University)

Prof. Dr M. Fethi SAHIN EFMC-Delegate

(Gazi University)

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 OBA 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

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.

3rd RSC-BMCS Fragment-based Drug Discovery meeting

(March 7-8, 2011), Stevenage, UK

AntiMalarial Drugs: Chemistry Development & Future Challenges

(March 15-16, 2011), London, UK

5th Anglo-Swedish Medicinal Chemistry Symposium ASMC 2011

(March 20-23, 2011), Are, Sweden

• Proteinase 2011: from molecules to medicines - 7th SCI-RSC symposium on proteinase inhibitor design (April 11-12, 2011), Basel, Switzerland

• 16th RSC/SCI Medicinal Chemistry symposium

(September 11-14, 2011), Cambridge, UK

President Dr Phil JONES (Merck)

Secretary Dr Stuart CAMERON (Peakdale)

EFMC-Delegate Dr David ALKER (David Alker Associates)

The RSC Drug Discovery Series



Emerging Drugs and Targets for Alzheimer's Disease Edited by Ana Martinez | Medicinal Chemistry Institute CSIC. Spain

ISBN: 9781849730457 Price: £220.00 Publication: May 2010

A comprehensive 2-volume set that collects some of the most outstanding examples of new drugs currently in pharmaceutical development or new targets under the validation process that will reach the Alzheimer's market in the next few years as disease-modifying therapeutics. Series is a suite of professional reference books that will encourage learning in a range of different topics and provide understanding to scientists working outside of their own areas of expertise. The competitive advantage of the series is that it will follow an idea through to totality with an emphasis on learning and critical evaluation.

The new RSC Drug Discovery



Metabolism, Pharmacokinetics and Toxicity of Functional Groups: Impact of Chemical Building Blocks on ADMET Edited by Dennis A Smith | Pfizer Global R & D. UK

ISBN: 9781849730167 Price: £144.99 Publication: April 2010

Written by medicinal chemists and ADMET scientists with a combined experience of 300 years, this aid to discovering drugs provides detailed coverage on absorption, distribution, metabolism, excretion and toxicity issues associated with drugs.



Accounts in Drug Discovery Case Studies in Medicinal Chemistry

Edited by Joel Barrish, Percy Carter, Robert Zahler, Peter Cheng | Bristol-Myen-Squibb, USA

5BN: 9781849731263 Price: £132.99 Publication: October 2010

This book describes recent case studies in medicinal chemistry with a particular emphasis on how the inevitable problems that arise disling any project can be surmoursed or overcome.



New Frontiers in Chemical Biology Enabling Drug Discovery

Edited by Mark Bunnage | Plazer Gobal R & D, UK

GBrc 9781849711256 Price £132.99

Publication: December 2010

Highlights new frontiers in chemical biology and describes their cripact and future potential in the field of drug discovery. Editor-in-Chief:

Professor David Thurston London School of Pharmacy, UK

Series Editors: Dr David Fox Pfiner Global R & D. LIK

Professor Salvatore Guccione

University of Catania, Italy Professor Ana Martinez

Medicinal Chemistry Institute-CSIC Spain

Dr David Rotella Northeastern University, USA

Advisor to the Board: Professor Robin Ganellin University College London, UK

What every ellips was made to ensure these process were convict as the time of going to price. All what power is subject to change without makes

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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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American Chemical Society Publications



support@services.acs.org pubs.acs.org

Tel: +1 800 227 9919 (U.S. and Canada) or +1 202 872 4357 (outside North America)

The American Chemical Society publishes high quality journals at the interface of chemistry, biology and medicine, including the most cited and highest impact original research Journal in Medicinal Chemistry, the Journal of Medicinal Chemistry. In 2010, ACS introduced ACS Medicinal Chemistry Letters publishing brief communications on experimental or theoretical results of exceptional timeliness in all aspects of medicinal chemistry and its extension into pharmacology.

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B.R.S.	Steenweg op Ruisbroek 290	1620	DROGENBOS	+32 23342270	BE
BASF AG	Carl-Bosch-Strafle 38	67056	LUDWIGSHAFEN	+49 (0)621 60-0	DE

Bayer AG



contact person: Ingo Drawert bsp-hochschulmarketing@bayerhealthcare.com Tel: 03046816957 www.myBayerjob.de/en

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