Editorial

Dear colleagues,

There is a time for every professional association to revisit its strategic priorities and to undertake new actions, thus fulfilling the organisation's mission to better serve its associates. Having this in mind, at the beginning of 2013 the European Federation for Medicinal Chemistry organised a workshop in Frankfurt to brainstorm about future priorities EFMC should emphasize.

It was very important for me to create an opportunity to bring together EFMC key stakeholders including the Council, the various committee members and the next generation of leaders to engage in a dialogue about strategic initiatives EFMC needs to push to best serve the medicinal chemistry community in Europe and across the world in times of unprecedented change in the life science enterprise. The workshop allowed us to step out of the day to day business to clarify what we do very well and want to keep on doing and also to reflect what new activities are required in a rapidly changing environment and how to make those new initiatives happen.

The workshop was conducted in the format of a "World Café" to first brainstorm and then to select priority activities together to follow-up. As a result we established 8 working groups that were asked to come up with concrete proposals for implementation.

The topics/working groups selected were:

- EU Policy
- Visibility of EFMC/Medicinal Chemistry
- Social Media
- Interaction within the community
- Young Scientist Meeting
- Emerging markets
- Links to other disciplines
- Stakeholder map

Working group progress has been reviewed in the meantime with one TC and during the Council meeting in September 2013 in Brussels. Based on all the inputs the Executive Committee proposed to modify the EFMC framework to put more emphasis on promoting the visibility of our discipline to key stakeholders as long term-strategic EFMC focus. In addition, we have implemented flexible working groups to cover topics for exploration and operational tasks.

I invite you all to discover the new framework of EFMC on the next pages of this Yearbook!

In 2013 EFMC focused its activities to both foster the scientific excellence and training of our discipline in Europe and at the same time to facilitate collaborations across academia, biotech and the pharmaceutical industry. With this editorial, I will provide you with an overview of important events in 2013 and planned activities of our Federation in 2014.

But first of all, I would like to take the opportunity to welcome Pascal George as a new member of the Executive committee. I am very much looking forward to working with Pascal and the other EC members in the upcoming year: Koen Augustyns (President Elect), Hein Coolen (Treasurer), Gabriele Costantino (EC member), Jordi Gracia (EC member) and Phil Jones (EC Member).

Let me also sincerely thank the Past President, Gerhard Ecker, for the work and time he devoted to EFMC during the past years. His strong commitment to the frontiers of our science has continued to foster the visibility and reputation of EFMC in the scientific community. He also played a key role in facilitating the dialogue with major European science initiatives including the Innovative

Medicine Initiative. His input, his enthusiasm and continuous support to EFMC are highly appreciated. Furthermore, I would like to thank Edmond Differding for his contributions to the EFMC Council, and welcome Laurent Provins. who will succeed Edmond as Council member. I also welcome Janos Sapi (France), Jarkko AFMC International Medicinal Chemistry Rautio (Finland) and Erhan Palaska (Turkey).

Main EFMC events in 2013 were the ASMC Meeting in Moscow and the Frontiers in Medicinal Chemistry meeting in San Francisco.

The 5th edition of the International Symposium on Advances in Medicinal Chemistry (ASMC 2013) took place in Moscow, Russia on May 5-8, 2013. Prof. Peter Seeberger (Max Planck Institute of Colloids and Interfaces, DE) and Dr Alan Palkowitz (Eli Lilly & Company, USA) were the chairmen of the symposium, where American and European chemists met Eastern European scientists in the areas of synthetic and medicinal chemistry. The symposium, organised by EFMC and ChemBridge Corporation attracted 235 participants representing a large number of countries, pharmaceutical and biotechnology companies and academic institutions. The next edition of the symposium will take place in Kiev, Ukraine on May 3-7, 2015.

Together with the American Chemical Society (ACS), EFMC organised the Frontiers in Medicinal Chemistry Meeting, which took place in San Francisco on June 23-26, 2013. This symposium is the fourth in the series initiated in Siena, Italy in 2007 and continued in Barcelona, Spain in 2009 and Stockholm, Sweden in 2011. The theme of this year's meeting was "Emerging Targets, Novel Candidates and Innovative Strategies", and with 288 participants, the 2013 edition was

very successful. The next edition will be held in 2015 in Europe.

Besides these major events, the EFMC has been organising a session at the ACS Spring meeting in New Orleans and at the Symposium (AIMECS) in Taiwan in 2013.

"Education and Training" is also a cornerstone of the mission of EFMC and are provided to young scientists and industrial researchers through our summer schools and short courses. Besides the European School of Medicinal Chemistry organised every year in Urbino (Italy), the EFMC supports schools in Leiden (The Netherlands), Leysin (Switzerland), Nottingham (UK), Vienna (Austria), and Pavia (Italy).

With the aim to support training and networking within the medicinal chemistry community, EFMC is organising Short Courses on Medicinal Chemistry. In April of this year, Andrew Leach (University of Liverpool) and George Keseru (Hungarian Academy of Sciences) organised a Course on "Principles of Molecular Recognition". The organisers have been putting together an excellent scientific programme and I'm grateful to Andrew and George for helping EFMC in fulfilling the important mandate to support the education and training of today's medicinal chemists. The course was highly rated by the participants, and will therefore be repeated in fall 2014. In spring 2014, Dr Jesper Lau (Novo Nordisk, Denmark) will organise the 8th EFMC Short Course on "Engineering of Biopharmaceuticals". The Course is planned for March 16-19, 2014 and will take place in Oegstgeest (near Leiden), the Netherlands. Detailed information can be found on the website www.efmcshortcourses.org.

For 2014, the main event will be the XXIII EFMC International Symposium on Medicinal Chemistry (EFMC-ISMC), organised in collaboration with the Group of Medicinal Chemistry of the Portuguese Chemical Society and scheduled for September 7-11, 2014 in Lisbon. The 2014 edition will continue the tradition established by these biennial symposia and will cover drug discovery advances in the major therapeutic areas, including neglected diseases, CNS disorders, inflammation, metabolic disorders, and oncology. EFMC-ISMC 2014 will present the most recent advances in lead identification and optimization strategies, drug design and profiling technologies, and illustrate the impact of biomarkers and imaging at the interfaces between chemistry, biology and experimental medicine. Particular emphasis will be put on first time disclosures, recent highlights in medicinal chemistry, and organic synthesis which had a strong impact on medicinal chemistry. Registration is already open and I would like to encourage you to sign up for this premier medicinal chemistry event of 2014!

The European Federation for Medicinal Chemists also rewards scientific excellence. The prestigious EFMC Awards, conferred every two years on occasion of the EFMC International Symposium on Medicinal Chemistry recognise outstanding research and achievements in Medicinal Chemistry. Additionally, EFMC established the EFMC Prizes to acknowledge the scientific accomplishments of young medicinal chemists, both in industry and academia. These prizes are given annually and are restricted to scientists who completed their PhD ten or less years ago from January 1st of the year during which the Prize is to be presented. The calls for the 2014 Awards

and Prizes are open, and I would like to encourage you to submit nominations before the deadline of January 31!

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

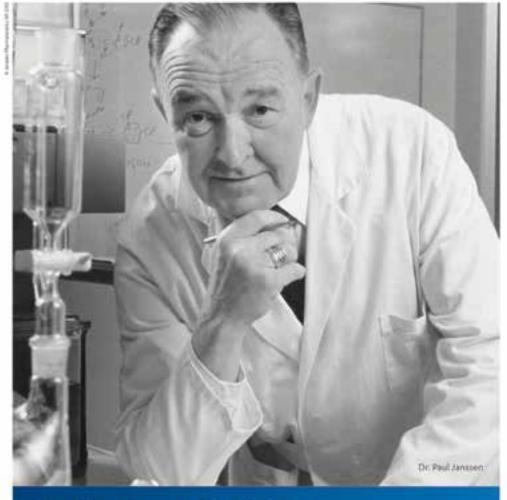
Furthermore MedChemComm, the EFMC iournal published in collaboration with RSC, is released monthly and contains scientific work of the highest quality in all fields of medicinal chemistry. The two editors in chief, Greg Verdine (Harvard University) and Anthony Wood (Pfizer) are doing a wonderful job to develop this journal and I'm grateful for having them on board. I am also delighted to welcome Professor Christa E. Müller (University of Bonn, Germany) as the new Associate Editor for Europe. As EFMC President, I would now like to ask all of you for your support by submitting vour newest results!

Let me close by encouraging all of you to actively participate in the community and shape Medicinal Chemistry in Europe with your ideas and your enthusiasm. Please don't hesitate to reach out to me with your ideas, wishes, and concerns.

With best personal regards,

Uli Stilz, President, EFMC

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

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EFMC offers any company involved in life sciences 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

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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.

















EFMC Objectives

Council

Council

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

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

The European Federation for Medicinal Chemistry (EFMC) is an independent association founded in 1970 that represents 25 scientific organisations from 23 European countries. Its objective is to advance the science of medicinal chemistry by promoting cooperation and encouraging strong links between the national adhering organisations in order to deepen contacts and exchanges between medicinal chemists in Europe and around the World. Moreover, it offers medicinal chemists the opportunity to present their work internationally by organising the biennial EFMC International Symposium on Medicinal Chemistry (EFMC-ISMC). These symposia, with an average attendance of 1.200 delegates, are highly international with a broad range of speakers and attendees from the pharmaceutical industry and academia. Furthermore, in collaboration with the Royal Society of Chemistry, EFMC is publishing MedChemComm, the official journal of EFMC. MedChemComm is a peer reviewed journal publishing concise articles and reviews covering medicinal chemistry research.

The EFMC pursues its activities via flexible working groups, who cover strategic themes, themes for exploration, and operational tasks. A Scientific Advisory Board, composed of internationally highly recognised opinion leaders in the field of medicinal chemistry, assists in strategic planning and ensures a dynamic and vibrant advancement of EFMC.

The EFMC has very strong links with the Medicinal Chemistry Division of the American Chemical Society. Through this collaboration the ACS convenes sessions for the biennial ISMC Symposia, and conversely the EFMC convenes sessions for ACS National meetings. Together with the ACS, EFMC also organises every two years the Frontiers in Medicinal Chemistry Meeting. 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. EFMC is also active on social media. To stay updated on EFMC activities, join the EFMC group on LinkedIN or follow us on Twitter @EuroMedChem.

Future **EFMC** Framework

Future **EFMC** Framework

At the workshop organised in Frankfurt in February 2013, the invitees jointly discussed about future priorities the EFMC should emphasize, taking EFMC's pillars as a starting point for discussion:

- cooperation and networking within the global scientific community
- future training and mentoring of young scientists
- rewarding scientific excellence
- enabling communication within the scientific community
- promoting influence and communication with the stakeholders

Goal of the brainstorming was to define future activities of the EFMC and to build a roadmap how to promote medicinal chemistry within Europe at a time where we see unprecedented changes in the life science enterprise.

The stimulating discussions, held in a good atmosphere were very fruitful. Ideas came up, proposals were collected and working groups have been established, translating creativity and lateral-thinking into concreteness.

As a result we established 8 working group who were asked to come up with concrete proposals for implementation. The topics/working groups selected were:

- EU Policy
- Visibility of EFMC/Medicinal Chemistry
- Social Media
- Interaction within the community
- Young Scientist Meeting
- Emerging markets
- Links to other disciplines
- Stakeholder map

Working group progress has been reviewed in the meantime and overall the project teams have made great progress. Already some of their proposals have turned into day to day activities (e.g. the use of Social media), some working groups are at the stage of prioritising proposals for follow-up, and one working group (stakeholder maps) has completed its activity and was closed. As expected we also identified some overlap between the different working groups and the committees.

Based on all the inputs of the last 12 months the EC proposed to modify the EFMC framework to focus on two strategic areas, to enable flexible exploration of new topics involving all EFMC stakeholders (Council, Scientists, Advisory Board, Executive Committee), and to improve day to day operations. As a result the EC proposes the following EFMC framework:

1. Strategic themes

- Influence on European science policy

Current Membership:

- Rob LEURS, VU University Amsterdam, the Netherlands
- Uli STILZ, EFMC President, Germany
- Christophe GENICOT, UCB, Belgium
- Anders KARLEN, Uppsala University, Sweden
- Danijel KIKELJ, University of Libuljana, Slovenia
- Phil JONES, University of Dundee, UK

- Visibility and recognition of medicinal chemistry

Current Membership:

- Fabrizio GIORDANETTO, Taros, Germany
- Gabriele COSTANTINO, EC Member, Italy
- Laure BOUCHEZ, Novartis, Switzerland
- Bernd CLEMENT, Kiel University, Germany
- Vesna GABELICA MARKOVIC, Galapagos, Croatia
- David REES, Astex Pharmaceuticals, UK
- Henk TIMMERMAN, VU University Amsterdam, the Netherlands
- Anna TSANTILI, University of Athens, Greece
- Andrew THOMAS, F. Hoffmann-La Roche, Switzerland

2. Exploratory themes

- Emerging markets

Current Membership:

- Edmond DIFFERDING, Differding Consulting, Belgium
- Henk TIMMERMAN, VU University Amsterdam, the Netherlands
- Pascal GEORGE, EC Member, France
- Katarzyna KIEC-KONONOWICZ, Jagiellonian University, Poland
- Christa MÜLLER, University of Bonn, Germany
- Antoni TORRENS, Esteve, Spain
- Rui MOREIRA, University of Lisbon, Portugal

- Biotech, SME, pharma landscape and how to interact with that landscape

Current Membership:

- Rino RAGNO, University of Rome, Italy
- Pascal GEORGE, EC member, France
- Andy THOMAS, AstraZeneca, UK
- Jarkko RAUTIO, University of Eastern Finland, Finland
- Constance CHOLLET, University of Cologne, Germany
 Roberto DI SANTO, University of Rome, Italy
- Felix CALDERON, GSK, Spain

- Links to other disciplines

Current Membership:

- Christian OTTMANN, Eindhoven University of Technology, the Netherlands
- Jordi GRACIA, EC member, Spain
- Sarah SKERRATT, Pfizer, UK
- Maurizio RECANATINI, University of Bologna, Italy
- Graeme ROBERTSON, TES Pharma, Italy

Quality and visibility of training in medicinal chemistry

Current Membership:

- Marko ANDERLUH, University of Ljubljana, Slovenia
- Hein COOLEN, EC Member, the Netherlands
- Norbert HAIDER, University of Vienna, Austria

3. Operational activities

- Social media working group
- Koen AUGUSTYNS, EC member, Belgium
- Stuart CONWAY, University of Oxford, UK

- Communication team (Newsletter/Yearbook/web/EU calls)

- Gabriele COSTANTINO, EC member, Italy
- Rasmus CLAUSEN, University of Copenhagen, Denmark
- Nele COULIER, EFMC, Belgium

- Short Courses team

- Henk TIMMERMAN, VU University Amsterdam, the Netherlands
- Serge VAN CALENBERGH, Ghent University, Belaium
- Peter MOHR, F. Hoffmann-La Roche, CH

- Nomination of candidates for awards and prizes

- Henk TIMMERMAN, VU University Amsterdam, the Netherlands
- Gerhard ECKER, University of Vienna, Austria
- Fabrizio GIORDANETTO, Taros, Germany

- Symposia

EFMC International Symposium on Medicinal Chemistry, Frontiers, ASMC, EFMC Young Scientist Meeting

Each meeting will continue to be managed by dedicated organising committees President, Secretary, Secretariat to oversee and coordinate the overall meeting planning

The Executive Committee and the working groups now take up the challenge to implement the proposals, taking concrete actions both in the short and the long run.

Advisory Board

Current Committee Membership:

- Gerhard ECKER SAB Chair
- Liselotte Højgaard
- Klaus MÜLLER
- Roberto PELLICCIARI
- Greg VERDINE

(University of Vienna, Austria) (University of Copenhagen, Denmark) (F. Hoffman-La Roche, Switzerland) (University of Perugia, Italy) (Harvard University & Third Rock Ventures, US)

The Advisory Board is an EFMC consulting body for the executive committee assisting in assessing the Federation's strategic goals. The tasks of the AB consists of:

- Advising on EFMC policy related matters internally and externally
- Proposing novel scientific or political initiatives to the Executive Committee
- Proposing strategies how to increase awareness of Medicinal Chemistry and support of the community in Europe
- Proposing strategies how to affect and interact with stakeholders in Europe

The AB is composed of eminent scientists in the life sciences and medicinal chemistry and is chaired by the past president.



MedChemWatch

MedChemWatch

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Gabriele COSTANTINO

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(Gazi University, Turkey) (University of Ljubljana, Slovenia) (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.





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ASMC'13

CONFERENCE REPORT

This report was originally published in MedChemComm, 2013, issue 4, pages 1138-1144.

HIGHLIGHTS FROM ASMC'13 **Advances in Synthetic and Medicinal Chemistry**

May 5-8 2013, Moscow, Russia

Edmond Differding

EFMC & Differding Consulting, Route de Blocry 55, 1348 Louvain-la-Neuve, Belgium, edmond@differding.com

ASMC'13 Moscow (May 5-8, 2013) focused on new synthetic methodologies and aimed at expanding the drug discovery space from small to large molecules, including carbohydrates, novel protein scaffolds, dendrimers, and genes.

ASMC'13 Moscow has been organised by the European Federation for Medicinal Chemistry (EFMC) and ChemBridge Corporation, on May 5-8 in Moscow, Russia, with a programme assembled by the symposium co-chairmen, Peter Seeberger (Max Planck Institute of Colloids and Interfaces, Germany) and Alan Palkowitz (Eli Lilly & Company, United States). The symposium was held at the "Crowne Plaza Moscow World Trade Centre Hotel", overlooking the Moskva river, and situated within walking distance of the historical heart of the city. About 250 participants from 28 countries, half from industry, half from academia, attended the meeting and participated in the lively discussions.

The main topics of this symposium included new synthetic methodologies, total synthesis of natural products and heterocyclic chemistry, as well as medicinal chemistry and drug discovery and development. Beyond key lectures in synthetic and catalytic chemistry, as well as recent case studies in medicinal chemistry, the symposium aimed at expanding the chemical space from small to large molecules, including carbohydrates, novel protein scaffolds, dendrimers, and genes.

After a welcome reception on Sunday evening, the meeting was opened on Monday morning by Peter Seeberger, who highlighted the scien-

tific breadth of the topics covered in the meeting with 24 invited plenary lectures from academia and from the pharmaceutical and biotech industry in Europe, USA and former USSR countries, 2 EFMC Prize lectures, 10 short oral communications selected from the submitted abstracts, and a poster session.

He was followed by Uli Stilz (Sanofi, Germany), EFMC President, who stressed the Federation's objectives of promoting medicinal chemistry and of building bridges between disciplines and scientists worldwide, by organising scientific meetings, courses and schools, by participating in publishing a journal, MedChemComm, and by conferring EFMC Awards and Prizes.1

Gene Vaisberg, CEO ChemBridge Corporation concluded the introduction by highlighting the history and background of ASMC, a series of symposia which started with ASMC'04 Moscow, followed by two editions in St. Petersburg (ASMC'07, ASMC'11) and one in Kiev (ASMC'09).

The scientific programme started with a session chaired by Peter Seeberger, and the inaugural lecture by Andrew Hamilton (Oxford University, United Kingdom), who stressed the importance of creating novel chemical microenvironments using designed proteomimetics to tackle targets such as protein-protein interactions (PPIs). He focused on three increasingly difficult challenges in protein mimicry: targeting binding pockets with peptidomimetics and β-strand mimetics (e.g. acetylene linked 2,2-disubstituted-indolin-3-one oligomers²), shallow clefts with helix mimetics (e.g. oligophenylenes targeting Bcl-xL/Bak complexes), and large protein interfaces by surface mimetics (e.g. β-sheet mimetics by 'stitching' together β-strands via acetylenic linkers).

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Petra Johannesson (AstraZeneca, Sweden) followed with a talk on the discovery of a new series of pyrazinecarboxamide inhibitors of diglyceride acyltransferase-1 (DGAT1) for the treatment of obesity and metabolic syndrome. Rational design and optimization of this series led to the discovery of AZD7687, which met the project objectives for potency, selectivity, in particular over acetyl-CoA acetyltransferase-1 (ACAT1), solubility, and preclinical PK profile.3 This compound showed the anticipated excellent pharmacokinetic properties in human volunteers (Fig. 1).

Fig. 1 AZD7687, a DGAT1 inhibitor for the treatment of obesity and metabolic syndrome (AstraZeneca).

María del Mar Martín-Fontecha (Complutense University of Madrid, Spain) described in an oral communication her group's approach to targeting cancer with new inhibitors of the enzyme isoprenylcysteine carboxyl methyltransferase (ICMT). Rational design based on a 3D-pharmacophore model refined with the information from the recently described crystal structure of a prokaryotic ICMT ortholog, or alternatively starting with analogs of cysmethynil, led to hits with interesting ICMT inhibitory activities and good preliminary pharmacokinetic properties.

The tremendous progress made in the synthesis of DNA and RNA was highlighted by Marvin Carruthers (University of Colorado, United States), a pioneer in the domain, in his talk entitled "Oligonucleotide synthesis interfaced with molecular biology and nanotechnology". He focused first on the chemistry his group developed over the past decades to synthesize DNA on a glass chip, which culminated in an automated flow reactor and the simultaneous DNA synthesis of 12 chips on a glass wafer. After optimization of coupling, oxidation and deprotection steps, the synthesis of 150-300 mers has been made possible with a fidelity of 65% (150 mers) and 45% (300 mers). With the current automated synthesis equipment in his lab (5 platforms, 244000 DNA features/chip), the equivalent of the entire human genome can be performed every day (3 billion base pairs or 6 billion internucleotide synthetic steps). Similarly, the optimization of reaction conditions for RNA synthesis on a chip4 leads to RNA microarrays with numerous applications, including RNA-nucleic acid interactions, RNA-protein interactions, RNAligand binding, or RNA sequence/structure-activity relationships. The talk concluded with the synthesis of DNAs having triazoylphosphonate, boranephosphamidate, boranealkylphosphine and boranephosphonate internucleotide linkages, which display unique biological properties while those having borane reduce metals.

In her talk "BETting on Epigenetic Targets: From Phenotypic Discovery to First Time in Man". Chun-wa Chung (GlaxoSmithKline, United Kingdom) described how the serendipitous discovery and subsequent molecular characterisation of potent small molecule inhibitors that disrupt the function of the BET family of bromodomains, an epigenetic reader class, led to potent compounds that bind within an acetylated lysine recognition pocket and antagonize the PPI between the bromodomain and chromatin, thus offering new treatment opportunities for cancer and inflammation (Fig. 2).5

Fig. 2 Potent inhibitor that disrupts the function of the BET family of bromodomains (GSK).

Vladimir Poroikov (Institute of Biomedical Chemistry of the Russian Academy of Sciences, Russia) followed with a presentation on virtual screening and the design of new pharmaceutical agents using PASS (Prediction of Activity Spectra for Substances), a software his group has been developing since the early 1990s. PASS aims at predicting the biological activities of drug-like compounds based on the analysis of structureactivity relationships, and recently led to several applications, including the discovery of novel anticancer agents which demonstrated a synergistic activity with the known p53 reactivator RITA.

The Monday afternoon session, chaired by Laurent Provins (UCB, Belgium), started with Kevin Booker-Milburn (University of Bristol, United Kingdom) on "Synthetic Organic Photochemistry in Batch and Flow", discussing his group's contributions to synthetic organic photochemistry which have involved the development of novel cycloaddition reactions, and the development of novel flow reactors⁷ and their application to the scale-up of synthetic photochemistry.

Michael Rowley (MSD, Switzerland), gave a talk on "The Discovery of the Macrocyclic Hepatitis C Virus (HCV) NS3/4A Protease Inhibitor MK-5172".8 Starting from analogs of BILN-2061, a known inhibitor developed by Boehringer-Ingelheim, and using a novel P2-P4 macrocyclization strategy together with constrained linkers, highly potent protease inhibitors were obtained which led to two clinical candidates, first Vaniprevir, and subsequently MK-5172 displaying enhanced cross genotype activity, coverage of NS3/4A resistance mutations, and good pharmacokinetic and physicochemical properties. In Phase 2 trials, MK-5172 showed high efficacy and improved tolerability over first generation HCV Protease Inhibitors. The compound is currently undergoing Phase 3 studies.

An approach to treating a fatal neurodegenerative disease by targeting misfolded superoxide dismutase-1 (SOD-1) was presented in an oral communication by Arie-Lev Gruzman (Bar Ilan University, Israel) entitled "Novel Synthetic Chemi-

cal Chaperones as a New Basis for Amyotrophic Lateral Sclerosis (ALS) Treatment". It is based on connecting existing small molecule chaperones such as 4-phenylbutyric acid or tauroursodeoxycholic acid with a variety of linkers to moieties targeting intracellular organelles such as the lysosome, mitochondria or the Golgi complex.

Jean Quancard (Novartis Pharma, Switzerland) followed with an oral communication on the discovery of highly potent sphingosine-1-phosphate receptor (S1P₁) antagonists, including NIBR-0213 for the treatment of multiple sclerosis (Fig. 3).9

Fig. 3 NIBR-0213, a highly potent S1P, antagonist (Novartis).

A new approach to tuberculosis research was presented by Philip A. Hipskind (Eli Lilly & Co., United States) with an overview of "The Lilly TB Drug Discovery Initiative (LTI)". Initiated in 2007, this non-profit partnership with the Infectious Disease Research Institute (IDRI-Seattle), and the National Institute of Allergy and Infectious Diseases of the US National Institutes of Health (NIAID/NIH) and other partners draws on resources globally from leading TB and infectious disease drug researchers.10

The day ended with a presentation by Martin **D. Burke** (University of Illinois, United States) on "Molecular Prosthetics", small molecules that perform higher-order, protein-like functions, having the potential to serve as substitutes for missing or dysfunctional proteins that underlie human diseases. This required the development of a new synthesis strategy, dubbed iterative cross-coupling, which aims to make the process of complex small molecule synthesis as simple, efficient, flexible as possible, and amenable to automation, similar to modern peptide synthesis, involving the simple iterative coupling of bifunctional building blocks. This has been achieved using MIDA boronates, of which more than 140 are now commercially available.11

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Day two started with a session chaired by Uli Stilz, and a talk by Janine Cossy (ESPCÍ ParisTech, France) on "Versatile Synthetic Methods: Access to Bioactive Molecules". This included new synthetic approaches to five-membered, chiral lactones such as nephrosteranic acid and androccelaric acid using Pd catalysis, 12 to complex molecules including a spiroketal moiety using ferric ion catalysis of alkyl halide and vinyl Grignard cross-coupling reactions, to 2,6-disubstituted pyrans using cobalt-catalyzed cross-coupling reactions between Grignard reagents and glycosyl halides, and to 3-amino piperidines using acid-catalyzed rearrangements of 2-hydroxymethyl pyrrolidines.

This was followed by a little ceremony during which Uli Stilz, as EFMC President, handed over this year's 'EFMC Prizes for Young Scientists' (Picture), followed by the Prize winners talks.



EFMC President U. Stilz with EFMC Prize Winners G. Bernardes (left) and F. Goldberg (right).

Gonçalo Bernardes (University of Cambridge, United Kingdom & Instituto de Medicina Molecular, Portugal), this year's recipient of the 'EFMC Prize for a Young Medicinal Chemist in Academia' gave a talk on "Chemical Approaches to Biology and Therapeutics", presenting his results on reaction engineering for chemical site-selective protein modification, 13 the construction of homogeneous, vascular targeting antibody-drug conjugates for cancer therapy and the development of novel carbon monoxide (CO) releasing molecules for the delivery of therapeutic CO in vivo.14

Frederick Goldberg (AstraZeneca, Sweden), recipient of the 'EFMC Prize for a Young Medicinal Chemist in Industry', followed by giving a lecture on "Free-Wilson and Structural Approaches to Co-Optimising Human and Rodent Isoform Potency for 11B-Hydroxysteroid Dehydrogenase Type 1 (11B-HSD1) Inhibitors" for the treatment of type II diabetes and the metabolic syndrome. Both a data-driven and a structure-based approach were used to rapidly identify compounds with good human/murine potencies, and good rodent pharmacokinetic properties (Fig. 4).15

Fig. 4 11β-HSD1 inhibitor for the treatment of diabetes and metabolic disorders (AstraZeneca).

"Rapid Kinase SAR Generation: An Integrated Approach to Synthesis, Screening and Molecular Design", by Dave Parry (Cyclofluidic, United Kingdom), illustrated his company's progress made in a continuous process, combining synthesis carried out in flow, product purification, analysis and reformatting prior to screening on an integrated platform (CyclOPs (Cyclofluidic Optimisation Platform)). The biological data is then incorporated into a continuously evolving activity model which allows the next molecule to be selected for synthesis, each iteration taking less than 2 hours, as illustrated by the discovery of novel Abl tyrosine kinase inhibitors.

Rainer Haag (Free University Berlin, Germany) introduced a paradigm shift in medicinal chemistry, by extending the range of target compounds from small molecules and biologics to synthetic

polymers. In his talk on "Highly Anti-Inflammatory Dendritic Polyglycerol Sulfates - a Multiple Target Approach", he reviewed the challenges and opportunities related to the use of dendritic polyglycerol scaffolds in biomedical applications. ¹⁶ The variety of dendritic polyglycerol architectures combined with their low molecular weight dispersity, their functionality, their size-dependent cellular uptake and their good biocompatibility makes these compounds unique tools to mimic functional biomacromolecules. This has led among others to applications in the areas of cancer with e.g. tumor imaging agents and anti-tumor prodrugs, or in inflammation with polyanionic, dendritic polyglycerol sulfates, which strongly bind to cellular targets involved in the inflammatory process by inhibiting leukocyte infiltration, and are therefore suitable synthetic nanocarriers for inflammationspecific molecular imaging.

In his presentation entitled "Peptide Chemologics", Lee Roberts (Pfizer, United States) gave a presentation which included novel stapled peptides that bind the co-activator peptide site of estrogen receptors, 17 and CovX-Bodies, a novel class of biotherapeutic agents created by the fusion of a relatively small molecular weight payload (small molecule, peptide, protein) with an antibody, which provides an antibody-like pharmacokinetic and distribution profile. 18

Simon Giroux (Vertex Pharmaceuticals, United States) described the "Discovery of Thienoimidazole-Based HCV NS5A Genotype 1a and 1b Inhibitors". A novel method to synthesize the thienoimidazole [5,5]-bicyclic system, as a bioisostere of benzimidazole followed by coupling reactions using different linkers, allowed a detailed study of the structure-activity relationship (SAR) of the linkers which led to highly potent HCV NS5A inhibitors, such as VRT-546 (Fig. 5).19

The afternoon session started with a presentation by Cristina Nevado (University of Zurich, Świtzerland) on "Organic Molecules as Biological Probes...an Exciting Journey", which included the total synthesis of Frondosin A via gold-catalyzed propargylic rearrangement, the total synthesis and biological evaluation of Iriomoteolide-3a, and the use of computational tools in drug design which led to highly potent inhibitors of EphB4 as antiangiogenetic compounds.20

Fig. 5 VRT-546, a highly potent HCV NS5A inhibitor

Positron emission tomography (PET) was the topic of "Discovery and Initial Clinical Results of [18F]-UCB-H, First PET Radiotracer Targeting Synaptic Vesicle 2A" by Anne Valade (UCB, Belgium). SV2 proteins are critical for proper nervous system function and have been demonstrated to be involved in vesicle trafficking. The SV2A subtype's role in epilepsy has been demonstrated with Levetiracetam and other SV2A ligands (e.g. Brivaracetam) but still little is known about its precise role in neurological diseases. Specific design efforts for preparing suitable radiotracers led to the identification of [18F]-UCB-H, a fluorine-18 radiolabelled PET imaging agent with a nanomolar affinity for the human SV2A protein. Preliminary clinical validation studies show that [18F]-UCB-H is a suitable PET tracer for human studies (Fig. 6).21

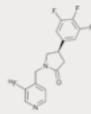


Fig. 6 [18F]-UCB-H, a fluorine-18 radiolabelled PET imaging agent (UCB)

Frédéric Schmidt (Institut Curie, France) reported in an oral communication on "Self-Immolative Spacers in Prodrug/Profluorophore Strategies". The determination of kinetic parameters for the release **Maria Volkova** (Moscow State University, Russia) followed with an oral communication on the development of successful synthetic approaches to novel melatonin receptor ligands *via* indolic nitriles.

The resurgence of covalent drugs²³ was highlighted by **Eric Schwartz** (Celgene Avilomics Research, United States) with the "Design and Characterization of Targeted Covalent Inhibitors of Bruton's tyrosine kinase (Btk)", a critical regulator of aberrant B-cell receptor signaling in a range of diseases including chronic lymphocytic leukemia, non-Hodgkin's lymphoma, rheumatoid arthritis and lupus. The design of selective inhibitors based on an analysis of the ATP-binding pocket of Btk with the identification of Cys481 as a target residue for covalent modification, led to the clinical candidate CC-292 (formerly AVI-292) (Fig. 7).²⁴

Fig. 7 CC-292 (AVL-292), a covalent inhibitor of Btk (Celgene Avilomics).

Christa Müller (University of Bonn, Germany) concluded the day by giving a talk on "P2X Receptors: ATP-Gated Ion Channels as Novel Drug Targets". Although nucleotide receptors are known to be difficult targets (many subtypes, highly polar anionic ligands and fast hydrolysis by ectonucleotidases), several new antagonist families have been identified by the Bonn group: anthraquinone compounds antagonizing P2X2, ²⁵ and phenoxazine derivatives and polyoxometalates as allosteric P2X4 antagonists. Further devel-

opments led to VH 241 (structure not disclosed), a highly potent allosteric P2X4 modulator (IC50 value around 10 nM), which shows no species differences (human, rat, mouse), is selective vs. other P2X receptor subtypes and against 50 other targets, displays drug-like structure and properties, has no negative charge, and is highly active in a mouse model of neuropathic pain.

The third day of the symposium started with a session chaired by Rosa-Maria Rodriguez-Sarmiento (F. Hoffmann-La Roche, Switzerland), and a presentation by Peter Seeberger entitled "Preventing and Curing Infectious Diseases: Carbohydrate Vaccines and Continuous Flow Synthesis". The first part focused on his group's approach to the development of carbohydrate vaccines to prevent severe diseases such as malaria, nosocomial infections, bacterial meningitis, or invasive pneumococcal diseases. Such vaccines have only been made possible with the tremendous progress made in recent years with the synthetic accessibility of carbohydrate antigens via automated oligosaccharide synthesis, which reduced the time required from years to hours.26 The second part highlighted a continuous flow synthesis of artemisinin, currently the best available drug against malaria. Starting from dihydroartemisinic acid, a byproduct of the artemisinin extraction from the Artemisia annua plant, combined with flow photooxidation at low temperature (-20 °C) in toluene, followed by continuous purification is likely to reduce the cost of synthesis of this essential medicine.²⁷

Medicinal chemistry aspects and structural features of voltage-gated sodium channel (VGSC) inhibitors and structural biology of sodium channels were the topic of **Antonio Nardi**'s (Grünenthal, Germany) overview on "Advances in Targeting (VGSC) with Small Molecules". 28 He stressed the need for second generation sodium channel inhibitors, building on strategies that aim at identifying small molecules targeting either particular isoforms of sodium channels involved in specific diseases or anomalous sodium channel currents, irrespective of the isoform by which they have been generated.

Pavel Mykhailiuk (Enamine Ltd, Ukraine) followed with an oral communication on the application of fluorinated amino acids as labels to study membrane active peptides by solid state ¹⁹F NMR, which required the design and synthesis of suitable conformationally restricted amino acids bearing a CF3-reporter group, including analogs of polar amino acids (Fig. 8).²⁹

Fig. 8 CF3-substituted analogue of serine and threonine (Enamine).

"Engineering of Small Non-Antibody Protein Scaffolds as Novel Biopharmaceuticals: from Anticalins to PASylation" by Arne Skerra (Technical University Munich, Germany) further expanded chemical and biological space. Anticalins are a novel class of small engineered proteins, usually derived from human plasma lipocalins, which offer potential as an alternative to antibodies.³⁰ They are much smaller than antibodies (160-180 residues), providing better tissue penetration, and comprise just a single polypeptide chain, thus offering the efficient preparation of fusion proteins and/or conjugation with payloads or enzymes. Their potential therapeutic application can be illustrated for instance with the VEGF-specific anticalin Angiocal which has completed Phase 1 trials for the treatment of solid tumors, or the anticalin directed against Hepcidin, which is currently undergoing late-stage preclinical studies. Another beneficial feature of the anticalins is their deep binding pocket, which enables the tight complexation of small molecule ligands such as fluorescein, digoxigenin, or metal-chelate complexes, and offers interesting applications in biomedical research, diagnostics as well as nuclear medicine. Finally, the group has shown that conformationally disordered polypeptide chains comprising the amino acid residues Pro, Ala, and Ser (PAS) offer simple fusion to a biological drug on the genetic level,

and are able to tune the plasma half-life of biopharmaceuticals, including anticalins, offering significant advantages over chemical conjugation to polyethylene glycol (PEG).³¹

Emmanuel Pinard (F. Hoffmann-La Roche, Switzerland) presented an update on the clinical development of "Bitopertin (RG1678), a Potent and Selective Glycine Re-Uptake Inhibitor for the Treatment of Schizophrenia" (Fig. 9). Bitopertine³² has shown positive results in a phase 2 proof-of-concept study in patients with predominant negative symptoms, one of the highest unmet medical needs in schizophrenia. This proof-of-concept study provides clinical support for glycine reuptake inhibition, and thereby enhancement of NMDA receptor signaling, as a promising therapeutic approach for schizophrenia. Partial occupancy, optimally <60%, of the glycine transporter type 1 by bitopertin leads to efficacy in animal models and in patients with schizophrenia. A Phase 3 study is ongoing evaluating the additional benefit of bitopertin for negative and positive symptoms when added to a stable dose of an antipsychotic.

Fig. 9 Bitopertin (RG1678), a glycine re-uptake inhibitor for the treatment of schizophrenia (Hoffmann-La Roche).

Tiziana Masini (University of Groningen, The Netherlands) concluded the morning session with an oral communication on fragment-based design of inhibitors of the antituberculosic target 1-deoxy-D-xylulose-5-phosphate synthase exploiting an innovative combination of NMR techniques.

The final symposium session was chaired by Owen Wallace (Eli Lilly & Co., United Kingdom), who was fortunately able to step in for Alan

Simona Cotesta (Novartis, Switzerland) gave a lecture on "Identification of a Novel Series of Orexin Receptor Antagonists with a Distinct Effect on Sleep Architecture". Orexin A and B are two neuropeptides produced in discretely localized neurons in the hypothalamus, activating two G-protein coupled receptors Ox1R and Ox2R. The orexin system plays an important role in the regulation of the sleep-wake cycle, feeding and reward seeking. Starting with a computational analysis of published orexin receptor antagonists, two novel series of orexin receptor antagonists with distinct profiles were identified by scaffold morphing.34 Optimization yielded an Ox2R-selective antagonist, which induced an increase in total sleep time without affecting sleep architecture (Fig. 10).

Fig. 10 Novel orexin receptor antagonist with a distinct effect on sleep architecture (Novartis).

Paul Polakis (Genentech, United States) focused on recent progress in "Antibody Drug Conjugates (ADCs) for the Treatment of Cancer". ADCs are antibodies coupled via linkers to small biologically active molecules, and offer the potential to selectively deliver to tumor cells highly toxic compounds while reducing damage to normal tissues. Cell surface proteins highly specific to cancer cells were first identified using

oligonucleotide microarrays and high throughput analysis of mRNA transcripts isolated from thousands of human tissue samples. Antibodies to several of these targets were generated and highly potent tubulin disrupting agents were appended to them to generate ADCs for a variety of cancer indications. These antibodies can be selectively functionalized by introducing cysteines into solvent-accessible areas of the protein backbone, leading to increased efficacy and safety.35 Trastuzumab-DM1, an antibody-maytansinoid conjugate (ado-trastuzumab emtansine, trademark Kadcyla), targeting HER2-positive breast cancer, has recently been approved and is safer and more effective than current treatments. Eight other ADCs are in various phases of human clinical testing at Genentech. Anti-Muc16vcMMAE, targeting the membrane alycoprotein Muc-16 with monomethyl auristatin E (MMAE), using a valine-citrulline (vc) dipeptide as part of the linker, shows promise as a therapeutic for advanced ovarian cancer.

Marc Taillefer (ENSCM, France) gave a talk on "Metal Catalyzed Arylation of Nucleophiles", illustrating how efficiently N-, O-, C- or S-arylations of nucleophiles with aromatic halides can occur with high yields using original copper and/or iron-based catalytic systems. Mild reaction conditions, low cost and simplicity make these reactions particularly well suited for industrial scale syntheses where financial and environmental issues are of greater concern.36

The closing lecture was delivered by **Dieter Seebach** (ETH Zurich, Switzerland) on his journey "From Organic Synthesis to Biomedical Sciences – from Polyhydroxybutyrate (PHB) to Cell-Penetrating Peptides". In his group's study of unnatural β-peptides, it was discovered that they form much more stable secondary structures (helices, turns, strands, sheets) than the natural counterparts, and that they are stable to proteolytic and metabolizing enzymes.³⁷ They can be designed to mimic natural peptides and proteins in their activities, as illustrated for neurotensin, interleukin-8, or MHC-binding peptides. More recently, cell-penetrating L-α-, D- α -, mixed L/D- α - and β -oligo-arginines and -oligo-prolines were developed as carriers for delivering fluorescence labels and antibiotics into prokaryotic and eukaryotic cells. Finally, the screening of numerous biological samples from forests or fields, from compost or sewer plants led to the identification of a unique β-amino-acid peptidase aminase (BapA), which cleaves only N-terminal β-amino acids.

The symposium's scientific programme was closed by conferring two best poster prizes, awarded to Gaël Le Douaron (Université Paris-Sud, France) and Tina Seifert (University of Gothenburg, Sweden), and by the announcement of the next edition of the symposium, ASMC'15, which will be organised in 2015 in Kiev, Ukraine.

ASMC'13 was brought to a close with a gala dinner at Yar Restaurant.

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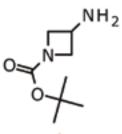


Oxetanes



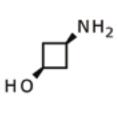
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Azetidines



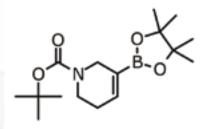
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Cyclobutanes



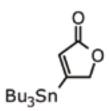
✓ yes

Boronic Acids



✓ yes

Stannanes



✓ yes

Toy Blocks



🔀 no

Building Blocks for Drug Discovery



EFMC 2014 AWARDS

Call for nominations

DEADLINE: JANUARY 31, 2014

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



THE NAUTA AWARD FOR PHARMACOCHEMISTRY

For the advancement of medicinal chemistry and the development of international organisational structures in Medicinal Chemistry. The Award is established by the Dutch Foundation "Stichting Prof, Dr. W. Th. Nauta Fonds" and will be given for outstanding achievements in the field of Medicinal Chemistry.



THE UCB-EHRLICH AWARD FOR EXCELLENCE IN MEDICINAL CHEMISTRS

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



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

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

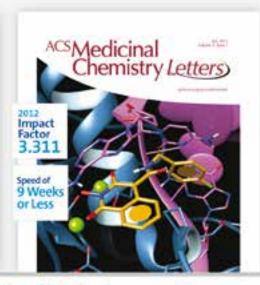
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FOR A YOUNG MEDICINAL CHEMIST IN ACADEMIA

To acknowledge and recognize an outstanding young medicinal chemist working in Academia within Europe.

The Prize is given annually to a young medicinal chemist (≤ 10 years after PhD) and consists of a diploma, € 1.000 and an invitation to give a short presentation at the XXIII EFMC International Symposium on Medicinal Chamistry (EFMC-ISMC), September 7-11, 2014, Lisbon, Portugal. Two additional nominees will also be identified and acknowledged.

Applications should consist of:

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

THE EFMC PRIZE

FOR A YOUNG MEDICINAL CHEMIST IN INDUSTRY

To acknowledge and recognize an outstanding young medicinal chemist working in industry within Europe.

The Prize is given annually to a young medicinal chemist (≤ 10 years after PhD) and consists of a diploma, € 1.000 and an invitation to give a short presentation at the XXIII EFMC International Symposium on Medicinal Chamistry (EFMC-ISMC), September 7-11, 2014, Lisbon, Portugal, 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



FFMC 2013

Prizes

The "EFMC Prize for a Young Medicinal Chemist in Academia" and the "EFMC Prize for a Young Medicinal Chemist in Industry" have been established by the European Federation for Medicinal Chemistry (EFMC) to acknowledge and recognise an outstanding young medicinal chemist working in academia or in industry within Europe. The Prizes are given annually and consist of a diploma, € 1.000 and an invitation for a short presentation at an EFMC symposium. Two nominees are also identified and acknowledged.

The 2013 Prizes have been conferred on occasion of the 5th International Symposium on Advances in Synthetic and Medicinal Chemistry, held in Moscow, Russia on May 5-8, 2013. Winner of the Industry Prize was Frederick GOLDBERG, AstraZeneca, UK, who gave a talk on "Free-Wilson and Structural

Approaches to Co-Optimising Human and Rodent Isoform Potency for 11B-Hydroxysteroid Dehydrogenase Type 1 (11β-HSD1) Inhibitors". The most meritorious runners-up were Jérôme HERT (F.Hoffman-La Roche, Switzerland) and Alexei KARPOV (Novartis, Switzerland).

Gonçalo BERNARDES (Department of Chemistry, University of Cambridge, UK & Instituto de Medicina Molecular, **Lisbon, Portugal)** won the 2013 EFMC Prize for a Young Medicinal Chemist in Academia. At the ISMC Symposium he gave a presentation entitled "Chemical Approaches to Biology and Therapeutics". Chris DE GRAAF (Leiden/ Amsterdam Center for Drug Research, The Netherlands) and Frank DEKKER (University of Groningen, The Netherlands) have been identified and acknowledged as runners-up.



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September 12, 2014 | University of Lisbon | Faculty of Pharmacy

A One-Day Symposium in connection with XXIII EFMC-ISMC, having the aim of:

- creating a network of young European investigators in Medicinal Chemistry
- stimulating young European investigators in Medicinal Chemistry to share their scientific work with peers and inspiring leaders in the field
- creating competition and excellence in Medicinal Chemistry within Europe by selecting a European Champion in Medicinal Chemistry

PROGRAMME OF THE DAY

- 2 keynote lectures
- 8 oral communications by invited prize winners from national young medicinal chemist meetings in Europe
- 4 oral communications selected from submitted abstracts
- 20 flash poster presentations selected from submitted abstracts
- A poster session open to any young researcher submitting an abstract

EFMC-YMCS ORGANISING COMMITTEE

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THE 1" EFMC YOUNG MEDICINAL CHEMIST SYMPOSIUM IS OPEN TO ANY SCIENTIST INTERESTED BY THE TOPICS RELATED TO MEDICINAL CHEMISTRY.

Events organised by the EFMC National Adhering Organisations 2014

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

New Perspectives in DMPK: Informing Drug Discovery

February 10-11, 2014

The Chemistry Centre, Burlington House, London, UK http://www.rsc.org/bmcs

Contact person: Maggi Churchouse
Tel: +44 1359 22 10 04 - Fax: +44 1359 22 10 04
Email: Maggi@maggichurchouseevents.co.uk

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

Calendar of Events

caleliaal of Lyelli

2nd Italian Drug Discovery Summit

February 28, 2014 Bresso (Milan), Italy

Contact person: Andrea Beccari Email: a.beccari@dompe.it

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

III CDDD (Computationally Driven Drug Discovery)

March 4-6, 2014

Verona, Italy

Contact person: Gabriele Costantino Tel: +39 521 90 50 55 Email: gabriele.costantino@unipr.it

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

Frontiers in Medicinal Chemistry 2014

March 16-19, 2014 Tübingen, Germany

http://www.gdch.de/medchem2014

Contact person: Prof. Dr Stefan Laufer Tel: +49 7 071 297 24 59 - Fax: +49 7 071 295 037 Email: stefan.laufer@uni-tuebingen.de

Organised by: Division of Medicinal Chemistry of the German Chemical Society (GDCh) and the German Pharmaceutical Society, Section of Pharmaceutical/Medicinal Chemistry (Germany)

8th EFMC Short Course on Medicinal Chemistry
- Engeneering of Biopharmaceuticals

March 16-19, 2014

Oegstgeest (near Leiden), The Netherlands http://www.efmcshortcourses.org

Contact:

EFMC Administrative Secretariat Rue Michel de Ghelderode 33/2 1348 Louvain-la-Neuve, Belgium

Email: secretariat@LDOrganisation.com
Tel: +32 10 45 47 77 - Fax: +32 10 45 97 19
Organised by: European Federation for
Medicinal Chemistry (EFMC)

XXIst Young Research Fellows Meeting The Assets of Chemistry in Drug Discovery

March 24-25, 2014

Montpellier, France

http://www.sct-asso.fr

Organised by: Société de Chimie Thérapeutique (France)

Spring Symposium – Cheminformatics

March 28, 2014 Utrecht, The Netherlands

http://www.kncv.nl/farmacochemie

Contact person: Dr Peter Molenveld Tel: +31 24 372 33 55 Fax: +31 24 372 33 05 Email: peter.molenveld@mercachem.com

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

25th Symposium on Medicinal Chemistry in Eastern England

April 24, 2014

The Fielder Centre, University of Herthfordshire, Hatfield, UK http://www.rsc.org/bmcs

Contact person: Maggi Churchouse
Tel: +44 1359 22 10 04 - Fax: +44 1359 22 10 04
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Organised by: The Biological and Medicinal Chemistry Sector (BMCS) of the Royal Society of Chemistry (RSC) (United Kingdom)

32nd Cyprus-Noordwijkerhout-Camerino Symposium, Trends in Drug Research

May 18-22, 2014 Limassol, Cyprus

http://www.quintessence.com.cy Contact person: Evsevios Hadjicostas

Contact person: Prof. Dr Henk Timmerman

Organised by : Section Medicinal Chemistry, Royal Netherlands Chemical Society (KNCV) (The Netherlands) and Division of Medicinal Chemistry of the Italian Chemical Society (Società Chimica Italiana) (Italy) SCT-SFNano Joint Meeting « When Medicinal Chemistry meets Nanomedecines: Molecular Aspects of Targeting, Activation and Delivery of Drugs »

April 8, 2014

Paris, France http://www.sct-sfnano2014.org

http://www.sct-stnano2014.or

Symposium Secretariat - LD Organisation Rue Michel de Ghelderode 33/2 1348 Louvain-la-Neuve, Belgium Email: secretariat@LDorganisation.com Tel: +32 10 45 47 77 - Fax: +32 10 45 97 19 Organised by:

Société de Chimie Thérapeutique (France)

Towards New Therapeutics for Diseases of the Developing World

May 11-13, 2014 Tres Cantos, Spain

http://www.soci.org/events/Display-Event. aspx?Eventcode=FCHEM138

> Contact: Conference Team Tel: +44 (0)20 7598 1561 Fax: +44 (0)20 7235 7743 Emgil: conferences@soci.org

Organised by SCI's Fine Chemicals Group

Kinase 2014: Past, Present and Beyond 6th RSC/SCI Symposium on Kinase Inhibitor Design

May 19-20, 2014

Babraham Research Campus, Cambridge, UK http://www.maggichurchouseevents.co.uk/ BMCS/index.htm

Contact person: Maggi Churchouse Telephone: +44 (0) 1359 22 1004 Email: maggi@maggichurchouseevents.co.uk

Organised by : The Biological and Medicinal Chemistry Sector (BMCS) of the Royal Society of Chemistry (RSC) (United Kingdom) 8° NPCF (Nuove Prospettive in Chimica Farmaceutica)

June 9-11, 2014 Parma, Italy

Contact person:
Gabriele Costantino
Tel: +39 521 90 50 55
Email: gabriele.costantino@unipr.it

Organised by : Division of Medicinal Chemistry of the Italian Chemical Society (Società Chimica Italiana) (Italy) The 12th Annual Meeting of the Medicinal Chemistry Section of the Israel Chemical Society

June 23-24, 2014

Weizmann Institute of Science, Israel

http://www.mcs-ics.org.il/

Contact person: Dr Raphael Nudelman Email: raphael.nudelman@teva.co.il

Organised by : The Medicinal Chemistry Section of the Israel Chemical Society (Israel)

4th SEQT Summer School: «Medicinal Chemistry in Drug Discovery: The Pharma Perspective»

> June 25-27, 2014 Madrid, Spain

http://www.segt.org

Contact person: Dr José M. Fiandor Tel: +34 91 56 22 900 Fax: +34 91 56 44 853 Email: seat@iam.csic.es

Organised by : Sociedad Española de Química Terapéutica (Spain)

20th International Conference on Organic Synthesis (ICOS-20)

June 29 - July 4, 2014 Eötvös Lorànd University, Budapest, Hungary

http://www.icos20.hu/

Contact persons: Beatrix Schenker, Monika Bondar Tel: +36 1 201 6883 - Fax: +36 1 201 8056 Email: icos20@mke.org.hu

Organised by : Organic and Medicinal Chemistry Division (OMCD) of the Hungarian Chemical Society (HCS) (Hungary) European School of Medicinal Chemistry (ESMEC) EFMC Accredited School

> June 29 - July 4, 2014 Urbino, Italy

http://www.esmec.eu

Contact person: Carlo de Micheli
Tel: +39 250 31 93 30 - Fax: +39 250 31 93 26

Email: carlo.demicheli@unimi.it

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

National Annual Meeting of Slovenian Medicinal Chemists

June-July, 2014 University of Ljubljana, Slovenia

http://www.sfd.si/

Contact person: Marko Anderluh Tel: +386 1 47 69 639 - Fax: +386 1 42 58 031 Email: marko.anderluh@ffa.uni-lj.si

Organised by: Section for Medicinal Chemistry of the Slovenian Pharmaceutical Society (Slovenia)

50th RICT (International Conference on Medicinal Chemistry) Interfacing Chemical Biology and Drug Discovery

July 2-4, 2014, Rouen, France

Contact:

Symposium Secretariat - LD Organisation Rue Michel de Ghelderode 33/2 1348 Louvain-la-Neuve, Belgium Email: secretariat@LDorganisation.com Tel: +32 10 45 47 77 - Fax: +32 10 45 97 19

Organised by : Société de Chimie Thérapeutique (France)

SSPA
(Summer School on Pharmaceutical Analysis)

September 2014 Rimini, Italy

Contact person:
Giancarlo Aldini
Tel: +39 2 503 192 96 - Fax: +39 2 503 193 59
Email: giancarlo aldinj@unimi.it

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

XXIII EFMC
International Symposium
on Medicinal Chemistry (EFMC-ISMC)

September 7-11, 2014 Lisbon, Portugal

http://www.efmc-ismc.org
Contact: ISMC Symposium Secretariat
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Organised by the Group of Medicinal Chemistry of the Portuguese Chemical Society, on behalf of the European Federation for Medicinal Chemistry 20th EuroQSAR: Understanding Chemical-Biological Interactions

> August 31 - September 4, 2014 St. Petersburg, Russia

http://www.euroqsar2014.org

Contact:
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rue Michel de Ghelderode 33/2
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SCI2014 XXV Congresso Nazionale della SCI

September 7-12, 2014

Arcavacata di Rente (Cosenza), Italy

http://160.97.4.47/index.php?option=com_cont ent&view=article&1&itemid=435

Contact person: Prof. Antonio Garofalo Tel: +39 984 493 118 - Fax: +39 984 493 118 Email: antonio.garofalo@unical.it

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

Introduction to Quantitative Pharmacology and PK/PD

September 10-11, 2014 Munich, Germany

http://www.lakemedelsakademin.se/munich2014

Organised by : Swedish Academy of Pharmaceutical Sciences (Sweden) SCS Fall Meeting 2014

September 11, 2014

Ecole Polytechnique Fédérale de Lausanne, Switzerland

http://www.scg.ch/fallmeeting

Contact detail: Tel: +41 31 310 40 90 Email: info@scg.ch

Organised by: Division for Medicinal Chemistry & Chemical Biology (DMCCB) (Switzerland)

EFMC-YMCS 1st YOUNG Medicinal Chemist Symposium

September 12, 2014

University of Lisbon – Faculty of Pharmacy, Portugal

http://www.EFMC-YMCS.org

Contact: EFMC-YMCS Symposium Secretariat Rue Michel de Ghelderode 33/2 1348 Louvain-la-Neuve Tel: +32 10 45 47 77 - Fax: +32 10 45 97 19

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Organised by the European Federation for Medicinal Chemistry

GPCRs:

5th RSC/SCI Symposium on GPCRs in Medicinal Chemistry

September 15-17, 2014
Actelion, Allschwil, Switzerland
http://www.rsc.org/bmcs

Contact person: Maggi Churchouse
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Email: Maggi@maggichurchouseevents.co.uk

Organised by : The Biological and Medicinal Chemistry Sector (BMCS) of the Royal Society of Chemistry (RSC) (United Kingdom) 6th Polish Meeting on Medicinal Chemistry

September 18-20, 2014 Lublin, Poland

http://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 (Poland)

FIGON Dutch Medicines Days 2014

end of September or early October
The Netherlands

http://www.figondmd.nl

Contact person: Dr Chris de Graaf Tel: +31 20 598 75 53 - Fax: +31 20 598 76 10

Email: c.de.graaf@vu.nl

Organised by FIGON, co-organised by the Section Medicinal Chemistry, Royal Netherlands Chemical Society (KNCV) 11. Swiss Course on Medicinal Chemistry 2014

October 12-17, 2014
Mercure Classic Hotel Leysin, Switzerland

http://www.scg.ch/leysin2014

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October 20-23, 2014 Rome, Italy

http://www.lakemedelsakademin.se/21st

Organised by: Swedish Academy of Pharmaceutical Sciences (Sweden)

Annual SRC/KVCV One-Day Meeting on Medicinal Chemistry

November 2014.

UCB Braine L'Alleud, Belgium http://www.medchem.be

Contact: Symposium Secretariat Rue Michel de Ghelderode 33/2 1348 Louvain-la-Neuve

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

Transporters Symposium

November 13, 2014 Lilly, Windlesham, Surrey, UK

http://www.rsc.org/bmcs

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

SCT Fall One-Day Meeting

November 25, 2014 Paris, France

Organised by: Société de Chimie Thérapeutique (France)

1st International Congress: From Drug Discovery to Drug Delivery

November 13-15, 2014

Athens, Greece http://www.drugdiscoverytodelivery2014.com

contact persons:

Anna Tsantili-Kakoulidou and Costas Demetzos Tel: +30 210 7274530 / +30 210 7274596 Fax: +30 210 7274747 / +30 210 7274027 Email: tsantili@pharm.uoa.gr - demetzos@pharm.uoa.gr

Organised by Hellenic Society of Medicinal Chemistry/Hellenic Pharmaceutical Society, Greece/International Liposome Society

XXIV EFMC International Symposium on Medicinal Chemistry (EFMC-ISMC)

August 28 - September 1, 2016

Manchester, UK

http://www.efmc-ismc2016org

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EFMC ISMC 2014

International Symposium on Medicinal Chemistry

Lisbon, Portugal September 7-11, 2014



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APPLICATIONS OF POSITION EMISSION TOMOCRATHIT IN ORUC DISCOVERY JACK SESSION S. Sam Berganny (Brand Marc Sauta), 575

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CPCR STRUCTURAL BIOLOGY, NEW THERAPEUTIC

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ORGANIC SYNTHESIS THAT CHANGED MEDICINAL CHEMISTRY

Martin Segment Landbook Dis-

ORGANIC SYNTHESIS: NEW DEVELOPMENTS (DUCHEMS RESPON)

Peter Military (Controllers Conserve) 1913

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NECLECTED TROPICAL DISEASES SHAPING FUTURE.

Kelly Children Statement of Case Serve J.M.

PRIST NAME DISCLOSURERS

Laurence Leftmarkine (CSSE), VIII

RECENT HIGHLIGHTS IN MEDICINAL CHEMISTER Carlos Montanas (University of Las Pouls, 88)

Chis SOUNTRA

(University of Chiford, UK)

Karin BRINER

Aaren CIECHANOVER

(Sechmon Israel Institute of Technology, (1).

AJON Tarrell

(OCB, 91)



- The Nauta Award for Pharmacochemistry . The UCS-Enrich Award for Excellence in
- Medicinal Chemistry
- The Proos Institute-Overton and Meyer Award for New Technologies in Drug Dracswery

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

- TUPAC-Richter Frige in Medicinal Chemistry
- MedChemComm Lectureship

INTERNATIONAL ORGANISING COMMITTEE

Dymposium Chairman

But MORERA (University of Lisbon, FT)

Manchery

Bernd CLEMENT

Calmiele COSTANTINO (Urmetsty-of Farris, IT)

PHI JONES

European Sometting Centre Newhouse in

Asserted of Duriday, LW-

Hans Peter MACREL

IF Hoffmann La Roche, DHI. Edihard OTTOW

Blazer Hauffel are 7H)

Artur SHVA

(University of Avecs, PT)

Elevis Berk SIMONUCK

Humbleski D40 HURK TIMMERNAN

NU University Averagediere, NU

SYMPOSIUM SECRETARIAT

LD ORGANISATION SIREL Scientific Conference Producers Rue Michel de Chrislende 15/3. 1345 Coussie-La-Neure, Belgium

fet. +52 10 45 47 77 fam: +32 10 45 07 19 Mail: secretarial@efmc-innc.org

With www.afrecispic.org



Course Organiser

Jesper LAU Navo Nordisk, DK

Local Organiser

Herk Timmerman VU University Amsterslam, NL

Deadline for preregistration

February 17, 2014

Venue

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

Foe

€ 1.575,00

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

Contact

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

8th EFMC Short Course on Medicinal Chemistry

ENGINEERING OF BIOPHARMACEUTICALS

March 16-19, 2014 Oegstgeest, near Leiden, The Netherlands

This intensive course is intended for scientists with inverezs in the field of peptide and protein engineering covering intensiting topics around synthetic peptides, engineered proteins and therapeutic aetibodies. The number of participants will be limited to 35 to assure the possibility for in-depth discussions. The presentations and intonials will be given by scademic and industrial experts in the various topics and will cover broad fissionical perspectives and in depth details of important engineering technologies. The presenters will also include intensiting applications as well as future aspects in an informal approach siming for high level of interaction of the participants.

Course Outline

The development of future biogharmaceuticals will depend on research at the interfaces between several scientific disciplines including organic chemistry, physical chamistry, biophysics, protein chemistry and molecular biology. The interplay between these fields will have a key role for improving our molecular understanding of peptides and proteins and thus for developing future drug candidates.

This course will focus on strategies on how to design and engineer biopharmaceuticals and will provide participants with insight to this important field of bioscience, which are applicable in academic and pharmaceutical contexts.

The course will cover several fundamental aspects of peptide chemistry methodologies, selective modifications of proteins, ligation chemistries and regionelective coupling seattlens. The biophysical inharacterization of peptide and proteins will be integrated in the lectures. The course will also cover various methods of semi-ophthetic and synthetic modifications of pesterns with focus on the application to drug discovery. Finally the course will give an insight to therapeutic antibodies including screening, optimization as angineering aspects. Thus, various issues of development of biopharmaceuticals as well as discussions of different strategies to improve peptide and protein properties to biopharmaceuticals will be the primary focus of the course.



EFMC Short Course on Medicinal Chemistry

March 16-19, 2014

Oegstgeest (near Leiden), the Netherlands

Course Organiser

Jesper Lau, Novo Nordisk, Denmark

Local Organiser

Henk Timmerman, VU University Amsterdam, the Netherlands

Engineering of biopharmaceuticals

This intensive course is intended for scientists with interests in the field of peptide and protein engineering covering interesting topics around synthetic peptides, engineered proteins and therapeutic antibodies. The number of participants will be limited to 35 to assure the possibility for in-depth discussions. The presentations and tutorials will be given by academic and industrial experts in the various topics and will cover broad historical perspectives and in depth details of important engineering technologies. The presenters will also include interesting applications as well as future aspects in an informal approach aiming for high level of interaction of the participants.

Course outline

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Thus, various issues of development of biopharmaceuticals as well as discussions of different strategies to improve peptide and protein properties to biopharmaceuticals will be the primary focus of the course.

Medicinal chemistry QUALITY RESEARCH Outstanding publications Pharmacoinformatics





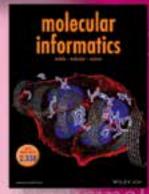


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Drug de







discover

Essential journals for Medicinal Chemists

Molecular m

View all products in Medicinal Chemistry here:



developm

WILEY-VCH

Adhering Organisations

Austria Austrian Chemical Society, Medicinal Chemistry Section

Belgium Royal Flemish Chemical Society (KVCV), Medicinal and Bioorganic Chemistry Division

Société Royale de Chimie (SRC), Medicinal Chemistry Division

Croatia Croatian Chemical Society, Medicinal Chemistry Section

Denmark The Danish Society for Pharmacology, Toxicology and Medicinal Chemistry

Finland Finnish Pharmaceutical Society

France Société de Chimie Thérapeutique (SCT)

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

German Pharmaceutical Society, Section of Pharmaceutical/Medicinal Chemistry (DPhG)

Greece Hellenic Society of Medicinal Chemistry

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

Israel The Medicinal Chemistry Section of the Israel Chemical Society

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

Latvia Latvian Association for Medicinal Chemistry

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

Poland Polish Society of Medicinal Chemistry

Portugal Group of Medicinal Chemistry of the Portuguese Chemical Society

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

Serbia Serbian Chemical Society, Division of Medicinal Chemistry

Slovenia Section for Medicinal Chemistry of the Slovenian Pharmaceutical Society

Spain Sociedad Española de Química Terapéutica

Sweden The Swedish Academy of Pharmaceutical Sciences

Switzerland Division of Medicinal Chemistry & Chemical Biology (DMCCB)

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



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 100 Members

Member profile Trade and Industry: 27%

Research Institute and University: 46%

Others: 27%

Postal address Nibelungengasse 11/6

1010 Vienna Austria

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

+43 1 587 89 66

office@GOECH.at E-mail Website www.goech.at

President Ao. Univ. Prof. Dipl.-Ing. Dr techn. Marko MIHOVILOVIC

(TU Vienna)

EFMC-Delegate Prof. Dr Gerhard ECKER

(University of Vienna)

Mrs Gabriela EBNER NAO Secretariat

(Austrian Chemical Society)

Bkvcv

BELGIUM (KVCV)

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

Organisation of symposia and activities, promotion of contacts between industry and academia, promotion of contacts with

other national and international organisations.

Founded 2002 120 Members

Lange Nieuwstraat 21-23 Postal address

2000 Antwerp Belgium

+32 03 227 21 74 Telephone +32 03 227 21 75 Fax

info@kvcv.be E-mail Website http://med-bio-organ.kvcv.be/

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

Annual SRC/KVCV One-Day Meeting on Medicinal Chemistry

(November 2014) Braine-L'Alleud, Belgium

Prof. Dr Koen AUGUSTYNS President (Universiteit Antwerpen)

Prof. Dr Serge VAN CALENBERGH **EFMC-Delegate**

(Universiteit Gent)

KVCV NAO Secretariat

(Medicinal and Bioorganic Chemistry Division)

BELGIUM (SRC)

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

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 120

Postal address ULB, CP 160/07

Avenue F. Roosevelt, 50

1050 Bruxelles Belgium

Telephone +32 2 650 52 08

Fax +32 2 650 51 84

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

 Annual SRC/KVCV One-Day Meeting on Medicinal Chemistry Activities

(November 2014), Braine-L'Alleud, Belgium

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.

President Dr Laurent PROVINS

(UCB Pharma)

EFMC-Delegate Dr Laurent PROVINS

(UCB Pharma)

NAO Secretariat

(Medicinal Chemistry Division)

Croatian Chemical Society, Section of Medicinal / Pharmaceutical Chemistry

Develop and promote scientific, professional

and educational activities in the field of medicinal chemistry. 1) Improve visibility of the science of medicinal chemistry by building stronger connections and cooperation between members who pursue this discipline

2) Promote and improve cooperation between Croatian Chemical Society, Industry and Academia (in advancing the science of medicinal chemistry)

3) Build strong links, cooperations and networking with European (EFMC) medicinal chemistry sections/related scientific organisations and their members

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

> > Members

Trade and Industry: 40% Member profile

Research Institute: 20% University: 20%

Others: 20%

Horvatovac 102a Postal address

10000 Zagreb Croatia

+385 (0)1 460 6164 Telephone

+385 (0)1 460 6131

stomic@chem.pmf.hr E-mail www.hkd.hr Website

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

Prof. Dr sc. Srdjanka TOMIC PISAREVIC

(University of Zagreb)

Dr Tajana PREOCANIN / Ms Nada TRAJKOV

(Croatian Chemical Society)

Dr Vesna GABELICA MARKOVIC **EFMC-Delegate**

(Galapagos Research Centre LTD)

President

Secretary/Treasurer

DENMARK

FINLAND



The Danish Society of Pharmacology, Toxicology and Medicinal Chemistry

Mission To advance the development of Pharmacology,

Toxicology and Medicinal Chemistry.

Members 300 members total, 100 in medchem section.

Member profile Trade and Industry: 50%

Research Institute and University: 50%

Postal address DSFTM, att: Lennart Bunch

Department of Drug Design and Pharmacology Faculty

of Health and Medicinal Sciences

Universiteitsparken 2

2100 Copenhagen Denmark

Telephone +45 35 33 62 44

Fax +45 35 33 60 41

E-mail info@dsftm.dk Website www.dsftm.dk

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

toxicology and medicinal chemistry.

President Prof. Dr Lennart BUNCH

(University of Copenhagen)

Secretary Dr Harrie BOONEN

(University of Copenhagen)

EFMC-Delegate Prof. Dr Lennart BUNCH

(University of Copenhagen)

NAO Secretariat Dr Harrie BOONEN

(University of Copenhagen)



Finnish Pharmaceutical Society

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.

1887 Founded
327 of which 31 are members
of the Medicinal Chemistry group

Fredrikinkatu 61 Postal address

00100 Helsinki Finland

+358 (0)9 191 591 90 Telephone
erik.wallen@helsinki.fi
http://pro.tsv.fi/finpharmsociety/index.htm Website

• Symposia (co-organiser of Helsinki Drug Research, Activities FinMedchem, BBBB and PharmSciFair symposia), courses,

seminars and discussions

Grants and awards (Albert Wuokko Award)
 Participation in Federation of Finnish Learned Societies,

EFMC and EUFEPS platforms

Prof. Dr Niklas SANDLER President

(Abo Akademi University)

Dr Leena PELTONEN Secretary

(University of Helsinki)

Jarkko RAUTIO EFMC-Delegate

(University of Eastern Finland)

FRANCE

Société de Chimie Thérapeutique



The SCT promotes multidisciplinary knowledges in the major pharma R&D domains, particularly in Drug Design and Selection, Chemical Biology, Medicinal Chemistry, ADME-T. The society organises once a year an international meeting in Medicinal Chemistry covering the above mentioned topics, in addition to focused meetings for young researchers, spring and automn workshops on dedicated topics. SCT allocates awards and grants, fostering young scientists' career in Medicinal Chemistry.

Founded 1966 Members 513

Postal address

Université de Paris Sud

Centre d'Etudes Pharmaceutiques 5, rue Jean-Baptiste Clément 92296 Chatenay-Malabry, France

Telephone Fax

+33 1 46 835 684 +33 1 46 835 323

E-mail - Website Activities sct@sct-asso.fr - www.sct.asso-fr

Awards & Prizes:

 Paul Ehrlich Prize, sponsored by Janssen-Cilag.

 Best oral presentations and best posters at Young Research Fellows Meeting, sponsored by SCT.

• Prize for encouraging research in Medicinal Chemistry, sponsored by

• Best Poster at RICT, sponsored by SCT. Prize for vocation, sponsored by

Servier.

Publishing activities:

• Scientific editing of The European Journal of Medicinal Chemistry, Elsevier, 1 issue per month

Organisation of meetings and conferences:

• XXIst Young Research Fellows Meeting (March 24-25, 2014), Montpellier, France

• SCT-SFNano Joint Meeting When Medicinal Chemistry meets Nanomedecines: Molecular Aspects of Targeting, Activation and Delivery of Drugs

(April 8, 2014), Paris, France

 50th RICT International Conference on Medicinal Chemistry - Interfacing Chemical Biology and Drug Discovery (July 2-4, 2014), Rouen, France SCT Fall One-Day Meeting

(November 25, 2014), Paris, France

President Past President Pascal GEORGE (Independent Scientific Expert & Adviser)

Dr Robert DODD (Institut de Chimie des Substances Naturelles Centre

National de la Recherche Scientifique (CNRS))

Secretary Treasurer

Prof. Dr Hervé GALONS (Université René Descartes) Prof. Christian Cavé (University Paris Sud 11)

EFMC-Delegate

Prof. SAPI Janos (Université de Reims Champagne-Ardenne)

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

GERMANY (GDCh)

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.

> 1971 at Karlsruhe, Germany Founded Members

800

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

Other: 5%

Varrentrappstr. 40-42 Postal address 60486 Frankfurt am Main,

Germany

+49 69 7917 363 Telephone +49 69 7917 1363 Fax

u.Bechler@gdch.de E-mail Website www.gdch.de/medchem.be

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

• Frontiers in Medicinal Chemistry 2014 (March 16-19, 2014), Tübingen, Germany

> Dr Eckhard OTTOW President (Bayer)

Dr Jürgen MACK (Boehringer Ingelheim Pharma)

EFMC-Delegate

NAO Secretariat

(Division of Medicinal Chemistry)

GERMANY (DPhG)

German Pharmaceutical Society, Section of Pharmaceutical/Medicinal Chemistry

To foster the whole area of Medicinal Chemistry in University and Pharmaceutical Industry by annual meetings, awards

and activities related to the education in Medicinal Chemistry.

Founded 1985 Members 679

Member profile

Trade and Industry: 20%

University: 60% Others: 20%

Postal address

Hamburger Allee 26-28

60486 Frankfurt am Main

Germany

Telephone

+49 69 7191596 0

+49 69 7191596 29

info@dphg.de E-mail 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 2014

(March 16-19, 2014), Tübingen, Germany

President Prof. Dr Peter GMEINER

(Universität Erlangen-Nürnberg)

Prof. Dr Bernd CLEMENT EFMC-Delegate

(Universität Kiel)

NAO Secretariat

(Section of Pharmaceutical/Medicinal Chemistry)



Hellenic 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.

> Founded 1980 107 Members

Trade and Industry: 20% Member profile

Research Institute: 30% University: 40%

Other: 10%

School of Pharmacy Postal address

Department of Pharmaceutical Chemistry

University of Athens Panepistimiopolis Zografou

15771 Athens

Greece

+30 210 7274 530 Telephone +30 210 7274 747 Fax

tsantili@pharm.uoa.gr, manolisf@upatras.gr E-mail Website http://www.hsmc.gr/ Website

Symposia, seminars, consulting, supporting young researchers. Activities

• 16th Hellenic Symposium on Medicinal Chemistry

(final date to be confirmed)

• 1st International Congress: From Drug Discovery to Drug Delivery

(November 13-15, 2014), Athens, Greece

Prof. Dr Anna TSANTILI-KAKOULIDOU (University of Athens) President

Assist. Prof. Dr Manolis FOUSTERIS (University of Patras) Secretary/Treasurer

Prof. Dr Anna TSANTILI-KAKOULIDOU (University of Athens)/ **EFMC-Delegate**

Prof. Dr Nicole POULI (University of Athens)

HUNGARY



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

Mission The dissemination of results and particularly of new trends in

Organic and Medicinal Chemistry among Hungarian scientists.

Founded 1907 (HCS

Members 300 (Medicinal Chemistry oriented members of the OMCD)

Member profile Trade and Industry: 40%

Research Institute: 20% University: 30%

Others: 10%

Postal address Hattyú u. 16

HU-1015 Budapest

Hungary

Telephone +36 1 201 68 83

x +36 1 201 80 56

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. Encouragement and initiating the development of new generations of scientists working in this field. Bimonthly seminars by invited scientists in the field of Medicinal Chemistry.

• 20th International Conference on Organic Synthesis (ICOS-20)

(June 29 - July 4, 2014), Eötvös Lorànd University, Budapest, Hungary

President Prof. Dr János WÖLFLING (University of Szeged)

EFMC-Delegate Prof. Dr János WÖLFLING (University of Szeged)

NAO Secretariat HCS (Organic and Medicinal Chemistry Division (OMCD))

The Medicinal Chemistry Section of the Israel Chemical Society

ISRAEL

To organise and to foster the interaction between medicinal chemists in academia, industry and drug dispensing institutions, in an independent Association devoted to education, research and development of Medicinal Chemistry through meetings and workshops, and to represent the Association at the national level, at the EFMC, and at related international levels. The Association is open for membership to molecular biologists, pharmacologists and pharmacists.

1991, 2004 - united with the Israely Association for Medicinal Chemistry
200
Members

Trade and Industry: 35% Member profile

Research Institute and University: 60%

Other: 5%

Dr. Raphael Nudelman Postal address

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

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

Raphael.nudelman@teva.co.il **E-mail** www.iamc.chemistry.org.il **Website**

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

• The 12th Annual Meeting of the Medicinal Chemistry Section of the Israel Chemical Society

(June 23-24, 2014), Weizmann Institute of Science, Israel

Dr Raphael NUDELMAN (Teva Pharmaceutical Industries)
Dr Arie Lev GRUZMAN(Bar-llan University)
Dr Raphael NUDELMAN (Teva Pharmaceutical Industries)
Dr Masha NIV (The Hebrew University of Jerusalem)

President Vice-President EFMC-Delegate NAO Secretariat

Activities





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

To improve Medicinal Chemistry in academia and industry by promo-

ting 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 Università degli Studi de Palermo

Dipartimento di Scienze Biologiche, Chimiche e Farmaceutiche

Via Archirafi 32 - 90123 Palermo - Italy

Telephone +39 338 399 77 96

+39 916 161 606 Fax

girolamo.cirricione@unipa.it E-mail Website http://portale.unipa.it/home/ Activities 2nd Italian Drug Discovery Summit

(February 28, 2014), Bresso (Milan), Italy

• III CDDD (Computationally Driven Drug Discovery)

(March 4-6, 2014), Verona, Italy

• 32nd Cyprus-Noordwijkerhout-Camerino Symposium

(May 18-23, 2014), Limassol, Cyprus

• 8° NPCF (Nuove Prospettive in Chimica Farmaceutica)

(June 9-11, 2014), Parma, Italy

European School of Medicinal Chemistry (ESMEC) EFMC Accredited School

(June 29 - July 4, 2014), Urbino, Italy

• SSPA (Summer School on Pharmaceutical Analysis)

(September 2014), Rimini, Italy

SCI2014 XXV Congresso Nazionale della SCI

(September 7-12, 2014), Arcavacata di Rente (Cosenza), Italy

Prof. Girolamo CIRRINCIONE (Università degli Studi di Palermo) President

Prof. Cosimo Damiano ALTOMARE Secretary

(Università degli Studi di Bari Aldo Moro)

Prof. Gabriele COSTANTINO (Università degli Studi di Parma) Treasurer

EFMC - Delegate Prof. Girolamo CIRRINCIONE (Università degli Studi di Palermo)



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

1586 Riga

Latvia

+371 670 34 890 Telephone +371 673 23 065 Fax

> E-mail vina@lanet.lv

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)

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 300 (including student members)

Trade & Industry: 20% Member profile Research Institute: 10%

University: 40% Other: 30%

Postal address Dr P. Molenveld (secretary)

Mercachem

Kerkenbos 1013, 6546 BB Nijmegen

P.O. Box 6747

6503 GE Nijmegen The Netherlands

Telephone +31 (0)24 372 33 55

+31 (0)24 372 33 05 Fax E-mail

peter.molenveld@mercachem.com Website www.kncv.nl/sectie-farmacochemie.8500.lynkx

Organisation of one Annual Scientific Meeting (1 day). Activities

Co-organisation of Dutch Medicine Days (FIGON) (1 days).

Co-organisation of Annual NWO Platform Meeting.

Co-organisation of sessions at KNCV Winter/Summer Congress. Participation in KNCV, NWO, FIGON and EFMC platforms. Dutch Medicinal Chemistry Award every 2 years for the best

Dutch Ph.D. thesis in the field.

 Spring Symposium - Cheminformatics (March 28, 2014), Utrecht, The Netherlands

• 32nd Cyprus-Noordwijkerhout-Camerino Symposium,

Trends in Drug Research

(May 18-22, 2014), Limassol, Cyprus • FIGON Dutch Medicines Days 2014

(end of September or early October), The Netherlands

Prof. Dr A.P. IJZERMAN (Medicinal Chemistry / LACDR) President

Secretary Dr Peter MOLENVELD (Mercachem) Dr F. DEKKER (University of Groningen) Treasurer

EFMC-Delegate Prof. Dr Henk TIMMERMAN (Vrije Universiteit Amsterdam / LACDR)



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, Pharmacology, Molecular Biology, Biotechnology, Pharmaceutical Biotechnology, Pharmacy and Medicine.

> 2006 Founded Members 50

Jagiellonian University Postal address 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 Website www.ptchm.pl

> > Activities

- 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.

> • 6th Polish Meeting on Medicinal Chemistry (September 18-20, 2014), Lublin, Poland

Prof. Dr Andrzej BOJARSKI Prof. Dr Janina KAROLAK-WOJCIECHOWSKA

Prof. Dr Katarzyna KIEC-KONONOWICZ Prof. Dr Dariusz MATOSIUK Dr Marek ZYLEWSKI

Prof. Dr Katarzyna KIEC-KONONOWICZ (Jagiellonian University)

EFMC-Delegate

Executive Committee

PORTUGAL



Group of Medicinal Chemistry of the Portuguese Chemical Society

Mission To diffuse the knowledge of Medicinal Chemistry. To foster

interdisciplinary bridges between Chemistry, Biology, Medicine and Pharmacy. To encourage research among young students. To promote the interaction between medicinal chemists in

academia and professionals in industry.

Founded 2007 Members 239

Postal address Sociedade Portuguesa de Química

Av. da República, 37-40

1050-187 Lisboa

Portugal

Telephone +351 21 793 4637

+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 Medicinal Chemistry.

- National Meeting in Medicinal Chemistry is organised every two

years.

 XXIII EFMC International Symposium on Medicinal Chemistry (EFMC-ISMC)

(September 7-11, 2014), Lisbon, Portugal

President Prof. Dr Rui MOREIRA

(University of Lisbon)

EFMC-Delegate Prof. Dr Rui MOREIRA

(University of Lisbon)

NAO Secretariat PCS

(Group of Medicinal Chemistry)

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

Education in Medicinal Chemistry. Mission Organisation of regular scientific seminars.

2000 Founded 150 Members

Research Institute: 67% Member profile

University: 26% Other: 7%

119899 Moscow Postal address

Activities

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.

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

Prof. Sergey BACHURIN Vice-President (Institute of Physiologically Active Compounds)

Prof. Dr Nikolay S. ZEFIROV **EFMC-Delegate** (Moscow State University)

SERBIA

Serbian Chemical Society, Division of Medicinal Chemistry



To establish communication and co-operation between

academia and industry, promote scientific research and education in the area of Medicinal Chemistry and encourage research among young students through meetings, seminars and workshops.

Member profile Industry 6%

Research Institute and University 86%

Others 4%

Postal address Karnegijeva 4

11120 Belgrade

Serbia

Telephone +381 11 3370 467

+381 11 3370 467

E-mail SHDoffice@tmf.bg.ac.rs Website www.shd.org.rs

Promotion of Medicinal Chemistry by academy-industry Activities

> interaction, co-operations with other organisations and support of the education in Medicinal Chemistry.

Prof. Dr Miroslav J. GASIC President

(Serbian Academy of Sciences and Arts)

Prof. Dr Dragana MILIC Secretary

(Faculty of Chemistry University of Belgrade)

EFMC-Delegate Prof. Dr Miroslav I. GASIC

(Serbian Academy of Sciences and Arts)



Section for Medicinal Chemistry of the Slovenian Pharmaceutical Society

The mission of the Section for Medicinal Chemistry of the Slovenian society is the advancement and promotion of Medicinal Chemistry in Slovenia and Europe. It will pursue its mission by organising scientific meetings, schools and 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.

> 23 February 2004 Founded 28 Members

Trade and Industry: 20 % Member profile

Research Institute: 15 % University: 60 % Others: 5 %

University of Ljubljana Postal address

Faculty of Pharmacy Aškerceva 7 1000 Ljubljana Slovenia

+ 386 1 476 96 39 Telephone +386 1 425 80 31 Fax

marco.anderluh@ffa.uni-lj.si **E-mail** Website www.sfd.si

• National Annual Meeting of Slovenian Medicinal Chemists Activities

(June-July, 2014), University of Ljubljana, Slovenia

Dr Marko ANDERLUH President (University of Ljubljana)

Prof. Dr Danijel KIKELJ (University of Ljubljana)

EFMC-Delegate



SPAIN

Sociedad Española de Química Terapéutica



To assist in the development and improvement of research and training

in the different areas of Medicinal Chemistry throughout Spain.

1977 Founded Members 400

Member profile Trade & Industry: 25%

Research Institute: 30% University: 35% Other: 10%

Postal address Juan de la Cierva.3

28006 Madrid

Spain

Telephone - Fax +34 91 56 22 900 - +34 91 56 44 853

E-mail - Website seqt@igm.csic.es - www.seqt.org

> Supporting the participation of young researchers at meetings and Activities

> > 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.

• 4th SEQT Summer School:

«Medicinal Chemistry in Drug Discovery: The Pharma Perspective»

(June 25-27, 2014), Madrid, Spain

President Dr Antoni TORRENS (Esteve Quimica)

Dr Ana CASTRO MORERA (IQM-CSIC) Secretary

Dr Ana Rosa SAN FÉLIX GARCÍA (IQM-CSIC) Treasurer

EFMC-Delegate Dr Antoni TORRENS (Esteve Quimica)

SEQT (Sociedad Española de Quimica Terapéutica) NAO Secretariat



The Swedish Academy of Pharmaceutical Sciences **Section for Medicinal Chemistry**

To strengthen the Medicinal Chemistry Discipline through the arran-

gement of conferences, seminars and other educational initiatives.

Founded 1972 276 Members

Trade & Industry: 70% Member profile

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

> Wallingatan 26A Postal address

SF Stockholm

Sweden

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

Goran.Lidgren@lakemedelsakademin.se E-mail

Website www.swepharm.se

Symposia, seminars, courses. Activities

 Introduction to Quantitative Pharmacology and PK/PD (September 10-11, 2014), Munich, Germany • 21st Intermediate Workshop on PK/PD Data Analysis:

A four-day Course Using WinNonlin (October 20-23, 2014), Rome, Italy

> Prof. Dr Anders KARLÈN (Uppsala University) President

Anna-Lena GUSTAVSSON (Karolinska Institutet) Secretary/Treasurer

Göran LIDGREN (Swedish Academy of Pharmaceutical Sciences) Secretary

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

SWITZERLAND



Division for Medicinal Chemistry & Chemical Biology (DMCCB)

Mission The Division of Medicinal Chemistry & Chemical Biology (DMCCB)

of the Swiss Chemical Society is a forum for scientists interested in

Medicinal Chemistry and related fields of research.

Founded 1990 Members 600

Member profile Trade & Industry: 75%

University: 15 % Other: 10%

Postal address Schwarztorstr. 9

3007 Bern Switzerland

Telephone +41 31 310 40 90

ax +41 31 310 40 29

E-mail info@scg.ch

Website https://scg.ch/index.php?option=com_content&view=category&layout

=blog&id=59<emid=345&lang=en

Activities • SCS Fall Meeting 2014

(September 11, 2014), Ecole Polytechnique Fédérale de Lausanne,

Switzerland

• 11. Swiss Course on Medicinal Chemistry 2014

(October 12-17, 2014), Mercure Classic Hotel Leysin, Switzerland

President Prof. Dr. Karl-Heinz ALTMANN

(ETH Zürich)

EFMC-Delegate Dr Manfred KANSY

(F. Hoffmann-La Roche Ltd)

NAO Secretariat SCS

(Division of Medicinal Chemistry (DMC))



Turkish Association of Medicinal and Pharmaceutical Chemistry

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

1994 Founded 170 Members

Academics: 100% Member profile

Department of Pharmaceutical Chemistry Postal address

Faculty of Pharmacy - Gazi University 06330 Ankara

Turkey

+ 90 312 305 18 72 **Telephone** + 90 312 305 18 72 **Fax**

Organising meetings and conferences. Activities

Prof. Dr Erhan PALASKA President (Hacettepe University)

Prof. Dr Rahime SIMSEK Secretary (Hacettepe University)

Dr Deniz DOGRUER Treasurer

(Gazi University)

TIONAL ADHERING ORGANISATIONS

UNITED KINGDOM

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



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

Founded Members

1995 (Formerly Fine Chemicals & Medicinals Group) 1020 members, 600 of whom are medicinal chemists

Member profile

Academia + Industry

Postal address

Stuart Cameron - Peakdale Molecular Ltd. - Peakdale Science Park

Sheffield Road, Chapel-en-le-Frith SK23 OPG High Peak United Kingdom

Telephone - Fax

+44 (1298) 816 700 Ext. 6841 / +44 (1298) 816 701

E-mail - Website http://www.rsc.org/bmcs

Activities

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

- New Perspectives in DMPK: Informing Drug Discovery (February 10-11, 2014), The Chemistry Centre, Burlington House, London, UK
- 25th Symposium on Medicinal Chemistry in Eastern

(April 24, 2014), The Fielder Centre, University of Herthfordshire, Hatfield, UK

• Kinase 2014: Past, Present and Beyond - 6th RSC/SCI Symposium on Kinase Inhibitor Design

(May 19-20, 2014), Babraham Research Campus, Cambridae, UK

GPCRs: 5th RSC/SCI Symposium on GPCRs in Medicinal

(September 15-17, 2014), Actelion, Allschwil, Switzerland

• Transporters Symposium (November 13, 2014), Lilly, Windlesham, Surrey, UK

• XXIV International Symposium on Medicinal Chemistry

(August 28 - September 1, 2016), Manchester, UK

Dr Phil JONES (Allsci) President Dr Stuart CAMERON (Peakdale)

EFMC-Delegate Dr David ALKER (David Alker Associates)

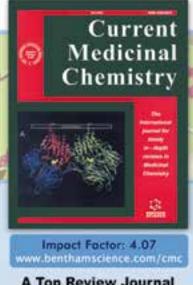
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A-B

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	ALFA AESAR GMBH & CO KG	Postbox 11 07 65	76057	KARLSRUHE	+49 721 84007 280	DE
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