

The official EFMC e-newsletter

MedChem Watch

22

January 2015

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OF EFMC

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EFMC

The official EFMC e-newsletter

MedChemWatch

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Design

pupilla grafik

web: www.pupilla.eu

Web Design

Antalys Sprl

web: www.antalys.be



EFMC

European Federation for Medicinal Chemistry

web: www.efmc.info

e-mail: administration@efmc.info

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The European Federation for Medicinal Chemistry (EFMC) is an independent association founded in 1970 representing 25 Societies from 23 European Countries and more than 6500 Medicinal Chemists. The mission of the EFMC is to advance the science of medicinal chemistry, by promoting cooperation and networking, providing training and mentoring, rewarding scientific excellence and by facilitating communication and influencing stakeholders.



Dear Colleagues,

The new year 2015 will open with the new Presidency of Prof. Koen Augustyns, elected during the Council meeting of Berlin 2012. MedChemWatch wants to welcome the new President offering him the opportunity to present his program to our readers in an Interview. At the same time, I am sure to interpret the everyone's feeling in thanking Dr. Uli Stilz for his dedication and commitment as EFMC president in the past term. Under Uli's guidance, a major reshaping of the organizational layout of our organization has taken place and this will certainly impact on the EFMC activities for the next years.

The new year 2015 will also bring some changes in our Newsletter. MedChemWatch was established in 2007, and since then, has been the official dissemination channel of EFMC, covering not only the events, meetings, congresses organized by EFMC and by the National Adhering Organisations, but also providing perspective articles and presentations by leading medicinal chemists in Europe. The entire archive of MedChemWatch is available at www.efmc.info/medchemwatch

Now, there is a continuous quest, especially from the younger members, for more flexible and quick dissemination means, also linked to social networks. In this respect, EFMC has established a very efficient web site and the Twitter account is becoming more and more used. In this respect, the EC has proposed and the Council has approved the change of the MedChemWatch format. In 2015, the newsletter will be shorter, distributed monthly and will contain a quick and easy compilation of news from EC/EFMC, from member societies as well as announcements and short reports of meetings, schools and courses.

I would like to thank the present Editorial Board for its work and dedication and all the people who have contributed, over the last years, to the success of the newsletter. At the same time, I am really looking forward to an even more successful 'new' MedChemWatch. Its success and its utility will strongly depends on the collaboration of the Member Societies and, ultimately, of all the European medicinal chemists. Your input, suggestions, criticism, will be always very welcome!

My best regards,

Gabriele Costantino, *Editor of MedChem Watch*



Interview with Prof. Koen Augustyns, the New President of EFMC

BY GABRIELE COSTANTINO

Effective January the 1st, 2015, the Executive Committee of the EFMC will change its composition, with new members substituting the leaving ones, and with new positions, such as the Secretary, the Treasurer and, of course, the President. The leaving members are Gabriele Costantino (Italy) and Hein Coolen (The Netherlands) who finished their term, the new members are Yves Auberson (Switzerland) and Antonello Mai (Italy). The position of Secretary will be taken by Jordi Gracia (Spain) while the new Treasurer will be Pascal George (France). The new President, elected during the Council Meeting of Berlin, in 2012, is Koen Augustyns, from University of Antwerp, Belgium. Koen is certainly not new to the EFMC, since he has already served in the EC for many years, first as a member and then as Secretary. Uli Stilz, President of EFMC in 2012-2014, will stay in the EC for two additional years as Past-President.

It is tradition that the new President presents himself and his program for the presidency to the EFMC members by using our Newsletter.



Gabriele Costantino. Koen, the starting of a new presidency is a good occasion to take stock of the state of EFMC and of medicinal chemistry in general in Europe. What's your vision for the next years?

Koen Augustyns. Gabriele, let me start by thanking you for this interview and for the opportunity to address a few

words to the readers of MedChem-Watch. In my opinion the European Federation for Medicinal Chemistry (EFMC) is a fantastic federation representing 25 societies in 23 countries throughout Europe. Since its start on September 13, 1972 (by the way exactly on the day I became 7) EFMC has served the medicinal chemistry community for many years in an excellent way. It is therefore both a big honour and a tremendous challenge to represent EFMC as the President for a period of three years starting January 2015. But with the help of a lot of people I will do my best to turn it into a success. First of all, I would like to thank Prof. Dr. Uli Stilz, now Past President of EFMC, for his vision and the energy and change that he brought into our federation. Thank you Uli for the collaboration so far, and I hope I can count on your personal support during the coming years. A special word of thanks also goes to Edmond Differding, Henk Timmerman and Gerhard Ecker who introduced and stimulated me into EFMC. Of course I may not forget Nele Coulier and Ly Differding who assisted me in an excellent way for 6 years dur-

ing my term as EFMC Secretary. As a President, it will be my task to guide all the teams of EFMC in the process of fulfilling its main objectives. We aim to advance the science of medicinal chemistry by promoting cooperation and networking, by providing training and mentoring, by rewarding scientific excellence, and by facilitating communication and influencing stakeholders. Obviously, during the course of history the medicinal chemistry landscape has drastically changed. Traditionally, medicinal chemistry was performed in major pharma and at universities in Europe and the USA, whereas during the last decade this has shifted also to biotech, SME's, spin-offs from universities, spin-outs of pharma and in public-private partnerships worldwide. One of the challenges of the next years will be to explore how EFMC can better serve this broader community.

GC. Can you anticipate your main commitments as President of the EFMC? What will be the continuities with the former presidencies, and what innovation you intend to bring up?

KA. In 2013 Uli Stilz initiated and stimulated a workshop in Frankfurt. During this workshop, council and executive committee members together with young scientists, discussed about the future of EFMC. As a President, it is extremely important for me to contribute to the needs and objectives of our members. During the coming years, I will guide and support the strategic and exploratory themes that were put forward. Especially, the influence of EFMC on EU science policy and the visibility and recognition of the important contributions of medicinal chemistry on society and human health will have my special attention. Too often,

the general public but also members of the broader research community are ignorant of the fact that chemical compounds form the basis of the many wonderful drugs that improved human health so much during the last century. We should emphasize much more that it are medicinal chemists that invent and create new medicines. During my presidency EFMC will organise a workshop and press conferences, write position papers, make videoclips and use the website and social media to reach out this message to the rest of the world. Next to that, an important aspect of my job will of course be to continue to foster the great EFMC events we all know.

GC. EFMC gathers together more than 6,000 medicinal chemists from both academia and industry. European medicinal chemistry has the potential for being one of the world-leading drivers of the research in biochemical and health sciences. What are your personal and the EFMC's commitments to create a real community of medicinal chemists in Europe?

KA. The EFMC symposia are the ideal events to meet colleagues from all over the world, to network and to learn about the latest developments in science. It should be our mission that all participants can go home inspired to innovate and contribute to the development of medicinal chemistry. In 2015, EFMC will co-organise three international meetings to encourage contacts and exchanges between medicinal chemists in Europe and around the world: The 5th edition of the Frontiers in Medicinal Chemistry Meeting is scheduled for September 14-16, 2015 and will be held in Antwerp, Belgium. The Frontiers meeting is organised on

a biennial basis, as a collaboration between the ACS MediDivision and the EFMC, and for this year's edition, the local organisers will be the Medicinal and Bioorganic Chemistry Division of the Royal Flemish Chemical Society (KVCV), the Division of Medicinal Chemistry of the Société Royale de Chimie (SRC) and the Section Medicinal Chemistry of the Royal Netherlands Chemical Society (KNCV). Following the spirit of this series, the meeting will bring together top quality speakers from the US and Europe, especially from Belgium and the Netherlands. Not only as EFMC President, but also as Co-chair of the Symposium, I would be happy to welcome you all in Antwerp in September 2015!

In connection with the Frontiers Meeting, EFMC will organise the 2nd EFMC Young Medicinal Chemist Symposium (EFMC-YMCS). As in Lisbon, we expect 120-150 mainly young participants at this one-day symposium. This symposium and the prizes for young medicinal chemists hopefully contribute to EFMC's mission to advance the careers of young scientists. In November 2015, EFMC will organise the 6th EFMC International Symposium on Advances in Synthetic and Medicinal Chemistry (EFMC-ASMC 2015). Together with our colleagues from the Medicinal Chemistry Section of the Israel Chemical Society, we are looking forward to meet all of you in Tel Aviv with its vibrant biotech region.

Last weekend I participated in the first meeting of the International Organising Committee of EFMC-ISMC 2016 in Manchester. Manchester is an extremely attractive city with an excellent congress centre located right in the middle of the city. I am really looking

forward to collaborate with all members of the local and international organizing committee to make this symposium to an attractive event for the whole medchem community.

GC. One of the missions of EFMC is to promote aggregation and cultural exchange between the members. Can you briefly summarize which instruments the European medicinal chemists can use to get information about EFMC and its activities (besides this newsletter, of course)?

KA. Over the coming years we will continue to provide you with updates on EFMC activities through our monthly electronic newsletter, via the EFMC LinkedIN group, via Twitter and on our website www.efmc.info. It is my intention to further promote the use of social media to communicate with the young and also less young medicinal chemists. Furthermore, MedChemComm, the EFMC journal published in collaboration with RSC, is released monthly and contains scientific work of the highest quality in all fields of

medicinal chemistry. I invite all readers to submit their high quality manuscripts to MedChemComm.

GC. Thank you very much and good luck for your presidency! Would you like to conclude by addressing a short message to all the readers of this newsletter?

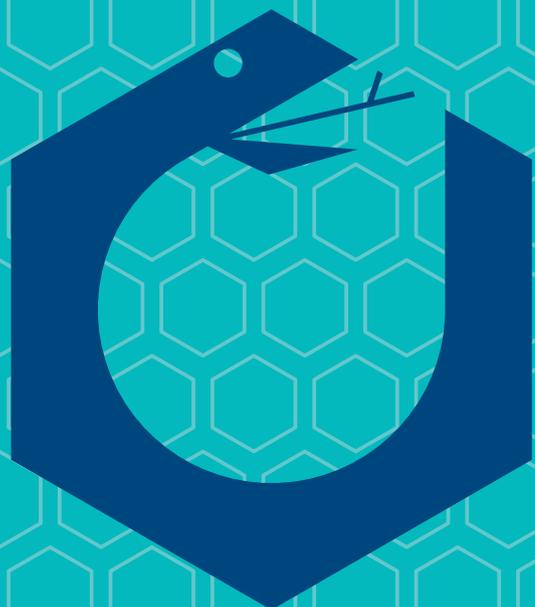
KA. Let me close by wishing everyone all the best for a splendid 2015, both in their professional and personal life. I hope to meet all of you at the occasion of one or another EFMC event.



Biosketch

Koen Augustyns obtained his Master and PhD in Pharmaceutical Sciences at the KU Leuven, Belgium in 1988 and 1992 respectively. After postdoctoral stays at the University of Antwerp, Belgium and the University of Tübingen, Germany he was appointed as Professor of Medicinal Chemistry at the University of Antwerp, Belgium. His research resulted in more than 130 papers and 12 patents in the field of medicinal chemistry, mostly focused on the design and development of enzyme inhibitors in the fields of oncology and infectious diseases. So far, he supervised 20 PhD students and he is currently heading an international research group of 25 PhD students and postdoctoral scientists.

He was chair of the Department of Pharmaceutical Sciences from 2007-2012 and is currently vice-dean of the Faculty of Pharmaceutical, Biomedical and Veterinary Sciences at the University of Antwerp. Since 2002, he is the President of the Medicinal and Bioorganic Chemistry Division of the Royal Flemish Chemical Society (KVCV) in Belgium and he serves the European Federation for Medicinal Chemistry (EFMC) as Secretary (2009-2013), President-Elect (2014) and President (2015-2017). He was a member of several international organizing committees of medicinal chemistry symposia, and was co-chair of the EFMC International Symposium on Medicinal Chemistry in 2010 in Brussels.



EFMC-YMCS

2nd

EFMC Young Medicinal Chemist Symposium

September 17, 2015 | University of Antwerp | Belgium

The **EFMC Young Medicinal Chemist Symposium** is an initiative of the European Federation for Medicinal Chemistry (EFMC). This one-Day Symposium, organised in connection with Frontiers in Medicinal Chemistry 2015, has 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 the European Champion in Medicinal Chemistry

PROGRAMME OF THE DAY

- opening and closing keynote lectures from inspiring leaders in medicinal chemistry
- oral communications by invited prize winners from national young medicinal chemist meetings in Europe
- oral communications selected from submitted abstracts
- flash poster presentations selected from submitted abstracts
- A poster session open to any young researcher submitting an abstract

EFMC-YMCS ORGANISING COMMITTEE

Symposium Chair

- ◆ **Chris de Graaf** (VU University Amsterdam, NL)

Members

- ◆ **Dave Alker** (David Alker Associates, UK)
- ◆ **Koen Augustyns** (University of Antwerp, BE)
- ◆ **Ly Differding** (LD Organisation, BE)
- ◆ **Gerhard Ecker** (University of Vienna, AT)
- ◆ **Rita Guedes** (University of Lisbon, PT)
- ◆ **Krzysztof Jozwiak** (Medical University of Lublin, PL)
- ◆ **Maria Santos** (University of Lisbon, PT)
- ◆ **Young Medicinal Chemist YMCS alumni**

More information
and on-line registration is available
on www.efmc-ymcs.org

The 2nd EFMC Young Medicinal Chemist Symposium is open to any scientist interested by the topics related to Medicinal Chemistry.



EFMC
European Federation
for Medicinal Chemistry



SAVE THE DATE

FMC 2015

FRONTIERS IN MEDICINAL CHEMISTRY

INTERNATIONAL ORGANISING COMMITTEE

- Prof. Dr Koen AUGUSTYNS** (University of Antwerp, Belgium)
- Prof. Dr Brian S. J. BLAGG** (University of Kansas, United States)
- Prof. Dr Steve FIRESTINE** (Wayne University, United States)
- Dr Jordi GRACIA** (Almirall, Spain)
- Dr Laura HEITMAN** (University of Leiden, The Netherlands)
- Dr Peter MOLENVELD** (Mercachem, The Netherlands)
- Dr Laurent PROVINS** (UCB, Belgium)
- Dr Amy RIPKA** (WuXi AppTec, United States)
- Prof. Dr Hans Ulrich STILZ** (Novo Nordisk, Denmark)
- Prof. Dr Henk TIMMERMAN** (VU Amsterdam, The Netherlands)

WWW.FRONTIERS2015.ORG

CONFIRMED SESSIONS

- **Plenary Lectures**
- **Molecular Chaperones and their Therapeutic Potential**
- **Unexplored Chemical Space: Experiences from the European Lead Factory and the NIH Molecular Libraries Programme**
- **Emerging Advances in GPCR Research**
- **Emerging Topics**
- **Non-Small Molecules**
- **FXIa/FXIIa Strategies for Anti-thrombotic Therapy**
- **Kinetics and Thermodynamics of Ligand Binding**
- **Rational Design of Non-Oral Drugs**
- **Academic Drug Discovery**

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EFMC
European Federation
for Medicinal Chemistry



American Chemical Society
Division of Medicinal Chemistry

Local Organisers



Medicinole- & bio-organische
KVCV

KNCV

News from the Societies

BY ERDEN BANOGLU



SEQT
Sociedad Española de
Química Terapéutica



SOCIETÀ CHIMICA ITALIANA



HELLENIC SOCIETY OF MEDICINAL CHEMISTRY

SPANISH SOCIETY FOR MEDICINAL CHEMISTRY (SEQT) AND THE ITALIAN DIVISION OF MEDICINAL CHEMISTRY (SCI- DCF)

The Spanish Society for Medicinal Chemistry (SEQT) and the Italian Division of Medicinal Chemistry (SCI-DCF) jointly organize the Spanish-Italian Medicinal Chemistry Congress (SIM-CC-2015) which will be held in Barcelona (Spain), July 12-15, 2015. The Congress will take place at the Auditorium of the Barcelona Biomedical Research Park (PRBB). The scientific program, invited speakers and additional info can be found at www.simcc2015.org

HELLENIC SOCIETY OF MEDICINAL CHEMISTRY

The Hellenic Society of Medicinal Chemistry organizes the IX Edition of the Joint Meeting in Medicinal Chemistry (JMMC). This meeting, the ninth in a row, bring together medicinal chemists from Austria, Croatia, Czech Republic, Hungary, Italy, Poland, Slovakia, Slovenia, and of course, Greece. The meeting will be held June 7-10 in Athens (Greece) at the Auditorium Aristotelis of the University Campus. Information are available at <http://jmmc2015.gr/>



10th EFMC Short Course on Medicinal Chemistry

SMALL-MOLECULE MODULATION OF PROTEIN-PROTEIN INTERACTIONS (PPIs)

Course Organisers

Christian Ottmann and Luc Brunsveld
TU Eindhoven, The Netherlands

Local Organiser

Henk Timmerman
VU University Amsterdam, The Netherlands

Date

April 12-15, 2015

Venue

Castle "Oud Poelgeest", Oegstgeest
(near Leiden), The Netherlands

Airport Schiphol, Amsterdam

Registration deadline

February 9, 2015

Fee € 1475,00 – Including accommodation, breakfast, coffee breaks, lunches and dinners during the 3 days of the conference.

Contact

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

April 12-15, 2015

Oegstgeest, near Leiden, The Netherlands

EFMC Short Course on Medicinal Chemistry

Small-molecule modulation of Protein-Protein Interactions (PPIs)

This intensive course is intended for scientists with an interest in exploring the possibilities of targeting PPIs for drug discovery or chemical biology. The number of participants will be limited to 35 to assure interactive and in-depth discussions.

Course Outline

Protein-Protein Interactions (PPIs) lie at the heart of almost every physiological process and every disease. With a recently estimated number of 300,000 in humans, the possibilities for therapeutic intervention are significantly larger compared to 'classical' drug targets. While this potential is up to now largely untapped, some successful examples have shown that PPIs can be modulated by drug-like small molecules, natural products and peptides.

Specific features of PPIs as drug targets - in comparison to conventionally addressing e.g. enzymes - will be discussed, followed by a broad overview of the field, techniques to discover modulators of PPIs, and – in more detail - a number of case studies on successful PPI intervention will be presented. Speakers include a selection of top-scientists active in the field of PPI, from both industry and academia.



EUROPEAN FEDERATION
FOR MEDICINAL CHEMISTRY

EFMC NEWS & EVENTS

BY NELE COULIER AND KOEN AUGUSTYNS

To acknowledge and recognize an outstanding young medicinal chemist (≤ 10 years after PhD) working in industry or in academia within Europe, EFMC established the EFMC Prize for a Young Medicinal Chemist in Industry and the EFMC Prize for a Young Medicinal Chemist in Academia. Both prizes consist of a diploma, € 1.000 and an invitation for a short presentation at the upcoming 6th EFMC International Symposium on Advances in Synthetic and Medicinal Chemistry (EFMC-ASMC'15), scheduled to take place on May 15-18, 2015 in Tel Aviv, Israel. Deadline for nominations/applications is January 31, 2015. More information is available on www.efmc.info

The publication of the 13th edition of the EFMC Yearbook is scheduled for January 2015. The Yearbook will be distributed electronically to all members of the EFMC database, as well as to the members of the National Adhering Organisations (25 scientific organisations from 23 European countries). In addition, hard copies of the EFMC Yearbook will be distributed at all scientific meetings organised or sponsored by EFMC. If you would like

to receive the electronic version of the EFMC Yearbook 2015, we invite you to register via the EFMC website www.efmc.info before January 15.

With the aim to support training and networking within the medicinal chemistry community, EFMC is organising twice a year an EFMC Short Course on Medicinal Chemistry. In April 2015, Christian Ottmann and Luc Brunsveld (TU Eindhoven, The Netherlands) will organise a Course on "Small-Molecule Modulation of Protein-Protein Interactions (PPIs)". The Fall Course on "Engineering of Biopharmaceuticals" will be organised by Jesper Lau (Novo Nordisk, Denmark). Both Short Courses will take place in Oegstgeest (near Leiden), The Netherlands. For more information and registration, we refer to the website www.efmcshortcourses.org

In the upcoming year, EFMC will co-organize three international meetings to encourage contacts and exchanges between medicinal chemists in Europe and around the world. The 6th EFMC International Symposium on Advances in Synthetic and Medicinal Chemistry

(EFMC-ASMC '15), which will be held in combination with the 13th Annual meeting of the Medicinal Chemistry Section of the Israel Chemical Society, is scheduled to be held on November 15-18, 2015 in Tel Aviv, Israel. The programme will be put together by Ilan Marek (Technion-Israel Institute of Technology, Israel) and Uli Stilz (Novo Nordisk & EFMC, Denmark). More information will soon be available on the website www.efmc-asmc2015.org

In 2015 EFMC and the ACS MediDivision will also be jointly organizing the fifth edition of the Frontiers in Medicinal Chemistry Meeting, to be held in Antwerp, Belgium on September 14-16, 2015. This symposium is the fifth in the series initiated in Siena in 2007 and continued in Barcelona in 2009, Stockholm in 2011 and San Francisco in 2013. For this year's edition, the local organisers will be the Medicinal and Bioorganic Chemistry Division of the Royal Flemish Chemical Society (KVCV), the Division of Medicinal Chemistry of the Société Royale de Chimie (SRC) and the Section

Medicinal Chemistry of the Royal Netherlands Chemical Society (KNCV). Following the spirit of this series, the meeting will bring together top quality speakers from the US and Europe, especially from Belgium and the Netherlands. To find out more on the selected sessions, please visit the website www.frontiers2015.org

In connection with the Frontiers Meeting, EFMC will be organising on September 17, 2015 the 2nd EFMC Young Medicinal Chemist Symposium (EFMC-YMCS). The aim of the symposium is to create a network of young European investigators in Medicinal Chemistry, to stimulate them to share their scientific work with peers and inspiring leaders in the field, and to create competition and excellence in Medicinal Chemistry within Europe by selecting the European Champion in Medicinal Chemistry. More details can be found on the website www.emc-ymcs.org

Over the coming year, EFMC will continue to fund grants for EFMC organised events with the aim to support the participation of young academic scientists in EFMC events. Upon application, up to 50% of the registration fee for EFMC-ASMC, Frontiers in Medicinal Chemistry, EFMC-YMCS, EFMC Short Courses or the EFMC Accredited School (Urbino) will be covered by EFMC. If this would be of interest to you, please check the website www.efmc.info

EFMC ORGANISED EVENTS

EFMC Short Course on Small-Molecule Modulation of Protein-Protein Interactions (PPIs)

April 12-15, 2015
Oegstgeest, The Netherlands
www.efmcshortcourses.org

Frontiers in Medicinal Chemistry

September 14-16, 2015
Antwerp, Belgium
www.frontiers2015.org

2nd EFMC Young Medicinal Chemist Symposium

September 17, 2015
Antwerp, Belgium
www.efmc-ymcs.org

EFMC Short Course on Engineering of Biopharmaceuticals

September 27-30, 2015
Oegstgeest, The Netherlands

6th EFMC International Symposium on Advances in Synthetic and Medicinal Chemistry

November 15-18, 2015
Tel Aviv, Israel
www.efmc-asmc2015.org

EFMC SPONSORED EVENTS

16th Hellenic Symposium on Medicinal Chemistry (16th HSMC)

January 23-25, 2015
Patras, Greece
<http://www.hsmc.gr/>

35th Edition of the European School of Medicinal Chemistry (ESMC)

June 28 - July 3, 2015
Urbino, Italy
www.esmec.eu

51st International Symposium on Medicinal Chemistry (RICT 2015)

July 1-3, 2015
Avignon, France
www.rict2015.org

Vienna Summer School on Drug Design

September 20-25, 2015
University of Vienna, Austria
summerschool.europin.at



EFMC ASMC15

VI International Symposium on Advances in Synthetic and Medicinal Chemistry

in combination with the 13th Annual Meeting of the
Medicinal Chemistry Section of the Israel Chemical Society

Tel Aviv, Israel | November 15-18, 2015

Symposium Chairmen

Prof. Dr Ilan MAREK (Technion-Israel Institute of Technology, Israel)
Prof. Dr Hans Ulrich STILZ (Novo Nordisk, Denmark)



INTERNATIONAL ORGANISING COMMITTEE

Chairs Ilan MAREK (Technion-Israel Institute of Technology, Israel)
Hans Ulrich STILZ (Novo Nordisk, Denmark)

Members Koen AUGUSTYNS (University of Antwerp, Belgium)
Gene VAISBERG (Chembridge Corporation, United States)

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Christophe GENICOT (UCB Pharma, Belgium)
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Lieven MEERPOEL (Janssen R&D, Belgium)
K.C. NICOLAOU (RICE University, United States)
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Roberto PELLICCIARI (University of Perugia, Italy)
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More information is available on
www.efmc-asmc2015.org

THE EFMC PRIZE

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 6th EFMC International Symposium on Advances in Synthetic and Medicinal Chemistry (EFMC-ASMC 15), November 2015, Israel. Two additional nominees will also be identified and acknowledged.

Applications should be done via the application form on www.efmc.info and 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 6th EFMC International Symposium on Advances in Synthetic and Medicinal Chemistry (EFMC-ASMC 15), November 2015, Israel. Two additional nominees will also be identified and acknowledged.

Nominations should be submitted by the candidate's supervisor via the submission form on www.efmc.info and should consist of:

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

Deadline for Nominations is January 31, 2015



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11th EFMC Short Course on Medicinal Chemistry

ENGINEERING OF BIOPHARMACEUTICALS

September 27-30, 2015
Oegstgeest, near Leiden, The Netherlands

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

The development of future biopharmaceuticals will depend on research at the interfaces between several scientific disciplines including organic chemistry, physical chemistry, 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 regioselective coupling reactions. The biophysical characterization of peptide and proteins will be integrated in the lectures. The course will also cover various methods of semi-synthetic and synthetic modifications of proteins with focus on the application to drug discovery. Finally the course will give an insight to therapeutic antibodies including screening, optimization and engineering 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.

Course Organisers

Jesper LAU
Novo Nordisk, DE

Local Organiser

Henk Timmerman
VU University Amsterdam, NL

Deadline for registration

February 9, 2015

Venue

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

Fee

€ 1.675,00 – Including accommodation,
breakfast, coffee breaks, lunches and
dinners during the 3 days of the
conference.

Contact

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



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