

## Programme

**Sunday July 3, 2016**

**14:00 Registration**

**Session chair:**

Prof. Romano ORRU  
(VU UNIVERSITY AMSTERDAM, Amsterdam, The Netherlands)

**16:15 Opening Ceremony**

Prof. Vinod SUBRAMANIAM  
(VRIJE UNIVERSITEIT AMSTERDAM, Amsterdam, The Netherlands)

**16:30 Opening Lecture - PL01 - How Natural Products Can Inspire Chemical Biology and Drug Discovery**

Prof. Herbert WALDMANN  
(MAX PLANCK INSTITUTE OF MOLECULAR PHYSIOLOGY, Dortmund, Germany)

**17:15 Welcome drink - sponsored by MDPI**

## Programme

### Monday July 4, 2016

#### Session chair:

Dr Eelco RUIJTER  
(VU UNIVERSITY AMSTERDAM, Amsterdam, The Netherlands)

**09:00 IL01 - Fluorinated Imaging Materials**

Prof. Tobias RITTER  
(MAX-PLANCK-INSTITUT FÜR KOHLENFORSCHUNG, Mulheim, Germany)

**09:35 PL02 - Organocatalytic Asymmetric Synthesis of Heterocycles**

Prof. Dieter ENDERS  
(RWTH AACHEN, Aachen, Germany)

**10:20 IL02 - The Development of Ligand Systems for Separating Minor Actinides from Lanthanides for Nuclear Fuel Reprocessing**

Prof. Laurence HARWOOD  
(UNIVERSITY OF READING, Reading, United Kingdom)

**10:55 Coffee break and Exhibition**

#### Session chair:

Prof. Henk HIEMSTRA  
(UNIVERSITY OF AMSTERDAM, Amsterdam, The Netherlands)

**11:25 IL03 - Stereoselective Heterocycle Synthesis Coupling Multicomponent Reactions with Biocatalysis or Organocatalysis**

Prof. Luca BANFI  
(UNIVERSITY OF GENOA, Genova, Italy)

**12:00 IL04 - Metal Free Click Reactions For Glycoconjugate Modification**

Prof. Geert-Jan BOONS  
(THE UNIVERSITY OF GEORGIA, Athens, GA, United States)

**12:35 IL05 - Target Family-Centric Privileged Structures: a Rich Playground for Diverse Heterocyclic Chemotypes**

Dr Gerhard MÜLLER  
(MERCACHEM, Nijmegen, The Netherlands)

**13:10 Lunch, Exhibition and Poster Session 1 (odd numbers)**

#### Session chair:

Prof. Laurence HARWOOD  
(UNIVERSITY OF READING, Reading, United Kingdom)

**14:40 Elsevier presentation: Data-Driven Discovery: Deriving and Applying Actionable Information in Medicinal Chemistry**

**15:00 IL06 - Ynamides: Remarkable Building Blocks for Heterocyclic Synthesis**

Prof. Gwilherm EVANO  
(ULB, Brussels, Belgium)

### Session Heterocyclic Synthetic Methodology

#### Session chair:

## Programme

Prof. Laurence HARWOOD  
(UNIVERSITY OF READING, Reading, United Kingdom)

**15:35 KL01 - Alpha-Functionalization of Amines as a Tool for the Synthesis of Heterocycles and Natural Products**

Prof. Till OPATZ  
(JOHANNES GUTENBERG-UNIVERSITY, Mainz, Germany)

**16:00 OC01 - Poxim: A Novel N-Heterocyclic Carbene Equipped with Multifunctional Phosphine Oxide**

Prof. Yoichi HOSHIMOTO  
(FACULTY OF ENGINEERING, OSAKA UNIVERSITY, Suita, Osaka, Japan)

**16:20 OC02 - Efficient Approach to the Synthesis of 2,3-Substituted Furo[2,3-b]Pyridines**

Mr Fernando FUMAGALLI  
(UNIVERSITY OF SAO PAULO, Ribeirao Preto, Brazil)

**16:40 Coffee break and Exhibition**

**17:10 OC03 - Rapid Composition of Spiranolactones: Access to Natural and Unexplored Frames**

Dr Dmitry TSVELIKHOVSKY  
(THE HEBREW UNIVERSITY OF JERUSALEM, Jerusalem, Israel)

**17:30 OC04 - Nitrosoallenes: Reactivity and Applications to Heterocycles Synthesis**

Dr Hiroki TANIMOTO  
(NARA INSTITUTE OF SCIENCE AND TECHNOLOGY, Nara, Japan)

**17:50 OC05 - Synthesis of Highly and Diversely Substituted Heterocycles from Alk-3-yn-1-ones (Propargyl Ketones)**

Prof. Roman DEMBINSKI  
(OAKLAND UNIVERSITY, Rochester, MI, United States)

### Session Heterocyclic Synthetic Methodology

**Session chair:**

Prof. Luca BANFI  
(UNIVERSITY OF GENOA, Genova, Italy)

**KL02 - First-in-Class MCRs Coupled with Cascade Reactions for the Generation of Molecular Complexity**

Prof. Christopher HULME  
(UNIVERSITY OF ARIZONA, Tucson, United States)

**OC06 - Asymmetric Synthesis of Natural Tetrahydroisoquinolines and Tetrahydroprotoberberines**

Dr Steen INGEMANN JORGENSEN  
(UNIVERSITY OF AMSTERDAM, Amsterdam, The Netherlands)

**OC07 - Synthesis of 3-Benzazepines by Metal-Free Oxidative C-H Bond Functionalization-Ring Expansion Tandem Reaction**

Mr Andrea GINI  
(WISSENSCHAFTSZENTRUM STRAUBING, Straubing, Germany)

**OC08 - Combining Photochemistry and Catalysis: Rapid Access to SP3 - Rich Polyheterocycles from Simple Pyrroles**

Ms Emma BLACKHAM  
(UNIVERSITY OF BRISTOL, Bristol, United Kingdom)

**OC09 - Intramolecular Tsuji-Trost Cascade Cyclization as a Novel Synthetic Strategy Towards Muironolide A**

Mr John BRAUN  
(VRIJE UNIVERSITEIT AMSTERDAM, Amsterdam, The Netherlands)

**OC10 - C-Brigded N-Heterocycles as New Ligands**

Mr Tim-Daniel J. STUMPF  
(JUSTUS-LIEBIG-UNIVERSITY GIessen, Giessen, Germany)

### Session Medicinal Chemistry and Chemical Biology

**Session chair:**

Dr Alessia AMORE  
(UBIQ, Amsterdam, The Netherlands)

**KL03 - Biomimetic Natural Product Synthesis**

## Programme

Dr Andrew LAWRENCE  
(UNIVERSITY OF EDINBURGH, Edinburgh, United Kingdom)

**OC11 - Pyrazoloquinolinones, Revisited GABAA Receptor Tool Compounds**

Mr David Chan Bodin SIEBERT  
(TU WIEN, Wien, Austria)

**OC12 - Exploring Tryptophan Synthase as a Herbicidal Mode of Action**

Dr Matthew MCLACHLAN  
(SYNGENTA, Bracknell, Berkshire, United Kingdom)

**OC13 - The Allylic Azide Rearrangement in Tandem with Huisgen Cycloaddition: Synthesis of Diverse Polyhydroxylated Nitrogen Containing Scaffolds**

Ms Rekha CHADDA  
(SCHOOL OF CHEMISTRY, NUI GALWAY, Galway, Ireland)

**OC14 - Synthesis and Potential Cytotoxic Activity of New Substituted Indazole Derivatives Bearing Pyrrole and 2-Pyrone**

Mr Mohamed EL GHOZLANI  
(UNIVERSTY SULTAN MY SLIMAN, Béni Mellal, Morocco)

**OC15 - Towards a Biomimetic Synthesis of Sciodole**

Mr Josh HOMER  
(UNIVERSITY OF AUCKLAND, Auckland, New Zealand)

**18:10 End of the day**

## Programme

### Tuesday July 5, 2016

#### Session Chair:

Dr Tommi MEULEMANS  
(MERCACHEM BV, Nijmegen, The Netherlands)

- 09:00 **PL03 - Catalytic Approaches from the Synthesis of Enantiopure Biologically Relevant Heterocycles**  
Prof. Floris RUTJES  
(RADBOUD UNIVERSITY NIJMEGEN, Nijmegen, The Netherlands)
- 09:45 **PL04 - Carbo- and Heterocycles via Metal-Catalyzed Cycloadditions**  
Dr Fernando LOPEZ  
(UNIVERSITY OF SANTIAGO DE COMPOSTELA (USC) AND SPANISH NATIONAL RESEARCH COUNCIL (CSIC), Santiago de Compostela, Spain)
- 10:30 **IL07 - Photoactive Molecular and Supramolecular Materials Built-up with Heterocycles**  
Prof. Gianluca M. FARINOLA  
(UNIVERSITY OF BARI, Bari, Italy)
- 11:05 **Coffee break and Exhibition**

#### Session Chair:

Prof. Huib OVAAR  
(NETHERLANDS CANCER INSTITUTE, Amsterdam , The Netherlands)

- 11:30 **IL08 - Redesigning the Molecules of Nature: Lessons Learned from Total Synthesis**  
Prof. Karl GADEMANN  
(UNIVERSITY OF ZURICH, Zurich, Switzerland)
- 12:05 **IL09 - Copper Catalysis for Synthesis of Enantiopure Alcohols, Amines and Heteroarenes**  
Prof. Syuzanna HARUTYUNYAN  
(UNIVERSITY OF GRONINGEN, Groningen, The Netherlands)
- 12:40 **IL10 - C-H Functionalization for the Synthesis and Assembly of Heterocycles**  
Prof. Lutz ACKERMANN  
(GEORG-AUGUST UNIVERSITY GOETTINGEN, Goettingen, Germany)
- 13:15 **Lunch, Exhibition and Poster Session 2 (even numbers)**

#### Session Chair:

Prof. Hermen OVERKLEEFT  
(LEIDEN UNIVERSITY, Leiden, The Netherlands)

- 14:45 **IL11 - Catalysis: A Versatile Tool for the Synthesis of Nitrogen-Containing Heterocycles**  
Dr Geraldine MASSON  
(INSTITUT DE CHIMIE DES SUBSTANCES NATURELLES CNRS, Gif-sur-Yvette, France)

### Session Heterocyclic Synthetic Methodology

#### Session Chair:

Prof. Hermen OVERKLEEFT  
(LEIDEN UNIVERSITY, Leiden, The Netherlands)

- 15:20 **KL04 - New Tricks for Old Heterocycles: from Natural Product Synthesis to Click-Like Functionalizations**  
Prof. Johan WINNE  
(UNIVERSITEIT GENT, Ghent, Belgium)

## Programme

- 15:45 OC16 - Synthesis of Highly Enantioenriched Pyrrolo[1,2-a]Quinolines. Organocatalyzed Domino Cyclopropane Ring Opening/aza-Michael/aldol Reaction Followed by Acid-Promoted Lactamization**  
Mr Eduardo SANCHEZ  
(UPV/EHU UNIVERSITY OF THE BASQUE COUNTRY, Leioa, Spain)
- 16:05 OC17 - Brönsted-Acid Catalysed C2-Alkenylation of Aromatic Nitrogen Heterocycles**  
Mr Giacomo CRISENZA  
(UNIVERSITY OF BRISTOL, Bristol, United Kingdom)
- 16:25 Coffee break and Exhibition**
- 17:00 OC18 - Rearrangement and Cycloaddition Reactions of Donor-Acceptor Cyclopropanes**  
Prof. Daniel B. WERZ  
(TU BRAUNSCHWEIG, Braunschweig, Germany)
- 17:20 OC19 - Pd- and Cu-Catalyzed Stereo- and Regiocontrolled Decarboxylative / C-H Alkenylation of Heroarenes**  
Dr Cedric SCHNEIDER  
(UNIVERSITY OF ROUEN, Mont Saint Aignan, France)
- 17:40 OC20 - Enantioselective Organocatalyzed  $\beta$ -Sulfanylation of Isoxazolidin-5-ones: An Approach To b2,2-Amino Acids**  
Mr Timothée CADART  
(LABORATOIRE COBRA UMR 6014, ROUEN, France)

### Session Heterocyclic Synthetic Methodology

#### Session Chair:

Prof. Lutz ACKERMANN  
(GEORG-AUGUST UNIVERSITY GOETTINGEN, Goettingen, Germany)

#### KL05 - Synthesis of New Spiroacetals by Sustainable Gold Catalysis

Prof. Norbert KRAUSE  
(DORTMUND UNIVERSITY OF TECHNOLOGY, Dortmund, Germany)

#### OC21 - Is Gold Catalysis a Competitive Method toward Heterocycles ?

Mrs Solène MIASKIEWICZ  
(STRASBOURG UNIVERSITY, Strasbourg, France)

#### OC22 - Aliphatic N-Heterocycle Synthesis through Direct C-H Bond Amination

Mr Petrus KUIJPERS  
(UNIVERSITY OF AMSTERDAM, Amsterdam, The Netherlands)

#### OC23 - 3-Diazoindolin-2-Imines: A Novel Class of Metal Carbene Precursors for the Syntheses of Indole Derivatives

Prof. Yanguang WANG  
(ZHEJIANG UNIVERSITY, Hangzhou, China)

#### OC24 - Donor-Acceptor Cyclopropanes in Synthesis of Azaheterocycles

Prof. Igor TRUSHKOV  
(M V LOMONOSOV MOSCOW STATE UNIVERSITY, Moscow, Russia)

#### OC25 - Chirality in Boron-Chelated Dipyrromethene Fluorophores: Synthesis and Chiroptical Investigations

Dr Michael HALL  
(NEWCASTLE UNIVERSITY, Newcastle upon Tyne, United Kingdom)

### Session Medicinal Chemistry and Chemical Biology

#### Session Chair:

Prof. Henk TIMMERMAN  
(VU UNIVERSITY AMSTERDAM, Amsterdam, The Netherlands)

#### KL06 - New Multicomponent Reactions and Strategies to Heterocyclic and Macro cyclic Peptides

Dr Daniel GARCÍA RIVERA  
(LEIBNIZ INSTITUTE OF PLANT BIOCHEMISTRY / UNIVERSITY OF HAVANA, La Habana, Cuba)

#### OC26 - Palladium-Catalyzed Isocyanide Insertion in Construction of Diverse Heterocycles

Dr Esther VICENTE GARCIA  
(VRIJE UNIVERSITEIT AMSTERDAM, Amsterdam, The Netherlands)

## Programme

### **OC27 - Biologically Active Indolines - Novel Multi-Functional Indolinic Drugs for the Treatment of Inflammatory Diseases**

Prof. Abraham NUDELMAN  
(BAR ILAN UNIVERSITY, Ramat Gan, Israel)

### **OC28 - Asymmetric Reduction of Enamines towards the Synthesis of (-)-Cytisine and Heterocyclic Building Blocks**

Mr Hugo REGO CAMPELLO  
(UNIVERSITY OF BRISTOL, Bristol, United Kingdom)

### **OC29 - Biology-Oriented Synthesis Based on Privileged Structures: Building Framework Diversity Around Pyrrole Cores**

Prof. José Carlos MENÉNDEZ  
(UNIVERSIDAD COMPLUTENSE, Madrid, Spain)

### **OC30 - Exploring the Antifungal and Antibiofilm Properties of Imidazolium Salts and Fluorescent Benzannulated Benzimidazoles**

Prof. Henri SCHREKKER  
(UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL, Porto Alegre-RS, Brazil)

**18:00 End of the day**

**18:30 Boat tour and Conference dinner**

## Programme

### Wednesday July 6, 2016

#### Session Chair:

Prof. Karl Anker JOERGENSEN  
(AARHUS UNIVERSITY, Aarhus, Denmark)

- 09:00 IL12 - Complex Natural Product as a Driving Force for Discovery in Organic Synthesis and Chemical Biology**  
Prof. Xiaoguang LEI  
(PEKING UNIVERSITY, Beijing, China)
- 09:35 IL13 - Metallation–Substitution of Saturated Nitrogen Heterocycles**  
Prof. Iain COLDHAM  
(UNIVERSITY OF SHEFFIELD, Sheffield, United Kingdom)
- 10:10 PL05 - Springer Junior Heterocyclic Chemistry Award Lecture (chaired by Bert Maes, editor of Springer) Exploiting the Reactivity of Strained Rings and Hypervalent Bonds for the Synthesis of Heterocycles**  
Prof. Jerome WASER  
(LABORATORY OF CATALYSIS AND ORGANIC SYNTHESIS, EPFL, Lausanne, Switzerland)
- 10:55 IL14 - ?-Perluoroalkylated Cyclic Imines as a Valuable Building Blocks**  
Prof. Dr Valentine G. NENAJDENKO  
(MOSCOW STATE UNIVERSITY, Moscow, Russia)
- 11:30 Coffee break and Exhibition**

#### Session Chair:

Prof. Floris RUTJES  
(RADBOUD UNIVERSITY NIJMEGEN, Nijmegen, The Netherlands)

- 11:55 IL15 - New Strategies for the Synthesis of Heterocyclic through Multicomponent Reactions and Metal-Catalyzed Isomerization**  
Prof. Thomas NIELSEN  
(NOVO NORDISK, Copenhagen N, Denmark)
- 12:30 PL06 - Making Molecular Prosthetics with a Small Molecule Synthesizer**  
Prof. Martin D. BURKE  
(UNIVERSITY OF ILLINOIS, Urbana, United States)
- 13:15 Lunch**

### Session Heterocyclic Synthetic Methodology

#### Session Chair:

Prof. Martin D. BURKE  
(UNIVERSITY OF ILLINOIS, Urbana, United States)

- 14:15 KL07 - Gamma-Alkylidenebutenolides and Gamma-Hydroxybutyrolactams: Preparation and Reactivity**  
Dr Laurent COMMEIRAS  
(AIX-MARSEILLE UNIVERSITY, Marseille cedex 20, France)
- 14:40 OC31 - Picolinic Acid Ligand-Promoted Palladium-Catalyzed C-H Acetoxylation of Simple Arenes**  
Dr M. Angeles FERNANDEZ-IBANEZ  
(UNIVERSITY OF AMSTERDAM, Amsterdam, The Netherlands)
- 15:00 OC32 - Stereoselective Transformations of 2h-Chromene Derivatives**  
Prof. Tibor KURTÁN  
(UNIVERSITY OF DEBRECEN, Debrecen, Hungary)
- 15:20 Coffee break and Exhibition**

## Programme

- 15:50 **OC33 - Scope and Limitations of the Organocatalyzed Domino Vinylogous Aldol Oxa Michael Reaction**  
Ms Larissa GEIGER  
(KARLSRUHE INSTITUTE OF TECHNOLOGY, Karlsruhe, Germany)
- 16:10 **OC34 - Dearomative Arylation of Electrophilic Indoles for the Total Synthesis of Natural Products**  
Prof. Guillaume VINCENT  
(UNIVERSITÉ PARIS SUD INSTITUT DE CHIMIE MOLÉCULAIRE ET DES MATÉRIAUX D'ORSAY (ICMMO), Orsay, France)
- 16:30 **OC35 - Integrative Methodology for Iterative Theory-Experiment Driven Multicomponent Reaction Development**  
Mr Art KRUITHOF  
(VU AMSTERDAM, Amsterdam, The Netherlands)

### Session Enabling Technologies

#### Session Chair:

Dr Maikel WIJTMANS  
(VU UNIVERSITY AMSTERDAM, Amsterdam, The Netherlands)

#### **KL08 - Functionalization of Heterocycles via C–H Activation and Photoredox Catalysis in Batch and Continuous Flow**

Dr Timothy NOEL  
(EINDHOVEN UNIVERSITY OF TECHNOLOGY, Eindhoven, The Netherlands)

#### **OC36 - N-Heterocyclic Carbene Ligands in Iridium Complexes for the Detection of Pyridine Analogues in NMR by Non-Hydrogenative Para-Hydrogen Induced Hyperpolarization**

Dr Martin FEITERS  
(RADBOUD UNIVERSITY, Nijmegen, The Netherlands)

#### **OC37 - Expansion of the Concept of Nonlinear Effects in Catalytic Reactions Beyond Asymmetric Catalysis**

Prof. Michael SCHNÜRCH  
(TU WIEN, Wien, Austria)

#### **OC38 - Direct Heteroatom Incorporating Ester to Arene Transformation: Modular Synthesis of Fluorescent Dyes**

Mr Christian FISCHER  
(UNIVERSITY OF BASEL, Basel, Switzerland)

#### **OC39 - Methodology Development Towards the Lasso Peptide Series**

Prof. Jan VAN MAARSEVEEN  
(UNIVERSITEIT VAN AMSTERDAM, Amsterdam, The Netherlands)

#### **OC40 - A Lab-Scale Reactor for the Continuous Generation of Anhydrous Diazomethane**

Dr Doris DALLINGER  
(UNIVERSITY OF GRAZ, Graz, Austria)

### Session Medicinal Chemistry and Chemical Biology

#### Session Chair:

Prof. Rob LEURS  
(VU UNIVERSITY AMSTERDAM, Amsterdam, The Netherlands)

#### **KL09 - Going Beyond $\beta$ -Amino Acid Derivatives as Inhibitors of Cathepsin A**

Dr Sven RUF  
(SANOFI-AVENTIS DEUTSCHLAND GMBH, Frankfurt am Main, Germany)

#### **OC41 - Designing Residence Time into Heterocyclic Ligands for Drug Targets**

Dr Julien LOUVEL  
(LACDR, Leiden, The Netherlands)

#### **OC42 - Photopharmacology**

Mr Mickel HANSEN  
(RIJKSUNIVERSITEIT GRONINGEN, Groningen, The Netherlands)

#### **OC43 - Novel Synthesis of Tetrahydroisoquinoline Derivatives Using Petasis Reaction**

## Programme

Dr Agnieszka GRAJEWSKA  
(ADAM MICKIEWICZ UNIVERSITY, Poznan, Poland)

**OC44 - Palladium Catalyzed C-Arylation of Amino Acid Derived Hydantoins**

Mr Josep MAS ROSELLÓ  
(UNIVERSITY OF BRISTOL, Bristol, United Kingdom)

**OC45 - Enantioselective Synthesis of 4-Arylpyridine Atropisomers by Central-to-Axial Chirality Conversion**

Ms Ophélie QUINONERO  
(ISM2 - INSTITUT DES SCIENCES MOLÉCULAIRE DE MARSEILLE, Marseille, France)

**Session Chair:**

Prof. Romano ORRU  
(VU UNIVERSITY AMSTERDAM, Amsterdam, The Netherlands)

**16:50 PL07 - Organocatalysis for Diversity-Oriented Synthesis**

Prof. Karl Anker JOERGENSEN  
(AARHUS UNIVERSITY, Aarhus, Denmark)

**17:35 Poster prizes**

Prof. Romano ORRU  
(VU UNIVERSITY AMSTERDAM, Amsterdam, The Netherlands)

**17:50 End of the Symposium**