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Chemistry

Platform of the Swiss Academy of Sciences

2014 SCNAT/SCS Chemistry Travel Award

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At the beginning of the year, the «2014 SCNAT/SCS Chemistry Travel Award» was announced jointly by the «Platform Chemistry» of the Swiss Academy of Sciences (SCNAT), the Swiss Chemical Society (SCS), and the Swiss Society for Food and Environmental Chemistry (SSFEC). This scheme was designed to support PhD students from Swiss institutions to participate and present their work (poster or oral presentation) at international conferences. Following our call for nominations, a total of 116 applications were received using a newly introduced online application form. The applications were reviewed by a selection committee composed of representatives of all three organisations: Prof. Dr. Gérard Hopfgartner (SCS, University of Geneva), Prof. Dr. Philippe Renaud (SCS, University of Bern), Prof. Dr. A. Dieter Schlüter (SCNAT, ETHZ), Prof. Dr. Umberto Piantini (SGLUC & SCNAT, University of Applied Sciences Western Switzerland). The high level and high quality of the applications made the selection process challenging. Therefore, a two-round system was designed where the successful applicants were selected based on scientific merit. In 2014, 45 «SCNAT/SCS Chemistry Travel Awards» were distributed:

**Melanie Erzinger**

Shana J. Sturla, ETH Zurich
 'Impact of Sulforaphane on Cytotoxicity of Bioreductive Anticancer Drug PR-104A in Human Colon Cells'
 248th ACS National Meeting & Exposition
 "Chemistry & Global Stewardship",
 San Francisco, USA

**Fabio Evangelisti**

Greta R. Patzke, University of Zurich
 'From Molecules to Solids: Robust and versatile water oxidation with cobalt-based catalysts'
 248th ACS National Meeting & Exposition
 'Chemistry & Global Stewardship',
 San Francisco, USA

**Natalja Früh**

Antonio Togni, ETH Zurich
 'Electrophilic trifluoromethylation and the formation of quaternary stereogenic centers'
 248th ACS National Meeting & Exposition
 'Chemistry & Global Stewardship',
 San Francisco, USA

**Susan Blaser**

Samuel Leutwyler, University of Bern
 'Lighting up 2-Aminopurine by Site-Selective Hydration'
 IBB14 - Conference on Isolated Biomolecules and Biomolecular Interactions 2014,
 Porquerolles, France

**Andrea Gasperini**

Kevin Sivula, EPF Lausanne
 'Controlling the microstructure and charge carrier transport of solution-processed semiconducting polymers'
 2014 MRS Fall Meeting and Exhibit, Boston,
 USA

**Samanta Capolicchio**

Henning Jessen, University of Zurich
 'Synthesis of Diphosphoinositol Polyphosphates'
 EMBO Conference Series - Chemical Biology
 2014, Heidelberg, Germany

**Yuhui Gong**

Jean-Christophe Leroux, ETH Zurich
 'Reversible and tunable PEGylation at Arginine residues'
 41st Annual Meeting & Exposition of the
 Controlled Release Society, Chicago, USA

**Fan Chen**

Renato Zenobi, ETH Zurich
 'Shedding Light on Integral Membrane Proteins with High-Mass MALDI-MS'
 IBB14 - Conference on Isolated Biomolecules and Biomolecular Interactions 2014,
 Porquerolles, France

**Lucie Grebikova**

Michal Borkovec, University of Geneva
 'Nano-Handling of Individual Dendronized Polymers by Single-Molecule Force Spectroscopy'
 IPSAC 2014 - 27th International Symposium on Polymer Analysis and Characterization,
 Les Diablerets, Switzerland

**Yi-Lin Huang**

Jeffrey W. Bode, ETH Zurich
 'Beta-peptide libraries, on-demand'
 Gordon Research Conferences - Peptide
 Science in the Era of Synthetic Biology,
 Ventura, USA

**Martin Kuss-Petermann**

Oliver S. Wenger, University of Basel
 'Proton-coupled electron transfer in dyads
 mimicking photosystem II'
 25th IUPAC Symposium on Photochemistry,
 Bordeaux, France

**Gregor Kiefer**

Kay Severin, EPF Lausanne
 'New Synthetic Applications of Nitrous
 Oxide'
 5th EuCheMS Chemistry Congress, Istanbul,
 Turkey

**Stefano Lazzari**

Massimo Morbidelli, ETH Zurich
 'pH-dependent Degradation Kinetics of
 Polylactic Acid'
 2014 AIChE Annual Meeting, Atlanta, USA

**Maximilian Klein**

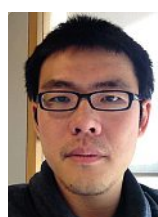
Catherine E. Housecroft, University of Basel
 'Coordination polymer or discrete complex?
 - The change of assembly in $Zn(OAc)_2$
 complexes combined with a series of
 substituted 4,2':6',4"-terpyridine ligands'
 41st International Conference on Coordina-
 tion Chemistry, Singapore, Singapore

**Romain Letrun**

Eric Vauthey, University of Geneva
 'Excitation Wavelength Dependence of the
 Dynamics of Bimolecular Photoinduced
 Electron Transfer Reactions'
 Gordon Research Conferences - Electron
 Donor-Acceptor Interactions, Newport, USA

**Laura Kluepfel**

Michael Sander, ETH Zurich
 'Redox properties and reactivities of
 geochemical phases as assessed by mediated
 electrochemical analysis'
 Gordon Research Conference in
 Environmental Sciences: Water, Holderness,
 USA

**Yifan Li**

Jérôme Waser, EPF Lausanne
 'Synthesis of Alkynylated Heterocycles *via*
 Direct C-H Functionalization or Domino
 Reactions'
 BOSS XIV - 14th Belgian Organic Synthesis
 Symposium, Louvain-la-Neuve, Belgium

**Ralph Koitz**

Jürg Hutter, University of Zurich
 'Ab initio Simulation of Two-dimensional
 Networks on the Surface of Water'
 248th ACS National Meeting & Exposition
 'Chemistry & Global Stewardship',
 San Francisco, USA

**Giulia Mancini**

Fabrizio Carbone, EPF Lausanne
 'Femtosecond speckle diffraction with
 coherent electron pulses: dynamics of local
 order in polycrystalline nanostructures'
 Gordon Research Conferences - Noble Metal
 Nanoparticles, South Hadley, USA

**Nikolaus Krall**

Dario Neri, ETH Zurich
 'Small-molecule drug conjugates for the
 treatment of CAIX-expressing solid tumors'
 Proteins and Antibody Engineering Summit -
 PEGS 2014, Boston, USA

**Cristina Mari**

Gilles Gasser, University of Zurich
 'Discovering Ru(II) Complexes as potent tool
 in Photodynamic Therapy'
 37th American Society for Photobiology
 Meeting, San Diego, USA

**Niklaus Kränzlin**

Markus Niederberger, ETH Zurich
 'A catalyst-free, electroless copper deposition
 process developed for the fabrication of
 flexible conducting line patterns and porous
 metal sponges - mechanistic insights'
 2014 MRS Fall Meeting and Exhibit, Boston,
 USA

**Guillaume Mata**

Nathan W. Luedtke, University of Zurich
 'Probing DNA Folding with Fluorescent
 Nucleoside Analogs'
 FACS XV - 15th French American Chemical
 Society Symposium, Avignon, France


Felix Messerschmitt

Jennifer Rupp, ETH Zurich
 'Resistive switching in $\text{SrTi}_x\text{Fe}_{1-x}\text{O}_3$ Solid Solution Thin Films: Chronoamperometry as new Tool to Describe Defect Kinetics in Memristive Systems'
 2014 MRS Fall Meeting and Exhibit, Boston, USA


Elke Persch

François Diederich, ETH Zurich
 'Binding Mode Analysis of Small Molecule Trypanothione Reductase Inhibitors and Variability Between Parasitic Species'
 248th ACS National Meeting & Exposition "Chemistry & Global Stewardship", San Francisco, USA


Nicolas Monney

Thomas Bally, University of Fribourg
 'Evidence for a New Type of Bonding in a Radical Complex Between a Thioether Radical Cation and a Phenyl Group'
 ISRIUM 2014, Hiroshima, Japan


Vanessa Pierroz

Gilles Gasser, University of Zurich
 'Photoactivatable Ruthenium Complexes as New Anticancer Agents'
 16th International Congress on Photobiology, Cordoba, Argentina


Flavien Morel

Jeroen A. van Bokhoven, ETH Zurich
 'Novel phosphine MOFs based on MOF-5 and MIL-101 topologies: synthesis, characterization and applications in metal-supported catalysis'
 MOF 2014 - 4th International Conference on Metal-Organic Frameworks & Open Framework Compounds, Kobe, Japan


Mathieu Prévot

Kevin Sivula, EPF Lausanne
 'A robust sol-gel processed p-type CuFeO_2 photocathode for solar water reduction'
 2014 MRS Fall Meeting and Exhibit, Boston, USA


Caroline Münsterer

Detlef Günther, ETH Zurich
 'Rapid Radiocarbon Analyses by Laser Ablation'
 13th Accelerator Mass Spectrometry Conference, Aix en Provence, France


Loredana Protesescu

Maksym Kovalenko, ETH Zurich - EMPA
 'Unraveling the core-shell structure of organic and inorganic passivated Sn/SnO_x nanoparticles by Dynamic Nuclear Polarization Surface Enhanced NMR, Mössbauer and X-ray absorption spectroscopies'
 NaNaX 6 - Nanoscience with Nanocrystals, Bad Hofgastein, Austria


Amit Nagarkar

Andreas Kilbinger, University of Fribourg
 'End Functional ROMP Polymers *via* Spontaneous Degradation of a Ruthenium Fischer Type Carbene'
 248th ACS National Meeting & Exposition "Chemistry & Global Stewardship", San Francisco, USA


Livia Salvati Manni

Ehud M. Landau, University of Zurich
 'Design of Novel Lipidic Cubic Phases for Membrane Protein Crystallization'
 IUPAB 2014 - Bicontinuous Cubic Phases conference, Brisbane, Australia


Ferruccio Palazzesi

Michele Parrinello, ETH Zurich - USI
 'The allosteric communication pathways in KIX domain'
 3rd Annual CCP-BioSim Conference "Frontiers of Biomolecular Simulation", Edinburgh, UK


Italo Sanhueza

Franziska Schoenebeck & Jeffrey W. Bode, ETH Zurich
 'Challenges in understanding the ligand effect on C-H functionalization using a combined computational & experimental approach'
 WATOC 2014 - 10th Congress of the World Association of Theoretical and Computational Chemists, Santiago, Chile


Sarah Pati

Thomas B. Hofstetter, EAWAG
 'Compound-Specific Isotope Analysis of Nitroaromatic Contaminant Transformations by Nitroarene Dioxygenases'
 Gordon Research Conferences in Environmental Sciences: Water, Holderness, USA


Sebastian Schweiger

Jennifer Rupp, ETH Zurich
 'New Strained Memristive Oxide Switch Concepts: Materials and Devices'
 Gordon Research Conferences - Challenges Around Transport and Reactivity in Ceramics, South Hadley, USA



Sviatlana Siankevich
Paul J. Dyson, EPF Lausanne
'Designer Ionic Liquids for Biomass
Valorization'
International Conference on Green Chemistry
and Sustainable Engineering, Barcelona,
Spain



Andrea Unzue
Cristina Nevado, University of Zurich
'*In silico*-designed CREBBP-Bromodomain
Selective Inhibitors'
EFMC-ISMIC 2014 - XXIII International
Symposium on Medicinal Chemistry, Lisbon,
Portugal



Roger Slavik
Simon M. Ametamey, ETH Zurich
'Development of radiotracers for PET
imaging of CB2 receptor'
EMIM 2014 - European Molecular Imaging
Meeting, Antwerpen, Belgium



Gianvito Vilé
Javier Pérez-Ramírez, ETH Zurich
'Selective hydrogenation of alkynes over
CeO₂-based catalysts'
Fundamentals and Applications of Cerium
Dioxide in Catalysis, Udine, Italy



Laetitia Soullart
Nicolai Cramer, EPF Lausanne
'Highly Enantioselective Rh(I)-Catalyzed
Activation of Cyclobutanones Enantiotopic
C-C Bond'
BOSS XIV - 14th Belgian Organic Synthesis
Symposium, Louvain-la-Neuve, Belgium



Maria Victoria Vita
Jérôme Waser, EPF Lausanne
'Pd(0)-catalyzed Enantioselective Synthesis
of 1,5-Enynes'
BOSS XIV - 14th Belgian Organic Synthesis
Symposium, Louvain-la-Neuve, Belgium



Kristina Srzentić
Yury O. Tsybin, EPF Lausanne
'Chemical hydrolysis-based middle-down
proteomics'
62nd ASMS Conference on Mass
Spectrometry and Allied Topics, Baltimore,
USA



Adam West
Ruth Signorell, ETH Zurich
'Nano-solvation effects in Na-doped
molecular aggregates probed by angle-
resolved photoelectron spectroscopy'
Gordon Research Conferences - Molecular &
Ionic Clusters, Lucca, Italy

Additional information about the «Platform Chemistry» and its activities may be found at www.chemistry.scnat.ch



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