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Chemistry

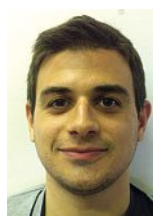
Platform of the Swiss Academy of Sciences

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’
IBBI4 - 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’
IBBI4 - 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



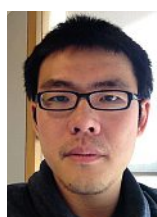
Maximilian Klein
Catherine E. Housecroft, University of Basel
'Coordination polymer or discrete complex?
- The change of assembly in $Zn(OAc)_2$
complexes combined with a series of
substituted 4,2':6',4"-terpyridine ligands'
41st International Conference on Coordina-
tion Chemistry, Singapore, Singapore



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 SrTi_xFe_{1-x}O₃ 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 CuFeO₂ 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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