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Chemistry

Platform of the Swiss Academy of Sciences

2012 SCNAT/SCS Chemistry Travel Award

Barbara Winter-Werner*

*Correspondence: Dr. B. Winter-Werner, Swiss Academy of Sciences (SCNAT), Platform Chemistry, Schwarztorstrasse 9, CH-3007 Bern
E-mail: barbara.winter@scnat.ch

At the beginning of the year the «Platform Chemistry» of the Swiss Academy of Sciences (SCNAT) and the Swiss Chemical Society (SCS) jointly announced for the third time the «SCNAT/SCS Chemistry Travel Award», which supports the active participation of PhD students at international conferences. Almost 120 applications were received and the award committee (Prof. Dr. Katharina Fromm, University of Fribourg; Prof. Dr. Karl Gademann, University of Basel; Prof. Dr. Gérald Hopfgartner, University of Geneva; Prof. Dr. Philippe Renaud, University of Bern) was very impressed by the high scientific level of applications. The successful applicants were selected mainly based on scientific merit and in a second round based on additional criteria such as advancement of studies, past allocation of grants and distribution of research areas. The winners of the «2012 SCNAT/SCS Chemistry Travel Award» are:

**Christof Aellig**

Ive Hermans, ETH Zurich
‘Aerobic alcohol oxidations mediated by nitric acid’
ACS Spring 2012 National Meeting & Expo, San Diego USA

**David Alonso**

Stefan Matile, University of Geneva
‘New Fluorescent Membrane Probes: From Naphthalenediimides to Oligothiophenes’
4th EuCheMS Chemistry Congress, Prague CZ

**Carolin Blum**

Renato Zenobi, ETH Zurich
‘Understanding Tip-enhanced Raman Spectra of Biological Molecules: A Combined Raman, SERS and TERS Study’
ICORS 2012, Bangalore IN

**Françoise Borcard**

Sandrine Gerber, EPF Lausanne
‘Functionalization and adhesion of human cells for the development of bone implant’
ISACS7, Edinburgh UK

**Aurélien Bornet**

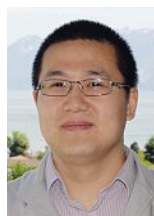
Geoffrey Bodenhausen, EPF Lausanne
‘Ultra High-Resolution NMR in Inhomogeneous Magnetic Fields: Two-Dimensional Long-Lived Coherence Correlation Spectroscopy’ and ‘Boosting Sensitivity of Ligand-Protein Screening by NMR of Long-Lived States’
EUROMAR 2012, Dublin IE

**Marta Bruska**

Markus Reiher, ETH Zurich
‘Dioxygen induced degradation of [4Fe-4S] cubane clusters: a quantum chemical perspective’
Gordon Research Conference on Iron Sulfur Enzymes, South Hadley USA

**Anna Butterfield**

Jay S. Siegel, University of Zurich
‘Kilogram Production of Corannulene: Optimization and Potential Applications’
4th EuCheMS Chemistry Congress, Prague CZ

**Shiyu Chen**

Christian Heinis, EPF Lausanne
‘Structurally diverse cyclisation linkers impose different backbone conformations in bicyclic peptides’
32EPS 2012, Athens GR

**Catherine M. Clavel**

Paul J. Dyson, EPF Lausanne
‘Thermoresponsive Organometallic Arene Ruthenium Derivatives for Tumour Targeting’
ISBOMC’12, Toronto CA

**Emmanuel Croisier**

Holger Frauenrath, EPF Lausanne
‘Oligopeptide-Modified Poly(isobutylene)s as a Toolbox to Tailor the Processing and Mechanical Properties of Elastomers’
2012 MRS Fall Meeting, Boston USA

**Klaus Eyer**

Petra S. Dittrich, ETH Zurich
‘A microfluidic platform for single cell ELISA’
Gordon Research Seminar and Conference on Bioanalytical Sensors, Salve Regina USA

**Jacinthe Gagnon**

Katharina M. Fromm, University of Fribourg
 'Nanoencapsulation of Silver-Based Antimicrobial Drugs'
 3rd International Conference on Nanotechnology: Fundamentals and Applications, Montréal CA

**José Gomes**

Karl Gademann, University of Basel
 'A Unified Approach Towards the Total Synthesis of Majucin-Type *seco*-Prezizaanes'
 BOSS XIII, Leuven BE

**Jérôme Gonthier**

Clemence Corminboeuf, EPF Lausanne
 'Intramolecular Symmetry-Adapted Perturbation Theory'
 14th ICQC International Congress of Quantum Chemistry, Boulder USA

**Conni Hanke**

Petra S. Dittrich, ETH Zurich
 'Fabrication of Microelectrodes on Polyester Membranes for Dielectrophoretic Cell Capture'
 Nanotech 2012, Santa Clara USA

**Wenjing Hong**

Thomas Wandlowski, University of Berne
 'Correlation between molecular structure and single-molecule conductance'
 Future Directions in Molecular Electronics, Lorentz Center, Leiden NL

**Tamara Huber**

Eva Freisinger, University of Zurich
 'Mechanism of sulfide ion incorporation into the metal cluster of metallothioneins'
 ISMEC2012, Lisbon PT

**Rajesh Kunjanpillai**

Heinz Berke, University of Zurich
 'Rhenium-catalyzed homogeneous hydrogenations'
 ICOMC 2012, Lisbon PT

**Jory Lietard**

Christian Leumann, University of Bern
 'Towards a prodrug of tricyclo-DNA: synthesis and cellular uptake properties of C(6')-functionalized tc-DNA'
 20th International Roundtable on Nucleosides Nucleotides and Nucleic Acids, Montréal CA

**Vesna Markovic**

Eric Vauthey, University of Geneva
 'Photoinduced charge transfer processes in polycyclic aromatic hydrocarbon dyads'
 Gordon Research Conference on Electron Donor-Acceptor Interactions, Newport USA

**Lukas Meier**

Renato Zenobi, ETH Zurich
 'Examining breath profiles using secondary electrospray ionization mass spectrometry assisted by an ion funnel'
 60th ASMS Conference on Mass Spectrometry and Allied Topics, Vancouver CA

**Daniel Müller**

Alexandre Alexakis, University of Geneva
 'Asymmetric conjugate addition of alkenyl alanes to 2,3-dehydro-4-piperidones'
 Balticum Organicum Syntheticum, Tallinn EE

**Pradeep Nareddy**

Clément Mazet, University of Geneva
 'Palladium-Catalyzed Asymmetric α -arylation of Aldehydes'
 ISACS7, Edinburgh UK

**Martin Nussbaumer**

Nico Bruns, University of Basel
 'Protein-Polymer Core-Shell Conjugates for Controlled siRNA Delivery'
 39th Annual Meeting & Exposition of the Controlled Release Society, Québec CA

**Lothar Opilik**

Renato Zenobi, ETH Zurich
 'Imaging of 2D polymer films below the optical diffraction limit using tip-enhanced Raman spectroscopy'
 ICORS 2012, Bangalore IN

**Noémi Ott**

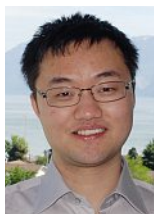
Andrea Ulrich / Christian Ludwig, EMPA / EPF Lausanne
 'Local, Time-Resolved and Element-Specific Investigations of Corrosion Processes'
 63rd Annual Meeting of the International Society of Electrochemistry, Prague CZ

**Kathryn E. Pietsch**

Shana J. Sturla, ETH Zurich
 'The role of DNA adduct formation in differential cytotoxicity between acylfulvene and illudin S'
 ACS Fall 2012 National Meeting & Expo, Philadelphia USA



Mariya Porus
Michal Borkovec, University of Geneva
'Stimuli-responsiveness of polyamidoamine (PAMAM) dendrimers adsorbed on silica substrates'
2012 IUPAC World Polymer Congress, Blacksburg USA



Peng Ren
Xile Hu, EPF Lausanne
'Nickel and copper-catalyzed cross coupling of secondary alkyl halides'
ISHC-18, Toulouse FR



Kasper Renggli
Cornelia G. Palivan, University of Basel
'Controlled radical polymerizations in protein nanoreactors: protein-conjugates as green alternatives to conventional catalysts'
6th ACS Symposium on Green Polymer Chemistry: Polymer Biocatalysis and Biobased Materials, Philadelphia USA



Tatjana Sajic
Gérard Hopfgartner, University of Geneva
'Alternative liquid chromatography tandem mass spectrometry approaches for proteome analysis of complete adipose tissue'
60th ASMS Conference on Mass Spectrometry and Allied Topics, Vancouver CA



York Schramm
Andreas Pfalz, University of Basel
'Mechanistic Investigations of Iridium-Catalysed Imine Hydrogenation'
ISHC-18, Toulouse FR



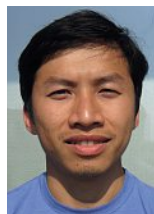
Carolin Seuring
Roland Riek, ETH Zurich
'The mechanism of toxicity of the HET-S – HET-s prion system'
Keystone Symposia 2012 Meeting on Structural Biology of Cellular Processes: From Atoms to Cells, Keystone USA



Anne-Florence Stoessel
Hermann Wegner, University of Basel
'Towards the Synthesis of Substituted Cycloparaphenylenes'
ISACS7, Edinburgh UK



Cecilia Tortoreto
Jérôme Lacour, University of Geneva
'Enol-Acetal Synthesis *via* Carbenoid C–H Insertions Into Tetrahydrofurans Catalyzed By CpRu Complexes'
IASOC 2012, Ischia (Naples) IT



Duc N. Tran
Nicolai Cramer, EPF Lausanne
'Formal [3+2] Cycloaddition Initiated by Rhodium-Catalyzed C–H Activation'
7th Asian European Symposium on Metal-Mediated Efficient Organic Synthesis, Tarragona ES



Alexander Tskhovrebov
Kay Severin, EPF Lausanne
'Activation of nitrous oxide by N-heterocyclic carbenes'
ICOMC 2012, Lisbon PT



Narasimha Rao Uda
Marc Creus, University of Basel
'Metal-dependent Enzyme promiscuity in Biocatalysis'
Satellite Symposium ahead of the Biocat2012: Protein Engineering for Biocatalysis, Greifswald DE



Aleksey Vorobyev
Yury O. Tsybin, EPF Lausanne
'A mechanistic study of activated-ion electron capture dissociation mass spectrometry of peptides'
60th ASMS Conference on Mass Spectrometry and Allied Topics, Vancouver CA



Simon Weidmann
Renato Zenobi, ETH Zurich
'Development, Evaluation and Comparison of Calibration Standards for MALDI-MS in the >100 kDa m/z Range'
19th International Mass Spectrometry Conference, Kyoto JP

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