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Chemistry

Platform of the Swiss Academy of Sciences

**2018 Chemistry Travel Award by SCNAT and SCS**

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The «Platform Chemistry» of the Swiss Academy of Sciences (SCNAT) together with the Swiss Chemical Society (SCS) announced the «2018 Chemistry Travel Award». This program supports excellent PhD students in chemical sciences by sponsoring them to participate in an international conference. Students from all fields of chemistry and from any Swiss institution were invited to participate and a record number of applications was received. The selection committee is set up with four chemists working in diverse fields of chemistry: Prof. Dr. Christian Bochet (SCS, University of Fribourg), Dr. Thomas Gude (SCNAT, Swiss Quality Testing Services), Dr. Marc Suter (SCS, Eawag), and Prof. Dr. Oliver Wenger (SCNAT, University of Basel). They each reviewed and rated all of the applications (except those of their own students), based primarily on the submitted conference abstract and the scientific achievements.

On behalf of SCNAT and SCS we hereby congratulate this year's winners and wish them a very successful conference participation.

We proudly present the winners of the «2018 Chemistry Travel Award»:

**Linda Bannwart**

Group: Prof. Dr. Marcel Mayor  
Conference: 2<sup>nd</sup> From Carbon-Rich Molecules to Carbon-Based Materials Conference  
Title: Phenyl-Ethynyl-Macrocycles: Model Compounds for 'Geländer' Oligomers

**Lucinda Batchelor**

Group: Prof. Dr. Paul Dyson  
Conference: 9<sup>th</sup> Asian Biological Inorganic Chemistry (AsBIC)  
Title: Bridging the Gap: crosslinking allosteric sites on the nucleosome

**Benjamin Bauer**

Group: Prof. Dr. Majed Chergui  
Conference: CMDS 2018  
Title: Exciton dynamics in DNA oligomers studied by broadband deep-UV transient absorption spectroscopy

**Joseph Beckwith**

Group: Prof. Dr. Eric Vauthey  
Conference: Electron Donor-Acceptor Interactions – Gordon Research Conference  
Title: Pump-Pump-Probe spectroscopy to study ion pair dynamics

**Olivier Biner**

Group: Prof. Dr. Christoph von Ballmoos  
Conference: 20th European Bioenergetics Conference  
Title: Functional characterisation of *E. coli* cytochrome b561 proteins: A membrane-associated superoxide scavenger?

**Anna-Bea Bornhof**

Group: Prof. Dr. Stefan Matile  
Conference: 7<sup>th</sup> EuCheMS Chemistry Congress – Molecular frontiers & global challenges  
Title: Synergistic Anion-( $\pi$ )<sub>n</sub>- $\pi$  Catalysis on Covalent NDI Foldamers

**Frauke Breitgoff**

Group: Prof. Dr. Gunnar Jeschke  
Conference: Rocky Mountain Conference on Magnetic Resonance  
Title: Broadband excitation for distance measurements of spin  $S = 1/2$  systems

**Paola Caramenti**

Group: Prof. Dr. Jérôme Waser  
Conference: BOSS XVI 16<sup>th</sup> Belgian Organic Synthesis Symposium  
Title: Electrophilic Indole and Pyrrole Reagents for C-H Functionalization

**Johannes Diesel**

Group: Prof. Dr. Nicolai Cramer  
Conference: ISCHA4  
Title: Nickel-Catalyzed Enantioselective Pyridone C-H Functionalizations Enabled by a Bulky N-Heterocyclic Carbene Ligand



**Alberto Fabrizio**  
 Group: Prof. Dr. Clemence Corminboeuf  
 Conference: Congress on Electronic Structure: Principles and Applications  
 Title: How Do London Dispersion Interactions Impact the Photochemical Processes of Molecular Switches?



**Elias Halabi Rosillo**  
 Group: Prof. Dr. Pablo Rivera-Fuentes  
 Conference: Gordon Research Seminar and Conference, Single Molecule Approaches to Biology  
 Title: A Photoactivatable Probe for Super-Resolution Imaging of Enzymatic Activity in Live Cells



**Vincent Fäseke**  
 Group: Prof. Dr. Christof Sparr  
 Conference: 3<sup>rd</sup> European Conference on Natural Products  
 Title: Stereoselective Arene-Forming Aldol Condensation: Synthesis of Axially Chiral Aromatic Amides



**Nina Hentzen**  
 Group: Prof. Dr. Helma Wennemers  
 Conference: Frontiers in Chemistry, Armenia  
 Title: Cross-linked collagen triple helices by oxime ligation



**Lukas Frey**  
 Group: Prof. Dr. Roland Riek  
 Conference: 32<sup>nd</sup> Annual Symposium of The Protein Society  
 Title: Lipid- and cholesterol-mediated timescale-specific modulation of membrane protein dynamics



**Jakub Jagielski**  
 Group: Prof. Dr. Chih-Jen Shih  
 Conference: 9<sup>th</sup> International Conference on Advanced Materials and Nanotechnology  
 Title: Aggregation-induced emission in lamellar solids of colloidal perovskite quantum wells



**Alice Judith Gillen**  
 Group: Prof. Dr. Ardemis Boghossian  
 Conference: 233<sup>rd</sup> ECS Meeting  
 Title: The Use of Xeno Nucleic Acids to Control Ionically Induced Conformational Changes of Oligonucleotide Suspended Single-Walled Carbon Nanotubes



**Katharina Keller**  
 Group: Prof. Dr. Gunnar Jeschke  
 Conference: Gordon Research Conference – In Vivo Magnetic Resonance  
 Title: Spectroscopic Parameters and Electronic Relaxation of Paramagnetic Gadolinium Complexes



**Andrzej Gładysiak**  
 Group: Prof. Dr. Kyriakos Stylianou  
 Conference: 31<sup>st</sup> European Crystallographic Meeting  
 Title: Bi-porous Metal–organic Framework with Tuneable Adsorption Selectivity for Efficient CO<sub>2</sub>/CH<sub>4</sub> Separation



**Dominik Kinschel**  
 Group: Prof. Dr. Majed Chergui  
 Conference: Science@FELs  
 Title: Ligand dissociation and recombination of Nitrosyl-myoglobin in physiological media studied by ultrafast X-ray spectroscopy and X-ray Diffuse Scattering



**Bahman Golesorkhi**  
 Group: Prof. Dr. Claude Piguet  
 Conference: The 43<sup>rd</sup> International Conference on Coordination Chemistry  
 Title: Dual Emitting Molecular Erbium Complexes for Molecular-Based Upconversion



**Franziska Krieg**  
 Group: Prof. Dr. Maksym Kovalenko  
 Conference: Gordon Research Conference on Colloidal Semiconductor Nanocrystals  
 Title: Colloidal CsPbX<sub>3</sub> (X=Cl, Br, I) Nanocrystals 2.0: zwitterionic Capping Ligands for Improved Durability and Stability



**Carla Gotzmann**  
 Group: Prof. Dr. Roger Alberto  
 Conference: Gordon Research Conference “Metals in Medicine: The Indispensable Role of Metals in Medical Diagnostics, Therapeutics and Beyond”  
 Title: Derivatisation of [Re(η<sup>6</sup>-C<sub>6</sub>H<sub>5</sub>COOH)<sub>2</sub>]<sup>+</sup> Complexes for DNA-targeting



**Erwin Lam**  
 Group: Prof. Dr. Christophe Copéret  
 Conference: Gordon Research Conference ‘Catalysis - Accelerating Catalytic Solutions to Global Grand Challenges’  
 Title: Selective Hydrogenation of CO<sub>2</sub> to Methanol by the Controlled Incorporation of Zr-Interfacial Sites in Supported Cu Nanoparticles: Concept, Methods and Molecular Level Understanding



**Franck Le Vaillant**

Group: Prof. Dr. Jérôme Waser  
 Conference: 6<sup>th</sup> International Conference on Hypervalent Iodine Chemistry  
 Title: Harnessing photoredox-catalyzed decarboxylation as a key step in the functionalization of carboxylic acids and cyclic alkylketones using hypervalent iodine reagents



**Laurent Liardet**

Group: Prof. Dr. Xile Hu  
 Conference: 69<sup>th</sup> Annual ISE Meeting  
 Title: Amorphous Cobalt Vanadium Oxide as a Highly Active Electrocatalyst for Oxygen Evolution



**Kun-Han Lin**

Group: Prof. Dr. Clémence Corminboeuf  
 Conference: 2018 MRS Fall Meeting & Exhibit  
 Title: Understanding the Crucial Design of Amorphous Hole Transport Materials in Perovskite Solar Cell



**Runze Mao**

Group: Prof. Dr. Xile Hu  
 Conference: XXII International Conference on Organic Synthesis (22-ICOS)  
 Title: Decarboxylative C(sp<sup>3</sup>)-N Cross Coupling via Synergetic Photoredox and Copper Catalysis



**Romain Melot**

Group: Prof. Dr. Olivier Baudoin  
 Conference: XXII International Conference on Organic Synthesis (22-ICOS)  
 Title: Toward the Total Synthesis of Puraquinonic Acid via Pd(0)-Catalyzed Enantioselective C(sp<sup>3</sup>)-H Arylation as the Key Step



**Seyed Mohamad Moosavi**

Group: Prof. Dr. Berend Smit  
 Conference: MOF2018  
 Title: Improving the mechanical stability of metal-organic frameworks using secondary networks



**Ronan Rocaboy**

Group: Prof. Dr. Olivier Baudoin  
 Conference: BOSS XVI 16<sup>th</sup> Belgian Organic Synthesis Symposium  
 Title: Synthesis of nitrogen-containing 4 membered rings by Palladium(0)-Catalyzed C(sp<sup>3</sup>)-H activation



**Florent Sahli**

Group: Prof. Dr. Christophe Ballif  
 Conference: World Conference on Photovoltaic Energy Conversion (WCPEC-7)  
 Title: Hybrid sequential deposition process for fully textured silicon/perovskite tandem solar cells



**Tobias Schnitzer**

Group: Prof. Dr. Helma Wennemers  
 Conference: Stereochemistry – Gordon Research Conference  
 Title: Influence of the *trans/cis* Conformer Ratio on the Stereoselectivity of Peptidic Catalysts



**David Scholz**

Group: Prof. Dr. Frederic Vogel  
 Conference: European Biomass Conference and Exhibition  
 Title: Deactivation pathways of sulfonated carbon catalysts during biomass conversion reactions under hydrothermal conditions



**Annelies Sels**

Group: Prof. Dr. Thomas Bürgi  
 Conference: ISSPIC-19  
 Title: Au<sub>25</sub>(SR)<sub>18</sub> cluster assembly in multiple dimensions



**Luca Semeria**

Group: Prof. Dr. Frédéric Merkt  
 Conference: International Symposium on Molecular Spectroscopy  
 Title: Fine Structure of metastable <sup>4</sup>He<sub>2</sub> using Zeeman-decelerated Molecular-Beam Resonance Spectroscopy



**Valentin Soulard**

Group: Prof. Dr. Philippe Renaud  
 Conference: EuCHEMS conference on Organic Free Radicals (ECOFR 2018)  
 Title: Thiol Catalyzed Radical Deuteration with D<sub>2</sub>O: Mechanistic Insights



**Daniel Sun**

Group: Prof. Dr. Wendy Queen  
 Conference: MOF2018  
 Title: Design of Porous Composites for Selective Trace Chemical Separations in Aqueous Media

**Vít Svoboda**

Group: Prof. Dr. Hans Jakob Wörner  
Conference: Water and Aqueous Solutions:  
Gordon Research Conference  
Title: Time-resolved dynamics of the solvated  
electron in water clusters

**Shutao Wang**

Group: Prof. Dr. Maksym Kovalenko  
Conference: E-MRS 2018 Fall Meeting  
Title: Efficient Aluminum Chloride–Graphite  
Battery and its Novel Current Collector

**Jacek Szczerbiński**

Group: Prof. Dr. Renato Zenobi  
Conference: Gordon Research Conference on  
Noble Metal Nanoparticles  
Title: Plasmon-driven photocatalysis leads to  
the same products as x-ray-induced surface  
photochemistry

**Helene Wolleb**

Group: Prof. Dr. Erick M. Carreira  
Conference: BOSS XVI 16th Belgian Organic  
Synthesis Symposium  
Title: Total Synthesis of (+)-Dendrowardol C

**Alina Tirla**

Group: Prof. Dr. Pablo Rivera-Fuentes  
Conference: Gordon Research Seminar and  
Conference, Bioorganic Chemistry  
Title: Photoactivatable phosphine probes for  
the induction of intracellular reductive stress

**Junzhou Wu**

Group: Prof. Dr. Shana Sturla  
Conference: XXIII International Roundtable  
on Nucleosides, Nucleotides and Nucleic  
Acids  
Title: Global Mapping of 8-oxoguanine in  
Genomic DNA by Click-code-seq

**Nathalie Vonrüti**

Group: Prof. Dr. Ulrich Aschauer  
Conference: E-MRS 2018 Spring Meeting  
Title: Effect of anion order and spontaneous  
polarisation on bandgaps in epitaxially  
strained oxynitrides

**Xiaohan Wu**

Group: Prof. Dr. Claire Villevieille  
Conference: ECS AiMES Meeting 2018  
Title: Electrochemical reactions at the  
Electrolyte–Electrode Interfaces in All-Solid-  
State Batteries elucidated by *Operando* X-ray  
Photoelectron Spectroscopy

Additional information about the «Platform Chemistry» and its activities may be found at [chemistry.scnat.ch](http://chemistry.scnat.ch)  
Do not miss the «2019 Chemistry Travel Award», which will be announced early in 2019 on [chemistry.scnat.ch/travel\\_award](http://chemistry.scnat.ch/travel_award) and in CHIMIA.

