

POSTER Session at SPP1710 Conference in Sant Feliu de Guixòls "Thiol-based Redox Switches- From microbes to men" 15th-20th September 2019

No.	Last Name	First Name	University/ Institution	Poster Abstract title:
Monday 16th Sept Postersession-I				
Tools in redox biology to monitor redox changes				
1	Mai	Marie	Universität des Saarlands, Institute of Biochemistry	Characterizing genetically-encoded NADPH and NADH/NAD ⁺ sensors in the budding yeast <i>Saccharomyces cerevisiae</i>
2	Pastor-Flores	Daniel	German Cancer Research Center, Redox Regulation Division, Heidelberg	Genetic-encoded redox sensors for mammalian cells. New tools and applications
3	Pak	Valeriy	Universitätsmedizin Göttingen, Institut of Cardiovascular Physiology	Hyper7: ultrasensitive hydrogen peroxide biosensor
4	Kostyuk	Alexander	Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, Moscow, Russia	A novel genetically encoded fluorescent biosensor for visualization of (pseudo)hypohalous acids and their derivatives
5	Heimisch	Kim	Justus Liebig University Giessen, Molecular Biology and Biochemistry	Comparison of hGrx1-roGFP2 and sroGFP2 redox probes in the malaria parasite <i>Plasmodium falciparum</i>
6	Brandstätter	Christina	Justus Liebig University Giessen, Molecular Biology and Biochemistry	Comparison of hGrx1-roGFP2 and sroGFP2 redox probes in the malaria parasite <i>Plasmodium falciparum</i>
7	Feiber	Jan	Ludwig-Maximilians-University Munich, Department of Pharmacy	Novel chemical probes for studying redox biology based on thiol-disulfide enzymatic activity
8	Zeisel	Lukas	Ludwig-Maximilians-University Munich, Department of Pharmacy	Novel chemical probes for studying redox biology based on thiol-disulfide enzymatic activity
9	Ahlfeld	Julia	Ludwig-Maximilians-University Munich, Department of Pharmacy	Novel chemical probes for studying redox biology based on thiol-disulfide enzymatic activity
10	Breus	Oksana	Karlsruhe Institute of Technology, Institute of Toxicology and Genetics	H2O2 dynamics in zebrafish somitogenesis
11	Dickmeis	Thomas	Karlsruhe Institute of Technology, Institute of Toxicology and Genetics	H2O2 dynamics in tissue and immune cells during the wound response of zebrafish
12	Ugalde	José Manuel	INRES – Chemical signalling, University of Bonn	ROS tracking: Redox coupling of subcellular compartments during photo-oxidative stress triggered in chloroplasts
13	Zimmermann	Jannik	Universität des Saarlandes, Institut für Biochemie	Establishment of a roGFP2-based screen to monitor glutaredoxin structure-function relationships
14	Huang	Jingjing	VB-Ugent Center for Plant Systems Biology, Ghent University, Belgium	Mining for protein S-sulfenylation in <i>Arabidopsis</i> uncovers redox-sensitive sites
15	Wei	Bo	Vrije Universiteit Brussel, VIB-VUB Center for Structural Biology	MINING FOR ROS-SENSORS IN PLANTS: SITE IDENTIFICATION OF SULFENYLATED CYSTEINES IN VIVO
16	Van Breusegem	Frank	VIB-Ghent University, Plant Biochemistry	Protein sulfenylation in <i>Arabidopsis</i>
Redox regulation in microbes and infections				
17	Berkmen	Mehmet	New England Biolabs, Dep. for Protein expression and modification	Genetic selections for the discovery of new reductases and oxidases of methionine
18	Halli (Greenup)	Maria	Griffith University, Nathan Campus; Griffith Institute for Drug Discovery	The search for novel inhibitors of Burkholderia pseudomallei disulfide bond formation, utilizing the natural product diversity of Nature Bank
19	Petit	Guillaume	Griffith University, Nathan Campus; Griffith Institute for Drug Discovery	Targeting the Disulfide bond forming proteins of pathogenic bacteria <i>Burkholderia pseudomallei</i> to tackle its virulence
20	Linzer	Nico	Freie Universität Berlin	<i>Staphylococcus aureus</i> uses the bacilliredoxin (BxAB)/ bacillithiol disulfide reductase (YpdA) pathway to defend against oxidative stress under infections
21	Loi	Vu Van	Freie Universität Berlin	<i>Staphylococcus aureus</i> responds to allcin by global S-thioalenylation - role of the Bx/BSH/YpdA pathway and the disulfide reductase MerA to overcome allcin stress
22	Fritsch	Verena	Freie Universität Berlin	The MhrR repressor confers resistance to quinone-like antimicrobials in <i>Staphylococcus aureus</i>
23	Tung	Quach Ngoc	Freie Universität Berlin	The redox-sensing MarK-type repressor Hys5 controls hypochlorite resistance in <i>Mycobacterium smegmatis</i>
24	Krauth-Siegel	Luise	Biochemie-Zentrum der Universität Heidelberg (BZH)	Highlighting the unknown thiol metabolism in the single mitochondrion of African trypanosomes
25	Teixeira	Filipa	University of Lausanne, Department Biochemistry	Does Peroxiredoxin-5 play a role during metastatic Leishmania infection?
26	Hampton	Mark	Department of Pathology and Biomedical Science, University of Otago, Christchurch	Caspase oxidation switches cell death from apoptosis to necroptosis
27	Foti	Alessandro	Max Planck Institute for Infection Biology, Cellular Microbiology, Berlin	How ROS modulate neutrophil extracellular traps
28	Uffig	Agnes	Ruhr-Universität Bochum, Institute for Biochemistry and Pathobiochemistry	Immunomodulatory role of HOCl-modified human plasma proteins
29	Marhatytskaya	Marharyta	Ruhr-Universität Bochum, Institute for Biochemistry and Pathobiochemistry	Reduction of N-chlorinated amino acids: a new role for thioredoxin
Redox-signalling of ROS by antioxidant enzymes				
30	Napolitano	Silvia	Eidgenössische Technische Hochschule Zürich (ETHZ), Dept. of Biology	From the Precambrian until 21st century: insight into Thioredoxin evolution
31	Cejudo	Francisco Javier	Instituto de Biología Vegetal y Fotosíntesis, Sevilla (Spain)	The function of 2-Cys peroxiredoxins in chloroplast redox homeostasis
32	Amponsah	Prince Saforo	Technische Universität Kaiserslautern, Cellular Biochemistry	Peroxiredoxins couple changes in cell metabolism to cell division
33	Hanschmann	Eva-Maria	Heinrich-Heine-Universität Düsseldorf	Extracellular Prx4 regulates immune cells involved in the innate immunity
34	Tomas	Ana	ICS, University of Porto, Portugal, Molecular Parasitology	Preliminary insights into how the C-termini of Leishmania 2-Cys peroxiredoxins affect redox relay
35	Castro	Helena	ICS, University of Porto, Portugal, Molecular Parasitology	Preliminary insights into how the C-termini of Leishmania 2-Cys peroxiredoxins affect redox relay
36	Requejo-Aguilar	Raquel	Dept. of Biochemistry and Molecular Biology, University of Córdoba, Spain	Function of Peroxiredoxin 6 in regulation of cellular metabolism in hepatocarcinoma cell line under nitrosative condition
37	Lbiad	Marouane	University Paris-Saclay/Institut de Biologie Intégrative de la Cellule	H2O2 signalling and the role of peroxiredoxins
38	Kriznik	Alexandre	IMOPA, Université de Lorraine	Dynamics of a determinant conformational transition in peroxiredoxin sulfinylation mechanism
39	Canonica	Florent	IMOPA, Université de Lorraine	Insights into Peroxiredoxin-Sulfiredoxin interaction mechanism at multiscale levels
40	Salvador	Armando	Center for Neuroscience and Cell Biology – University of Coimbra	Detailed analysis of Prdx2's Trp fluorescence recovery after H2O2 treatment reveals unexpected complexity of resolution kinetics
41	Bonilla	Mariana	Institut Pasteur Montevideo, Redox Biology of Trypanosomes Lab	Thioredoxin-monothiol glutaredoxin hybrid protein from <i>Trypanosoma brucei</i> : biochemistry, structure and biological relevance
42	Engelke	Anna Dorothee	Heinrich-Heine-Universität Düsseldorf	Exchange of the structural determinant defines different functions of monothiol and dithiol Glutaredoxins
43	Petre	Benjamin	Université de Lorraine/INRA Faculté des Sciences et Technologies	Are the ubiquitous mitochondrial glutaredoxin-like proteins of 12 kDa (MGP12s) true glutaredoxins?
44	Cao	Zhenbo	MCSB, Glasgow University	Methionine sulfoxide reductase B3 requires resolving cysteine residues for full activity and can act as a stereospecific methionine oxidase
45	Silvestri	Iliara	University of L'Aquila, Department of Life, Health & Environmental Sciences	New strategies to inhibit pyridine nucleotide-disulfide oxidoreductases
46	Frost	Tim	Med. Biochem and Mol Biology, University Medicine Greifswald	Characterization of human thioredoxin-like 1 (Txn1l) in vitro and in vivo
47	Hossain	Mohammed	Med. Biochem and Mol Biology, University Medicine Greifswald	What determines the substrate specificity of a protein?
Tuesday 17th Sept Postersession-II				
Redox regulation in eukaryotes and organelles				
48	Riemer	Jan	University of Cologne, Dep. of Chemistry, Institute of Biochemistry	Redox Processes in Complex I Biogenesis
49	Lili	Roland	Philipps-Universität Marburg	The antiviral radical SAM protein Viperin - an unexpected killer of mitochondrial transcription
50	De Henau	Sasha	Molecular Cancer research, University Medical Center Utrecht	Mitochondrial redox signaling induces cell polarization
51	Kritsiligkou	Paraskevi	Division of Redox Regulation, German Cancer Research Center (DKFZ)	Localized redox signaling relays in yeast
52	Khandpur	Gurleen Kaur	Universität des Saarlands, Institute of Biochemistry	Changes in amino acid availability severely impacts upon yeast cell growth
53	Bosch	Katharina	German Cancer Research Center, Redox Regulation Division, Heidelberg	A genome-wide screen to uncover redox signaling relays in yeast
54	Talwar	Deepthi	German Cancer Research Center, Redox Regulation Division, Heidelberg	Analysis of the components of the Prx2-STAT3 redox relay complex
55	Sorrentino	Iliara	Universität Vita-Salute San Raffaele, Protein Transport and Secretion Unit	An endoplasmic reticulum-resident peroxiporin, AQP11, regulates redox homeostasis and signaling
56	Oestreicher	Julian	Universität des Saarlandes, Institut für Biochemie	IDENTIFICATION OF A PUTATIVE ENDOPLASMIC RETICULUM-LOCALIZED-GLUTATHIONE DISULPHIDE EXPORTER
57	Chen	Sheng-Hong	Institute of Molecular Biology, Academia Sinica, Taiwan	Single-cell dynamics after metabolic challenges
58	Goscinska	Karolina	Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Poland	Mechanisms of global translation modulation upon dysfunctional mitochondria
59	Vorhauser	Julia	Technical University of Dresden, BIO-TEC	The interplay between cell cycle and redox regulation: defining redox switches within the cell cycle machinery
60	Nandy	Nardy	The Hebrew University, Rehovot, Israel, The Robert H. Smith Institute of Plant Science	Monitoring chloroplast redox state using Peroxiredoxins-based probes
61	Kock	Cilian	Botany Department, University of Osnabrück	Impact of glutathione on <i>Marchantia polymorpha</i> development
62	Gutsche	Nora	Botany Department, University of Osnabrück	Impact of glutathione on <i>Marchantia polymorpha</i> development
63	Remacle	Claire	University of Liège, Life Sciences (Belgium)	H2O2 signaling from mitochondria and chloroplast to the nucleus in the green microalgae <i>Chlamydomonas</i> : in vivo and in vitro approaches
64	Ho Thuy Dung	Nguyen	Vrije Universiteit Brussel, Department of Sciences and Bioengineering sciences	Defining the inter-organelle redox communication in <i>Chlamydomonas reinhardtii</i>
65	Hecker	Arnaud	University of Lorraine/INRA, UMR 1136 Interactions Arbres/Microorganismes	Biochemical and structural characterization of plant glutathione transferases from tau class
66	Chapman	Jordan	Center for Molecular Signaling, Wake Forest University	Identification of oxidized proteins that participate in redox regulation of root architecture of lateral root and root hair development in <i>Arabidopsis</i>
Redox signalling with thiol-based metal centres				
67	Ulrich	Kathrin	University of Michigan, Department of Molecular, Cellular, and Developmental Biology	The functional switching of redox-regulated Get3
68	Zuily	Lisa	Institut de Microbiologie de la Méditerranée, Aix-Marseille University - CNRS	The redox-regulated molecular chaperone Hsp33 and its role during copper stress
69	Montoli Albalade	Claudia	Georgia Institute of Technology, Department for Chemistry and Biochemistry	The Role of Cu/Zn Superoxide Dismutase (SOD1) in Redox Signalling and Metabolism
Redox biology in cancer, pathology and aging				
70	Poschmann	Gereon	Molecular Proteomics Laboratory, Heinrich-Heine-Universität Düsseldorf	Redox processes mediate differentiation in a neuroblastoma cell line
71	Dansen	Tobias	University Medical Center Utrecht, The Netherlands	Cysteine oxidation triggers amyloid fibril formation of the tumor suppressor p16INK4A
72	Busker	Sander	Karolinska Institutet, Medical Biochemistry and Biophysics	Disrupting oncogenic STAT3 activity by targeting TrxR1 with irreversible covalent inhibitors
73	Budhay	Katalin	Institute of Developmental Genetics, Helmholtz Zentrum München	Functional evaluation of GPX8 as a mammalian redox sensor in the ER
74	Wäschebach	Lucas	Heinrich-Heine-Universität Düsseldorf	Multiscale modeling of spectrin and its role in susceptibility of red blood cells to redox modifications
75	Atkin	Julie	Macquarie University, Sydney, Australia	The protective activity of PDI family members in Amyotrophic Lateral Sclerosis/Motor Neuron Disease (ALS/MND)
76	Lorenzen	Inken	Centre of Biochemistry and Molecular Biology, University of Kiel	KDEL receptor 1 contributes to cell surface association of protein disulfide isomerases
77	Laurindo	Francisco R.M.	Vascular Biology Laboratory, University of Sao Paulo, Brazil	Protein disulfide isomerase-A1 is a master organizer of vascular smooth muscle phenotype switch responses
78	Hutzel	Beate	Cardiology, Pneumology, Vascular Medicine, Heinrich-Heine University of Düsseldorf	Gene targeting approach to study the specific role of vascular endothelial nitric oxide synthase in cardiovascular effects of exercise and cardioprotection
79	Igor	Asanovic	Medical University of Vienna, Department of Medical Biochemistry	PYROXD1: a new oxidoreductase essential for tRNA splicing in mammals
80	Bolduc	Jesalyn	VIB-Vrije Universiteit Brussel, Structural Biology Brussels	Controlling the Tumor Killing Phenotype of Macrophages: Are Redox Relays Involved?
81	Malo Pueyo	Julia	VIB-Vrije Universiteit Brussel, Structural Biology Brussels	Controlling the Tumor Killing Phenotype of Macrophages: Are Redox Relays Involved?
82	Luo	Ting	Vrije Universiteit Brussel, VIB-VUB Center for Structural Biology	Identification of the peroxiredoxin 2 interactome in breast cancer cells using a novel approach
83	Francois	Liliana	German Cancer Research Center, Heidelberg	Moonlighting functions of BCAT1
84	Salas	Clara Ortega	Med. Biochem and Mol Biology, University Medicine Greifswald	Receptor-induced redox signalling relay – from signal to effector
85	Knaup	Lara Katharina	Med. Biochem and Mol Biology, University Medicine Greifswald	Receptor-induced redox signalling relay – from signal to effector
Redox signalling of gaseous molecules				
86	Walsh	Brenna	Department of Chemistry, Indiana University	Hydrogen Sulfide Sensing through Reactive Sulfur Species and Protein S sulfuration in the Human Pathogen <i>Enterococcus faecalis</i>
87	Selles	Benjamin	University of Lorraine, Tree Microbe Interactions	Do the biochemical properties of <i>Arabidopsis</i> sulfurtransferase 18 support a role in sulfur trafficking?
88	Moseler	Anna	University of Lorraine	Developing redox biosensors for sulfur compounds
89	Pedre Perez	Brandan	German Cancer Research Center, Redox Regulation Division, Heidelberg	Using a genetically-encoded redox probe to monitor a metabolite of hydrogen sulfide signaling
90	Kouroussis	Emilia	University of Bordeaux, IBGC-UMRS095	Dimered switch method for selective persulfide labelling
91	Zvanovic	Jasmina	University of Bordeaux, IBGC-UMRS096	Protein persulfidation protects against aging
92	Petrovic	Dunja	University of Bordeaux, IBGC-UMRS095	The importance of H2S production/protein persulfidation in <i>C. elegans</i> : from development to aging
93	Bursac	Biljana	University of Bordeaux, IBGC-UMRS096	Protein sulfenylation/persulfidation relationship in the context of H2O2 signaling
94	Fu	Ling	National Center for Protein Sciences, Beijing, China	Direct proteomic mapping of cysteine S-persulfidation
95	Paul	Bindu	The Solomon H. Snyder Dept of Neuroscience, Johns Hopkins University School of Medicine	Bilirubin benefits in health and disease
96	Sung	Hsu-Min	Vrije Universiteit Brussel, VIB-VUB Center for Structural Biology	Targeted screening of lead compounds for melanoma therapy using a H2O2 biosensor