

Congress Timetable 28-08 PDF Format

Thursday August 28th

09:00	Plenary Lecture: Prof. Roberta Croce				
10:00	<i>"Photosynthesis in the Far-Red: From Cyanobacteria to Plants"</i>				
10:00	Coffee break				
10:30	Targeting with light: emerging tools for advanced diagnosis and therapy	Multiscale time-resolved structural dynamics of light sensitive biomolecules	Plant UV Photobiology	Influencing factors of human UV-exposure	Photodynamic Priming and Targeting to Overcome Resistance
	Chair: Greta Varchi	Chair: Michel Sliwa	Chair: Gareth Jenkins	Chair: Alois Schmalwieser	Chair: Huang Chiao-Huang
	Room "A"	Room "B"	Room "C"	Room "D"	Room "E"
10:30	<i>"Photodynamic drug delivery": Designing liposomes for light-controlled release and enhanced chemotherapy efficacy"</i>	<i>"Multiscale time resolved spectroscopy to decipher the photo-activation mechanism of a switchable near-infrared fluorescent bacteriophytochromes"</i>	<i>"UVR8 photoreceptor action in plant responses to UV-B radiation"</i>	<i>"Clothing in dependence of temperature, gender and age as influencing factors for everyday life UVR exposure"</i>	<i>"Benzoporphyrin derivative-based nanoparticles for the targeted photodynamic therapy of ovarian cancer"</i>
	Invited: Mans Broekgaarden (Université Grenoble-Alpes, FR)	Invited: Michel Sliwa (Université de Lille, FR)	Invited: Gareth Jenkins (University of Glasgow, UK)	Invited: Alois W. Schmalwieser (University of Veterinary Medicine, AT)	Invited: Carla Arnau del Valle (Universitat Politècnica de València, ES)
10:55	<i>"Porphyrin-peptide targeting systems for PDT applications"</i>	<i>"How hydroxylated carotenoids enable ultrafast energy transfer in the Kin468 rhodopsin: A multiscale computational study"</i>	<i>"UV-B perception and signaling in plants"</i>	<i>"Environmental and behavioral factors influencing childhood UVR exposure"</i>	<i>"Targeted Nanoplatform to Overcome Delivery Barriers in Photimmunotherapy and Chemotherapy for Peritoneal Cancer"</i>
10:55	Invited: Enrico Caruso (Università dell'Insubria, IT)	Invited: Laura Pedraza-González (Università degli Studi di Pisa, IT)	Invited: Roman Ulm (University of Genève, CH)	Invited: Peter A. Philipsen (Department of Dermatology, Copenhagen University Hospital, DK)	Invited: Sumiao Pang (University of Maryland, US)
11:20	<i>"Cancer-Associated fibroblasts impact in Photodynamic therapy response through intercellular communication in Oral and Cutaneous Squamous Carcinoma cells"</i>	<i>"Integrated structural dynamics of a vitamin B12-dependent photoreceptor"</i>	<i>"Chloroplast movements in alpine plant species along an elevational gradient in UV radiation in the Tatra Mountains"</i>	<i>"Increasing solar UV radiation in Central Europe"</i>	<i>"Tuning nanoliposomes for pancreatic cancer chemotherapy by balancing photodynamic therapy, priming, and drug release"</i>
11:20	Invited: Angeles Juarranz (Universidad Autónoma de Madrid, ES)	Invited: Martin Weik (Institut de Biologie Structurale, FR)	Invited: Justyna Labuz (Jagiellonian University, PO)	Invited: Sebastian Lorenz (Federal Office for Radiation Protection, DE)	Invited: Mans Broekgaarden (Université Grenoble-Alpes, FR)
11:45	<i>"Systematic Targeting of GD2-positive Neuroblastoma Tumors with Photoconolytic Phage Nanobots"</i>	<i>"The relevance of amino acid-chromophore interaction in protein conformational changes and their impact on chromophore relaxation dynamics"</i>	<i>"UV-B-mediated acclimation of Norway spruce and Scots pine to high light stress depends on photoperiod"</i>	<i>"UV radiation exposure of outdoor workers with respect to the Ultraviolet Protection Factor (UPF) of working garments"</i>	<i>"Investigating photodynamic priming-radiotherapy synergy: A mechanistic insight into the efficacy of nanoscintillator-mediated PDT"</i>
11:45	Alberto Danielli (Università degli Studi di Bologna, IT)	Sara Hernandez Mejias (IMDEA Nanoscience, ES)	Lara Garcia Campa (Örebro University, SE)	Alois W. Schmalwieser (Unit of Physiology and Biophysics, University of Veterinary Medicine, AT)	Invited: Anne-Laure Bulin (Université Grenoble-Alpes, FR)
12:00	<i>"Sensing melanoma cells with hyaluronic acid decorated magnetoplasmonic nanoassemblies: from diagnosis to future therapeutic applications"</i>	<i>"Electron Return Kinetics in Successive Two-Photon DNA Repair by (6-4) Photolyase"</i>	<i>"Transcriptional responses to UV-B radiation in Arabidopsis are shaped by PAR intensity and genetic variation"</i>	Oral communication in Environmental Photobiology	<i>"Overcoming Chemoresistance in Cancer: A Mechanistic Look at PDT and ABC Transporters"</i>
12:00	Giuseppe Nocito (Consiglio Nazionale delle Ricerche, IT)	Pavel Müller (Université Paris-Saclay, FR)	Luis Orlando Morales Suarez (Örebro University, SE)		Huang Chiao Huang (University of Maryland, US)
12:15	<i>"Enhancing Tumor Uptake of Silicon Phthalocyanine and Improving PDT Efficacy in a Triple-Negative Breast Cancer Murine Model via In Situ Sonoporation"</i>	<i>"Time-resolved structural dynamics of natural and engineered photoreceptors containing non-canonical amino acids"</i>	<i>"Screening overrules damage repair: layers of protection for enhanced UV tolerance in Botrytis cinerea"</i>	<i>"Mitochondrial intercellular transfer in response to UV-induced stress"</i>	<i>"Localization of laser thermal therapy in gliomas using plasmonic gold nanorods"</i>
12:15	Martina Capozza (Università degli Studi di Torino, IT)	Gustavo Fuertes (Institute of Biotechnology of the Czech Academy of Sciences, CZ)	Arupillai Suthaparan (Norwegian University of Life Sciences, NO)	Sophie Amouret (Université Laval, CA)	Rebecca Johnson (University of Maryland, US)
12:30	<i>"Fully reversible control over DNA-intercalation with visible light"</i>	<i>"Dynamics and Fate of the CO2 Photoproduct in Fatty Acid Photodecarboxylase"</i>	<i>"Physiological response of Porphyra linearis (Rhodophyta) to different UV radiation doses"</i>	<i>"Dynamic Transcriptomic Responses of Human Dermal Stem Cells to Ultraviolet Radiation: Implications for Melanoma Origin"</i>	<i>"N-Acetylcysteine as a co-adjutant in photodynamic therapy for the treatment of cutaneous squamous cell carcinoma"</i>
12:30	David Grantz (University of Groningen, NL)	Damien Sorique (Ecole Polytechnique, FR)	Débora T. Pereira (Malaga University, ES)	Mouna Mhamdi-Ghodbani (Elbe Kliniken Stade-Buxtehude, DE)	Maria Gallego-Rentero (Universidad Autónoma de Madrid, ES)
12:45	<i>"Lighting Up the Hypoxic Tumor: Folate-targeted, oxygen-generating nanoparticles for synergistic photodynamic and chemotherapeutic treatment"</i>	<i>"Multi-step 11-cis to all-trans retinal photoisomerization in beshhodopsin, an unusual microbial rhodopsin"</i>	<i>"Detection of chloroplast movements through changes in the leaf ability to depolarize light: application of the Umov effect"</i>	<i>"Effects and uptake of luminescent micro- and nanoplastics labelled with lanthanide-doped upconverting nanoparticles in small aquatic organisms"</i>	<i>"Mission to Kill - Investigating novel photochemical strategies to eliminate cholangiocarcinoma"</i>
12:45	Luca Menilli (Università degli Studi di Padova, IT)	John T.M. Kennis (Vrije Universiteit Amsterdam, NL)	Pawel Hermanowicz (Jagiellonian University, PO)	Joanna Musiał (Adam Mickiewicz University, PL)	Riccarda Katharina Læret (Oslo University Hospital, NO)
13:00		<i>"Conformational heterogeneity and protonation equilibria shape the photocycle branching in channelrhodopsin-2"</i>		<i>"Bifunctional natural antioxidants targeting mitochondria for UVA-induced photoprotection"</i>	
13:00		Matteo Capone (Consiglio Nazionale delle ricerche, IT)		Charareh Pourzand (University of Bath, UK)	
13:10		<i>"Mechanism and Dynamics of Photoswitchable Flavoprotein Charge-Transfer Complexes"</i>			
13:20		Bo Zhuang (Peking University, CN)			
13:00	Lunch break				
15:00	Keynote Lecture: Prof. Franz Trautinger				
15:00	<i>"Photodermatology - Quo Vadis?"</i>				
15:30	Self-assembled photosensitizers. Nanomaterials for phototherapy	Theoretical Photochemistry and Chemexcitation in Biology and Medicine	Precision Photobiology: Tailoring Light Environments in Controlled Environment Agriculture	Photosynthetic Efficiency and Resilience	Is Phototherapy a valuable treatment option in dermatology nowadays?
	Chair: Gema de la Torre	Chair: Antonio Monari	Chair: Matt Jones	Chair: Maya Lambreva	Chair: Piergiacomo Calzavara Pinton
	Room "A"	Room "B"	Room "C"	Room "D"	Room "E"
15:30	<i>"Light-induced disruptive porphyrinomes with improved photodynamic applications against cancer and bacterial infections"</i>	<i>"Don't Help them to Bury the lights Multiscale methods to Simulate Photobiological Processes"</i>	<i>"Developmental Plasticity in Vertical Farms"</i>	<i>"Bioenergetics of the cyanobacteria during mixotrophy"</i>	<i>"PUVA - Still an Invaluable Option for Skin Disease?"</i>
15:55	Invited: Ali Makky (Institut Galien Paris-Saclay, University Paris-Saclay, FR)	Invited: Antonio Monari (Université Paris Cité, FR)	Invited: Matt Jones (University of Glasgow, UK)	Invited: Yagut Allahverdiyeva-Rinne (University of Turku, FI)	Invited: Sally Ibbotson (Ninewells Hospital & Medical School, UK)
15:55	<i>"Harnessing Dynamic Supramolecular Polymers for Targeted Photodynamic Therapy"</i>	<i>"Multiscale Simulation of a Fluorescent Probe Sensitive to Different DNA Structural Conformations"</i>	<i>"The Role of Phytochrome Interacting Factors (PIFs) in Reducing Food Waste"</i>	<i>"Photosynthesis regulation impacts carbon and nitrogen assimilation in the diazotrophic cyanobacterium Anabaena sp. PCC 7120"</i>	<i>"Phototherapy of atopic dermatitis"</i>
16:20	Invited: Miguel Garcia-Iglesias (Universidad de Cantabria, ES)	Invited: Marco Marazzi (Universidad de Alcalá, ES)	Invited: Amanda Burridge (University of Bristol, UK)	Invited: Giorgio Parin (Università degli Studi di Padova, IT)	Maria Teresa Rossi (Università degli Studi di Brescia, IT)
16:20	<i>"Nanostructured amphiphilic phthalocyanines and metallo-supramolecular porphyrinoid assemblies for targeted phototherapy"</i>	<i>"Leveraging computational methods to characterize the photophysical features of emerging light-activated anticancer agents"</i>	<i>"Translating academic photobiology to the context of a vertical farm"</i>	<i>"Aquatic photosynthesis in extreme temperatures"</i>	<i>"Phototherapy for psoriasis at the age of biologicals (originators and biosimilars)"</i>
16:45	Invited: Gema de la Torre (Universidad Autónoma de Madrid, ES)	Invited: Marta Erminia Alberto (Università della Calabria, IT)	Invited: Phil Butlin (Crop Research Centre, UK)	Invited: Volha Chukhutsina (Vrije Universiteit Amsterdam, NL)	Invited: Peter Wolf (Medical University of Graz, AT)
16:45	Coffee break				
17:15	<i>"Cluster and kill: the use of clustering-triggered emission materials for antimicrobial photodynamic therapy"</i>	<i>"Photodynamics of DNA fragments by mixed quantum classical dynamical"</i>	<i>"Controlling light-energy use in a minimal protein network to understand how plants regulate light harvesting"</i>	<i>"Nanomaterials for enhanced photoprotection in photosynthetic microorganisms"</i>	<i>"Phototherapy of vitiligo"</i>
17:15	Roger Bresoli Obach (Universitat Ramon Llull, ES)	Roberto Improta (Consiglio Nazionale delle Ricerche, IT)	Invited: Anjali Pandit (Loiden Institute of Chemistry, NL)	Invited: Maya Dimova Lambreva (Consiglio Nazionale delle Ricerche, IT)	Piergiacomo Calzavara-Pinton (Università degli Studi di Brescia, IT)
17:30	<i>"Modular nanoparticles for bioimaging and photodynamic therapy of breast cancer"</i>	<i>"QM/MM-MD investigations of DNA probes and photoDNAzymes: towards molecular design"</i>	<i>"Genetic Basis of Tiling Plasticity in Response to Plant Density in Sorghum"</i>	<i>"Photoprotection by non-photochemical quenching compensates for less cortical screening in pale versus melanic sympatric pairs of lichen species"</i>	<i>"Omalizumab therapy for solar urticaria is associated with behavioural and quality-of-life benefits"</i>
17:30	Veronika Huntošová (P.J. Šafárik University, SK)	Elise Dumont (Université Côte d'Azur, FR)	Asad Riaz (University of Queensland, AU)	Knut Asbjørn Solhaug (Norwegian University of Life Sciences, NO)	Kirsty J Rutter (Manchester Academic Health Science Centre, UK)
17:45	<i>"Smart Photoactivatable Assemblies for Eradicating Local Antibiotic-resistant Bacterial Infections"</i>	<i>"Copper Nanoclusters as Vector to Cure Menkes Disease: Insights from Molecular Modeling"</i>		<i>"Understanding the impact of photoprotection mechanisms on ROS regulation in the moss Physcomitrium patens"</i>	<i>"Identifying new markers that predict the effectiveness of photoprotective agents in reducing skin carcinogenesis"</i>
18:00	Khatia Merabishvili (Université Paris-Saclay, FR)	Éric Brémond (Université Paris Cité, FR)		Francesco Paolo Tranne (Università degli Studi di Padova, IT)	Katie M Dixon (University of Sydney, AU)
18:00	<i>"Synthesis and Self-Assembly of Glycosylated Aza-BODIPY Derivatives for Bioimaging"</i>	<i>"Deciphering the Chemexcitation Step of Luminal: A Computational Mechanistic Study"</i>		<i>"Interactive Effects of Ultraviolet Radiation and Elevated CO2 on Estuarine Phytoplankton: Constant vs Variable Treatments"</i>	
18:15	Irene Paramio (Universidad Autónoma de Madrid, ES)	Juliana Cuéllar-Zuquin (Universitat de València, ES)		Patrick J. Neale (Smithsonian Environmental Research Center, US)	
18:15	<i>"Phthalocyanine-Encapsulated Lignin Nanoparticles for Photodynamic Applications: Data Analysis Assisted Nanoengineering"</i>	<i>"Computational Inspection of Light-Sensitive Compounds Properties in Biological Systems"</i>			
18:30	Dilara Sipahioğlu (Acibadem University, TR)	Alessandra Gilda Ritacca (Università della Calabria, IT)			
		<i>"DNA binding/unbinding kinetics of the dioxetane of melatonin"</i>			
		Clara Cabrero-Tejero (Universitat Politècnica de València, ES)			
18:00	Closing Remarks				
18:30					