

Congress Timetable 26-08 PDF Format

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| Tuesday August 26 th | | | | | |
| 09:00 | Plenary Lecture: Prof. Sherri McFarland | | | | |
| 10:00 | <i>"Molecules to Medicine: Multidisciplinary Integration of the Photosciences with Metal Complexes"</i> | | | | |
| 10:30 | Coffee break | | | | |
| Antimicrobial Photodynamic Therapy for Clinical Applications | | Photophysics of fluorescent probes for biological application | Ultrafast spectroscopy methods in photosynthesis and photobiology | Light management by photosynthetic micro-organisms | Photosensitivity, Photodiagnostics and Photoprotection |
| Chair: Luis Arnaut | | Chairs: Agathe Espagne & Marie Erard | Chairs: Nicoletta Liguori & Pavel Maly | Chairs: Angela Falcitatore & Gianluca Farinola | Chair: Sally Ibbotson |
| Room "A" | | Room "B" | Room "C" | Room "D" | Room "E" |
| 10:30 | <i>"Positioning Antimicrobial PDT Between Antiseptics and Antibiotics"</i> | <i>"Photochemistry of fluorescent proteins: from mechanistic studies to new fluorescence imaging methods"</i> | <i>"Combination of ultrafast spectroscopy and spectroelectrochemistry: a tool to control excited-state dynamics"</i> | <i>"Living Materials for Solar Energy Conversion from Photosynthetic Microorganisms and Biopolymers"</i> | <i>"Photosensitivity - the Role of Photodiagnostics"</i> |
| 10:55 | Invited: Luis Arnaut (CQC-IMS, Coimbra Chemistry Centre, PT) | Invited: Agathe Espagne (Ecole Normale Supérieure, FR) | Invited: Tomas Polivka University of South Bohemia, CZ) | Invited: Gianluca M. Farinola (Università degli Studi di Bari, IT) | Invited: Sally Ibbotson (Ninewells Hospital & Medical School, UK) |
| 10:55 | <i>"Photogeneration of Reactive Oxygen and Iodine Species by Modified Porphyrinoids: From Molecular Mechanisms to Advanced Preclinical Models in aPDT"</i> | <i>"From Quantum Dots to Fluorescent Organic Nanoparticles: bright nanotools for biosensing"</i> | <i>"Development of Multiscale Time-Resolved Circular Dichroism for Investigating Conformational Changes of Biomolecules"</i> | <i>"Microscale imaging sheds light on species-specific strategies for photo-regulation and photo-acclimation of microphytobenthic diatoms"</i> | <i>"What is Wrong with Photoprotection in the General Population"</i> |
| | Invited: Janusz Dabrowski (Jagiellonian University, PL) | Invited: Chloe Grazon (Université de Bordeaux, FR) | Invited: Pascale Chagnenet (CNRS-INSERM-Ecole Polytechnique, FR) | Invited: Bruno Jesus (Nantes Université, FR) | Invited: Piergiacomo Calzavara-Pinton (Università degli Studi di Brescia, IT) |
| 11:20 | <i>"Breaking down the resistance of bacteria to antibiotics and the treatment of pneumonia resistant using photoreaction"</i> | <i>"Sense and Switch across the scales - GFP-like and Bacteriophytochromes in optical imaging from mice to cells"</i> | <i>"Ultrafast multi-exciton spectroscopy tracks excitation energy transport through molecular photosystems"</i> | <i>"Photobiological Hydrogen Production Using Photosynthetic Microorganisms"</i> | <i>"Photoprotection in the photosensitivity diseases"</i> |
| | Invited: Vanderlei S. Bagnato (University of Sao Paulo, BZ) | Invited: Andre-Christian Stiel (Helmholtz Munich, DE) | Invited: Pavel Maly (Charles University, CZ) | Invited: Rossella Labarile (Consiglio Nazionale delle Ricerche, IT) | Yolanda Gilaberte (Miguel Serve University Hospital, ES) |
| 11:45 | <i>"Photodynamic therapy of acne and hidradenitis suppurativa"</i> | <i>"Fluorescent Protein Photobleaching: Spectroscopic Impact and Molecular Basis"</i> | <i>"Spatio-Temporal Imaging of Exciton Energy Transfer below Sunlight Level"</i> | <i>"Upcycling agri-food by-product with phototrophic purple bacteria"</i> | <i>"Exploring the Repurposing of ExpoDose® for Disease Management of Photodermatoses"</i> |
| 11:45 | Invited: Piergiacomo Calzavara-Pinton (Università degli Studi di Brescia, IT) | Invited: Marie Erard (Université Paris-Saclay, FR) | Invited: Niek van Hulst (ICFO – The Institute of Photonic Sciences - ES) | Invited: Baptiste Leroy (Université de Mons, BE) | Ewan Eadie (Ninewells Hospital and Medical School, UK) |
| 12:10 | <i>"Antimicrobial properties and safety profile of Photoporphyrin IX and pexiganan conjugate"</i> | <i>"Dye-based Fluorescent Nanoparticles for Optogenetics"</i> | <i>"Excited-state dynamics of neurodopsin, an bistable microbial rhodopsin: retinal to retinal energy transfer and nonlinear effects"</i> | <i>"Biocompatible Strategies for Microalgae-based Bio-photoanode Fabrication and Electron Extraction"</i> | <i>"A two-year follow-up of EPP patients during afamelanotide treatment indicates increases in the quality of life, time spent outside and demasking of pre-existing pigmented lesions"</i> |
| | Maciej Jaskiewicz (University of Gdansk and Medical University of Gdansk, PL) | Daniel Jonathan (Université de Bordeaux, FR) | Invited: John Kennis (Vrije Universiteit Amsterdam, NL) | Cesar Vicente-Garcia (Università degli Studi di Bari, IT) | Marie Jürgens (Heinrich-Heine-University Duesseldorf, DE) |
| 12:25 | <i>"Shedding Light on Biofilms: Antimicrobial Efficacy of Low Irradiance Violet-Blue Light Exposure"</i> | <i>"Engineering material-friendly proteins"</i> | <i>"Tracking Energy Transport in Photosynthetic Systems: Does Nature Know Better?"</i> | <i>"Bridging Diamond and Cyanobacteria: the Role of Polydopamine in Photocurrent Generation"</i> | <i>"A New Photoprotective Technology"</i> |
| | Lucy Sinclair (University of Strathclyde, UK) | Juan Pablo Fuenzalida Werner (University of Navarra, ES) | Giulia Lo Gerfo Morganti (Institut de Ciències Fotòniques, ES) | Nora Colson (Hasselt University, BE) | Ana López Sánchez (Cantabria Labs, ES) |
| 12:40 | <i>"Antibacterial mechanisms of action of a new Ru(II) polypyridyl photosensitizer in Photodynamic Therapy"</i> | <i>"Selective Mitochondrial Targeting Using TAPY Vectors: From Cancer Cells to Pathogenic Yeast"</i> | <i>"Real-time tracking of ground- and excited-state responses of photoactive molecules to a change of microenvironment, from femtoseconds to milliseconds "</i> | | <i>"Systemic photoprotection"</i> |
| | Maria Auset Vallejo (Universitat Ramon Llull, ES) | Jean Colombani Neto (Universitat Jaume I, ES) | Antonio Sampaoli (Institut de Ciències Fotòniques, ES) | | Aheen Faisal (Aalborg University Hospital, DK) |
| 12:55 | <i>"Molybdenum cluster-based photosensitizers in antimicrobial photodynamic therapy and their applications"</i> | | | | <i>"Independent assessment of DNA damage from high exposures to Far-UVC in a human volunteer trial"</i> |
| 12:55 | Michaela Kubáňová (University of Chemistry and Technology Prague, CZ) | | | | Paul O'Mahoney (UK Health Security Agency, UK) |
| 13:10 | Lunch break | | | | |
| 13:00 | Springer Meeting | | | | |
| 14:30 | Springer Meeting | | | | |
| 15:30 | Springer Meeting | | | | |
| Light in dentistry | | Photosensitization of Natural and Synthetic Molecules and Biomolecules | Computational methods in photosynthesis and photobiology | Oral communications on PDT | Photoprotection |
| Chair: Martha Ribeiro | | Chairs: Andres Thomas & Giorgia Miolo | Chairs: Nicoletta Liguori & Lorenzo Cupellini | Chair: Amparo Faustino | Chair: Yolanda Gilaberte |
| Room "A" | | Room "B" | Room "C" | Room "D" | Room "E" |
| 15:30 | <i>"Advancing Dental Care with Nonthermal Light-Based Technologies"</i> | <i>"Photosensitized oxidation of free and peptide tryptophan to N-formylkynurenine"</i> | <i>"Photoactivation and quenching mechanism of Orange Carotenoid Protein from multiscale simulations"</i> | <i>"Prediction of non-additive effects of complex UV sources: application to DNA photochemistry"</i> | <i>"Photoprotection and climate change"</i> |
| | Invited: Martha S. Ribeiro (Instituto de Pesquisas Energéticas e Nucleares, BR) | Invited: Andrés Thomas (Universidad Nacional de La Plata, AR) | Invited: Lorenzo Cupellini (Università degli Studi di Pisa - IT) | Thierry Douki (Université Grenoble Alpes) | Invited: Yolanda Gilaberte (Miguel Servet University Hospital, ES) |
| 15:55 | <i>"Antimicrobial Photodynamic Therapy in the Oral Cavity: Impacts on the Oral Microbiom"</i> | <i>"Light-Activatable Hyaluronic Acid-Derivatives Releasing Nitric Oxide and Their Delivery in the Skin"</i> | <i>"Quantum-classical dynamics in the study of scotopic and photopic vision"</i> | <i>"An N Doped Carbon Dots Nanoconjugate for the Simultaneous Generation of Nitric Oxide and Singlet Oxygen with Green Light"</i> | <i>"The role of the microbiome on sunlight effects and photoprotection"</i> |
| | Invited: Silvia Cristina Núñez (Universidade Brasil, BR) | Invited: Salvatore Sortino (Università degli Studi di Catania, IT) | Invited: Massimo Olivucci (Università degli Studi di Siena, IT) | Cristina Parisi (Università degli Studi di Catania, IT) | Invited: Peter Wolf (Medical University of Graz, AT) |
| 16:20 | <i>"The use of aPDT mediated by Butyl Tolidine blue to inactivate Candida albicans"</i> | <i>"The PUVA (Psoralen + UVA) Process in the Light of Time-Resolved Spectroscopy"</i> | <i>"Molecular modelling of the last steps of the Kok-Joliot cycle in Photosystem II"</i> | <i>"Assessment of cationic phthalocyanines and doxycycline against resistant microbes – innovative approach or dead end?"</i> | <i>"Present and future of systemic photoprotection"</i> |
| | Invited: Renato Araujo Prates (Universidade Nove de Julho, BR) | Invited: Gilch Peter (Heinrich-Heine-University Düsseldorf, DE) | Invited: Leonardo Guidoni (Università degli Studi de L'Aquila, IT) | Daniel Ziental (Poznan University of Medical Sciences, PL) | Invited: Salvador Gonzalez (University of Alcalá, ES) |
| 16:45 | | 16:45 <i>"Thermodynamics of the Amotosalen-DNA Intercalation"</i> | | 16:05 <i>"Fluorescence lifetime imaging microscopy FLIM with BODIPY2 molecular rotor used to measure cancer cell membrane microviscosity"</i> | |
| | | 16:50 A. Theresa Ott (Heinrich-Heine-University Düsseldorf, DE) | | 16:15 Liubov Shimolina (Privolzhsky Research Medical University, RUS) | |
| | | | | 16:15 <i>"Molecular and biological mechanism studies of protein photooxidation to control cell fate and their therapeutic applications"</i> | |
| | | | | 16:25 Mingyu Park (Ulsan National Institute of Science and Technology, KOR) | |
| | | | | 16:25 <i>"Novel Peptide-Based Prodrugs for Targeted Delivery in ALA-PDT"</i> | |
| | | | | 16:35 Ian Eggleston (University of Bath, UK) | |
| | | | | 16:35 <i>"Time-resolved Study of a C4H Phthalocyanine Interacting with Guanine-rich Nucleic Acid Sequences"</i> | |
| | | | | Robert Edkins (University of Strathclyde, UK) | |
| 16:45 | Coffee break | | | | |
| 17:15 | <i>"Proof-of-concept for systemic photodynamic therapy with methylene blue in a murine model of disseminated Candida auris"</i> | <i>"Photosensitization by topical retinoids: from photophysics to photobiology"</i> | <i>"Beyond a single excitation: calculating multi-exciton dynamics and interaction in highly nonlinear spectroscopy of molecular photosystems"</i> | <i>"Non-Adiabatic Dynamics study on microhydrated DNA probe"</i> | <i>"Nuclear DNA Lesions Drive Metabolic Reprogramming in Keratinocytes Following Acute UVB Exposure"</i> |
| | Tania Mateus Yoshimura (Nuclear Energy Research Institute, BR) | Virginie Lhiaubet (Universitat Politècnica de València-Consejo Superior de Investigaciones Científicas, ES) | Invited: Pavel Maly (Acibadem University, TR) | Elise Lognon (Université Paris Cité, FR) | Hadi Younes (Univ. Bordeaux, FR) |
| 17:30 | | 17:30 <i>"Chemico-physical and biological properties of two monoclonal antibodies, Bevacizumab (Avastin®) and Durvalumab (Imfinzi®) under real-life light doses"</i> | 17:40 <i>"Modelling the interplay between structure and energy transfer in biosystems"</i> | 17:25 <i>"A novel water-in-oil emulsion for photoimmunotherapy delivery"</i> | 17:30 <i>"Evaluating Photoprotective Properties of UK Garments with Integrating-Sphere Spectrophotometry"</i> |
| | | Giorgia Miolo (Università degli Studi di Padova, IT) | Invited: Carlos Curutchet (University of Barcelona, ES) | Kathryn McNaughton (University of Maryland, US) | Rebecca Meehan (University of St Andrews, UK) |
| 17:45 | <i>"Uncovering Mutagenic Cascades: A UV-Triggered Crosslink Between Etheno-Cytosine and Thymine Drives Additional DNA Lesions"</i> | 17:45 <i>"From Reduced to Oxidized: How Eumelanin Oxidation State Modulates Excited States and Photoprotective Efficacy"</i> | 18:05 <i>"First-principles simulations unveil the effect of mutations on light harvesting"</i> | 17:35 <i>"NIR-Responsive Plasmonic Nanoparticle-loaded Mesoporous Silica Nanostructures for Photo-Assisted Gram-Positive Bacteria Eradication"</i> | 17:45 <i>"Vitamin D Receptor and Oxidative Stress"</i> |
| | | Carlos Montero Galán (Universitat Politècnica de València-Consejo Superior de Investigaciones Científicas, ES) | Piermarco Saraceno (Università degli Studi di Pisa, IT) | Federica Rizzi (Consiglio Nazionale delle Ricerche, IT) | Ángeles Juarraz (Cantabria Labs, ES) |
| 18:00 | <i>"From Reduced to Oxidized: How Eumelanin Oxidation State Modulates Excited States and Photoprotective Efficacy"</i> | 18:00 <i>"Molecular determinants of the mechanism of action of PSBS under the computational microscope"</i> | 18:15 <i>"Molecular determinants of the mechanism of action of PSBS under the computational microscope"</i> | 17:45 <i>"Unveiling the Cell Death Mechanisms Induced by LUZ21-Mediated PDT"</i> | 18:00 <i>"Urinary Thymidine Dimer Excretion in Tanning Bed Users Compared with Sun Exposure During a Danish Summer"</i> |
| | | Joanna Waresiak (Jagiellonian University, PL) | Gregor Hill (Institut de Ciències Fotòniques, ES) | Livia Stenico Tanajura (University of Coimbra, PT) | Catharina Margrethe Lerche (Copenhagen University Hospital, DK) |
| 18:15 | <i>"Carnosine oxidation mediated by singlet molecular oxygen"</i> | 18:25 <i>"Computational Insights into The Dynamic Interaction of FCP-LHCX1 Complexes in Diatoms"</i> | 18:25 <i>"Computational Insights into The Dynamic Interaction of FCP-LHCX1 Complexes in Diatoms"</i> | 17:55 <i>"Discovering the Potential of Amino-Based Phthalium Dyes for Photodynamic Therapy"</i> | |
| | Marisa H. G. Medeiros (Universidade de São Paulo, BR) | Boutheina Zender (University of Patras, GR) | | Patricia Correia (REQUIMTE/LAQV, PT) | |
| 18:30 | <i>"A Kinetic Approach to the Photoinduced Crosslinking of Unmodified Bovine Serum Albumin: Functional Consequences"</i> | 18:30 | | 18:05 <i>"Ru-couby complexes as potent photosensitizers for cancer phototherapy"</i> | |
| | Claudia Cecilia Vera (Instituto de Bionanotecnología del NOA, AR) | | | Vicente Marchán (University of Barcelona, ES) | |
| | | | | 18:15 <i>"Metallochlorins for photodynamic therapy: Experimental results and theoretical calculations"</i> | |
| | | | | 18:25 Ana Margarida Silva (REQUIMTE/LAQV, PT) | |
| | | | | 18:25 <i>"Molybdenum Clusters for Enhanced Photodynamic and X-ray-Induced Cancer Therapy"</i> | |
| | | | | Tomas Pribyl (University of Chemistry and Technology Prague, CZ) | |
| 18:30 | Walking tour | | | | |
| 21:00 | | | | | |