



Programme Titles Presenters Topics

Presenter Index

[A 9 Base Pair Intron deletion in the human XPC DNA repair gene impairs lariat loop formation and causes Exon skipping and multiple skin cancers in XP-C patients](#)

Tuesday, June 24: TAM6-Contributed Papers - D - 11:00AM - 1:00PM

[A homogeneous recoverable sensitizer for singlet oxygen production in aqueous solution](#)

Tuesday, June 24: TPM2-Environmental Photobiology - 4:00PM - 6:00PM

[A non-photochemical quenching mutant of chlamydomonas reveals a role for LI818/LHCSR proteins.](#)

Tuesday, June 24: TPM2-Environmental Photobiology - 4:00PM - 6:00PM

[A novel gene in the regulation of the photosynthetic chlorophyll antenna size.](#)

Tuesday, June 24: TAM5-Aquatic Photobiology - 11:00AM - 1:00PM

[A Photosensory two-component system regulates bacterial cell attachment](#)

Monday, June 23: MAM2-Blue Light Photoreceptors - 8:30AM - 10:30AM

[A photosynthetic strategy for coping in a high light, low nutrient environment](#)

Tuesday, June 24: TAM5-Aquatic Photobiology - 11:00AM - 1:00PM

[A review of pharmaceutical photostability testing](#)

Tuesday, June 24: TAM4-Pharmaceutical Photochemistry - B - 11:00AM - 1:00PM

[Action Spectra: Why are they important and how are they constructed and interpreted?](#)

Monday, June 23: MPM4-Photobiology School - Action Spectra - 5:30PM - 6:30PM

[Action spectrum conversion factors that change Erythemally weighted to previtamin D3 weighted UV Doses](#)

Sunday, June 22: SNAM3-Contributed Papers - B - 8:30AM - 10:30AM

[Activation of TGF beta-1 following low power laser irradiation - a potential mechanism for photobiomodulation](#)

Tuesday, June 24: TAM2-Low-Level Light Therapy - 8:30AM - 10:30AM

[Advanced glycation endproducts as Type I photosensitizers in the eye lens](#)

Posters: Poster session

[Advances in understanding photosynthetic efficiency: responding to the challenges of global climate change](#)

Tuesday, June 24: TPM1-ISPR Special Lecture - Advances in Understanding Photosynthesis Efficiency - 3:00PM - 4:00PM

[An unorthodox bacteriophytochrome controlling an important bacterial second messenger, c-di-GMP](#)

Saturday, June 21: SAM2-Bacterial Phyochromes - 11:00AM - 1:00PM

[Antimicrobial photodynamic therapy \(APDT\) in treatment of a tuberculosis. The first clinical results](#)

Saturday, June 21: SAM4-Contributed Papers - A - 11:00AM - 1:00PM

[Application of Chlamydomonas rhodopsins to artificial stimulation of neurons using blue LED](#)

Wednesday, June 25: WAM3-Environmental Aspects and Biological Applications of Blue Light Receptors - 8:30AM - 10:30AM

[Application of Suzuki reaction for the regioselective synthesis of Meso-Substituted photosensitizers with and without tumor imaging ability.](#)

Posters: Poster session

[Applying the proposed FDA sunscreens rule - an in vitro and in silico assessment of the UVA protection of eight US sunscreens](#)

Tuesday, June 24: TAM4-Pharmaceutical Photochemistry - B - 11:00AM - 1:00PM

[Approach toward comprehensive understanding of photosystem II reactions based on the diversity of cyanobacteria.](#)

Monday, June 23: MPM3-Photobiology in Asia - 2 - 3:00PM - 5:00PM

[Aureochrome, the blue light-activated transcription factor, is conserved in Stramenopile algae](#)

Wednesday, June 25: WAM3-Environmental Aspects and Biological Applications of Blue Light Receptors - 8:30AM - 10:30AM

[Bacterial bilin- and flavin-binding photoreceptors](#)

Posters: Poster session

[Binding characteristics of a photochromic calcium-chelating naphthopyran](#)

Posters: Poster session

Biomedical imaging and therapy applications of nanoparticles

Saturday, June 21: SPM1-KCS - Innovations in Photobiology - 3:00PM - 4:00PM

Biophysical properties of photobleached porcine and cow RPE melanosomes - an in vitro model of aged human RPE melanosomes

Monday, June 23: MAM5-Ocular Photobiology - 11:00AM - 1:00PM

Biotechnology of crop plants based on Transgenic Phytochrome Genes

Saturday, June 21: SAM2-Bacterial Phytochromes - 11:00AM - 1:00PM

Blue light at 450nm wavelength modulates proliferation and differentiation of human skin cells

Monday, June 23: MAM2-Blue Light Photoreceptors - 8:30AM - 10:30AM

Can the night-time atmospheric oxidant NO₃(dot) damage aromatic amino acids?

Sunday, June 22: SNAM1-Photooxidation in Proteins - 8:30AM - 10:30AM

Cancer stem cells in murine breast cancer side population are resistant to PDT with photosensitizer substrates of the multiple drug resistance transporter ABCG2

Wednesday, June 25: WAM5-Photodynamic Therapy - 2 - 11:00AM - 1:00PM

Cationic Fullerenes as photosensitizers for Photodynamic Therapy

Posters: Poster session

Characterising the influence on human UV exposures due to reflective vertical surfaces

Tuesday, June 24: TAM6-Contributed Papers - D - 11:00AM - 1:00PM

Characterization of phytochromes as autophosphorylating kinases

Monday, June 23: MAM6-Photobiology in Asia - 1 - 11:00AM - 1:00PM

Cholesterol: A multifaceted photooxidizable lipid

Saturday, June 21: SAM -KCS Interdisciplinary Symposium - 8:30AM - 10:30AM

Closing the vicious cycle of skin cell photo-oxidative stress: The lipid peroxidation-derived protein epitope DHP is a potent UVA-sensitizer

Sunday, June 22: SNAM1-Photooxidation in Proteins - 8:30AM - 10:30AM

Combination of photodynamic therapy and surgery for multiple primary lung cancer

Posters: Poster session

Crucial role of phospholipase C ϵ in ultraviolet B irradiation-induced skin inflammation and skin tumor development

Tuesday, June 24: TPM3-Photocarcinogenesis - 4:00PM - 6:00PM

Cv-pdg Facilitates repair of UVB-Induced DNA damage in skin

Posters: Poster session

Cyanobacterial photoreceptors: Crystal structure and spectral properties of AnPixJ GAF2

Saturday, June 21: SAM2-Bacterial Phytochromes - 11:00AM - 1:00PM

Cyanobacterial Rhodopsins: Light-Driven proton pump GR (Gloeorhodopsin) and ASR (Anabaena Sensory Rhodopsin) for regulating gene expression of photosynthetic pigments

Monday, June 23: MPM3-Photobiology in Asia - 2 - 3:00PM- 5:00PM

Cytochrome c Oxidation by the phthalocyanine Pc 4 and light: Detection of a unique singlet oxygen derivate product

Sunday, June 22: SNAM1-Photooxidation in Proteins - 8:30AM - 10:30AM

Deconstructionist Organic Chemistry: Cleaning Water with Light.

Tuesday, June 24: TPM2-Environmental Photobiology - 4:00PM - 6:00PM

Detection of blue light receptor genes from metagenomic DNA using a microarray approach

Posters: Poster session

Discrimination of malignant melanoma from malignant melanoma suspicious nevi by non invasive in-vivo NIR-FT Raman spectroscopy

Monday, June 23: MAM1-Contributed Paper - F - 8:30AM - 10:30AM

Diversity and evolution of LOV-dependent blue-light signaling proteins

Posters: Poster session

DNA damage induction and repair in human respiratory epithelium and human epidermis exposed to broadband ultraviolet radiation.

Monday, June 23: MAM3-Contributed Papers -C - 8:30AM - 10:30AM

DNA repair and photoaging

Wednesday, June 25: WPM1-Photoimmunology and Photocarcinogenesis-M.Kripke Celebration - 3:00PM - 5:00PM

Drinking green tea prevents UVB-induced immunosuppression through rapid repair of damaged DNA and enhancement of nucleotide excision repair gene expression in mice

Wednesday, June 25: WAM1-Nutriceuticals in Photobiology - 8:30AM - 10:30AM

Drug Photodegradation in the Solid State: Unexpected Photochemistry Observed in a Lyophilized Product

Tuesday, June 24: TAM1-ASP/PPS-Pharmaceutical Photochemistry - A - 8:30AM - 10:30AM

Dynamic molecular responses of plants to photon

Monday, June 23: MAM6-Photobiology in Asia - 1 - 11:00AM - 1:00PM

Dynamics of ultrastructural changes in the isolated neuron under photodynamic impact

Posters: Poster session

Economic benefit of increased vitamin D

Saturday, June 21: SAM3-Vitamin D/UVB - 11:00AM - 1:00PM

Effect of fluence rate on tumor metabolism during PDT of tumors in rats evaluated by Positron Emission Tomography (PET) and Magnetic Resonance Imaging (MRI).

Monday, June 23: MAM1-Contributed Paper - F - 8:30AM - 10:30AM

Effect of H-type colorant aggregation on the photostability of liquid formulations.

Tuesday, June 24: TAM1-ASP/PPS-Pharmaceutical Photochemistry - A - 8:30AM - 10:30AM

Effects of chitosan nanoparticles on the uptake and phototoxicity of delta-aminolevulinic acid

Posters: Poster session

Effects of topically-applied hydroxyacids on UV-Induced erythema assessed by Digital Image Analysis (DIA)

Posters: Poster session

Elucidating the mechanisms of photodynamic therapy induced endothelial cell morphological and functional change.

Saturday, June 21: SAM4-Contributed Papers - A - 11:00AM - 1:00PM

Enabling plants to tolerate the shade with bathochromic Phytochromes A

Posters: Poster session

Evaluation of angiogenic markers in vascular and cellular mediated photodynamic therapy using hypericin

Posters: Poster session

Evolving paradigms for processing DNA photoproducts in bacteria and in human cells

Monday, June 23: MPM1-ASP/ESP-Mechanisms of DNA Damage & Repair - 3:00PM - 5:00PM

Excited-state structural dynamics and photochemistry of pyrimidine nucleobases

Monday, June 23: MPM2-Raman Spectroscopy and Photobiology - 3:00PM - 5:00PM

Exposure of human reconstructed skin to low dose of daily ultraviolet radiation revealed a different oxidative stress response in keratinocytes and fibroblasts.

Posters: Poster session

Exposure to sun and sun beds - advantages versus risk for health

Saturday, June 21: SAM3-Vitamin D/UVB - 11:00AM - 1:00PM

Extracorporeal photopheresis in atopic dermatitis

Sunday, June 22: SNAM2-Extracorporeal Photoimmunotherapy- Photopheresis - 8:30AM - 10:30AM

Extracorporeal photopheresis reverses experimental graft-versus-host disease through regulatory T cells

Sunday, June 22: SNAM2-Extracorporeal Photoimmunotherapy- Photopheresis - 8:30AM - 10:30AM

Femtosecond stimulated Raman spectroscopy

Monday, June 23: MPM2-Raman Spectroscopy and Photobiology - 3:00PM - 5:00PM

Ferric Chloride mediated oxidation of bacteriochlorins. first synthesis of pyrrole "B" reduced Free-base and Metallated Photosensitizers for Tumor-Imaging and Photodynamic Therapy (PDT).

Monday, June 23: MAM1-Contributed Paper - F - 8:30AM - 10:30AM

Fluorescence diagnostic imaging of lesions in the human oral cavity using hypericin

Sunday, June 22: SNAM3-Contributed Papers - B - 8:30AM - 10:30AM

Fluorescence kinetics and drug transport of chlorin e6 - polyvinylpyrrolidone for photodynamic applications of urological cancer

Wednesday, June 25: WAM5-Photodynamic Therapy - 2 - 11:00AM - 1:00PM

Fluorescence lifetime of hypericin has an important role for determination of its biological activity inside the cells.

Monday, June 23: MAM1-Contributed Paper - F - 8:30AM - 10:30AM

Formation and accumulation of damaged proteins within cells: evidence for a key role for protein peroxides in cellular damage.

Sunday, June 22: SNAM1-Photooxidation in Proteins - 8:30AM - 10:30AM

Functional analysis of photoactivated Adenylyl Cyclase alpha (PACa) from euglena gracilis

Wednesday, June 25: WAM3-Environmental Aspects and Biological Applications of Blue Light Receptors - 8:30AM - 10:30AM

Functional melanocortin 1 receptor (MC1R) is not necessary for an inflammatory response to UV radiation in adult mouse skin

Posters: Poster session

Functional transplant of photoactivated adenylyl cyclase (PAC) into Aplysia sensory neurons

Wednesday, June 25: WAM3-Environmental Aspects and Biological Applications of Blue Light Receptors - 8:30AM - 10:30AM

G+C content of genomes is a key parameter for the distribution of UVB-induced bipyrimidine DNA photoproducts

Wednesday, June 25: WAM4-Contributed Papers - E - 11:00AM - 1:00PM

Geometry conversion factors that change UV doses relative to the horizontal plane to doses Relevant to the human body

Saturday, June 21: SAM4-Contributed Papers - A - 11:00AM - 1:00PM

Hairless mouse with UV-induced skin tumors as a model for chemo- and photo- therapy of cancer.

Posters: Poster session

Hierarchy of repair of the different cyclobutane pyrimidine dimers in human skin and cultured cells

Monday, June 23: MPM1-ASP/ESP-Mechanisms of DNA Damage & Repair - 3:00PM - 5:00PM

How actin works in chloroplast photorelocation movement?

Monday, June 23: MPM3-Photobiology in Asia - 2 - 3:00PM- 5:00PM

How blue light regulates kinase activity of phototropin

Monday, June 23: MPM3-Photobiology in Asia - 2 - 3:00PM- 5:00PM

How does UVR exposure dose and behavior in spring and summer influence on vitamin D level in autumn and winter?

Monday, June 23: MAM1-Contributed Paper - F - 8:30AM - 10:30AM

Identification of free radicals induced by UV irradiation in collagen water solutions

Posters: Poster session

Imaging of DNA nanoparticles with tunable fluorescent nanocrystals for gene delivery monitoring

Monday, June 23: MAM4-Imaging Techniques and Probes - 11:00AM - 1:00PM

In vitro phototoxicity testing: a task involving multiple endpoints

Tuesday, June 24: TAM1-ASP/PPS-Pharmaceutical Photochemistry - A - 8:30AM - 10:30AM

Indocyanine Green enhanced non-invasive laser thermal ablation of experimental breast carcinoma

Tuesday, June 24: TAM6-Contributed Papers - D - 11:00AM - 1:00PM

Interaction between 7-mercapto-4-methylcoumarin and CdSe quantum dots

Monday, June 23: MAM3-Contributed Papers -C - 8:30AM - 10:30AM

Interactive effects of elevated CO₂ and UV exposure on microalgal photosynthesis

Tuesday, June 24: TAM5-Aquatic Photobiology - 11:00AM - 1:00PM

Interplay of lysosomes and mitochondria in photodynamic therapy-induced death of cancer cells

Tuesday, June 24: TAM3-Photodynamic Therapy - 1 - 8:30AM - 10:30AM

Intravital microscopic analysis of vascular perfusion and macromolecule extravasation after photodynamic vascular targeting therapy

Tuesday, June 24: TAM6-Contributed Papers - D - 11:00AM - 1:00PM

Investigating the role of adenine in the FAD of DNA photolyase

Posters: Poster session

Isolation and characterization of photosynthetic chlorophyll antenna mutants by DNA insertional mutagenesis.

Tuesday, June 24: TAM5-Aquatic Photobiology - 11:00AM - 1:00PM

Levels of retinyl palmitate and retinol in the skin and liver of SKH-1 mice topically treated with retinyl palmitate and concomitant exposure to simulated solar light for thirteen weeks

Posters: Poster session

Life and death pathways for the UV DNA damage response in the S phase of human cells

Monday, June 23: MPM1-ASP/ESP-Mechanisms of DNA Damage & Repair - 3:00PM - 5:00PM

Light dosimetry for esophageal photodynamic therapy

Saturday, June 21: SPM2-Presidents Lectures - 4:00PM - 5:30PM

Light sensing in the fungi

Monday, June 23: MAM2-Blue Light Photoreceptors - 8:30AM - 10:30AM

Long-range molecular alignment across the surface of Sepia melanosomes

Sunday, June 22: SNAM4-Award Lectures - 11:00AM - 1:00PM

Low Level Light Therapy for wound healing: Basic mechanisms and animal models

Tuesday, June 24: TAM2-Low-Level Light Therapy - 8:30AM - 10:30AM

LZF1, a light and HY5-regulated transcriptional factor, functions in Arabidopsis de-etiolation

Monday, June 23: MAM6-Photobiology in Asia - 1 - 11:00AM - 1:00PM

Making Quantum Dots more luminescent by Sulfur photocuring without compromising sensor response

Tuesday, June 24: TAM6-Contributed Papers - D - 11:00AM - 1:00PM

Making schools safe for UV hypersensitive students

Sunday, June 22: SNAM3-Contributed Papers - B - 8:30AM - 10:30AM

MAS NMR analysis of the photochemical machinery of the photoreceptor phytochrome

Saturday, June 21: SAM2-Bacterial Phyochromes - 11:00AM - 1:00PM

Mast cell-derived IL-10 limits skin pathology associated with chronic low-dose ultraviolet B-irradiation

Saturday, June 21: SAM4-Contributed Papers - A - 11:00AM - 1:00PM

Measurement of solar UVB exposures in sea water with a high - exposure dosimeter

Tuesday, June 24: TAM5-Aquatic Photobiology - 11:00AM - 1:00PM

Mechanisms of bystander signaling following photodynamic stress

Tuesday, June 24: TAM3-Photodynamic Therapy - 1 - 8:30AM - 10:30AM

Mechanisms of enhancement of Anti-Tumor immunity by PDT: Role of inflammatory mediators

Wednesday, June 25: WAM5-Photodynamic Therapy - 2 - 11:00AM - 1:00PM

Mechanisms of UV-induced melanoma

Wednesday, June 25: WPM1-Photoimmunology and Photocarcinogenesis-M.Kripke Celebration - 3:00PM - 5:00PM

Mice drinking goji berry juice are protected against photoimmune suppression via haem oxygenase induction

Wednesday, June 25: WAM1-Nutriceuticals in Photobiology - 8:30AM - 10:30AM

Mitochondrial distribution in photoreceptors make them a candidate for oxidative damage, and for photobiological repair

Tuesday, June 24: TAM2-Low-Level Light Therapy - 8:30AM - 10:30AM

Mitochondrial redox activation of cytochrome c by cardiolipin: An apoptotic gateway.

Wednesday, June 25: WAM2-ASP/RRS-Mitochondrial ROS - 8:30AM - 10:30AM

Mode of action in ECP: An update on the role of regulatory T cells

Sunday, June 22: SNAM2-Extracorporeal Photoimmunotherapy- Photophoresis - 8:30AM - 10:30AM

Molecular and cellular mechanisms of photocarcinogenesis

Wednesday, June 25: WPM1-Photoimmunology and Photocarcinogenesis-M.Kripke Celebration - 3:00PM - 5:00PM

Motexafin Lutetium mediated PDT for recurrent prostate cancer.

Wednesday, June 25: WAM5-Photodynamic Therapy - 2 - 11:00AM - 1:00PM

Multimode optical imaging system for In Vivo chemotherapy assessment in small animals

Monday, June 23: MAM4-Imaging Techniques and Probes - 11:00AM - 1:00PM

Mutations affecting the GTP/ATP binding properties of the blue-light sensor YtvA

Monday, June 23: MAM2-Blue Light Photoreceptors - 8:30AM - 10:30AM

Neonatal exposure to ultraviolet radiation leads to immune suppression, potentially mediated by T regulatory cells

Wednesday, June 25: WAM4-Contributed Papers - E - 11:00AM - 1:00PM

New amphiphilic halogenated bacteriochlorins: spectroscopic, photophysical and photobiological studies.

Wednesday, June 25: WAM4-Contributed Papers - E - 11:00AM - 1:00PM

New insight and prediction of photostability of sunscreens

Tuesday, June 24: TAM1-ASP/PPS-Pharmaceutical Photochemistry - A - 8:30AM - 10:30AM

New photosensitizers for antimicrobial photodynamic therapy.

Wednesday, June 25: WAM5-Photodynamic Therapy - 2 - 11:00AM - 1:00PM

Nicotinamide (vitamin B3) is protective against ultraviolet radiation-induced immunosuppression in humans

Wednesday, June 25: WAM1-Nutriceuticals in Photobiology - 8:30AM - 10:30AM

Non-denatured soy extracts reduce UVB-induced skin damage via multiple mechanisms

Tuesday, June 24: TPM3-Photocarcinogenesis - 4:00PM - 6:00PM

Novel secosteroidogenic pathway and the skin

Saturday, June 21: SAM3-Vitamin D/UVB - 11:00AM - 1:00PM

Optical experiments with singlet oxygen: From single cells to gold nanodiscs

Tuesday, June 24: TAM1-ASP/PPS-Pharmaceutical Photochemistry - A - 8:30AM - 10:30AM

Optical model for Barrett's esophagus

Posters: Poster session

Organically Modified Silica (ORMOSIL) Nanoparticles as a drug delivery system for Photodynamic Therapy and tumor imaging

Posters: Poster session

Oxidative stress inhibits the repair of oxidative DNA base modifications generated by solar light

Monday, June 23: MPM1-ASP/ESP-Mechanisms of DNA Damage & Repair - 3:00PM - 5:00PM

Patient specific integrating sphere for improvement of dosimetry in PDT

Monday, June 23: MAM4-Imaging Techniques and Probes - 11:00AM - 1:00PM

PDT-induced necrosis of neuronal and glial cells is controlled by cell signaling machinery

Posters: Poster session

PET Imaging and PDT: Comparative tumor imaging and photosensitizing potential of Ring 'B' vs. Ring 'D' reduced chlorins with similar lipophilicity

Posters: Poster session

Photobiology and Photochemistry in industry: water disinfection and contamination treatment

Monday, June 23: MAM4-Imaging Techniques and Probes - 11:00AM - 1:00PM

Photobiomodulation as a novel non-invasive therapy for the treatment of neurodegeneration and autoimmunity.

Tuesday, June 24: TAM2-Low-Level Light Therapy - 8:30AM - 10:30AM

Photobiomodulation for retinal injury and retinal degenerative disease

Monday, June 23: MAM5-Ocular Photobiology - 11:00AM - 1:00PM

Photocarcinogenesis data demonstrate the validity of the SCUP-m actionsSpectrum for UVR-Induced skin cancer

Tuesday, June 24: TPM3-Photocarcinogenesis - 4:00PM - 6:00PM

Photocarcinogenesis: What can we learn from the immune system?

Saturday, June 21: SPM2-Presidents Lectures - 4:00PM - 5:30PM

Photochemical cooperativity in photosystem II reaction center

Posters: Poster session

Photodynamic therapy and the tumor microenvironment

Tuesday, June 24: TAM3-Photodynamic Therapy - 1 - 8:30AM - 10:30AM

Photodynamic Therapy-Induced activation and nuclear relocalization of epidermal growth factor receptor and STAT3 mediates survival of ovarian and lung cancer cells

Tuesday, June 24: TAM3-Photodynamic Therapy - 1 - 8:30AM - 10:30AM

Photoimmunomodulation in cosmetics

Posters: Poster session

Photooxidative stress in melanocytes: from specific damage to specific responses

Monday, June 23: MAM3-Contributed Papers -C - 8:30AM - 10:30AM

Photophereis in CTCL and systemic sclerosis

Sunday, June 22: SNAM2-Extracorporeal Photoimmunotherapy- Photophoresis - 8:30AM - 10:30AM

Photopheresis in solid organ transplantation

Sunday, June 22: SNAM2-Extracorporeal Photoimmunotherapy- Photophoresis - 8:30AM - 10:30AM

Photophysical properties of Pheophorbide-a and Pheophorbide-a - Carboquone complex and its interactions with DNA Nucleosides and DNA oligonucleotides

Posters: Poster session

Photophysics of the eye—Dosimetry for exposure of the retina and other ocular structures

Monday, June 23: MAM5-Ocular Photobiology - 11:00AM - 1:00PM

Photoreversibility of fruiting in oriental melon (Cucumis Melo L.).

Posters: Poster session

Phototoxic damage to human lens epithelial cells

Monday, June 23: MAM5-Ocular Photobiology - 11:00AM - 1:00PM

Phototoxicity of pristine (C60) and hydroxylated [C60(OH)24] fullerene towards keratinocytes

Posters: Poster session

Phototriggered liposomal release

Posters: Poster session

PIF5: Photoactivated protein degradation and negative regulation of PhyB Abundance in prolonged red light illumination

Monday, June 23: MAM6-Photobiology in Asia - 1 - 11:00AM - 1:00PM

Platelet Activating Factor (PAF) induces mast cell migration from the skin to draining lymph nodes

Saturday, June 21: SAM4-Contributed Papers - A - 11:00AM - 1:00PM

Practical assessment of recommended UV exposures for vitamin D synthesis

Saturday, June 21: SAM3-Vitamin D/UVB - 11:00AM - 1:00PM

Prevention of genomic damage afforded by three sunscreen products having the same SPF: Beneficial effect of Mexoryl SX

Posters: Poster session

Primary photo processes in some Fluoroquinolone antibiotics

Tuesday, June 24: TAM4-Pharmaceutical Photochemistry - B - 11:00AM - 1:00PM

Probiotics : A new approach in oral photoprotection

Wednesday, June 25: WAM1-Nutraceuticals in Photobiology - 8:30AM - 10:30AM

Properties of photosystem ii (psii) in arabidopsis thaliana “lpa1” and chlamydomonas reinhardtii “rep27” mutants under photoinhibitory and recovery conditions

Posters: Poster session

Properties of UVA or UVB irradiated quercetin, a potential topical photoprotectant

Posters: Poster session

Protein- and peptide-membrane interactions investigated with UV resonance Raman spectroscopy.

Monday, June 23: MPM2-Raman Spectroscopy and Photobiology - 3:00PM - 5:00PM

Proteomic response of the Sea Urchin *Strongylocentrotus purpuratus* early cleavage embryo to ultraviolet radiation

Posters: Poster session

Quantification of reactive oxygen species damage to Mitochondrial DNA after radiation and H2O2

Wednesday, June 25: WAM2-ASP/RRS-Mitochondrial ROS - 8:30AM - 10:30AM

Quantification of total and deleted mitochondrial DNA copies in Chinese hamster fibroblasts expressing mutations in the nuclear genes coding for succinate dehydrogenase (SDH)

Monday, June 23: MAM3-Contributed Papers -C - 8:30AM - 10:30AM

Quantitative assessment of genotoxicity induced by simulated solar UV on a reconstructed skin model EPISKIN

Posters: Poster session

REP27, a tetratricopeptide repeat nuclear-encoded and chloroplast-localized protein functions in the D1/32 kD reaction center protein turnover and photosystem-II repair from photodamage.

Tuesday, June 24: TAM6-Contributed Papers - D - 11:00AM - 1:00PM

Resonance Raman studies of mitoNEET: pH and pioglitazone binding effects

Sunday, June 22: SNAM3-Contributed Papers - B - 8:30AM - 10:30AM

Review of the Vitamin D endocrine system: From ultraviolet light and 7-dehydrocholesterol, thru key metabolism, to production of a steroid hormone with a complex receptor system and a multitude of biological responses

Saturday, June 21: SAM3-Vitamin D/UVB - 11:00AM - 1:00PM

Role of retinoids in visual photoreceptor function and survival

Sunday, June 22: SNAM4-Award Lectures - 11:00AM - 1:00PM

Roles of different functional moieties of phototropins

Monday, June 23: MPM3-Photobiology in Asia - 2 - 3:00PM- 5:00PM

RopGEF11, novel phytochrome interacting protein, is involved in light signaling in Arabidopsis

Monday, June 23: MAM6-Photobiology in Asia - 1 - 11:00AM - 1:00PM

Safety assessments of endoscopic light exposures of internal tissues

Tuesday, June 24: TAM4-Pharmaceutical Photochemistry - B - 11:00AM - 1:00PM

SERS-based sensors and assays

Monday, June 23: MAM4-Imaging Techniques and Probes - 11:00AM - 1:00PM

Signaling control of apoptosis in photosensitized glial cells

Posters: Poster session

Signaling events in nitric oxide-induced cell resistance to photodynamic eradication

Posters: Poster session

Singlet Oxygen: A critical ROS in Photodynamic Therapy

Wednesday, June 25: WAM2-ASP/RRS-Mitochondrial ROS - 8:30AM - 10:30AM

Solar radiations and the induction of DNA damages, Mutations and Skin cancers, especially Malignant Melanomas

Saturday, June 21: SAM1- Photobiology Perspectives Lecture - 10:30AM - 11:00AM

Stand-Off detection of vapor-phase materials using back-scattered Coherent spectroscopy.

Tuesday, June 24: TPM2-Environmental Photobiology - 4:00PM - 6:00PM

Structure and binding analyses of Arabidopsis thaliana cryptochrome 3 in complex with CPD-comprising probes

Monday, June 23: MAM2-Blue Light Photoreceptors - 8:30AM - 10:30AM

Study of interaction of Hypericin in U-87MG cell line using synchrotron based Fourier transform infrared microspectroscopy.

Posters: Poster session

Sub-erythral UV radiation effects on human skin

Wednesday, June 25: WPM1-Photoimmunology and Photocarcinogenesis-M.Kripke Celebration - 3:00PM - 5:00PM

Surface elastic properties and Age-Dependent photoionization thresholds of human RPE melanosomes and lipofuscin

Monday, June 23: MAM5-Ocular Photobiology - 11:00AM - 1:00PM

Synergies of VEGF Inhibition and Photodynamic Therapy in the treatment of age-related macular degeneration

Monday, June 23: MAM3-Contributed Papers -C - 8:30AM - 10:30AM

Synthesis and photophysical properties of functional macromolecules from short Single Walled Carbon Nanotubes (sSWNT), (4,4'-diphenylvinyl)-sSWNT and (alkyl-azaxanthone)-sSWNT.

Posters: Poster session

TGF-beta1 transgenic mice: a suitable model for the therapeutic action of PUVA in psoriasis

Wednesday, June 25: WPM1-Photoimmunology and Photocarcinogenesis-M.Kripke Celebration - 3:00PM - 5:00PM

The cone photoreceptors for color vision depend on presence of the transport protein IRBP for normal function

Monday, June 23: MAM5-Ocular Photobiology - 11:00AM - 1:00PM

The control of skin carcinogenesis in mice via metabolic regulation of cyclic guanosine monophosphate

Tuesday, June 24: TPM3-Photocarcinogenesis - 4:00PM - 6:00PM

The effects of melanin on the amount and distribution of DNA damage induced by UVA and UVB radiation.

Monday, June 23: MPM1-ASP/ESP-Mechanisms of DNA Damage & Repair - 3:00PM - 5:00PM

The effects of UVB light on serum 25-hydroxyvitamin D levels in humans with 3% dihydroxyacetone treatment of skin

Saturday, June 21: SAM3-Vitamin D/UVB - 11:00AM - 1:00PM

The excited states of fluorescent adenine analogs: An Ab Initio and stark spectroscopic study of 2-Aminopurine and 8-Vinyladenine.

Posters: Poster session

The ideal sunscreen protects against sunburn, skin photo aging and skin cancer but still allows the synthesis of Vitamin D3 in the skin - an in vitro and in silico assessment of past, current and future sunscreens.

Sunday, June 22: SNAM3-Contributed Papers - B - 8:30AM - 10:30AM

The immunosuppressant Rapamycin alters the p53 mutation spectrum in UV-induced skin tumors and inhibits tumor outgrowth.

Tuesday, June 24: TPM3-Photocarcinogenesis - 4:00PM - 6:00PM

The performance of a sunscreen depends on the UVR spectrum with which it is tested

Tuesday, June 24: TAM6-Contributed Papers - D - 11:00AM - 1:00PM

The Photosensitizing potential of compact fluorescent vs. incandescent light bulbs

Posters: Poster session

The role of naturally occurring sensitizers in the formation of free radicals in the photolysis of Xenobiotics

Posters: Poster session

The role of tumor-antigens and T regulatory cells in PDT-induced anti-tumor immunity.

Wednesday, June 25: WAM5-Photodynamic Therapy - 2 - 11:00AM - 1:00PM

The structure of a complete phytochrome sensory module in the Pr ground state

Saturday, June 21: SAM2-Bacterial Phytochromes - 11:00AM - 1:00PM

Time-resolved detection of conformation changes of photosensor proteins

Monday, June 23: MPM3-Photobiology in Asia - 2 - 3:00PM- 5:00PM

Topical delivery of silicon phthalocyanine photosensitizer Pc 4 for photodynamic therapy of skin pathologies

Monday, June 23: MAM1-Contributed Paper - F - 8:30AM - 10:30AM

Topical Vitamin D increases the ability of regulatory T Cells to suppress asthma-like responses in a mouse model of allergic airways Disease

Sunday, June 22: SNAM3-Contributed Papers - B - 8:30AM - 10:30AM

Towards in vivo PDT dosimetry using fluorescence lifetime imaging

Monday, June 23: MAM4-Imaging Techniques and Probes - 11:00AM - 1:00PM

Transgenic mice with a knock in point mutation at p53 codon 172 exhibit increased sensitivity to UV-induced skin damage, immunosuppression, and skin cancer.

Tuesday, June 24: TPM3-Photocarcinogenesis - 4:00PM - 6:00PM

Treatment of tumors using PDT or chemoablation using PV-10 produces antitumor immunity effective on remote tumors

Monday, June 23: MAM1-Contributed Paper - F - 8:30AM - 10:30AM

Tubulin polymerization with porphyrins

Posters: Poster session

Tumor microenvironment as an effector of PDT response

Tuesday, June 24: TAM3-Photodynamic Therapy - 1 - 8:30AM - 10:30AM

Ultrafast dynamics and anionic active states of the flavin cofactor in cryptochrome and photolyase

Monday, June 23: MAM3-Contributed Papers -C - 8:30AM - 10:30AM

Ultrafast excited state Isomerization in phytochrome revealed by femtosecond stimulated Raman spectroscopy.

Saturday, June 21: SAM4-Contributed Papers - A - 11:00AM - 1:00PM

Ultrafast excited-state structural dynamics of GFP observed by femtosecond stimulated Raman spectroscopy.

Wednesday, June 25: WAM4-Contributed Papers - E - 11:00AM - 1:00PM

Ultrafast structural dynamics in BLUF domains: transient infrared spectroscopy of AppA and its mutants.

Wednesday, June 25: WAM4-Contributed Papers - E - 11:00AM - 1:00PM

Ultraviolet-A radiation induces changes in cyclin G gene expression in mouse melanoma cells

Saturday, June 21: SAM4-Contributed Papers - A - 11:00AM - 1:00PM

Using principal component analysis to determine Photofrin content from reflectance spectra

Posters: Poster session

UV photodimer processing in mammalian cells

Monday, June 23: MPM1-ASP/ESP-Mechanisms of DNA Damage & Repair - 3:00PM - 5:00PM

UV protective effects of flavonoids: From the human skin cell model to a human trial

Wednesday, June 25: WAM1-Nutriceuticals in Photobiology - 8:30AM - 10:30AM

UV Radiation induces mutations in the PTEN gene in melanomas from xeroderma pigmentosum patients

Posters: Poster session

UVB, UVA and interactive effects are immunosuppressive in humans

Wednesday, June 25: WPM1-Photoimmunology and Photocarcinogenesis-M.Kripke Celebration - 3:00PM - 5:00PM

UV-induced histone H2AX phosphorylation and recruitment of double strand break related proteins in XP-B cells

Monday, June 23: MAM3-Contributed Papers -C - 8:30AM - 10:30AM

Validation of bio-behavioral measurement methods of sun exposure for skin cancer prevention research in Southern Arizona high school students

Sunday, June 22: SNAM3-Contributed Papers - B - 8:30AM - 10:30AM