



Programme Titles Presenters Topics

Applied Photobiology – Light Health and Safety Issues ▼

Applied Photobiology - Light Health and Safety Issues

Broader Photobiological Implications of Solid-State Lighting

*Naomi Miller**

Wednesday, June 27, 2012: Applied Photobiology - Lighting Health and Safety Issues - 2:15-4:15
02:35-02:50

Photobiological Safety Assessments of Entertainment Lighting

John O'Hagan, Marina Khazova*

Wednesday, June 27, 2012: Applied Photobiology - Lighting Health and Safety Issues - 2:15-4:15
03:35-03:50

Photobiological Safety Evaluation of UV Fingernail Polish Curing Lamps

John C. Dowdy, Robert M. Sayre*

Wednesday, June 27, 2012: Applied Photobiology - Lighting Health and Safety Issues - 2:15-4:15
03:50-04:05

Photobiological Safety of LEDs in Toys

John O'Hagan, Michael Higlett, Marina Khazova*

Wednesday, June 27, 2012: Applied Photobiology - Lighting Health and Safety Issues - 2:15-4:15
03:05-03:20

Photobiological Safety Implications of the Revolution in Lighting

*David Sliney**

Wednesday, June 27, 2012: Applied Photobiology - Lighting Health and Safety Issues - 2:15-4:15
02:15-02:35

Progress with CIE and IEC Photobiological Lamp Safety Standards

*Werner Horak**

Wednesday, June 27, 2012: Applied Photobiology - Lighting Health and Safety Issues - 2:15-4:15
02:50-03:05

Solid-state Lighting for the UV Photosensitive Patient

Robert M. Sayre, Maureen Poh-Fitzpatrick, Victoria P. Werth, John C. Dowdy, David H. Sliney, Dee L. Sayre*

Wednesday, June 27, 2012: Applied Photobiology - Lighting Health and Safety Issues - 2:15-4:15
03:20-03:35

[^Top](#)

Cell or Vessel: A Debate on Effective Photobiology

ALA-Photodynamic Therapy: Targeting Disturbed Onco-Metabolism of the Heme Pathway in the Single Tumor Cell

*Zvi Malik**

Monday, June 25, 2012: Cell or Vessel: A Debate on Effective Photobiology - 4:45-6:15
05:05-05:15

Clinical and Histologic Results from Phase 2 Trial of Vascular Targeted Photodynamic Therapy for Localized Prostate Cancer

*Jonathan Coleman**

Monday, June 25, 2012: Cell or Vessel: A Debate on Effective Photobiology - 4:45-6:15
04:45-05:05

Generation of Reactive Oxygen Species Via Type I and Type II Photochemistry of WST11 in Different Microenvironments

*Tomasz Oles, Iddo Pinkas, Avigdor Scherz, Tadeusz Sarna**

Monday, June 25, 2012: Cell or Vessel: A Debate on Effective Photobiology - 4:45-6:15
05:15-05:35

Optimizing Array-Based Delivery of Photodynamic Therapy of Multiple Organs in a Large Animal Model

Simon Kimm, Tatum Tarin, Avigdor Scherz, Jonathan Coleman*

Monday, June 25, 2012: Cell or Vessel: A Debate on Effective Photobiology - 4:45-6:15
05:55-06:05

Oxygen and Nitroxide Radicals Drive Tumor Ablation by Vascular Targeted Photodynamic Therapy with Tookad®-Soluble Avigdor Scherz*, Yoram

Monday, June 25, 2012: Cell or Vessel: A Debate on Effective Photobiology - 4:45-6:15
05:35-05:55

Utilization of Vascular Targeted Photodynamic Therapy with WST-11 in Hollow Organs in a Large Animal Model: A Feasibility Study

Tatum Tarin, Simon Kimm, Avigdor Scherz, Jonathan Coleman*

Monday, June 25, 2012: Cell or Vessel: A Debate on Effective Photobiology - 4:45-6:15
06:05-06:14

[^Top](#)

DNA Repair of Chromatin

Five Case Reports of Xeroderma Pigmentosum Group D Without Neurological Symptoms

Eiji Nakano, Ryusuke Ono, Seiji Takeuchi, Chikako Nishigori*

Monday, June 25, 2012: DNA Repair of Chromatin - 8:30-10:30
10:10-10:20

Histone H3 lysine 79 Methylation and Nucleotide Excision Repair

*Danielle Tatum, Shisheng Li**

Monday, June 25, 2012: DNA Repair of Chromatin - 8:30-10:30
09:00-09:30

Impact of Chromatin Structure on Accessibility to DNA Repair Enzymes

Michael Smerdon, Mingrui Duan, Peng Mao*

Monday, June 25, 2012: DNA Repair of Chromatin - 8:30-10:30
08:30-09:00

Preferential Repair of UV-Induced Cyclobutane Pyrimidine Dimers in the Human Corneal Epithelium

Justin D. Mallet, Nathalie Bastien, Patrick J. Rochette*

Monday, June 25, 2012: DNA Repair of Chromatin - 8:30-10:30
10:00-10:10

The E2F1 Transcription Factor Promotes DNA Repair by Inducing Histone Acetylation at Sites of Damage.

*Ruifeng Guo, Jie Chen, Anup Biswas, Sreerupa Ray, Renier Velez-Crua, David Mitchell, David Johnson**

Monday, June 25, 2012: DNA Repair of Chromatin - 8:30-10:30
09:30-10:00

[^Top](#)

DNA Damage

Compared to UVC, UVB Irradiation Generates in Cellulo more Cyclobutane Pyrimidine Dimers at CC Dipyrimidine Sites

*Nathalie Bastien, Jean-Philippe Therrien, Regén Drouin**

Sunday, June 24, 2012: DNA Damage - 2:00-3:30
02:20-02:40

Evaluation of Solar Radiation-Induced Photodamage and Apoptosis in a New Skin Tissue Model

Daniel Bacqueville, Laure Duprat, Chloé Belles, Béatrice Guiraud, Sandy Mas, Sandrine Bessou-Touya, Hélène Duplan*

Sunday, June 24, 2012: DNA Damage - 2:00-3:30
03:10-03:20

Genotoxic Effect of UVA : From DNA Damage Formation to Impaired DNA Replication Machinery

Evelyne Sage, Pierre-Marie Girard, Dany Graindorge, Stefania Francesconi, Jérôme Guitton*

Sunday, June 24, 2012: DNA Damage - 2:00-3:30
02:40-03:00

Mitochondrial DNA Common Deletion in Human Eye: A Biomarker of Ocular Solar Exposure?

Sébastien P. Gendron, Justin D. Mallet, Nathalie Bastien, Patrick J. Rochette*

Sunday, June 24, 2012: DNA Damage - 2:00-3:30
03:00-03:10

Ultraviolet-Induced DNA Damage in the Anterior Ocular Structures

*Justin Mallet, Sebastien Gendron, Nathalie Bastien, Patrick Rochette**

Sunday, June 24, 2012: DNA Damage - 2:00-3:30
02:00-02:20

[^Top](#)

Epigenetics of Skin Cancer

Epigenetic Effects of UVB Irradiation

*Christoph Lahtz, Sang-In Kim, Gerd Pfeifer**

Monday, June 25, 2012: Epigenetics Effects of UVB Irradiation - 11:00-1:00
12:20-01:00

Role of miRNAs in Malignant Melanoma

*Anja Bosserhoff**

Monday, June 25, 2012: Epigenetics Effects of UVB Irradiation - 11:00-1:00
11:40-12:20

UVA-Induced Epigenetic Regulation of Tumor Suppressor and miRNA Gene Expression

Ruediger Greinert, I Peng Chen, Alexandra Faust, Stefan Henning, Beate Volkmer*

Monday, June 25, 2012: Epigenetics Effects of UVB Irradiation - 11:00-1:00
11:00-11:40

[^Top](#)

Free Radical Chemistry and Applications

Effect of Photochemically Prepared Collagen Protected Silver Nanoparticles on the Antiseptic Activity of Collagen Based Hydrogels for Tissue Regeneration

Emilio Alarcon, Madeline J Simpson, Christopher W Noel, Chyan-Jang Lee, Nadja Karamehmedovic, Mårten Skog, Klas Udekwu, Juan C Scaiano, May Griffith*

Tuesday, June 26, 2012: Free Radical Chemistry and Applications - 3:45-5:45
04:45-05:05

Improved Bowel Repair by Light-Activated Sealing of Anastomotic Site

Prabhu Senthil-Kumar, Tao Ni, Mark Randolph, George Velmahos, Irene Kochevar, Robert Redmond*

Tuesday, June 26, 2012: Free Radical Chemistry and Applications - 3:45-5:45
05:25-05:45

Novel Fluorogenic Tocopherol Analogues for Visualizing Peroxyl Radicals in Model Lipid Membranes and in Live Cells

*Katerina Krumova, Lana Greene, Robert Godin, Gonzalo Cosa**

Tuesday, June 26, 2012: Free Radical Chemistry and Applications - 3:45-5:45
04:15-04:45

Photocrosslinking Proteins for Tissue Repair

Irene Kochevar, Robert Redmond*

Tuesday, June 26, 2012: Free Radical Chemistry and Applications - 3:45-5:45
03:45-04:15

Photopolymerization in Tissue Engineering and Controlling Stem Cell Behavior

Murat Guvendiren, Jason Burdick*

Tuesday, June 26, 2012: Free Radical Chemistry and Applications - 3:45-5:45
05:05-05:25

[^Top](#)

ICEPURE - Impact of Climate and Environmental Factors

Collection, Validation and Analyses of Personal UVR Exposure

*Peter A Philipsen**

Monday, June 25, 2012: Impact of Climate and Environmental Factors on Personal UVR Exposure and Human Health - 2:15 - 4:15
02:45-03:05

Directional Ultraviolet Radiometry on the Different Ground Coverage for Evaluation of Solar Ultraviolet Exposure to Humans

Shu Takeshita, Masako Sasaki*

Monday, June 25, 2012: Impact of Climate and Environmental Factors on Personal UVR Exposure and Human Health - 2:15 - 4:15
03:45-03:55

Ground UVR Measurements for the ICEPURE Project

John O'Hagan, Katarzyna Baczynska, Andrew Pearson, Paul Eriksen*

Monday, June 25, 2012: Impact of Climate and Environmental Factors on Personal UVR Exposure and Human Health - 2:15 - 4:15
02:25-02:45

Holiday Studies: Behaviour, UVR-Exposure and Vitamin-D Formation Among Sun Worshippers and Skiers

Bibi Petersen, Peter Philipsen, Elisabeth Thieden, Antony Young, Hans Christian Wulf*

Monday, June 25, 2012: Impact of Climate and Environmental Factors on Personal UVR Exposure and Human Health - 2:15 - 4:15
03:25-03:45

Relationship Between Personal UVR Exposure and Biological Outcomes in Field and Laboratory Studies

*Antony Young**

Monday, June 25, 2012: Impact of Climate and Environmental Factors on Personal UVR Exposure and Human Health - 2:15 - 4:15
03:55-04:15

UVR Population Studies in the ICEPURE Project

*Elisabeth Thieden**

Monday, June 25, 2012: Impact of Climate and Environmental Factors on Personal UVR Exposure and Human Health - 2:15 - 4:15
03:05-03:25

[^Top](#)

Imaging and Spectroscopy I

Challenges in Developing Microendoscopy-Guided Photoimmunotherapy and Online Monitoring of Micrometastases

Bryan Spring, Akilan Palanisami, Adnan Abu-Yousif, Xiang Zheng, R. Bryan Sears, Imran Rizvi, Zhiming Mai, Lawrence Mensah, Sriram Anbil, Tayyaba Hasan*

Monday, June 25, 2012: Imaging and Spectroscopy - 8:30-10:30
10:04-10:16

Effect of Hypothermia on the Intracellular PPIX and Porphyrinogen synthesis and the Resulting PDT Effect in Brain Tumour Cell Lines

*Benjamin Lai, Carl Fisher, Carolyn Nui, Lothar Lilge**

Monday, June 25, 2012: Imaging and Spectroscopy - 8:30-10:30
09:10-09:25

Medical Image Processing with Thin Films of a Biomaterial

*D.V.G.L.N. Rao**

Monday, June 25, 2012: Imaging and Spectroscopy - 8:30-10:30
08:30-08:50

Multimodal Nonlinear Optical Imaging of Breast Cancer Microenvironments and Gold Nanorods by Pulse-Shaping Fiber Supercontinuum

Yuan Liu, Haohua Tu, Stefano Buolos, Eric Chaney, Catherine Murphy, Stephen Boppart*

Monday, June 25, 2012: Imaging and Spectroscopy - 8:30-10:30
10:16-10:28

Photothermal Microspectroscopy with Femtosecond Lasers, Quantum Cascade Lasers on Plasmonic Metamaterials and Biological systems

*Shyamsunder Erramilli**

Monday, June 25, 2012: Imaging and Spectroscopy - 8:30-10:30
08:50-09:10

Targeting Pancreatic Tumor-Stroma Interactions with PDT: Insights from Imaging-Based Quantification of Therapeutic Response in 3D Tumor Models

Jonathan Celli, Michael Glidden, Imran Rizvi, Iqbal Massodi, Tayyaba Hasan*

Monday, June 25, 2012: Imaging and Spectroscopy - 8:30-10:30
09:25-09:40

Time-Lapse Multi-Modal Microscopy of Bone Marrow Derived Cell Dynamics During Cutaneous Wound healing and Regeneration

Benedikt Graf, Eric Chaney, Marina Marjanovic, Michael De Lisio, Steven Adie, Marni Boppart, Stephen Boppart*

Monday, June 25, 2012: Imaging and Spectroscopy - 8:30-10:30
09:40-09:52

Visualization of Mitochondria in Living Cells Using a Redox Yellow Fluorescent Protein with a Mitochondrial Targeting Signal

Hajime Karatani, Yuki Namikawa, Naomi Mori, Yutaka Ihara, Kengo Kitadokoro, Hiroshi Oyama*

Monday, June 25, 2012: Imaging and Spectroscopy - 8:30-10:30
09:52-10:04

[^Top](#)

Indoor Tanning: Previously Unasked Questions

A Call for Certification of Tanning Salon Employees

*Michael Caswell**

Tuesday, June 26, 2012: Indoor Tanning: Previously Unasked Questions - 1:15-3:15
02:30-02:45

Facultative Pigmentation in Human Skin Induced with Ultraviolet Radiation or with Visible Light

*Nikiforos Kollias**

Tuesday, June 26, 2012: Indoor Tanning: Previously Unasked Questions - 1:15-3:15

01:15-01:30

IARC's Estimate of Melanoma Risk from Sunbed use in Young Adults

*David Hoel**

Tuesday, June 26, 2012: Indoor Tanning: Previously Unasked Questions - 1:15-3:15

02:00-02:15

Indoor Tanning Equipment 2012 Versus 1992: Improved Salon Controls That Changed an Industry

*Greg Henson**

Tuesday, June 26, 2012: Indoor Tanning: Previously Unasked Questions - 1:15-3:15

01:30-01:45

Indoor Tanning Salon Operation and Management 2012 versus 1992: Improved Salon Controls That Changed an Industry

*Rob Quinn**

Tuesday, June 26, 2012: Indoor Tanning: Previously Unasked Questions - 1:15-3:15

01:45-02:00

Use of occupation to determine role of solar UVB in reducing risk of cancer in Nordic countries

*William Grant**

Tuesday, June 26, 2012: Indoor Tanning: Previously Unasked Questions - 1:15-3:15

02:45-03:00

Variation in Pre-Vitamin D3 Effective Irradiance of UV Tanning Devices

John C. Dowdy, Robert M. Sayre, James G. Shepherd*

Tuesday, June 26, 2012: Indoor Tanning: Previously Unasked Questions - 1:15-3:15

02:15-02:30

[^Top](#)

KCS Symposium/Innovations

Direct Visualization and Characterization of the Bone Marrow Hematopoietic Stem cell Niche In Vivo

*Charles Lin**

Sunday, June 24, 2012: Kendric C. Smith Symposium: Emerging Light Technologies (Magnetomotive Imaging; Optogenetics; & Imaging Stem Cell Niche) - 9:00-10:30

09:55-10:15

Magnetomotive Molecular Probes for Targeted Contrast Enhancement, Elastography, and Therapy

*Stephen Boppart**

Sunday, June 24, 2012: Kendric C. Smith Symposium: Emerging Light Technologies (Magnetomotive Imaging; Optogenetics; & Imaging Stem Cell Niche) - 9:00-10:30

09:15-09:35

Optogenetics: Elucidating and Treating Neural Circuit Dysfunction with Light

*Brian Chow**

Sunday, June 24, 2012: Kendric C. Smith Symposium: Emerging Light Technologies (Magnetomotive Imaging; Optogenetics; & Imaging Stem Cell Niche) - 9:00-10:30

09:35-09:55

Photochemical Internalization. From Bench To Bedside With A Novel Technology For Site-Specific Drug Delivery

Kristian Berg, Anette Weyergang, Ole-Jacob Norum, Colin Hopper, Michael G. Rosenblum, Anders Høgset, Pål K. Selbo*

Wednesday, June 27, 2012: Kendric C Smith Innovation Lecture: Photochemical Internalization - 8:30-9:30

08:40-09:30

[^Top](#)

Light Effects in Dermatology

Advances in OCT Imaging of Skin

*Benjamin Vakoc**

Wednesday, June 27, 2012: Light Effects in Dermatology - 11:00-1:00

12:12-12:30

Dermoscopic, Histological and Immunohistochemical Evaluation of Cancerous Features in Acquired Melanocytic Nevi that have been Repeatedly Exposed to UVA or UVB

Piериgiamо Calzavara-Pinton, Marina Venturini, Maria Teresa Rossi, Raffaella Sala*

Wednesday, June 27, 2012: Light Effects in Dermatology - 11:00-1:00

12:50-01:00

Effects of Blue Light Irradiation on Human Dermal Fibroblasts

*Christian Opländer**, *Frauke Werners*, *Leonie Taflinski Taflinski*, *Matthias Born*, *Norbert Pallua*, *Christoph V. Suschek*

Wednesday, June 27, 2012: Light Effects in Dermatology - 11:00-1:00

12:30-12:40

Lasers in Dermatology

*Fernanda H. Sakamoto**, *Apostolos G. Doukas*, *William A. Farinelli*, *Zeina Tannous*, *Michelle Shinn*, *Steve Benson*, *Gwyn P. Williams*, *Joseph F. Gubeli III*, *H. Frederick Dylla*, *R. Rox Anderson*, *William F. Lewis*

Wednesday, June 27, 2012: Light Effects in Dermatology - 11:00-1:00

11:36-11:54

Perspectives of off label MAL-PDT

*Piergiacomo Calzavara-Pinton**, *Marina Venturini*, *Raffaella Sala*, *Maria Teresa Rossi*

Wednesday, June 27, 2012: Light Effects in Dermatology - 11:00-1:00

11:54-12:12

Phototherapy - Decline or Revival

*Bernhard Ortel**

Wednesday, June 27, 2012: Light Effects in Dermatology - 11:00-1:00

11:00-11:18

Photoimmunology in the Age of Biologics

*Stefan Beissert**

Wednesday, June 27, 2012: Light Effects in Dermatology - 11:00-1:00

11:18-11:36

Skin Tumors Induced by Narrowband UVB Have Higher Frequency of p53 Mutations than Tumors Induced by Broadband UVB Independent of the Ogg1 Genotype

*Flandiana Yogianti**, *Makoto Kunisada*, *Ryusuke Ono*, *Kunihiko Sakumi*, *Yusaku Nakabeppu*, *Chikako Nishigori*

Wednesday, June 27, 2012: Light Effects in Dermatology - 11:00-1:00

12:40-12:50

[^Top](#)

Low Level Light Therapy

Light Interaction With the Peripheral Nervous System: In Vivo and In Vitro Models of Nerve Injury and Neuropathic Pain

*Juanita Anders**

Sunday, June 24, 2012: Low Level Light Therapy - 2:00-3:30

02:20-02:40

LLLT Skin Preconditioning: Preliminary Results in a Porcine Model

*Daniel Barolet**

Sunday, June 24, 2012: Low Level Light Therapy - 2:00-3:30

02:40-03:00

Mechanisms of Action of Transcranial Laser Therapy for Traumatic Brain Injury and Beyond

*Michael Hamblin**, *Weijun Xuan*, *Liyi Huang*, *Takahiro Ando*, *Qiuhe Wu*

Sunday, June 24, 2012: Low Level Light Therapy - 2:00-3:30

02:00-02:20

Optical Monitoring of the Immediate LLLT Biochemical Effects Using Cytochrome C as Target in ex vivo Model Systems

*Lothar Lilge**, *Daniel Huynh*, *Li Qian*

Sunday, June 24, 2012: Low Level Light Therapy - 2:00-3:30

03:00-03:20

[^Top](#)

Mechanisms of Mutagenesis

Effect of Methylation, Sequence Context, Protein Binding, and Nucleosome Position on DNA Cyclobutane Pyrimidine Dimer Formation and Deamination that Leads to C to T Mutations

Qian Song, *Vincent Cannistraro*, *John-Stephen Taylor**

Sunday, June 24, 2012: Mechanisms of Mutagenesis - 4:00-5:30

05:00-05:30

Nuclear Analysis of Translesion DNA Synthesis Across UV-Light DNA Damage in Human Cells

Sigal Shchar, *Gilad Landan*, *Shira Amram*, *Amos Tanay*, *Zvi Livneh**

Sunday, June 24, 2012: Mechanisms of Mutagenesis - 4:00-5:30

04:30-05:00

UVB-Induced Mutagenesis

*Gerd Pfeifer**

Sunday, June 24, 2012: Mechanisms of Mutagenesis - 4:00-5:30
04:00-04:30

[^Top](#)

Mechanisms of Cell Death

Apoptosis and Autophagy in the Death of Cancer Cells from Photodynamic Therapy

*Nancy Oleinick**

Sunday, June 24, 2012: Mechanisms of Cell Death - 11:00-12:30
11:00-11:15

Cell Death Pathways after Lysosomal Photodamage

David Kessel, John J. Reiners, Jr*

Sunday, June 24, 2012: Mechanisms of Cell Death - 11:00-12:30
11:15-11:30

Mitochondrial Iron Uptake Through Mitoferrin2 Sensitizes Human Head and Neck Cancer Cells to Photodynamic Therapy

*Hsin-I Hung, Justin Schwartz, Eduardo Maldonado, John Lemasters, Anna-Liisa Nieminen**

Sunday, June 24, 2012: Mechanisms of Cell Death - 11:00-12:30
11:30-11:45

Unraveling the Role of the Autophagic Adaptors p62/SQSTM1 and NBR1 in the Activation of Autophagic Pathways After Hypericin-Sensitized Photodynamic Stress

Noemi Rubio, Julien Verrax, Michael Dewaele, Jacques Piette, Patrizia Agostinis*

Sunday, June 24, 2012: Mechanisms of Cell Death - 11:00-12:30
11:45-12:00

[^Top](#)

Microenvironment and Protein Kinase Signaling in PDT

5-ALA-PDT Induces RIP3-Dependent Necrosis in Glioblastoma

Jacques Piette, Isabelle Coupienne, Noemi Rubio, Gregory Fettweis, Patrizia Agostinis*

Monday, June 25, 2012: Microenvironment and Protein Kinase Signaling in Photobiology - 2:15-4:15
03:17-03:36

Combination of Vascular-Targeted Photodynamic Therapy (VTP) with Bortezomib Enhances Endothelial Cell (SVEC) Response to Photodynamic Therapy

Zhuzhu Li, BEN CHEN*

Monday, June 25, 2012: Microenvironment and Protein Kinase Signaling in Photobiology - 2:15-4:15
03:55-04:14

Modulating Photodynamic Therapy Responsiveness by Targeting the Tumor Microenvironment

Charles Gomer, Angela Ferrario, Marian Luna, Sam Wong, Natalie Rucker*

Monday, June 25, 2012: Microenvironment and Protein Kinase Signaling in Photobiology - 2:15-4:15
02:58-03:17

Signaling Events Associated with Stress Upregulation of Cytoprotective Nitric Oxide Synthase in a Photodynamic Therapy Model

*Reshma Bhowmick, Albert Girotti**

Monday, June 25, 2012: Microenvironment and Protein Kinase Signaling in Photobiology - 2:15-4:15
03:36-03:55

Targeted PDT Combination Therapies with Receptor Tyrosine Kinases Inhibitors

Lawrence Mensah, Imran Rizvi, Bryan Sears, Shifalika Tangutoori, Tayyaba Hasan*

Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Targeting of Cancer Stem Cells by Photochemical Internalization

Pål Selbo, Monica Bostad, Marius Eng, Svein Angel, Anette Weyergang, Anders Høgset, Kristian Berg*

Monday, June 25, 2012: Microenvironment and Protein Kinase Signaling in Photobiology - 2:15-4:15
02:39-02:58

Vascular Microenvironment: How and Why It Can Change Response to Photodynamic Therapy

Theresa Busch, Amanda Maas, Rickson Mesquita, Shannon Gallagher-Colombo*

Monday, June 25, 2012: Microenvironment and Protein Kinase Signaling in Photobiology - 2:15-4:15
02:15-02:39

[^Top](#)

Modulation of Cellular Responses to PDT

A Pilot Study of Phototoxic Protein KillerRed as Genetically Encoded Photosensitizer for PDT

*Marina Shirmanova**, *Ekaterina Serebrovskaya*, *Ludmila Snopova*, *Marina Sirotkina*, *Ilya Turchin*, *Vladislav Kamensky*, *Marina Bugrova*, *Konstantin Lukyanov*, *Sergey Lukyanov*, *Elena Zagaynova*

Tuesday, June 26, 2012: Modulation of Cellular Responses in PDT - 1:15-3:15

02:55-03:05

Cellular Modulation in Photodynamic Therapy

*Robert Bissonnette**

Tuesday, June 26, 2012: Modulation of Cellular Responses in PDT - 1:15-3:15

01:15-01:35

Enhanced Tumor Cell Death by Combination of 5-Fluorouracil with Aminolevulinic Acid-Based Photodynamic Therapy Involves the p53-MDM2 pathway in murine tumors

*Sanjay Anand**, *Nikoleta Brankov*, *Kishore Rollakanti*, *Tayyaba Hasan*, *Edward Maytin*

Tuesday, June 26, 2012: Modulation of Cellular Responses in PDT - 1:15-3:15

02:35-02:55

Enhancement of Topical PDT using Temperature Modifications and Other Physical Methods

*Asta Juzeniene**, *Johan Moan*

Tuesday, June 26, 2012: Modulation of Cellular Responses in PDT - 1:15-3:15

02:15-02:35

Role of Survivin and HSP-90 in Cellular Responses to PDT

*Charles Gomer**, *Marian Luna*, *Angela Ferrario*

Tuesday, June 26, 2012: Modulation of Cellular Responses in PDT - 1:15-3:15

01:55-02:15

Use of Vitamin D and Other Small Molecules to Enhance PDT Outcome

*Edward Maytin**

Tuesday, June 26, 2012: Modulation of Cellular Responses in PDT - 1:15-3:15

01:35-01:55

[^Top](#)

Nanotechnology (ASP/ESP)

In Vivo Near Infrared Fluorescence Imaging of Efficient Systemic siRNA Delivery with HDL-Mimicking Peptide Lipid Nanoparticles

*Qiaoya Lin**, *Juan Chen*, *Zhihong Zhang*, *Gang Zheng*

Sunday, June 24, 2012: ASP/ESP Joint Symposium: Nanotechnology - Part II - 2:00-3:30

03:00-03:10

Investigating the Delivery of m-THPC Incorporated in Pegylated PLGA Nanoparticles for In Vivo PDT

*Melissa Bovis**, *Josephine Woodhams*, *Matija Rojnik*, *Petra Kocbek*, *Janko Kos*, *Marilena Loizidou*, *Stephen Bown*, *Alexander*

Sunday, June 24, 2012: ASP/ESP Joint Symposium: Nanotechnology - Part II - 2:00-3:30

02:40-02:50

Multifunctional Nanoparticles for Vascular-Targeted Interstitial Photodynamic Therapy of Brain Tumors Guided by Real-Time MRI

*Céline Frochet**, *Vanderesse Régis*, *Tillement Olivier*, *Mordon Serge*, *Bastogne Thierry*, *Barberi-Heyob Muriel*

Sunday, June 24, 2012: ASP/ESP Joint Symposium: Nanotechnology - Part I - 11:00-12:30

11:40-12:00

Nanocrystals as tunable Platforms for Chemical Reactions and Biological Imaging

*Hedi Mattoussi**

Sunday, June 24, 2012: ASP/ESP Joint Symposium: Nanotechnology - Part II - 2:00-3:30

02:20-02:40

Nanoparticles Enhance Sensitivity of Cancer Cells to Radiation

*Petras Juzenas**, *Andrius Kleinauskas*, *Wei Chen*, *Ya-Ping Sun*, *Manuel Coelho*

Sunday, June 24, 2012: ASP/ESP Joint Symposium: Nanotechnology - Part II - 2:00-3:30

03:10-03:20

Plasmonic Biomaterials for Drug Delivery and Laser Tissue Welding

*Huang-Chiao Huang**, *Alisha Nanda*, *Candace Rae Walker*, *Kaushal Rege*

Sunday, June 24, 2012: ASP/ESP Joint Symposium: Nanotechnology - Part II - 2:00-3:30

02:00-02:20

Porphysome Nanotechnology: A New Paradigm to Detect, Decide and Destroy Cancer

*Gang Zheng**

Sunday, June 24, 2012: ASP/ESP Joint Symposium: Nanotechnology - Part I - 11:00-12:30
11:00-11:20

Porphysomes: Intrinsically Multifunctional Nanovesicles for Photothermal Therapy

Cheng Jin, Jonathan F. Lovell, Gang Zheng*

Sunday, June 24, 2012: ASP/ESP Joint Symposium: Nanotechnology - Part I - 11:00-12:30
12:10-12:20

Porphysomes: Multifunctional Nanovesicles to Treat Hypoxic Tumour by Photothermal Therapy

Cheng Jin, Jonathan F. Lovell, Gang Zheng*

Sunday, June 24, 2012: ASP/ESP Joint Symposium: Nanotechnology - Part II - 2:00-3:30
02:50-03:00

Targeted Photodynamic Cancer Therapy using Bio-Functionalised Nanoparticles

David Russell, Girgis Obaid, Tanya Stuchinskaya*

Sunday, June 24, 2012: ASP/ESP Joint Symposium: Nanotechnology - Part I - 11:00-12:30
11:20-11:40

Using Nanotechnology for Multi-Compartmentalized Delivery of Photosensitizer and c-Met Inhibitor to Enhance Treatment of Cancer

R Bryan Sears, Lei Zheng, Tayyaba Hasan*

Sunday, June 24, 2012: ASP/ESP Joint Symposium: Nanotechnology - Part I - 11:00-12:30
12:00-12:10

[^Top](#)

New Investigator Award Lecture

Imaging Chemistry at the Single Molecule Level

*Gonzalo Cosa**

Tuesday, June 26, 2012: New Investigator Award Lecture - 8:30-9:30
08:40-09:30

[^Top](#)

Offered Papers

A Multi-Targeting Approach to Effectively Treat Pancreatic Cancer Using Nanotechnology-based Combination Therapy

Lei Z. Zheng, R Bryan Sears, Bryan Q. Spring, Tayyaba Hasan*

Tuesday, June 26, 2012: PDT - Offered Papers - 03:45-05:45
04:15-04:25

Agents Intended for Optimizing PpIX Synthesis in ALA-PDT of Tumors may Expand Tumor Populations with Inherent Resistance to Cancer Therapies

Janet Morgan, Nadine Pershyn, Nathalie Zeitouni*

Tuesday, June 26, 2012: PDT - Offered Papers - 03:45-05:45
05:5-05:15

An Unexpected Source of Skin Cell Photo-Oxidative Stress: Pyruvate and Methylglyoxal, Glycolytic Metabolites Containing an A-Dicarbonyl-Chromophore, are UVA-Photosensitizers

*Shuxi Qiao, Sarah D. Lamore, Jessica L. Lesson, Georg T. Wondrak**

Tuesday, June 26, 2012: Photobiology and Environmental Photobiology - Offered Papers - 01:15-03:15
03:05-03:15

Analysis of Fluorescence Delivery Differences Between Epidermal Growth Factor (EGFR) Targeted Affibodies and Cetuximab (EGFR Targeted Antibody) in Murine Orthotopic Glioma Model with Implications for Fluorescence Guided Surgery

Kristian Sexton, Kim Samkoe, Kenneth Tichauer, Brian Pogue*

Monday, June 25, 2012: Photomedicine and Photoimmunology - Offered Papers - 11:00-1:00
12:40-12:50

Biological Effects of Polychromatic Light: Compound Dose Response Functions for Cellular Survival

*John Sutherland**

Tuesday, June 26, 2012: Photobiology and Environmental Photobiology - Offered Papers - 01:15-03:15
01:15-01:25

Cellular Versus Vascular-Targeted PDT for Colon, Lung and Melanoma Tumors using Photostable Sulfonamide Bacteriochlorins

Janusz Dabrowski, Martyna Krzykawska, Luis Rocha, Krystyna Urbanska, Mariette Pereira, Grazyna Stochel, Luis G. Arnaut*

Tuesday, June 26, 2012: PDT - Offered Papers - 03:45-05:45
04:05-04:15

Changes in Sun Exposure from Before to after a Diagnosis of Cutaneous Malignant Melanoma: Estimated by Developments in Serum Vitamin D, Skin Pigmentation and Interviews

Luise Winkel Idorn, Peter Alshede Philipsen, Hans Christian Wulf*

Monday, June 25, 2012: Photomedicine and Photoimmunology - Offered Papers - 11:00-1:00

11:20-11:30

Characterization and Spectroscopic Properties of a Fluorogenic Ubiquinone/Ubiquinol Probe

Lana Greene, Katerina Krumova, Gonzalo Cosa*

Wednesday, June 27, 2012: Photochemistry - Offered Papers - 11:00-01:00

11:20-11:30

Cytoprotective and Pro-growth Effects of Stress-induced Nitric Oxide in a Prostate Cancer Photodynamic Therapy Model

Reshma Bhowmick, Albert Girotti*

Tuesday, June 26, 2012: PDT - Offered Papers - 03:45-05:45

04:45-04:55

Development of Folate-Targeted Protein-Based Photodynamic Therapy Agents

Ken Olsen, Rojenia Jones, Marco Palomo, Muhammed Khan, Laura Donahue, Andrew Canning, Rachel Kooistra, David Crumrine, Eric Schroeter, Stefan Kanzok*

Tuesday, June 26, 2012: PDT - Offered Papers - 03:45-05:45

04:35-04:45

Effect of Solar Radiation on Photosynthesis and Pigments in the Cyanobacterium, *Lyngbya Majuscula*

*Joseph Nana Annan**

Tuesday, June 26, 2012: Photobiology and Environmental Photobiology - Offered Papers - 01:15-03:15

02:25-02:35

Effect of Supernatants from UV-Irradiated Epidermal Cells on Mycobacterium Bovis BCG Vaccination in Guinea Pigs

Amminikutty Jeevan, Cathryn Formichella, Vijaya R. Dirisala*

Tuesday, June 26, 2012: Photobiology and Environmental Photobiology - Offered Papers - 01:15-03:15

02:15-02:25

Hypericin as a Theranostic Agent for Malignant Brain Tumor

Kyuha Chong, Kyungsun Choi, Junghwa Cha, Eun Chun Han, Taeyun Ku, Jonghee Yoon, Jungsul Lee, Ji Ho Park, Chulhee Choi*

Tuesday, June 26, 2012: PDT - Offered Papers - 03:45-05:45

05:35-05:45

Induction of Anti-Tumor Immune Response after PDT with Sulfonamide Bacteriochlorins

Luis Arnaut, Luis Rocha, Janusz Dabrowski, Mariette Pereira, Raquel Saavedra*

Tuesday, June 26, 2012: PDT - Offered Papers - 03:45-05:45

03:55-04:05

Longwave ultraviolet light (UVA) accelerates intrinsic aging by inducing progerin and by impairing shape and function of nuclear membranes.

*Thomas M. Ruenger, Hirotaka Takeuchi**

Tuesday, June 26, 2012: Photobiology and Environmental Photobiology - Offered Papers - 01:15-03:15

02:35-02:45

Mast Cell-Dependent Neonatal Immune Tolerance and UV Melanoma

*Heather Poetschke-Klug, Jesse Bahn, M. Raza Zaidi, Miriam Anver, Agnieszka Wolnicka-Glubisz, Jesse Damsker, Stephanie Constant, Glenn Merlino, Edward De Fabo, Frances Noonan**

Monday, June 25, 2012: Photomedicine and Photoimmunology - Offered Papers - 11:00-1:00

11:30-11:40

Measurement Of Light Exposure On The Retina For Photobiological Applications

Tongsheng Mou, Liyan Song, Jianping Wang*

Tuesday, June 26, 2012: Photobiology and Environmental Photobiology - Offered Papers - 01:15-03:15

01:55-02:05

Mechanism of Light-Induced Dimerization in Neurospora LOV Protein Vivid

Anand Vaidya, Chen-Hui Chen, Jay Dunlap, Jennifer Loros, Brian Crane*

Wednesday, June 27, 2012: Photochemistry - Offered Papers - 11:00-01:00

12:00-12:10

Paradoxical Potentiation of Antimicrobial Photoinactivation by Sodium Azide using Seven Phenothiazinium Photosensitizers

Kamola Kasimova, Liyi Huang, Andrzej Zadlo, Tadeusz Sama, Rasul Sadykov, Michael R. Hamblin*

Tuesday, June 26, 2012: PDT - Offered Papers - 03:45-05:45

03:45-03:55

Potential for Using Sensitizer-free Photodynamic Treatment to Inhibit Phototrophic Biofilms on Historic Monuments

Paul Hsieh, Jens, Z. Pedersen, Patrizia Albertano*

Tuesday, June 26, 2012: Photobiology and Environmental Photobiology - Offered Papers - 01:15-03:15

01:45-01:55

Potential Risk of Beta-Carotene Supplementation as a Mean to Reduce Skin Cancer Incidence

*Homer Black**

Monday, June 25, 2012: Photomedicine and Photoimmunology - Offered Papers - 11:00-1:00

11:10-11:20

Pharmacologically Antagonising the CXCR4-CXCL12 Chemokine Pathway with AMD3100 Inhibits Sunlight-induced Skin Tumour Formation

Scott Byrne, Seri Sarchio, Gary Halliday*

Monday, June 25, 2012: Photomedicine and Photoimmunology - Offered Papers - 11:00-1:00

11:00-11:10

Photochemical Crosslinking Stabilizes Protein Hydrogels for Cartilage Regeneration

Mark Omobono, Mark Randolph, Xing Zhao, Robert Redmond*

Wednesday, June 27, 2012: Photochemistry - Offered Papers - 11:00-01:00

11:30-11:40

Photochemistry of 4 Nitrofluorathene Isomers

Salvador Gavaldá Corchado, Rafael Arce Quintero*

Wednesday, June 27, 2012: Photochemistry - Offered Papers - 11:00-01:00

11:40-11:50

Photo-Crosslinking Corneal Collagen to Treat Keratoconus

Irene Kochevar, Eri Verter, Daniel Cherfan, Thomas Gisel, Robert Redmond, Samir Melki*

Wednesday, June 27, 2012: Photochemistry - Offered Papers - 11:00-01:00

11:50-12:00

Photodegradation of all-trans-Retinal Explains the Action Spectra of Acute Photodamage to the Retina

Malgorzata Rozanowska, Anna Pawlak, Bartosz Rozanowski*

Monday, June 25, 2012: Photomedicine and Photoimmunology - Offered Papers - 11:00-1:00

12:30-12:40

Photodynamic action of Anthraquinone at Ambient UV-R: A Mechanistic Study

Syed Faiz Mujtaba, Ashish Dwivedi, Neera Yadav, Ratan Singh Ray*

Wednesday, June 27, 2012: Photochemistry - Offered Papers - 11:00-01:00

12:40-12:50

Rational Design and Synthesis of Phthalocyanines for Photodynamic Therapy

Fabienne Dumoulin, Vefa Ahsen*

Tuesday, June 26, 2012: PDT - Offered Papers - 03:45-05:45

04:55-05:05

Role of Mitochondrial ROS in the Spatio-Temporal Autophagic Degradation of Oxidatively Damaged Organelles After Endoplasmic Reticulum-Initiated Photodynamic Stress

Noemi Rubio, Isabelle Coupienne, Emmanuel Di Valentin, Ingeborg Heirman, Johan Grooten, Jacques Piette, Patrizia Agostinis*

Tuesday, June 26, 2012: Photobiology and Environmental Photobiology - Offered Papers - 01:15-03:15

01:35-01:45

Role of PDT-Mediated Disruption of Autophagy in the Efficacy of Treatment of NVP-BEZ235-Resistant Cells

Babasola Fateye, Bin Chen*

Tuesday, June 26, 2012: PDT - Offered Papers - 03:45-05:45

05:25-05:35

Shedding some Light on the Binding of Fluoroquinolones to Proteins: Importance of Inner Filter Effect in Fluorescence Quenching Studies.

*Francisco Bosca**

Wednesday, June 27, 2012: Photochemistry - Offered Papers - 11:00-01:00

12:20-12:30

Sunscreens Tested Outdoors in The 1980s and 2011

Robert M. Sayre, Dennis L. Lott, John C. Dowdy, Sherriel Wallace*

Monday, June 25, 2012: Photomedicine and Photoimmunology - Offered Papers - 11:00-1:00

12:50-01:00

The ICH S10 DRAFT Guidance on Photosafety Evaluation of Pharmaceuticals: Potential Changes in Photosafety Testing

Douglas Learn, Mary Dougherty, Shawna Jackman, Alan Hoberman*

Monday, June 25, 2012: Photomedicine and Photoimmunology - Offered Papers - 11:00-1:00

12:10-12:20

Transformer Materials for Dynamic UV Protection

René Scheurich, Thomas Rudolph, Junyou Pan*

Wednesday, June 27, 2012: Photochemistry - Offered Papers - 11:00-01:00

11:10-11:20

Two UV Pathways to Melanoma

*Frances Noonan, M. Raza Zaidi, Agnieszka Wolnicka-Glubisz, Miriam Anver, Jesse Bahn, Albert Wielgus, Jean Cadet, Thierry Douki, Stephane Mauret, Margaret Tucker, Anastas Popratiloff, Glenn Merlino, Edward De Fabo**

Monday, June 25, 2012: Photomedicine and Photoimmunology - Offered Papers - 11:00-1:00

11:40-11:50

Ultraviolet Radiation and Oral Cancer Incidences in the United States.

Dianne Godar, Eli Shindell, Rong Tang*

Monday, June 25, 2012: Photomedicine and Photoimmunology - Offered Papers - 11:00-1:00

12:00-12:10

Ultraviolet Radiation Reflection in the Built Environment: Relating Surface Orientation and Season

Joanna Turner, Alfio V Parisi*

Tuesday, June 26, 2012: Photobiology and Environmental Photobiology - Offered Papers - 01:15-03:15

02:05-02:15

UV Radiation Regulates Grape Quality in New Zealand Sauvignon Blanc

James Shinkle, Jason Wargent, Scott Gregan, Linlin Liu, Rainer Hofmann, Chris Winefield, Mike Trought, Brian Jordan*

Tuesday, June 26, 2012: Photobiology and Environmental Photobiology - Offered Papers - 01:15-03:15

02:55-03:05

UVA-Induced Dynamics in Sulfur-Substituted Nucleosides

Carlos Crespo, Christian Reichardt, Cao Guo*

Wednesday, June 27, 2012: Photochemistry - Offered Papers - 11:00-01:00

11:00-11:10

UVB Exposures Can Increase Risks for Oral Cancers.

Dianne Godar, Eli Shindell, Larissa Baeva, Fredrick Jordan, Joyce Breger*

Monday, June 25, 2012: Photomedicine and Photoimmunology - Offered Papers - 11:00-1:00

11:50-12:00

Vascular and Cellular Damage Photoinduced in Chorioallantoic Membrane Model by Foslip® and Fospeg® : Influence of mTHPC Release from Liposomes

Julie Garrier, Vadzim Reshetov, Aurélie François, Susanna Gräfe, Vasco Filipe, Wim Jiskoot, François Guillemin, Vladimir Zorin, Lina Bezdetsnaya*

Tuesday, June 26, 2012: PDT - Offered Papers - 03:45-05:45

05:5-05:25

[^Top](#)

Optical Dosimetry

A Clinical Study Evaluating Singlet Oxygen Luminescence and Photosensitizer Fluorescence as Predictors in ALA-PDT Treatment

Srivalleesha Mallidi, Sriram Anbil, Seonkyung Lee, Stefan Elrington, Sarika Verma, Bryan Spring, Steven Davis, Dieter Manstein, Tayyaba Hasan*

Wednesday, June 27, 2012: Optical Dosimetry - 11:00-1:00

12:20-12:30

A Multi-Source Spectroscopic Fluorescence Probe System for PDT Dosimetry of BPD and PPIX

Scott Davis, Martin Isabelle, Brian Pogue*

Wednesday, June 27, 2012: Optical Dosimetry - 11:00-1:00

12:40-12:50

Metronomic Photodynamic Therapy in Mouse Brain Tumors Using Organic Light Emitting Diode

*Han-Wen Guo, Liang-Ting Lin, Yi-Jang Lee, Meng-Huan Ho, Wan-Ting Huang, Shih-Hwa Chiou, Hsing-Wen Wang**

Wednesday, June 27, 2012: Optical Dosimetry - 11:00-1:00

12:30-12:40

Optical Dosimetry and Spectroscopy in Clinical Intraoperative PDT

*Jarod Finlay**

Wednesday, June 27, 2012: Optical Dosimetry - 11:00-1:00

11:00-11:20

Photodynamic Therapy Light Dose Verification

Michael Jermyn, Brian Pogue, Hamid Dehghani, Matthew Huggett, Stephen Pereira, Tayyaba Hasan*

Wednesday, June 27, 2012: Optical Dosimetry - 11:00-1:00

12:50-01:00

Singlet Oxygen: The Scarlet Pimpernel of PDT Dosimetry

*Brian Wilson**

Wednesday, June 27, 2012: Optical Dosimetry - 11:00-1:00

12:00-12:20

The Role of PDT Dosimetry in Clinical Decision Making

*Dominic Robinson**

Wednesday, June 27, 2012: Optical Dosimetry - 11:00-1:00
11:40-12:00

Towards Quantitative Fluorescence Spectroscopy in Localized Tissue Volumes for Photodynamic Therapy Dosimetry: Correction for Scattering and Absorption Effects

Stephen Kanick, Scott Davis, Martin Isabelle, Henricus Sterenberg, Arjen Amelink, Dominic Robinson, Brian Pogue*

Wednesday, June 27, 2012: Optical Dosimetry - 11:00-1:00
11:20-11:40

[^Top](#)

Optogenetics/Biotechnological Applications

Conditional Control of Protein Activity Using Optical Dimerizers

*Chandra Tucker**

Sunday, June 24, 2012: Optogenetics and Biotechnological Applications of Biological Photoreceptors - 11:00-12:45
12:15-12:30

Designing Light-Dependent Molecular Tools to Study Cytoskeletal Dynamics and Regulation

Jason Yi, Klaus Hahn*

Sunday, June 24, 2012: Optogenetics and Biotechnological Applications of Biological Photoreceptors - 11:00-12:45
12:30-12:45

Development and Optimization of LOV-Based Photosensors

*Kevin Gardner**

Sunday, June 24, 2012: Optogenetics and Biotechnological Applications of Biological Photoreceptors - 11:00-12:45
11:35-11:55

Microbial Photoreceptors - Essentials for Bacterial Lifestyle and Trendy Applications

*Wolfgang Gaertner**

Sunday, June 24, 2012: Optogenetics and Biotechnological Applications of Biological Photoreceptors - 11:00-12:45
11:00-11:15

Optogenetics: Tools for Controlling Neural Circuits

Yongku Cho, Edward*

Sunday, June 24, 2012: Optogenetics and Biotechnological Applications of Biological Photoreceptors - 11:00-12:45
11:55-12:15

Synthetic, Bacteriophytochrome-Based Photoregulatory Systems

*Min-Hyung Ryu, Jessica Siltberg-Liberles, Mark Gomelsky**

Sunday, June 24, 2012: Optogenetics and Biotechnological Applications of Biological Photoreceptors - 11:00-12:45
11:15-11:35

[^Top](#)

Oxygen Effects and New Optical Probes

Imaging and Treating Hypoxic Tumor Cell Populations

*Conor Evans**

Monday, June 25, 2012: Oxygen Effects and New Optical Probes - 11:00-1:00
12:25-12:45

Phosphorescence Quenching Technology for Oxygen Imaging

*Sergei Vinogradov**

Monday, June 25, 2012: Oxygen Effects and New Optical Probes - 11:00-1:00
11:05-11:25

Singlet Oxygen in Mammalian Cells: Controlling its Photosensitized Production and Monitoring its Removal

*Peter R. Ogilby**

Monday, June 25, 2012: Oxygen Effects and New Optical Probes - 11:00-1:00
12:05-12:25

Three-Dimensional Imaging of Microvascular Oxygen Tension during Stroke

Andrew Dunn, Shams Kazmi, Anthony Salvasaggio*

Monday, June 25, 2012: Oxygen Effects and New Optical Probes - 11:00-1:00
11:45-12:05

[^Top](#)

Photophysics and Photochemistry

Generating Singlet Oxygen Bubbles: Aiming for PDT and Wound Disinfection Application

*Dorota Bartusik, David Aebisher, BiBi Ghafari, Alan Lyons, Alexander Greer**

Wednesday, June 27, 2012: Photoinduced Phenomena in Chemistry and Physics - 11:00-1:00

12:00-12:15

Luminescence Enhancement of Singlet Oxygen in an Aqueous Environment: Effects of Surface Plasmons of Gold Nanoparticles

Beate Roeder, Tobias Bornhuetter, Robert Fenger, Klaus Rademann, Volkhard May*

Wednesday, June 27, 2012: Photoinduced Phenomena in Chemistry and Physics - 11:00-1:00

11:00-11:20

Radicals and Photocages

*Anna Gudmundsdottir**

Wednesday, June 27, 2012: Photoinduced Phenomena in Chemistry and Physics - 11:00-1:00

11:40-12:00

Singlet Oxygen Luminescence Originating from Polymeric Matrices

Ariane Felgenträger, Johannes Regensburger, Tim Maisch, Lisa De Jonge, Wolfgang Bäumlter*

Wednesday, June 27, 2012: Photoinduced Phenomena in Chemistry and Physics - 11:00-1:00

12:30-12:45

The Use of Ultrafast Quenching Phenomena in Biomedical Optics

*Norbert Lange**

Wednesday, June 27, 2012: Photoinduced Phenomena in Chemistry and Physics - 11:00-1:00

12:15-12:30

Ultrafast Excited-State Dynamics in Biological Environments

Eric Vauthey, Alexandre Fürstenberg, Oksana Kel*

Wednesday, June 27, 2012: Photoinduced Phenomena in Chemistry and Physics - 11:00-1:00

11:20-11:40

[^Top](#)

Photochemical Inactivation of Pathogens

Cutaneous Leishmaniasis - An Attractive Target for Photodynamic Therapy

*Claes D. Enk**

Monday, June 25, 2012: Photochemical Inactivation of Pathogens - Medical and Environmental Applications - 2:15-4:15

03:15-03:45

Development of Photodynamic Therapy for Parasitic Filarial Nematodes

Jeremy Foster, Ulysses Sallum, Barton Statko, Tayyaba Hasan*

Monday, June 25, 2012: Photochemical Inactivation of Pathogens - Medical and Environmental Applications - 2:15-4:15

02:15-02:45

Photodynamic Control of Malaria and Schistosomiasis Vectors In Infested Africa Swamps. Mahmoud H. Abdel-Kader Faculty of Pharmacy and Biotechnology, German University in Cairo, New Cairo City, Egypt

*Mahmoud Abdelkader**

Monday, June 25, 2012: Photochemical Inactivation of Pathogens - Medical and Environmental Applications - 2:15-4:15

03:45-04:15

Photodynamic Processes as a Tool for the Prevention and Control of Vector-Borne Diseases

*Giulio Jori**

Monday, June 25, 2012: Photochemical Inactivation of Pathogens - Medical and Environmental Applications - 2:15-4:15

02:45-03:15

[^Top](#)

Photoimmunology and PDT-Induced Immunology

Detecting PDT-Induced Immune Response by Real-Time FDG-PET in a Mouse Tumor Model

Nicole Cauchon, Eric Turcotte, Roger Lecomte, Haroutioun M. Hasséssian, Johan E. van Lier*

Monday, June 25, 2012: Photoimmunology and PDT-Induced Immunology - 8:30-10:30

10:10-10:25

Diverse Effects of UVB-Generated Oxidized Glycerophosphocholine Platelet-Activating Factor Agonists

*Jeffrey Travers**

Monday, June 25, 2012: Photoimmunology and PDT-Induced Immunology - 8:30-10:30

08:30-08:50

How Does Sunlight Protect us from Autoimmune Diseases?

*Scott Byrne**, *Sarah Leighton*, *LaiFong Kok*, *Gary Halliday*

Monday, June 25, 2012: Photoimmunology and PDT-Induced Immunology - 8:30-10:30
08:50-09:10

Photodynamic Therapy and Anti Tumor Immunity

*Sandra Gollnick**, *Craig Brackett*

Monday, June 25, 2012: Photoimmunology and PDT-Induced Immunology - 8:30-10:30
09:50-10:10

Photodynamic Therapy-Induce Immunosuppression in Humans

*Diona Damian**, *Sula Thanos*, *Gary Halliday*

Monday, June 25, 2012: Photoimmunology and PDT-Induced Immunology - 8:30-10:30
09:30-09:50

Platelet Activating Factor, Mast Cells and Immune Suppression

*Stephen Ullrich**

Monday, June 25, 2012: Photoimmunology and PDT-Induced Immunology - 8:30-10:30
09:10-09:30

[^Top](#)

Photobiology of Extremophiles

Overexpression and Functional Characterization of Two Members of the photolyase-Cryptochrome Family from the UV-Resistant Gamma-Proteobacteria, Acinetobacter sp. Ver3

*Virginia Helena Albarracin**, *Gopal Pathak*, *Lorena Valle*, *Claudio Borsarelli*, *Maria Eugenia Farias*, *Wolfgang Gärtner*

Tuesday, June 26, 2012: Photobiology of Extremophiles - 3:45-5:45
05:15-05:45

Photosynthesis in Extreme Environments: Hot, Cold, Salty, Deep and Dark

*Robert Blankenship**

Tuesday, June 26, 2012: Photobiology of Extremophiles - 3:45-5:45
04:45-05:15

Some Might Like it Cold: Antarctic UV Photobiology

*Wade Jeffrey**

Tuesday, June 26, 2012: Photobiology of Extremophiles - 3:45-5:45
03:45-04:15

The Dry Limit of Photosynthesis on Earth and the Possibility of Life on Mars

*Alfonso Davila**, *Carmen Ascaso*, *Jacek Wierzchos*

Tuesday, June 26, 2012: Photobiology of Extremophiles - 3:45-5:45
04:15-04:45

[^Top](#)

Posters

A Biocompatible Polyacrylamide Nanoplatfom That Does It All

*Anurag Gupta**, *Munawwar Sajjad*, *Shouyan Wang*, *Yihui Chen*, *Raoul Kopelman*, *Ravindra K. Pandey*

Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

A 3D Platform to Evaluate Factors Influencing PDT Efficacy and Model Determinants of Tumor Growth

*Sriram Anbil**, *Imran Rizvi*, *Nermina Alagic*, *Jonathan Celli*, *Lei Zheng*, *Akilan Palanisami*, *Michael Glidden III*, *Tayyaba Hasan*

Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

A Rapid Photometric Assay for Simultaneous Determination of Antibiotic Susceptibility and Beta-Lactamase Resistance

*Shazia Khan**, *Ulysses W. Sallum*, *Bryan Sears*, *Xiang Zheng*, *Sarika Verma*, *Gerard J. Nau*, *Tayyaba Hasan*

Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Autocrine Regulation of High-Mobility Group Box 1 in Tumor Angiogenesis and Sustained Photodynamic Efficacy

Judy R van Beijnum, *Patrycja Nowak-Sliwinska**, *Arjan W Griffioen*

Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Anti Thymine Photodimer Formation in Human Telomeric G-Quadruplexes and Putative G-Quadruplex Forming Sequences in Promoter Sequences

Jillian Smith, *John-Stephen Taylor**

Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Assessment of the Tissue Oxygenation in Vivo by Measuring the Luminescence Lifetime of Ru(Phen)₃²⁺ as Poorly Photosensitizing Probe

Veronika Huntosova, Sandrine Gay, Rajendran Senthilkumar, Cedric Paulou, Patrycja Nowak-Sliwinska, Georges Wagnieres*
Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Beyond TMPyP: Derivatives and Analogues with Altered Attachment Properties to Bacterial Cell Walls

Andreas Späth, Wolfgang Bäuml, Tim Maisch, Ariane Felgenträger*
Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Biological Effects of Longwave UVA (UVA-1) on Human Reconstructed Skin

Claire Marionnet, François Lejeune, Cécile Pierrard, Françoise Bernerd*
Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Blue Iridescence in the Tropical Fern *Microsorium thalictroides*

Holly Gorton, Ariana Albano, Carolyn Wetzel*
Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Characterization and Testing of Hemoglobin-Based, Folate-Targeted Photodynamic Therapy Agents

RoJenia Jones, Marco Palomo, Muhammed Khan, Laura Donahue, Andrew Canning, Rachel Kooistra, David Crumine, Eric Schroeter, Stefan Kanzok, Ken Olsen*
Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

CLIC4 Involved in the Decreased Invasion of Cancer Cells Induced by Photodynamic Therapy

Chin-Tin Chen, Pei-Chi Chiang*
Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Correlation of Ophthalmological Observations and Histopathological Findings of Phototoxicity in Preclinical Drug Development

Douglas Learn, Julia Baker, Mary Dougherty, Shawna Jackman, Alan Hoberman*
Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Differential Therapeutic Response and Altered Activation of Cell Death Pathways in 2D Versus 3D Tumor Models

Iqbal Massodi, Jonathan Celli, Imran Rizvi, Tayyaba Hasan*
Sunday, June 24, 2012: Mechanisms of Cell Death - 11:00-12:30

Disulfonated Meso-Tetraphenylporphyrin (TPPS2a) Potentiates the Cytotoxicity of saporin Both as a Monotherapy and in Combination with Mitoxantrone in Breast Cancer Cells

Derick Adigbli, Jason Seebaluck, Marilena Loizidou, Alexander MacRobert*
Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Effect of 830 nm Illumination on Pancreatic Cancer Cells and Fibroblasts

Davy Vanderweyen, Parth Patel, Samuel Elcik, Linda Jones*
Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Effect of Oxygen Stimulation on Dynamic Bioluminescence Pattern on Luminous Colony

Hajime Karatani, Hajimu Kawakami*
Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Effective Elimination of Bio-Hazards using Multifunctional Nanoparticles

Eon Pil Shin, Jing Li, Yong-Rok Kim*
Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Effective Tumor Imaging and Photodynamic Therapy (PDT) via FRET Minimization of Photosensitizer-Fluorophore Conjugates

Nadine James, Penny Joshi, Tymish Ohulchansky, Paras Prasad, Janet Morgan, Ravindra K. Pandey*
Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Effects of Photodynamic Therapy with Hypericin in the Treatment of Induced Periodontal Disease In Vivo. Preliminary Results

Livia Perussi, Sâmara Tfaile, Bruno Segnini, Anderson Ribeiro, Janice Perussi, Rosemary Adriana Marcantonio*
Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Excited-State Dynamics of Folic Acid and 6-Carboxypterin upon UVA Excitation

Carlos E. Crespo-Hernandez, Huijuan Huang*
Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Fluorescence Imaging Guided Therapy using Near-Infrared Absorbing Photosensitizers

Nayan Patel, Paula Pera, Joseph Missert, Janet Morgan, Ravindra K. Pandey*
Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Gender Differences Modulate Photoimmune Responses of 1,25 Dihydroxy Vitamin D

Wannit Tongkao-on, Clare Gordon-Thomson, Anthony Ryan, Gary Halliday, Vivienne Reeve, Rebecca Mason*
Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Hypericin-Loaded Solid Lipid Nanoparticles for Photodynamic Therapy use

*Adriel M. Lima, Carine Dal Pizzol, Tania B. Creczynski-Pasa, Gislaine P. Andrade, Anderson O. Ribeiro, Janice R. Perussi**
Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Image-Based Photosensitizer Uptake, Localization, and Photobleaching (iPULP) Assay: a Theranostic Tool for Informed Optimization of PDT Parameters

Michael Glidden, Iqbal Massodi, Jonathan Celli, Tayyaba Hasan*
Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

In Vitro Comparative Study Between the Photosensitizers Photofrin®, Temoporfin and a Sulfonamide Bacteriochlorin for Photodynamic Therapy of Cancer

Luis B. Rocha, Artur R. Abreu, Luis G. Arnaut, Sérgio Simões*
Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

In Vitro Photodynamic Inactivation of Candida Species and Mouse Fibroblasts with Phenothiazinium Photosensitisers and red Light

*Gabriela Rodrigues, Marcelo Dias-Baruffi, Natalie Holman, Mark Wainwright, Gilberto Braga**
Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

In vitro Structure Activity Relationship (SAR) of Positional Isomers Related to Near Infra-Red Bacteriopurpurinimide

Aimee Marko, Penny Joshi, Paula Pera, Tymish Ohulchanskyy, Jant Morgan, Ravindra K Pandey*
Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

In Vivo Measurement of PpIX Delayed Fluorescence Lifetime to Monitor Tissue Oxygen During Photodynamic Therapy

Fillippo Piffaretti, Anna-Maria Novello, Rajendran Senthilkumar, Eddy Forte, Cedric Paulou, Hubert van den Bergh, Patrycja Nowak-Stiwinska, Georges Wagnières*

Monday, June 25, 2012: Oxygen Effects and New Optical Probes - 11:00-1:00
12:50-01:00

Modifications of Glycoproteins in Bruch's Membrane Via Nitration, Glycation and Photoaddition: Model Systems for Inflammation and Aging in the Human Retina

Mai Thao, Elizabeth Gaillard, James Dillon*
Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Mechanistic Studies of Photoinduced Bacterial Killing Using Tat-conjugated Quantum Dots

Elnaz Yaghini, Francesca Giuntini, Ludovic Bourre, Ian M. Eggleston, Michael Wilson, Alexander J. MacRobert*
Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Mechanism of ROS Generation in Solution and in Cell Cultures

Elsa Silva, Carlos Serpa, Brian Wett, Janusz Dabrowski, Peter Ogilby, Luis Arnaut*
Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Mechanisms of the Influence of UV Irradiation on Collagen

Nunu Metreveli, Louisa Namicheishvili, Eduard Chikvaidze, Anna Kuchava, Marika Chankvetadze*
Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Multiplexed UVC-Induced Sequence-Dependent DNA Damage Detection in 96-Well Plates

Sindhu Nair, Glen Loppnow*
Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Near Infra-Red Cyanine Dye Based Fluorophores for Tumor Imaging

Manivannan Ethirajan, Nayan Patel, Penny Joshi, Ravindra K. Pandey*
Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Optimization and Evaluation of Nanophotoactivatable Liposomes for Combinatorial Drug Delivery to Pancreatic Cancer

Shifalika Tangutoori, Zhiming Mai, Bryan Sears, Tayyaba Hasan*
Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

PDT-Induced Fluorescence Yield and Lifetime Changes Assessed by Time-gated Fluorescence Tomography

Ulas Sunar, Weirong Mo, Daniel Rohrbach*
Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

PEGylated Dual-Effect Liposome Containing Cisplatin and Ce6 Enhances the Therapeutic Effect in C-26 Tumor Model

Po-Chun Peng, Hsiung-Fei Chien, Tsuimin Tsai, Chin-Tin Chen*
Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Penetration of Optical Radiation into Tissue

Mantas Grigalavicius, Børge Hamre, Jakob Stamnes, Asta Juzeniene, Vladimir Iani, Johan Moan*
Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Photobleaching and Tissue Blood Oxygenation Measurements of ALA-Metronomic Photodynamic Therapy in Mouse Brain Tumors

*Han-Wen Guo, Po-Hsiung Chen, Yei-San Hsieh, Hsing-Wen Wang**
Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Photodegradation Mechanisms of 1-Nitropyrene, an Environmental Pollutant

Zulma I Garcia-Berrios, Rafael Arce*
Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Photodynamic Therapy Induced Chromatin Modification Involved in the Increased Expression of COX-2

Yi-Chen Tsai, Tsuimin Tsai, Chin-Tin Chen*
Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Photophysical Properties of Pheophorbide-a Derivatives and Their Photodynamic Therapeutic Effects on a Cancer cell line in-vitro

*Kang-Kyun Wang**, *Bong-Jin Kim*, *Yong-Rok Kim*

Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Photostability of Epigallocatechin-3-gallate in Topical Formulations: Effect of Sunscreen and Antioxidant Agents

*Santo Scalia**, *Anna Bianchi*, *Nicola Marchetti*

Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Photosensitizer Quantification with Fluorescence Ratio Method

*Pooja Patel**, *Alexandra Gotshall*, *Linda Jones*, *Nathan Towles*, *Herbert Wolfsen*, *Michael Wallace*

Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Photosynthetic Activity Under UVR Exposure and Nutrient Addition of Phytoplankton from Coastal Sites off São Francisco do Sul, Santa Catarina (Southern Brazil)

*Gilmar Sidnei Erzinger**, *Virginia Villafaña*, *Sebastian M. Strauch*, *Carla Keite Machado*, *Eduardo Walter Helbling*

Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Photooxidation of Hydrazones for the Photorelease of N-Nitrosoamines

Ashwini Ghogare, *Alvaro Castillo*, *Benjamin Rudshteyn*, *Nahed Sawwan*, *Alexander Greer**

Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Physiological Response of hTERT-RPE Cells in Vitro Following Illumination with Low Levels of Red Light

*Jeffrey Wigle**, *Larry Estlack*, *Kurt Schuster*, *Donna Clarkson*, *Adam Schenk*, *Benjamin Rockwell*

Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Probe - Superresolution Dye Duality: Intrinsic Photophysical Processes of Bodipy Cores Uncovered at the Single Molecule Level

*Robert Godin**, *Hsiao-Wei Liu*, *Katerina Krumova*, *Gonzalo Cosa*

Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Routes to Achieving "Bright" Near-Infrared Fluorescing Nanoparticles: Controlling Chromophore Aggregation

Ragini Jetty, *Yuriy Bandera*, *Venkat Ramshesh*, *Hsin-I Hung*, *Anna-Liisa Nieminen**, *John Lemasters*, *Stephen Foulger*

Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Role of C. albicans Heat Shock Protein 70 (HSP70) to Photodynamic Therapy

*Fernanda Pereira Gonzales**, *Tim Maisch*

Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Study on the Cytosolic Delivery Mechanism of HDL-Mimicking Peptide-Phospholipid Scaffold (HPPS) By Confocal Microscopy

*Qiaoya Lin**, *Juan Chen*, *Zhihong Zhang*, *Gang Zheng*

Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Sensitizer Photorelease Behavior of a Fiber-Optic Implement Bearing a Fluorinated Probe Tip

Dorota Bartusik, *David Aebisher*, *Goutam Ghosh*, *Mihaela Minnis*, *Alexander Greer**

Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Simple Methods for DNA and RNA Damage Detection

*Glen Loppnow**

Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Suppression of Contact Hypersensitivity Induced by Psoralen Photooxidation Products is Realized Through Depression of Proliferative Activity and Alteration in the Cytokine Balance of Lymphocytes

*Iliya Pyatnitskiy**, *Svetlana Pavlova*, *Diana Albegova*, *Ludmila Kozir*, *Alexander Potapenko*, *Alla Kyagova*

Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Strand Displacement and Binary FRET-Based Fluorescent Gene Expression Imaging Agents for iNOS mRNA in vivo

Zhenghui Wang, *John-Stephen Taylor**

Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Susceptibilities of the Dermatophytes Trichophyton mentagrophytes and T. Rubrum Microconidia to Photodynamic Antimicrobial Chemotherapy with Phenothiazinium Photosensitizers and Red Light

Gabriela Rodrigues, *Liana Ferreira*, *Mark Wainwright*, *Gilberto Braga**

Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Synthesis of a Photosensitizer for Photodynamic Therapy

*Laura Donahue**, *RoJenia Jones*, *Marco Palomo*, *Muhammed Khan*, *Andrew Canning*, *Rachel Kooistra*, *Ken Olsen*, *Eric Schroeter*, *Stefan Kanzok*, *David Crumrine*

Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Synthesis, Photophysical and in-vitro Photodynamic Efficacy of Ketobacteriochlorins Derived from Ring-B and Ring-D Reduced Chlorins

*Penny Joshi**, *Manivannan Ethirajan*, *Avinash Srivatsan*, *Joseph Missert*, *Ravindra K. Pandey*

Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

The Effect of UVR Exposure on Epigenetic Mechanisms that Govern Photoaging in Human Skin Cells

*Lisa Passantino**, *Yana Chervona*, *Max Costa*, *Mary Matsui*

Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

The Effects of Singlet Oxygen Quencher Concentration and Depletion on the Efficiency and Dosimetry of Photodynamic Therapy

Mark Weston*, Michael Patterson

Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

The Influence of Extracorporeal Photochemotherapy on Global gene Expression Profiles in Lymphocyte Subsets
Ulrike Just, Gabriele Klosner, Florian Klinglmueller, Martin Bilban, Robert Knobler*, Zoya Kuzmina, Hildegard Greinix, Franz Trautinger

Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

The need for Access to Raw Data Used In Reports and Publications- QUI TAM, A Radiobiology Case In Point
Helene Hill*, Joel Pitt

Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

The Resveratrol Induces Expression of B-Defensin 2 in Keratinocytes
Nevena Karaman-Jurukovska*, Ahmed Eldib, Earl Goyarts, Daniel Yarosh, Nadine Pernodet

Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Tissue Phantom for Fluorescence and Reflectance Experiments
Alexandra Gotshall*, Linda Jones, Pooja Patel, Michael Carnohan, Jane Duplantis, Nathan Towles

Monday, June 25, 2012: Poster session with Refreshments - 06:00-09:00

Tumour-Targeted SERS Probes using Novel Raman Active Metallo-Porphyrin Gold Nanoparticles
Arash Farhadi*, Gang Zheng

Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Towards Understanding the Photoreaction Mechanism of Photosensitizer Dyes in Presence of Alkylating Quinones Using Nanosecond Laser technique

Yisaira Diaz-Espinosa*, Rafael Arce-Quintero, Antonio E. Alegria, Carmelo Garcia

Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

UVB Radiation Generates not only Singlet Oxygen but is also able to Change Endogenous Photosensitizers - Potential New Pathways of Cell Damage?

Alena Knak*, Johannes Regensburger, Tim Maisch, Wolfgang Bäuml

Sunday, June 24, 2012: Poster Session with Refreshments - 6:00-9:00

Verteporfin-PDT in Combination with Tyrosine Kinase Inhibitors on Human Ovarian Carcinoma Model

Andrea Weiss, Hubert van den Bergh, Arjan W Griffioen, Patrycja Nowak-Sliwinska*

Wednesday, June 27, 2012: Photochemistry - Offered Papers - 11:00-01:00

[^Top](#)

President's Lecture

Photodynamic Therapy: A Bridge Between Photobiology, Photochemistry and Technology

Tayyaba Hasan*

Tuesday, June 26, 2012: President's Lecture - 11:00-12:00

11:10-12:00

[^Top](#)

Research Award Lecture

Unsensitized Phototherapy with Visible Light and its Application, and Mechanism, for Prevention of Keratinocarcinoma

Antony McDonagh*

Tuesday, June 26, 2012: Research Award Lecture - 9:30-10:30

09:40-10:30

[^Top](#)

Sphingolipids as Mediators I Photobiology

A Model of Intracellular Trafficking of the Lipid Ceramide

Kentaro Hanada*

Tuesday, June 26, 2012: Sphingolipids Mediators in Photobiology - 3:45-5:45

04:45-05:15

Bioactive Sphingolipids in the Regulation of Inflammation and Cancer

Lina Obeid*

Tuesday, June 26, 2012: Sphingolipids Mediators in Photobiology - 3:45-5:45
04:15-04:45

Role of Ceramide Synthase in Cell Death after PDT

Duska Separovic, Paul Breen, Nicholas Joseph, Jacek Bielawski, Tatyana Gudz*

Tuesday, June 26, 2012: Sphingolipids Mediators in Photobiology - 3:45-5:45
05:15-05:30

Sphingolipid Activity in Tumors Treated by Photodynamic Therapy and its Exploitation for Therapeutic Gain

*Mladen Korbelik**

Tuesday, June 26, 2012: Sphingolipids Mediators in Photobiology - 3:45-5:45
05:30-05:45

Sphingomyelinases and Ceramide in Cell Regulation

*Yusuf Hannun**

Tuesday, June 26, 2012: Sphingolipids Mediators in Photobiology - 3:45-5:45
03:45-04:15

[^Top](#)

Targeted Drug Delivery Systems

Biomedical Opportunities for New Porphyrin Nano-Architectures

*Jonathan Lovell**

Sunday, June 24, 2012: Frontiers of Drug Delivery in Photomedicine - 4:00-5:30
04:20-04:40

Complications and Nuances of Quantifying Cancer Biomarker Expression in Vivo with Targeted Imaging Agents

Kenneth Tichauer, Kimberley Samkoe, W. Spencer Klubben, Kristian Sexton, Tayyaba Hasan, Brian Pogue*

Sunday, June 24, 2012: Frontiers of Drug Delivery in Photomedicine - 4:00-5:30
04:40-05:00

New Design of Targeted Photosensitizer Dimers for One-Photon and Two Photon Photodynamic Therapy

Guillaume Garcia, Fabien Hammerer, Florent Poyer, Sylvain Achelle, Marie-Paule Teulade-Fichou, Philippe Maillard*

Sunday, June 24, 2012: Frontiers of Drug Delivery in Photomedicine - 4:00-5:30
05:00-05:10

Photodynamic Drug Delivery

Hubert van den Bergh, Elodie Debefve, Yabo Wang, Thorsten Krüger, Hans-Bit Ris*

Sunday, June 24, 2012: Frontiers of Drug Delivery in Photomedicine - 4:00-5:30
04:00-04:20

Phthalocyanine-Peptide Conjugates: Receptor-Targeted Bi-Functional Agents for Imaging and Photodynamic Therapy

Nicole Cauchon, Elena Ranyuk, Brigitte Guérin, Klaus Klarskov, Johan E. van Lier*

Sunday, June 24, 2012: Frontiers of Drug Delivery in Photomedicine - 4:00-5:30
05:10-05:20

UVB-Induced Psoralen Photoadducts and their Rapid Detection by Surface-Enhanced Laser Desorption Ionization Time of Flight (SELDI-TOF) Mass Spectrometry

Alexandru Buhimschi, Francis Gasparro*

Wednesday, June 27, 2012: Photochemistry - Offered Papers - 11:00-01:00
12:30-12:40

[^Top](#)

Translational PDT

Distinct Local Photodynamic Therapy Doses of Head and Neck Lesions in the Oral Cavity

Ulas Sunar, Nestor Rigual, Daniel Rohrbach, Erin Tracy, Andrew Kowalechki, Kenneth Keymel, Michele Cooper, Heinz Baumann, Barbara Henderson*

Wednesday, June 27, 2012: Translational Photobiology: Bidirectionally Informed Therapeutic Parameters & Model Development - 2:15-4:15
03:35-03:48

Fluorescence-Guided Resection of Glioma: Challenges and Success in Translating Preclinical Systems to the OR

*Samuel**

Wednesday, June 27, 2012: Translational Photobiology: Bidirectionally Informed Therapeutic Parameters & Model Development - 2:15-4:15
02:55-03:15

Integration of Physical and Stromal Influences with 3D Tumor Models to Inform PDT-based Combination Regimens

Imran Rizvi, Jonathan Celli, Umut Gurkan, Nermina Alagic, Savas Tasoglu, Sriram Anbil, Iqbal Massodi, Michael Glidden,*

Utkan Demirci, Tayyaba Hasan

Wednesday, June 27, 2012: Translational Photobiology: Bidirectionally Informed Therapeutic Parameters & Model Development - 2:15-4:15

02:35-02:55

Metronomic Photodynamic Therapy: A Model of 2-way Translation Between the Lab and the Clinic

*Brian Wilson**

Wednesday, June 27, 2012: Translational Photobiology: Bidirectionally Informed Therapeutic Parameters & Model Development - 2:15-4:15

03:15-03:35

Molecular Consequences of Combining Photodynamic Therapy and Inhibition of Epidermal Growth Factor Receptor

Shannon Gallagher-Colombo, Joann Miller, Amanda Maas, Shirron Carter, Min Yuan, Theresa Busch*

Wednesday, June 27, 2012: Translational Photobiology: Bidirectionally Informed Therapeutic Parameters & Model Development - 2:15-4:15

03:48-04:01

Photothermal Effect in Vascular Targeted Photodynamic Therapy

Tatum Tarin, Simon Kimm, Avigdor Scherz, Jonathan Coleman*

Wednesday, June 27, 2012: Translational Photobiology: Bidirectionally Informed Therapeutic Parameters & Model Development - 2:15-4:15

04:01-04:14

Serosal PDT: Lessons from the Clinic and the Laboratory for the Treatment of Pleural and Peritoneal Malignancies

Keith Cengel, Joseph Friedberg, Arjun Yodh, Douglas Fraker, Theresa Busch, Stephen Hahn, Eli Glatstein*

Wednesday, June 27, 2012: Translational Photobiology: Bidirectionally Informed Therapeutic Parameters & Model Development - 2:15-4:15

02:15-02:35

[^Top](#)

UVA-UVB Signaling

Chronic UVA Exposure Causes Autophagic-Lysosomal Blockade in Dermal Fibroblasts by Dual Inactivation of Cathepsin B and L
Sarah D. Lamore, Georg T. Wondrak*

Wednesday, June 27, 2012: Impact of UVA-UVB on Cell Signaling - 2:15-4:15

03:45-03:55

Enhanced Tumor Development in CHOP/gadd153 Knockout Mice after UVB Exposure Involves p53 Mutation and Down Regulation of p21 and MDM2

Sanjay Anand, Kishore Rollakanti, Nikoleta Brankov, Edward Maytin*

Wednesday, June 27, 2012: Impact of UVA-UVB on Cell Signaling - 2:15-4:15

04:05-04:15

Genetic and Environmental Regulation of UV-Induced DNA Damage Repair

*Yu-Ying He**

Wednesday, June 27, 2012: Impact of UVA-UVB on Cell Signaling - 2:15-4:15

03:15-03:35

Solar Radiation Melanomagenesis: Development of a UV-Mutator Phenotype

*William Kaufmann**

Wednesday, June 27, 2012: Impact of UVA-UVB on Cell Signaling - 2:15-4:15

02:35-02:55

The Circadian Control of Skin and Cutaneous Photodamage

*Joshua Desotelle, Melissa Wilking, Nihal Ahmad**

Wednesday, June 27, 2012: Impact of UVA-UVB on Cell Signaling - 2:15-4:15

02:55-03:15

Toll-Like Receptor 10 (TLR10) Expression Protects Against UV-Induced Cell Damage

*Nicole Fitzner, Hedda-Marie Jansen, Sabine Zahn, Joerg Wenzel, Victoria Kolb-Bachofen**

Wednesday, June 27, 2012: Impact of UVA-UVB on Cell Signaling - 2:15-4:15

03:55-04:05

UVA1 Induces Distinct and Different Epidermal Changes to UVB Associated with p53, p63 and Keratin Differentiation in Human Skin in Vivo

Angela Tewari, Kasia Gryb, Robert Sarkany, Antony Young*

Wednesday, June 27, 2012: Impact of UVA-UVB on Cell Signaling - 2:15-4:15

03:35-03:45

UVB-Induced and cNOS-Mediated NF- κ B Activation

*Lingying Tong, Shiyong Wu**

Wednesday, June 27, 2012: Impact of UVA-UVB on Cell Signaling - 2:15-4:15

02:15-02:35

[^Top](#)

UVA/B Release of Nitric Oxide from Dermal Stores

Cardiovascular Effects of Sunlight

*Richard Weller**

Tuesday, June 26, 2012: UVA/B Release of Nitric Oxide from Dermal Stores: Systemic Benefits - 1:15-3:15
02:45-03:15

Expression of Inducible NO-synthase During UV-Exposure of Human Skin: Friend or Foe?

Victoria Kolb-Bachofen, Christoph Suscheck, Nicole Fitzner*

Tuesday, June 26, 2012: UVA/B Release of Nitric Oxide from Dermal Stores: Systemic Benefits - 1:15-3:15
01:45-02:15

From NO to Nitrite and Nitrate....and Back Again: Novel Insights into NO-Homeostasis and Therapeutics

*Rakesh Patel**

Tuesday, June 26, 2012: UVA/B Release of Nitric Oxide from Dermal Stores: Systemic Benefits - 1:15-3:15
01:15-01:45

Light-Mediated Non-Enzymatic NO-Formation and its Consequences for Human Physiology

*Christoph V. Suschek**

Tuesday, June 26, 2012: UVA/B Release of Nitric Oxide from Dermal Stores: Systemic Benefits - 1:15-3:15
02:15-02:45

[^Top](#)

Vascular Effects of Light

Angiogenic and vasculogenic Effects Associated with Photodynamic Therapy

Charles Gomer, Angela Ferrario, Marian Luna, Sophia Lim*

Sunday, June 24, 2012: Vascular Effects of Light - 4:00-5:30
04:15-04:30

Modulation of PI3K Pathway to Enhance PDT Response

Bin Chen, Babasola Fateye, Zhuzhu Li*

Sunday, June 24, 2012: Vascular Effects of Light - 4:00-5:30
04:45-05:00

Selective Photodynamic Occlusion of Lymphatic Vessels

Patrycja Nowak-Sliwinska, Witek W Kilarski, Melody A Swartz*

Sunday, June 24, 2012: Vascular Effects of Light - 4:00-5:30
04:30-04:45

Surface Vimentin a Novel Target for Drug Delivery to the Tumor Endothelium

Arjan Griffioen, Patrycja Nowak-Sliwinska, Judy van Beijnum*

Sunday, June 24, 2012: Vascular Effects of Light - 4:00-5:30
04:00-04:15

Vascular Effects of Verteporfin PDT in Pancreatic Cancer

Kimberley Samkoe, Julia O'Hara, Jason Gunn, Tayyaba Hasan, Brian Pogue*

Sunday, June 24, 2012: Vascular Effects of Light - 4:00-5:30
05:00-05:15

[^Top](#)