

Poster-Overview

Group 1:

Poster-number: 101 - 511

Hang-up Wed. 19th 07:45 - 08:30

Poster walk Thu. 20th 13:30 - 14:00

Removal Thu. 20th 15:00 - 17:30

Session 1 - Photosensitizers

101 Weimin Liu *Chinese Academy of Sciences, China*

A Mitochondria-Targeted Photosensitizer for Photodynamic Therapy

102 Julien Massiot *University Paris-Sud, France*

Lipid-porphyrin conjugates as potential multifunctional drug delivery systems

103 Shaimaa Alexeree *National Institute of Laser Enhanced science, Egypt*

Exploiting biosynthetic gold nanoparticles for improving the aqueous solubility of metal-free phthalocyanine as biocompatible PDT agent

104 Luis Arnaut *University of Coimbra, Portugal*

Low molecular weight carboxamide bacteriochlorins for topical treatment of skin cancers

105 Anderson Caires *Universidade Federal de Mato Grosso do Sul, Brazil*

Evaluation of chlorophyllin sodium-copper as photosensitizer for Photodynamic control of *Aedes aegypti* larval population

106 Juhee Jeon *Dongsung Bio Pharm, South Korea*

The Anti-Tumor effect of Sensitizers in Photodynamic and Sonodynamic Therapy

107 Sergey Kuzmin *FSUE "SSC "NIOPIK", Russia*

Laser ablation of phthalocyanine nanoparticles in a liquid medium simulating tissue

108 Mariana Máčajová *CBs SAS, Slovakia*

Hypericin topical delivery to the tumor and yeast cells – study on the quail CAM model

109 Bruno Nascimento *University of Coimbra, Portugal*

Novel temoporfin-related 4,5,6,7-tetrahydropyrazolo[1,5-a]pyridine-fused chlorins: synthetic details, structural characterization and cytotoxicity evaluation

110 Alexander Ponyaev *Saint-Petersburg State Institute of Technology, Russia*

Xanthenes Dyes with long-wave absorption for photodynamic therapy and diagnostics

111 Yelena Wainman *Ludwig-Maximilians-Universität Munich, Germany*

Development of a light activated chemotherapeutic for the treatment of solid tumors

112 Jia-Ling Zou *Shanghai University of Traditional Chinese Medicine, China*

Research advance of hypocrellin in photodynamic therapy

113 Lenka Lenkavská *P. J. Safarik University, Slovakia*

Comparison of HDL and LDL lipoproteins as hypericin carriers in PDT

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Session 2 - Targeted PDT

- 201 Ludovic Bretin** *LABORATORY PEIRENE, France*
Analysis of new vectorized photosensitizers effects by using photodynamic therapy on colorectal cancer
- 202 Xiaosong Li** *The Second Hospital of Jilin University, China*
Application of optical coherence tomography angiography in vascular targeted photodynamic therapy of port wine stains
- 203 Marline N'Diaye** *University Paris-Sud, France*
Design of liponanoparticles for dual treatment of retinoblastoma by chemo/photodynamic therapy
- 204 Nelson A.M. Pereira** *University of Coimbra, Portugal*
Promising nanobody-ring-fused chlorin conjugate as potential agent for targeted photodynamic therapy of cancer
- 205 Abdul-Amir Yassine** *University of Toronto, Canada*
The Value of Customization: Photodynamic Therapy Planning with Tailored Diffusers
- 206 Zahraa Youssef** *LRGP-CNRS, France*
Development of New Titania- And Silica-Based Drug Carrier Nanosystems: In Vitro Assessment of the Anti-Cancer Efficiency on Glioblastoma
- 207 Philippe Arnoux** *CNRS - LRGP, France*
The Nancy's PDT team projects: targeted molecules for photodynamic therapy
- 208 Amina Ben Mihoub** *Université de Lorraine, France*
Targeted photodynamic therapy with glioblastoma cancer-specific peptide conjugated photosensitizer and cyclodextrin
- 209 Ying Gu** *Chinese PLA General Hospital, China*
Research progress of dosimetric monitoring technology for vascular targeting photodynamic therapy
- 210 Ewa Kowolik** *Uniwersytet Jagielloński, Poland*
Effects of vascular-targeted photodynamic therapy of human glioblastoma with theranostic AGuIX nanoparticles
- 211 Ludivine Larue** *LRGP-CNRS, France*
New Platforms for improving the treatment of glioblastoma by photodynamic therapy
- 212 Zaria Malindi** *University of Cape Town, South Africa*
Photoimmunotheranostic targeting of CSPG4-positive melanoma cells using SNAP-tag technology
- 213 Albert Moussaron** *Laboratoire de Chimie-Physique Macromoléculaire, France*
Diagnosis of brain metastases by Positron-emission tomography (PET): complementarity of dual targeting NRP-1 & LRP-1
- 214 Takahiro Nomoto** *Tokyo Institute of Technology, Japan*
Multiple cyclic RGD-conjugated functional polymers controlling intratumoral distribution of IRDye 700DX
- 215 Fleury Augustin Nsole Biteghe** *University of Cape Town, South Africa*
Photoimmunotheranostic treatment targeting EGFR positive melanoma cells

- 216** **Lluïsa Pérez-García** *University of Nottingham, United Kingdom*
Supramolecular hydrogels: new nanomaterials for PDT
- 217** **Aimie Rendle** *University of Hull, United Kingdom*
Stimuli-Responsive Porphyrin Nanogels for Photodynamic Therapy of Cancer
- 219** **Mingfeng Bai** *Vanderbilt University Medical Center, USA*
Overcoming Chemoresistance Using Tumor Mitochondria-targeted Photodynamic Therapy
- 220** **Ramtin Rahmazadeh** *University of Lübeck, Germany*
Light controlled delivery of Photo-Immunoconjugates for molecular targeted PDT

Session 3 - Combinations in PD-PDT

- 301** **Pilar Acedo** *University College London, United Kingdom*
Establishment of light-based combination strategies for treating pancreatic cancer
- 302** **Jens Buentzel** *Südharz Klinikum Nordhausen GmbH, Germany*
Combined Photodiagnosis (PD) and Photodynamic Therapy (PDT) in Head Neck Cancer Patients
- 303** **Cristina Kurachi** *University of São Paulo, Brazil*
Fluorescence lifetime imaging microscope to discriminate skin lesions
- 304** **Jayoti Som** *Memorial University of Newfoundland, Canada*
Promotion of in vivo 5-ALA-PDT efficacy by MEK inhibition
- 305** **Andrea Tabero** *Universidad Autónoma de Madrid, Spain*
Gold nanoclusters for light-controlled delivery of combined chemo and phototherapy.
- 306** **Steven Yap** *University of Hull, United Kingdom*
Polyacrylamide nanoparticles: a conjugatable platform for use in the diagnosis and treatment of cancer
- 307** **Daria Pominova** *Russian Academy of Sciences, Russia*
Fiber-optic technique for quantitative determination of the chlorin derivatives nanoparticles accumulation in the mice organs
- 308** **Piotr Ziolkowski** *Wrocław Medical University, Poland*
Effect of 5-ALA mediated PDT in combination with thalidomide on murine breast carcinoma and endothelial cell lines

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Session 5a - Antimicrobial

- 501 Antonella Battisti** *Nanoscience Institute CNR, Italy*
An insight into endogenous porphyrin production by *Helicobacter pylori*
- 502 Anzhela Galstyan** *Center for Soft Nanoscience, Germany*
Advanced photoactive compounds and interfaces against microbial pathogens
- 503 Paola Morici** *Nanoscience Institute CNR, Italy*
In vitro photoinactivation of *Helicobacter pylori* by a novel LED-based device
- 504 Antonella Sgarbossa** *Nanoscience Institute CNR, Italy*
The photophysical characterization of *Helicobacter pylori* porphyrins as endogenous photosensitizers for antimicrobial photodynamic therapy
- 505 Cynthia Caires** *Universidade Federal de Mato Grosso do Sul, Brazil*
Photodynamic inactivation of mcr-1 positive *E. coli*
- 506 Elena de las Heras** *IQS - Universitat Ramon Llull, Spain*
Gentamicin-based photo-antimicrobials
- 507 Alessandra Nara de Souza Rastelli** *University of São Paulo State, Nbrasil*
A curcumin-loaded liquid crystal system used for antimicrobial photodynamic therapy over *Streptococcus mutans* biofilm
- 508 Franco Fusi** *University of Florence, Italy*
The CapsuLight project: from in vitro studies to intra-gastric robotic device prototyping for antibacterial PDT against *Helicobacter pylori*
- 509 Mariana Geralde** *University of São Paulo, Brazil*
PDI with nebulized indocyanine green and infrared light for pneumonia treatment
- 510 Wan-Jun Guo** *Shanghai University of Traditional Chinese Medicine, China*
Study on Photodynamic Anti-infection of Forsythia Extract Hypericin
- 511 García Hally** *IQS - Universitat Ramon Llull, Spain*
Porgenta: a Novel Photosensitiser-Antibiotic Conjugate for aPDT
- 511a Natalia Masiera** *Polish Academy of Sciences, Poland*
Porphycenes as PDI agents. Structure and activity

Group 2:

Poster-number: 512 - 1307

Hang-up Fri. 21st 07:45 - 08:30

Poster walk Fri. 21st 13:30 - 14:00

Removal Sat. 22nd after lunch

Session 5b - Antimicrobial

512 Carla Oliveira *Federal University of Mato Grosso do Sul, Brazil*
Incorporation and photoactivity characterization of Crystal Violet in *Aspergillus flavus*

513 Aleksandra Rapacka-Zdonczyk *University of Gdansk, Poland*
Could *Staphylococcus aureus* become more tolerant to oxidative stress after repeated exposure to sub-lethal doses of blue light?

514 Giovanni Romano *University of Florence, Italy*
A side-effect study of intra-gastric antibacterial PDT

515 Jennifer Soares *University of São Paulo, Brazil*
Influence of Formulation in Uptake of Photosensitizer by Bacteria

516 Amanda Zangirolami *University of São Paulo, Brazil*
Inactivation of *S. aureus* biofilm applying photodynamic inactivation using nebulized curcumin

517 Tadeuz Sarna *Jagiellonian University, Poland*
Possible role of peroxyxynitrate in antibacterial photodynamic inactivation mediated by rose Bengal and sodium nitrate

Session 6 - Physics

601 Mirian Stringasci *University of São Paulo, Brazil*
Thermographic imaging during the PDT procedure to improve understanding of photodynamic mechanisms

602 Marek Scholz *Charles University, Czech Republic*
Microscopic time-resolved imaging of singlet oxygen in cells using delayed fluorescence

603 Mirian Stringasci *University of São Paulo, Brazil*
Interference of temperature in the production of PpIX using ALA and methyl-ALA

604 Stephan Ströbl *Vorarlberg University of Applied Sciences, Austria*
New method to characterize the emission profile of radially emitting fiber diffusers

605 Timothy Zhu *Univ of Pennsylvania, USA*
A comparison of in-vivo threshold doses among type I and II vascular-mediated

606 Emily Oakley *Roswell Park Comprehensive Cancer Center, USA*
Finite Element Method (FEM) Guided Interstitial PDT with Consecutive Light Illumination

607 Max Aumiller *Klinikum der Universität München, Germany*
Interstitial measurement of optical tissue properties for interstitial photodynamic therapy

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Session 7 - Mechanisms

- 701 Sylvestre Bonnet** *Leiden University, Netherlands*
Photoactivated chemotherapy in hypoxic cancer cells
- 702 Hilde Harb Buzza** *University of São Paulo, Brazil*
Tumor model in chorioallantoic membrane and the possibility to follow the photosensitizer from vessel to tumor with fluorescence analysis
- 703 Vipin Shankar Chelakkot** *Memorial University of Newfoundland, Canada*
5-ALA-PDT triggers NLRP3 mediated pyroptosis
- 704 Leonardo Franchi** *University of Amsterdam/University of São Paulo, Netherlands*
Biological signaling properties induced by photodynamic therapy
- 705 Juliana Cabrini Carmello** *São Paulo State University, Brazil*
Cytotoxic effect of white LED light on human skin keratinocytes
- 706 Sviatlana Kalinina** *University of Ulm, Germany*
Monitoring of cell metabolism during PDT
- 707 Carsten Lange** *University of Greifswald, Germany*
Investigation of the Cell Death Mechanism after Temoporfin mediated Photodynamic Therapy (PDT) of five Human Cancer Cell Lines
- 708 Ana Claudia Pavarina** *São Paulo State University, Brazil*
Are blue LED lights safe enough for oral applications?
- 709 Jing Zeng** *Chinese PLA General Hospital, China*
In Vivo Study on Photo-thermal Effects during Vascular Target Photodynamic therapy for Port Wine Stains treatment
- 710 Irina Semenova** *Ioffe Institute, Russia*
Quantitative assessment of changes in cellular morphology after PD treatment in vitro. Correlation with cell death pathways
- 711 Joanna Zawacka-Pankau** *Karolinska Institutet, Sweden*
Activation of TAp73 and inhibition of thioredoxin reductase for improved
- 712 Hung Wei Lai** *Tokyo Institute of Technology, Japan*
Pivotal roles of transporters involved in aminolevulinic acid (ALA) uptake in ALA-induced PpIX accumulation in vitro
- 713 Veronika Huntosova** *P.J. Safarik University in Kosice, Slovakia*
Hypericin induced PDT applied to spheroids of cancer cells

Session 8 - Immuno-PDT

801 **Aleksandra Kawczyk-Krupka** *Medical University of Silesia, Poland*
The influence of ALA-mediated photodynamic therapy on secretion of selected growth factors, interleukins and s100 protein (S100) by colon cancer cells in vitro

802 **Rainer Wittig** *University of Ulm, Germany*
Photodynamic activity of Temoporfin nanoparticles induces a shift to the pro-inflammatory M1-phenotype in polarized macrophages

803 **Yuliya Maklygina** *Russian Academy of Sciences, Russia*
A novel spheroid model for studying intercellular photosensitizer-mediated tumour and immune cell communication.

804 **Anastasia Ryabova** *Russian Academy of Sciences, Russia*
Tissues distribution of organic crystalline mTHPC nanoparticles on model inoculated tumors in vivo

Session 9 - Clinical Use 1

901 **Thomas Giesen** *PiLight GmbH, Germany*
Clinical application of the photodynamic therapy for complex wounds of multifactorial genesis in medicine

902 **Jie Ji** *Shanghai Skin Disease Hospital, China*
ALA-PDT as a palliative care in a patient with secondary perineum EMPD

903 **Wojciech Latos** *Specjalistyczna Praktyka Lekarska, Poland*
The benefits of targeted endoscopic biopsy performed using the autofluorescence based diagnostic technique in 67 cases of diagnostically difficult gastrointestinal tumors

904 **Maxim Loshchenov** *Russian Academy of Sciences, Russia*
Fluorescence Image Analyzer for Intraoperative Use in Gastroenterology

905 **Lei Shi** *Shanghai Skin Disease Hospital, China*
Combination of Photothermal and Immunoadjuvant for Refractory Cutaneous Warts

906 **Artem Shiryayev** *I.M. Sechenov First Moscow State Medical University, Russia*
Combined treatment of non-resectable cholangiocellular cancer complicated with mechanical jaundice

907 **Linglin Zhang** *Shanghai Skin Disease Hospital, China*
Improvement of photodynamic therapy by transdermal administration with plum blossom needle for the treatment of Bowen's disease

908 **Kate Blanco** *University of São Paulo, Brazil*
Study of a new option for treatment of streptococcal pharyngotonsillitis

909 **Aleksandra Kawczyk-Krupka** *Medical University of Silesia, Poland*
Photodynamic therapy as an alternative to antibiotic therapy for the treatment of infected leg ulcers- pilot study

910 **P.U. Turkin** *Pirogov Russian National Research Medical University, Russia*
Photodynamic therapy of venous ulcers

911 **Jinyan Wang** *Ningbo No.2 Hospital, China*
A clinical trial using carbon dioxide laser combined with 5-aminolevulinic acids based photodynamic therapy in treating nasal basal cell carcinoma

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- 912** **Min-Feng Wu** *Shanghai University of Traditional Chinese Medicine, China*
Photodynamic therapy for pediatric kerions: report of three cases
- 913** **Luke McLellan** *University of Dundee, GBR*
Patient overview on the future of daylight photodynamic therapy
- 914** **Maria Ziolkowska** *Ev. Elisabeth Klinik, Zentrum Lasermedizin, Germany*
OCT supported PDT- Case Report

Session 10 - Clinical Use 2

- 1001** **Aleksandra Kawczyk-Krupka** *Medical University of Silesia, Poland*
ALA- Photodynamic treatment in Lichen sclerosus-clinical and immunological outcome focusing on the assesment of antinuclear antibodies
- 1002** **Victor Loschenov** *Russian Academy of Sciences, Russia*
Clinical Spectral Fluorescence and Back-Scattering Study of Bladder Neoplasmes
- 1003** **Haixia Qiu** *Chinese PLA General Hospital, China*
The application of Vascular Targeted Photodynamic Therapy in the Chinese PLA General Hospital
- 1004** **Aleksander Sieroń** *Medical University of Silesia, Poland*
Photodiagnosis and Photodynamic therapy in Center for Laser Diagnostics and Therapy in Bytom, Poland- a new directions
- 1005** **Zheng Huang** *Fujian Normal University, China*
Quantitative analysis of PWS birthmark color in PDT treatment

Session 13 - Future and Hot Topics

- 1301** **Jaroslava Joniova** *Swiss Federal Institute of Technology, Switzerland*
Use of photobiomodulation to improve PpIX-PDT in vivo
- 1302** **Eduard Mahiliavets** *Grodno State Medical University, Belarus*
Influence of photodynamic therapy on processes of liver regeneration at cirrhosis
- 1303** **Georges Wagnières** *Swiss Federal Institute of Technology, Switzerland*
Physico-chemical study of the protoporphyrin IX delayed fluorescence to quantify the pO₂ in biological tissues
- 1304** **Thierry Michy** *Service de Chirurgie Gynécologique, France*
Fluorecence-guided surgery of ovarian carcinomatosis: Angiostamp800™ vs Indocyanine green
- 1305** **Shun-ichiro Ogura** *Tokyo Institute of Technology, Japan*
Applications of Aminolevulinic acid in tumor – From Diagnosis and Therapy to Screening
- 1306** **Christian Heckl** *Klinikum der Universität München, Germany*
Rapid spectrophotometric quantification of urinary porphyrins and porphobilinogen as screening tool for attacks of acute porphyria
- 1307** **Herbert Stepp** *Klinikum der Universität München, Germany*
Fluorescence guided stereotactic biopsy of malignant glioma

The poster overview may be subject to change at short notice.