

Photodynamic Therapy - Texas D

1:00 pm - 6:00 pm

Director: *Ron R. Allison, M.D.*

Invited Speakers: *Keith A. Cengal, M.D., Ph.D., Rosa Cuenca, M.D., Gordon H. Downie, M.D., Ph.D., M. Sam Eljamel, M.D., Colin Hopper, B.D.S., M.B.B.S., M.D., F.D.S., F.R.C.S., Thomas S. Mang, Ph.D., Herbert C. Wolfsen, M.D.*

Educational Needs

The PDT mini-symposium will include competitively chosen abstracts and invited expert lectures. Topics include: oncologic photodynamic therapy for skin, neurologic, head and neck, pulmonary, GI and GU cancers as well as non-oncologic therapy for cutaneous and non-cutaneous lesions and infections. The future indications and innovations in PDT will also be discussed.

Participants

This session is designed for scientists, dermatologists, surgeons, pulmonologists, gastroenterologists, and urologists interested in photodynamic therapy.

Background Requirements

Although it is not a prerequisite, attendees would ideally have some basic understanding of laser tissue interactions. Individual attendees do not need to have significant experience or expertise in laser medicine or surgery.

Instructional Content and/or Expected Learning Outcomes

At the conclusion of the session, attendees will have an overview of the current status and future endeavors in oncologic and non-oncologic photodynamic therapy.

Hot Topics

- Nanoparticles in PDT
- PDT of infections
- Improved PDT for skin cancers
- The use of PDT in lung cancers
- The use of PDT in GI cancers
- The use of PDT in GU cancers
- The future of PDT
- Photodynamic therapy uses light to treat cancer and non-cancerous lesions and infections. Technological innovation has allowed PDT to achieve lesion ablation with excellent cosmetic and functional outcome. This session will highlight these achievements.

MINI SYMPOSIA: NEURO AND HEAD AND NECK PRESENTATIONS AND ABSTRACTS

M. Sam Eljamel, Colin Hopper

1:00 pm - 1:09 pm

168

(ePoster available)

***IN VITRO* STUDY OF THE PHOTODYNAMIC THERAPY OF NANO- PHOTOSENSITIZER ON HUMAN ORAL TONGUE CANCER CAL-27 CELLS**

Pingping Li, Guolin Li, Yan Pang, Lingyue Sheb, Qing Xu, Jizhong Gu, Guoyu Zhou, Xinyuan Zhu, Michael Hamblin, Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai Research Institute of Stomatology, Shanghai Key Laboratory of Stomatology, College of Chemistry and Chemical Technology, Shanghai, China, First Affiliated Hospital of Haerbin Medical University, Haerbin, China, Wellman Center for Photomedicine, Massachusetts General Hospital, Boston, MA

•Content discusses non-FDA approved device or off-label use

- 1:10 pm - 1:19 pm 169 **PDT DISINFECTION OF ORAL BIOFILM**
Thomas Mang, Lynn Mikulshi, Dharam Tayal, Robert Baier, SUNY at Buffalo School of Dental Medicine, Buffalo, NY
•Content discusses non-FDA approved device or off-label use
- 1:20 pm - 1:29 pm 170 **MECHANISMS OF ANTIMICROBIAL PHOTODYNAMIC THERAPY: AN *IN VITRO* STUDY ON GRAM NEGATIVE AND GRAM POSITIVE BACTERIA**
(ePoster available)
Liyi Huang♦♣, Michael Hamblin, Wellman Center for Photomedicine, Massachusetts General Hospital, Boston, MA
•Content discusses non-FDA approved device or off-label use
- 1:30 pm - 1:39 pm 171 **MECHANISM OF PROPIONIBACTERIUM ACNE DESTRUCTION BY INITIATION OF REACTIVE OXYGEN SPECIES BY 414nm ABSORPTION**
Caerwyn Ash¹, Llinos Harris², Thierry Maffeis, Marc Clement³, Gareth Stockman, Michael Kiernan³, Godfrey Town³, Swansea University, University of Wales, Global Academy, Swansea, United Kingdom
¹Equipment and salary from CyDen; travel expenses from Swansea University
²Equipment from CyDen
³Consulting fees from CyDen
•Content discusses non-FDA approved device or off-label use

1:40 pm - 1:44 pm **Co-Chair Critique of Abstracts**

MINI SYMPOSIA: PULMONARY PRESENTATIONS AND ABSTRACTS

Gordon H. Downie

- 1:45 pm - 2:04 pm **PDT AS PART OF MULTIDISCIPLINARY THORACIC ONCOLOGY**
Gordon H. Downie, Northeast Texas Interventional Medicine, Mt. Pleasant, TX
- 2:05 pm - 2:29 pm **PDT FOR THE TREATMENT OF PERIPHERAL LUNG CANCERS**
Gordon H. Downie, Northeast Texas Interventional Medicine, Mt. Pleasant, TX
- 2:30 pm - 2:44 pm **Q&A**
- 2:45 pm - 3:44 pm **Break - Visit the Exhibits and ePosters**

MINI SYMPOSIA: GI/GU PRESENTATIONS AND ABSTRACTS

Herbert C. Wolfsen, Keith A. Cengal

- 3:45 pm - 4:04 pm **PDT IN GASTROENTEROLOGY: A LOST DECADE**
Herbert C. Wolfsen, Mayo Clinic, Jacksonville, FL
- 4:05 pm - 4:29 pm **MOLECULARLY TARGETED APPROACHES TO PDT**
Keith A. Cengal, University of Pennsylvania, Philadelphia, PA

♦ Recipient of U.S. Air Force Office of Scientific Research travel grant.
♣ Best Student/Resident Photodynamic Therapy Award Recipient.

MINI SYMPOSIA: TECHNOLOGY AND TREATMENT

Thomas S. Mang, Rosa Cuenca

- | | | |
|-------------------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4:30 pm - 4:39 pm | 176 | <p>TEMPERATURE MODULATED PHOTODYNAMIC THERAPY FOR THE TREATMENT OF ACTINIC KERATOSES ON THE EXTREMITIES</p> <p><i>Andrea Willey¹, Fernanda Sakamoto, Solano Dermatology, Laser & Skin Surgery Center, UC Davis, Sacramento, CA, Wellman Center for Photomedicine, Boston, MA</i></p> <p>¹<i>Equipment and research grant from DUSA Pharmaceuticals</i>
•Content discusses non-FDA approved device or off-label use</p> |
| 4:40 pm - 4:49 pm | 177 | <p>FRACTIONAL CO₂ LASER IMPROVES TREATMENT OF NBCC WITH ALA-PDT</p> <p><i>Roman Smucler, Jan Lippert, Marek Vlk, Charles University, Prague, Czech Republic</i></p> <p>•Content discusses non-FDA approved device or off-label use</p> |
| 4:50 pm - 4:59 pm | 178 | <p>NEW TOPICAL PHOTODYNAMIC THERAPY FOR MANAGEMENT OF PRIMARY AXILLARY HYPERHIDROSIS</p> <p><i>Manal Salah, Abeer Attia♦, Maha Fadel, Shahira Almenshawy, National Institute of Enhanced Laser Sciences, Cairo, Egypt</i></p> <p>•Content discusses non-FDA approved device or off-label use</p> |
| 5:00 pm - 5:09 pm
<i>(ePoster available)</i> | 179 | <p>INVESTIGATION OF THE EFFECTIVENESS OF NON-COHERENT BLUE LIGHT IN INTRALESIONAL PHOTODYNAMIC THERAPY OF BASAL CELL CARCINOMA</p> <p><i>Robert Anolik♥, Elliot T. Weiss, Anne Chapas, Leonard Bernstein, Lori Brightman, Elizabeth K. Hale, Julie K. Karen, Roy Geronemus¹, Laser and Skin Surgery Center of New York, New York, NY</i></p> <p>¹<i>Stockholder with Solta</i>
•Content discusses non-FDA approved device or off-label use</p> |
| 5:10 pm - 5:14 pm | | Co-Chair Critique of Abstracts |
| 5:15 pm - 5:29 pm | | Q&A |
| 5:30 pm - 6:00 pm | | <p>FUTURE OF PDT AND PROGRAM SUMMARY</p> <p><i>Ron R. Allison</i></p> |

Disclosures

Ron R. Allison - No disclosure
Keith A. Cengel - No disclosure
Rosa Cuenca - No disclosure
Gordan H. Downie - No disclosure
M. Sam Eljamel - No disclosure
Colin Hopper - No disclosure
Thomas S. Mang - No disclosure
Herbert C. Wolfson - No disclosure

♥Recipient of Richard E. Fitzpatrick Clinical Research and Innovations Award.
♦Recipient of U.S. Air Force Office of Scientific Research travel grant.