

## Cutaneous Laser Surgery – Longhorn F

3:45 pm – 6:15 pm

Directors: *Mathew M. Avram, M.D., J.D., Paul M. Friedman, M.D.*

### HOT TOPICS: NEW LASERS AND NEW INDICATIONS

#### Educational Needs

This session focuses on the use of novel lasers, new indications, and innovative therapeutic techniques. Each of the topics of laser-assisted vehicle delivery, new technologies for in-office and home-use devices, and optimized treatment parameters for tattoo removal will be addressed. Participants will develop an understanding of the present treatment indications, therapeutic techniques, and new and innovative technologies.

#### Participants

This session will benefit physicians and health care personnel who treat cutaneous disorders in the disciplines of dermatology, plastic surgery, and facial plastic surgery. It will also benefit those engineers and medical device personnel who actively work to develop devices for the treatment of cutaneous disorders.

#### Background Requirements

Participants should have a basic understanding of the fundamentals of skin biology, laser physics, and laser tissue interaction.

#### Instructional Content and/or Expected Learning Outcomes

Attendees will gain knowledge of cutting edge laser treatments and their clinical applications in the treatment of a variety of cutaneous conditions.

#### Hot Topics

- Laser-assisted vehicle delivery
- Optimized techniques for tattoo removal

3:45 pm – 3:46 pm

Introduction - *Mathew M. Avram, Paul M. Friedman*

3:47 pm – 3:52 pm

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**MELANIN OPTICAL DENSITY AS A PREDICTOR OF MAXIMUM TOLERATED FLUENCE FOR PHOTODERMATOLOGY**

*Ilya Yaroslavsky<sup>1</sup>, Gregory Altshuler<sup>1</sup>, Guangming Wang<sup>2</sup>, Felicia Whitney<sup>2</sup>, Henry Zenzie<sup>2</sup>, Palomar Medical Technologies, Inc., Burlington, MA*

<sup>1</sup>Travel expenses, salary, stockholder, equity position with Palomar

<sup>2</sup>Salary, stockholder, equity position with Palomar

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

3:53 pm – 3:58 pm

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**QUALITY CONTROL AND THE PULSED DYE LASER: WHEN NOT TO TREAT**

*Joshua Shofner, Zeina Tannous, Mathew Avram, Massachusetts General Hospital, Boston, MA*

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

3:59 pm – 4:04 pm

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**OPTIMAL TATTOO REMOVAL IN ONE TREATMENT SESSION WITH NANOSECOND-DOMAIN LASER PULSES**

*Theodora Kossida➔, Dimitrios Rigopoulos, Andreas Katsambas, R. Rox Anderson, A. Syggros Skin Disease Hospital, National and Kapodistrian University of Athens Medical School, Athens, Greece, Wellman Center for Photomedicine, Massachusetts General Hospital, Harvard Medical School, Boston, MA*

➔Recipient of ASLMS travel grant.

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|-------------------|----|--|
| 4:05 pm - 4:10 pm | 77 | <p><b>COMBINATION OF MULTIPLE Q-SWITCHED WAVELENGTHS IMPROVES TATTOO CLEARANCE COMPARED TO SINGLE WAVELENGTH TREATMENT</b></p> <p><i>Arielle Kauvar<sup>1</sup></i>, New York Laser &amp; Skin Care, New York, NY<br/><sup>1</sup><i>Equipment from Candela</i></p>  |
| 4:11 pm - 4:16 pm | 78 | <p><b>REDISTRIBUTION OF INK FOLLOWING LASER TATTOO REMOVAL</b></p> <p><i>Arisa Ortiz➔</i>, <i>Mathew Avram</i>, University of California, Irvine, CA, Massachusetts General Hospital, Boston, MA</p>   |
| 4:17 pm - 4:22 pm | 79 | <p><b>A MULTI-CENTER EVALUATION OF THE MIRADRY SYSTEM TO TREAT SUBJECTS WITH AXILLARY HYPERHIDROSIS</b></p> <p><i>Mark Lupin</i>, <i>H. Chih-Ho Hong</i>, <i>Kathryn F. O'Shaughnessy</i>, University of British Columbia, Victoria, Canada, Vancouver, Canada, Miramar Labs, Sunnyvale, CA<br/>•Content discusses non-FDA approved device or off-label use</p>  |
| 4:23 pm - 4:37 pm |    | Q&A  |
| 4:38 pm - 4:43 pm | 80 | <p><b>A PILOT STUDY OF LASER ASSISTED DELIVERY OF ALLOGENIC MESENCHYMAL STEM CELLS</b></p> <p><i>Evangelos Badiavas</i>, <i>Stephen Davis</i>, <i>Jill Waibel</i>, Miller School of Medicine, University of Miami, Cutaneous Surgery Wound Healing Research Laboratory, Miami Dermatology and Laser Institute, Miami, FL<br/>•Content discusses non-FDA approved device or off-label use</p>   |
| 4:44 pm - 4:49 pm | 81 | <p><b>A SPLIT-FACE STUDY INVESTIGATING ALLUMERA COMBINED WITH MULTIPLE LASER AND LIGHT SOURCES FOR PHOTOREJUVENATION</b></p> <p><i>Sabrina Fabi</i>, <i>Jennifer Peterson</i>, <i>Mitchel Goldman<sup>1</sup></i>, Goldman Butterwick &amp; Associates, Cosmetic Laser Surgery, San Diego, CA<br/><sup>1</sup><i>Research grant from Photocure</i><br/>•Content discusses non-FDA approved device or off-label use</p>                 |
| 4:50 pm - 4:55 pm | 82 | <p><b>COMPARISON STUDY OF NON-ABLATIVE FRACTIONAL TREATMENT WITH AND WITHOUT ADVANCED SKIN COMPRESSION TECHNIQUE</b></p> <p><i>Taro Kono<sup>1</sup></i>, <i>Motoko Nakata</i>, <i>Hiroyuki Sakurai</i>, <i>Henry Chan</i>, Tokyo Women's Medical University, Tokyo, Japan, University of Hong Kong, Hong Kong, China<br/><sup>1</sup><i>Equipment from Palomar</i></p>  |
| 4:56 pm - 5:01 pm | 83 | <p><b>DEEP HEATING OF DERMIS USING NON-ABLATIVE FRACTIONAL TECHNIQUE WITH MICRO-COMPRESSION OPTICS</b></p> <p><i>Christine Dierickx<sup>1</sup></i>, <i>Sean Doherty<sup>2</sup></i>, Laser Clinic Boom, Boom, Belgium, Boston Plastic Surgery Associates, Concord, MA<br/><sup>1</sup><i>Equipment, travel expenses, research grant from Palomar</i><br/><sup>2</sup><i>Travel expenses, salary, equity position with Palomar</i></p> |

### LATE-BREAKING ABSTRACT

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|-------------------|--|--|
| 5:02 pm - 5:07 pm |  | <p><b>PULSE STACKING WITH A 1450nm LASER CAN INCREASE DEPTH OF TREATMENT</b></p> <p><i>Arisa Ortiz</i>, <i>William Lewis</i>, <i>R. Rox Anderson</i>, University of California, Irvine, CA, Wellman Center for Photomedicine, Boston, MA<br/>•Content discusses non-FDA approved device or off-label use</p> |
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5:08 pm - 5:21 pm		Q&A
5:22 pm - 5:27 pm	85	<p><b>HISTOLOGICAL EVALUATION OF A NON-ABLATIVE 1940nm FRACTIONAL LASER</b></p> <p><i>E. Victor Ross<sup>1</sup>, Chad Tingey, Yacov Domankevitz<sup>2</sup>, Kevin Schomacker<sup>2</sup>, James Hsia<sup>2</sup>, Scripps Clinic, San Diego, CA, Candela, Wayland, MA</i></p> <p><sup>1</sup>Financial grant, equipment, and honoraria from Candela <sup>2</sup>Salary from Candela •Content discusses non-FDA approved device or off-label use</p>
5:28 pm - 5:33 pm	86	<p><b>CLINICAL RESULTS OF NON-ABLATIVE FRACTIONAL PHOTOTHERMOLYSIS FOR HOME-USE TREATMENT OF PHOTODAMAGED SKIN</b></p> <p><i>Christopher Zachary<sup>1</sup>, Marieke van Grootel, Tom Nuijs, Kerrie Jiang, Steven Struck, University of California, Irvine, CA, Philips Research, Eindhoven, The Netherlands, Solta Medical, Hayward, CA, The Struck Clinic, Palo Alto, CA</i></p> <p><sup>1</sup>Travel expenses and educational support from Solta •Content discusses non-FDA approved device or off-label use</p>
5:34 pm - 5:39 pm	87	<p><b>EFFECTS OF DEVIATION FROM FOCAL PLANE ON LESION DEPTH AND DIAMETER FOR ABLATIVE FRACTIONAL PHOTOTHERMOLYSIS</b></p> <p><i>Garuna Kositrana<sup>1</sup>, Henry Char<sup>2</sup>, Dieter Manstein<sup>3</sup>, Wellman Center for Photomedicine, Boston, MA</i></p> <p><sup>1</sup>Research grant from Lumenis <sup>2</sup>Consulting fees and equity position with Lumenis <sup>3</sup>Consulting fees from Eleme, Quantel, Zeltiq; research grant from Lumenis; royalties from Candela, Elemé, Solta, Zeltiq, Zimmer; equity position with Zeltiq •Content discusses non-FDA approved device or off-label use</p>
5:40 pm - 5:45 pm	88	<p><b>PSEUDOMELANOMA FOLLOWING FRACTIONAL CO<sub>2</sub> LASER RESURFACING</b></p> <p><i>Deborah Sarnoff<sup>1</sup>, Robert Gotkin<sup>1</sup>, Ritu Saini, NYU Medical Center, New York, NY</i></p> <p><sup>1</sup>Equipment from Cynosure and DEKA</p>
5:46 pm- 5:51 pm	89	<p><b>ULCERATION OF MATURE SURGICAL SCARS FROM NON-ABLATIVE 1550nm FRACTIONAL LASER TREATMENTS ASSOCIATED WITH INTRA-LESIONAL LIDOCAINE INJECTIONS</b></p> <p><i>Gary Chuang➔, Zeina Tannous, Mathew Avram, Wellman Laboratories of Photomedicine, Massachusetts General Hospital, Harvard Medical School, Boston, MA</i></p>
5:52 pm - 5:57 pm	227	<p><b>ABLATIVE FRACTIONAL RESURFACING FOR TATTOO REMOVAL</b></p> <p><i>Omar Ibrahim, Fernanda Sakamoto, Mathew Avram, R. Rox Anderson, Wellman Center for Photomedicine, Boston, MA</i></p> <p>•Content discusses non-FDA approved device or off-label use</p>
5:58 pm - 6:15 pm		Q&A

➔Recipient of ASLMS travel grant.