

Basic Science: The Cutting Edge in Optical Diagnostics and  
Therapeutics of Tissues and Cells - Lecture Hall 207

3:45 pm - 5:35 pm

Directors: *Serge R. Mordon, Ph.D, J. Stuart Nelson, M.D., Ph.D.*

### MISCELLANEOUS

Moderator: *Wancun Jia, Ph.D.*

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|-------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3:45 pm - 3:54 pm                               | 22 | <p><b>TISSUE-RF INTERACTIONS AND BIOPHYSICS OF SKIN REJUVENATION USING FRACTIONAL RF TECHNOLOGY</b><br/><i>Avner Rosenberg<sup>1</sup>, Yossi Adanny<sup>1</sup>, Ulrich Toft<sup>1</sup>, Boris Vaynberg<sup>1</sup>, Ruthie Amir<sup>1</sup>, Syneron Medical, Yokneam, Illit, Israel</i></p> <p><sup>1</sup><i>Salary from Syneron</i><br/>•Content discusses non-FDA approved device or off-label use</p>                                                                                                                                               |
| 3:55 pm - 4:04 pm                               | 23 | <p><b>COMPARISON OF LASER INTERACTION MECHANISMS PRODUCED BY VARYING PULSE SHAPE AND PULSE DURATION IN ABLATIVE FRACTIONAL TREATMENT SETTINGS</b><br/><i>Vladimir Lemberg<sup>1</sup>, Rudolf Verdaasdonk<sup>2</sup>, Chris Jadcza<sup>2</sup>, Ray Choye<sup>1</sup>, Lumenis, Santa Clara, CA, University Medical Center, Utrecht, The Netherlands</i></p> <p><sup>1</sup><i>Salary from Lumenis</i><br/><sup>2</sup><i>Consulting fees from Lumenis</i></p>                                                                                             |
| 4:05 pm - 4:14 pm<br><i>(ePoster Available)</i> | 24 | <p><b>CONTROLLING THE SIZE OF THE HEATING VOLUME OF SUBCUTANEOUS ADIPOSE TISSUE USING A NOVEL RADIOFREQUENCY TECHNOLOGY</b><br/><i>Walfre Franco<sup>1</sup>, Amogh Kothare<sup>1</sup>, David J. Goldberg, Cutera, Brisbane, CA, Mount Sinai School of Medicine, New York, NY</i></p> <p><sup>1</sup><i>Salary from Cutera</i></p>                                                                                                                                                                                                                         |
| 4:15 pm - 4:24 pm<br><i>(ePoster Available)</i> | 25 | <p><b>HYPERTHERMIC INJURY TO ADIPOCYTE CELLS BY SELECTIVE HEATING OF SUBCUTANEOUS FAT WITH A NOVEL RADIOFREQUENCY DEVICE</b><br/><i>Walfre Franco<sup>1</sup>, Amogh Kothare<sup>1</sup>, Stephen J. Ronan, Roy C. Grekin<sup>2</sup>, Timothy H. McCalmont<sup>2</sup>, Cutera, Brisbane, CA, Blackhawk Plastic Surgery, Danville, CA, University of California, San Francisco, CA</i></p> <p><sup>1</sup><i>Salary from Cutera</i><br/><sup>2</sup><i>Consulting fees from Cutera</i><br/>•Content discusses non-FDA approved device or off-label use</p> |
| 4:25 pm - 4:34 pm<br><i>(ePoster Available)</i> | 26 | <p><b>MEASUREMENT OF INCREASED LIGHT TRANSMISSION AND STRAIN AS A FUNCTION OF MECHANICAL COMPRESSION IN EX VIVO PORCINE SKIN</b><br/><i>Alondra Izquierdo-Roman<sup>*</sup>, Christopher Rylander, Virginia Tech, Blacksburg, VA</i></p>                                                                                                                                                                                                                                                                                                                    |

<sup>\*</sup>Recipient of U.S. Air Force Office of Scientific Research travel grant.

# Basic Science Session

## Saturday, April 17, 2010

2010 Annual Conference  
Pre-Conference Courses: April 14-15, 2010  
Annual Conference: April 16-18, 2010  
Phoenix Convention Center, Phoenix, AZ

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|-------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4:35 pm - 4:44 pm<br><i>(ePoster Available)</i> | 27 | <p><b>TRANSCRANIAL NEAR INFRARED AND RED LIGHT TRANSMISSION IN A CADAVERIC MODEL</b></p> <p><i>Jared Jagdeo</i><sup>→</sup>, <i>Lauren Adams</i>, <i>David Bernstein</i>, <i>Michael Stewart</i><sup>1</sup>, <i>Alfred Intintoli</i><sup>1</sup>, <i>Neil Brody</i>, <i>Daniel Siegel</i><sup>2</sup>, SUNY Downstate, Brooklyn, NY, PhotoMedex, Montgomeryville, PA</p> <p><sup>1</sup>Salary from PhotoMedex<br/><sup>2</sup>Scientific advisory board for PhotoMedex</p> |
| 4:45 pm - 4:54 pm<br><i>(ePoster Available)</i> | 28 | <p><b>TRANSDERMAL LIGHT DELIVERY USING FIBEROPTIC MICRONEEDLES</b></p> <p><i>Mehmet Kosoglu</i><sup>*</sup>, <i>Ye Chen</i>, <i>Christopher Rylander</i>, Virginia Tech, Blacksburg, VA</p>                                                                                                                                                                                                                                                                                  |
| 4:55 pm - 5:04 pm                               | 29 | <p><b>ANALYSIS OF AESTHETIC PROCEDURES USING PULSED LASERS, RF AND IPL</b></p> <p><i>Jui-teng Lin</i>, <i>Yu-Ling Hong</i>, National Taiwan University, Taipei, Taiwan</p> <p>•Content discusses non-FDA approved device or off-label use</p>                                                                                                                                                                                                                                |
| 5:05 pm - 5:14 pm                               | 30 | <p><b>COLORIMETRIC ANALYSIS OF SEASONAL, DAILY, AND ACUTE VARIATIONS OF SKIN COLOR</b></p> <p><i>Mitja Knez</i>, <i>Matija Milanic</i>, <i>Boris Majaron</i>, Jozef Stefan Institute, Ljubljana, Slovenia</p>                                                                                                                                                                                                                                                                |
| 5:15 pm - 5:24 pm<br><i>(ePoster Available)</i> | 31 | <p><b>BLOOD FLOW ASSESSMENT WITH MRI AFTER 1.9<math>\mu</math>M DIODE LASER ASSISTED MICROVASCULAR VEIN ANASTOMOSIS: AN ISSUE FOR FREE FLAPS VENOUS CONGESTION?</b></p> <p><i>Serge Mordon</i>, <i>Franck Leclère</i>, <i>Florent Auger</i>, <i>Bruno Buys</i>, INSERM U703, Loos, France, INSERM IMPRT 114, Lille, France</p>                                                                                                                                               |
| 5:25 pm - 5:35 pm                               | 32 | <p><b>OPTICAL CHARACTERIZATION OF PIGMENTED SKIN LESIONS IN THE NEAR-INFRARED</b></p> <p><i>Rolf Saager</i>, <i>Kelly Sry</i>, <i>Clement Kondru</i>, <i>Amr Yafi</i>, <i>Kristen Kelly</i>, <i>Anthony Durkin</i>, Beckman Laser Institute and Medical Clinic, University of California, Irvine, CA</p> <p>•Content discusses non-FDA approved device or off-label use</p>                                                                                                  |

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→Recipient of ASLMS travel grant.