OSA Incubator Low Level Light Therapy: the Path Forward

20-22 August
OSA Headquarters ● 2010 Massachusetts Ave. NW ● Washington, DC, USA

HOSTED BY:
Juanita Anders, Uniformed Services University of the Health Sciences; Praveen Arany, National Institute of Health; James Carroll, THOR Photomedicine Ltd; Michael R Hamblin, Harvard Medical School; Donald E. Patthoff, DDS

AGENDA

Wednesday, 20 August 2014

18:00 Welcome Dinner
Ezme, 2016 P Street, NW

Thursday, 21 August 2014

8:00 Breakfast
OSA Headquarters, 2010 Massachusetts Ave., NW

8:30 Welcome
Elizabeth Rogan, Chief Executive Officer, OSA, USA

8:45 Overview of the Goals of the Incubator
Juanita Anders, Uniformed Services University of the Health Sciences, USA
Michael R Hamblin, Harvard Medical School, USA

9:00 History of Low Level Light Therapy
Howard Schlossberg, Air Force Office of Scientific Research (rtd), USA

BASIC MECHANISMS SESSION

9:20 Biological Chromophores, Action Spectra vs Absorption Spectra, Wavelength & Target Tissue
Juanita Anders, Uniformed Services University of the Health Sciences, USA

9:50 Activation of Growth Factor Complex Leads to Therapeutic Benefits of Laser Photobiomodulation on Stem Cells
Praveen Arany, National Institute of Health, USA
Thursday, 21 August 2014, continued

10:20  Mitochondria, Reactive Oxygen Species & Activation of Transcription Factors
       Mike Hamblin, Harvard Medical School, USA

10:50  Group Discussion

11:20  Break

INTRODUCTION TO SOCIAL & ETHICAL ISSUES SESSION

11:50  Panel: The Contrasting Impacts of Professional Ethics and Market-Based
       Thinking on the Commitments of Professional Health Organizations
       Moderator: Don Patthoff, DDS, USA
       Speaker: David Ozar, Loyola University Chicago, USA
       Panel members: Gail Siminovsky, Academy of Laser Dentistry, USA
                    Scott Benjamin, Advanced Integration & Mentoring, USA

12:50  Lunch, provided

PRE-CLINICAL SESSION

13:50  Transcranial LLLT for Traumatic Brain Injury & Beyond
       Mike Hamblin, Harvard Medical School, USA

14:20  Low Level Light Therapy for Autoimmune Demyelination: Observations &
       Considerations
       Jeri-Anne Lyons, University of Wisconsin-Milwaukee, USA

14:50  Exploring Photobiomodulation Dose Regimens Via Optimization of Preclinical
       In Vitro and Animal Models
       Praveen Arany, National Institute of Health, USA

15:20  Group Discussion

15:50  Break
Thursday, 21 August 2014, continued

DEVICES/DOSIMETRY SESSION

16:10 Devices, Measurement Problems and Reliability
James Carroll, THOR Photomedicine Ltd, USA

16:40 Dosimetry: Separating Fact & Fiction: The Scientific Basis for Current Wavelength & Dose Recommendations
Juanita Anders, Uniformed Services University of the Health Sciences, USA

17:10 Laser Penetration & the Thrills and Spills of an LLLT/PBM Startup
Clark Tedford, LumiThera, Inc., USA

17:40 Group Discussion

18:10 Dinner
Sette Osteria, 1666 Connecticut Avenue, NW

Friday, 22 August 2014

8:00 Breakfast
OSA Headquarters, 2010 Massachusetts Ave., NW

CLINICAL EXPERIENCES/APPLICATION SESSION

8:30 Clinical Use of Low Level Light Therapy: A Focus on Pain (via weblink)
Roberta Chow, Australian Medical Laser Association, Australia

9:00 Research with Transcranial LED to Improve Cognition in Chronic, TBI
Margaret Naeser, VA Boston Healthcare System, USA

9:30 Why is LLLT/PBM Not a Routine Treatment for Oral Mucositis in the USA?
Nathaniel Treister, Brigham and Women's Hospital, USA

9:45 How We Adopted LLLT/PBM for Cancer Therapy Side-effects
Annette Quinn, University of Pittsburgh, USA

10:00 Group Discussion

10:30 Break
Friday, 22 August 2014, continued

SOCIAL & ETHICAL ACTIONS SESSION

11:05  Towards Developing a Consensus on Professional Commitments for a New Collaborative Initiative in Health Care
       Moderator: Don Patthoff, DDS, USA
       Speaker: David Ozar, Loyola University Chicago, USA
       Panel members: Clark Tedford, LumiThera, Inc., USA
                      Allan Gardiner, PhotoMed Technologies, Inc., USA

11:30  Group Discussion

12:00  Lunch, provided

13:00  Group Discussion
       Moderated by the Hosts
       Where do we want to go?
       What do we need to get us there?

15:30  Adjourn