



THE POWER OF LIGHTS

In Las Vegas



SCHEDULE AT A GLANCE



THURSDAY, OCTOBER 15, 2026 | PRE-CONFERENCE

7:30-8:00am..... Registration

THURSDAY EDUCATIONAL COURSES

8:00-10:00am..... **Room 1: PBM in Supportive Care in Cancer**..... Prof. René-Jean Bensadoun
8:00-10:00am..... **Room 2: PBM in Wound Care**..... Prof. Praveen Arany
8:00-10:00am..... **Room 3: PBM Applications in Dentistry and Orofacial Disorders**..... Prof. Reem Hanna & Prof. Juanita Anders
8:00-10:00am..... **Room 4: PBM and the Mitochondria**..... Dr. Lilach Gavish
10:00-10:30am..... **Break**
10:30am-12:30pm..... **Room 1: Trials and Research Methodology**..... Prof. Praveen Arany & Prof. Liisa Laakso
10:30am-12:30pm..... **Room 2: PBM in Musculoskeletal Applications**..... Prof. Nivaldo Parizotto & Prof. Cleber Ferraresi
10:30am-12:30pm..... **Room 3: PBM in Neurology**..... Prof. Paolo Cassano
10:30am-12:30pm..... **Room 4: PBM and the Microcirculation: Mechanism and Applications**..... Dr. Lilach Gavish
12:30-1:30pm..... **Lunch**

THURSDAY WORKSHOPS

1:30-3:30pm..... **Room 1: AI-Guided Personalized Brain Intervention (PBI): A Live Demo of Real-Time Adaptive PBM**..... Dr. Lew Lim, Dr. Reza Reza Zomorodi, Dr. Sorenza Bastiaens
1:30-3:30pm..... **Room 2: PBM Beyond the Clinic: From Episodic Treatment to a Continuum of Care**..... Dr. J. Chris Castel, Dr. Dawn S. Castel, Dr. Violet Bumah, Dr. Roberto Pinelli, Dr. Liisa Laakso
3:30-4:00pm..... **Break**
4:00-5:30pm..... **Room 1: AI-Guided Personalized Brain Intervention (PBI): A Live Demo of Real-Time Adaptive PBM**..... Dr. Lew Lim, Dr. Reza Reza Zomorodi, Dr. Sorenza Bastiaens

FRIDAY, OCTOBER 16, 2026

8:00-8:40am..... **Keynote Lecture: Recent Advances in Photobiomodulation: From Precision Personalized Care to Policy Updates**..... Praveen Arany, PhD, DDS
8:40-9:20am..... **Keynote Lecture: Innovative Flapless Periodontal Surgery Using Er:YAG Laser: Er-LCPT**..... Akira Aoki, DDS, PhD
9:20-10:00am..... **Keynote Lecture: Mastering the Parameters of PBM**..... Jan Tunér, DDS
10:00-10:30am..... **Break**

FRIDAY PLENARY SESSION

Theme: From Mechanisms to Clinical Practice: Translating PBM Science into Evidence-Based Care

10:30-10:55am..... **Photobiomodulation at 660 nm Activates Wnt/ β -Catenin Signalling & Enhances Wound Healing**..... Prof. Nicolette Hourel
10:55-11:20am..... **Lucia Proprio: Rationalized Cell Lineage & Contextual PBM Responses for Optimal Clinical Treatment Outcomes**..... Prof. Praveen Arany
11:20-11:45am..... **PBM in Cancer Supportive Care: Evidence-Based Indications, Clinical Applications, and Future Perspectives**..... Prof. René-Jean Bensadoun
11:45am-12:10pm..... **WALT Position Paper 2026: PBM Therapy for Orofacial Neuropathic Pain—Clinical Practice Guidelines & Consensus Using the HANNA Framework**..... Prof. Reem Hanna
12:10-12:35pm..... **Photobiomodulation and Lasers: Are We Treating the Brain?**..... Dr. Paolo Cassano
12:35-1:30pm..... **Lunch**
1:30-2:30pm..... **WALT AGM—Members Only**

FRIDAY BREAKOUT ROOM SESSIONS

Room 1: PBM in Neurology & Brain Disorders—Part 1

2:30-2:45pm..... **Case Studies of the Use of PBM Therapy for 7 Years: Patient Commitment to Long-Term Therapy for Parkinson's Disease**..... Dr. Brian Bicknell
2:45-3:00pm..... **Transcranial 1064 nm Laser PBM Improves Prefrontal Hemodynamic Response & Cognitive Function in Adults with ADHD**..... Dr. Farzad Salehpour
3:00-3:15pm..... **Non-Invasive Blood Photobiomodulation Reduces ASD Symptoms in Young Children: A Pilot Study**..... Dr. Daiane Meneguzzo
3:15-3:30pm..... **Intranasal & Transcranial Photobiomodulation Traumatic Brain Injury: Translational & Clinical Evidence**..... Dr. Lew Lim

Room 2: PBM in Wound Healing

2:30-2:45pm..... **Advances in Electrospun Nanofibrous Scaffolds & Photobiomodulation Therapy for Diabetic Wounds**..... Prof. Sathish Sundar Dhilip Kumar
2:45-3:00pm..... **Laser-Stimulated Human Gingival Fibroblasts: Alterations in Migration, Secretome Production, & Induction of Reactive Oxygen Species**..... Dr. Marggie Grajales Ramirez
3:00-3:15pm..... **Effects of Photobiomodulation as Adjunctive Therapy on Pressure Ulcer Healing: A Randomized Clinical Study**..... Dr. Magda Souza Viana
3:15-3:30pm..... **Optimizing Wound Healing Outcomes Using Photobiomodulation Therapy**..... Dr. Sara Ciurca

Room 3: PBM in Cardiology

2:30-2:45pm..... **Acute Effects of Whole-Body PBM on Blood Pressure in Individuals with Hypertension**..... Dr. Lara Maria Bataglia Espósito
2:45-3:00pm..... **Whole-Body PBM in Individuals with Type 2 Diabetes Mellitus & Hypertension**..... Prof. Cleber Ferreresi
3:00-3:15pm..... **Skin Temperature Changes Following Whole-Body PBM in Individuals with Hypertension**..... Dr. Lara Maria Bataglia Espósito
3:15-3:30pm..... **Effects of Vascular PBM as an Adjunct Therapy in the Treatment of Sickle Cell Disease: Impact on Pain, Vital Signs, & Hematology**..... Dr. Thais Azevedo Reis

3:30-4:00pm..... Break

Room 1: PBM in Neurology & Brain Disorders—Part 2

4:00-4:15pm..... **5-Year Follow-Up of PBM in Parkinson's Disease: A Case Series Exploring Clinical Stability & Microbiome Modulation**..... Dr. Brian Bicknell
4:15-4:30pm..... **Home-Based Intranasal & Transcranial PBM for Cognitive Dysfunction in Post-COVID Condition**..... Dr. Lew Lim
4:30-4:45pm..... **Improving Aphasia Outcomes with Transcranial PBM Combined with Speech-Language Therapy: A Case Study**..... Dr. Karla Estrada Rojas
4:45-5:00pm..... **EEG-Guided PBM for Cognitive & Neuropsychiatric Outcomes: A Translational Clinical Approach**..... Dr. Kody Newman
5:00-5:15pm..... **Mitochondrial Membrane Potential & Mitophagy as Modulators of Light Therapy**..... Dr. Violet V. Bumah
5:15-5:30pm..... **Route-Specific Brain Effects of Photobiomodulation & Control of Brain-State Dynamics**..... Dr. Lew Lim

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FRIDAY, OCTOBER 16, 2026

FRIDAY BREAKOUT ROOM SESSIONS

Room 2: PBM in Dentistry & Orofacial Disorders

4:00-4:15pm	904 nm Laser PBM Increases Mitochondrial Membrane Potential in Cell Bodies of Neonatal Dorsal Root Ganglion Neurons & Schwann Cells in Vitro	Dr. Roberta Chow
4:15-4:30pm	Photobiomodulation Future of Medicine	Prof. Dana York
4:30-4:45pm	Fast but Not Furious! PBM Therapy in Alleviating Pain & Accelerating Orthodontic Tooth Movement in Children	Prof. Chandrashekar Yavagal
4:45-5:00pm	Applications of Photobiomodulation in Periodontal Practice: Case Series	Dr. Janina Golob Deeb
5:00-5:15pm	Analgesic Outcomes of 650 nm vs. 810 nm Diode Laser PBM After Dental Implant Placement	Dr. Mohamed Yehya
5:15-5:30pm	PBM Therapy for Management of Post-Treatment Dental Paresthesia: A Clinical Protocol & Case Series	Dr. Saba Khan

Room 3: PBM in Supportive Care in Cancer

4:00-4:15pm	Feasibility & Efficacy of PBM in the Prevention & Treatment of Radiotherapy-Induced Oral Mucositis & Radiation Dermatitis	Dr. Belinda Mandrell
4:15-4:30pm	Targeting Oral Neuropathic Pain with PBM: Mechanisms, Clinical Applications, & Implementation in Cancer Supportive Care	Prof. Reem Hanna
4:30-4:45pm	PBM in Breast Cancer-Related Lymphoedema: Effects on Limb Volume & Quality of Life	Dr. Kate Perkins
4:45-5:00pm	Impact of PBM on Oral Mucositis, Pain, & Microbiota in Head & Neck Cancer Patients Undergoing Antineoplastic Therapy	Dr. Iasmym Mendes de Jesus
5:00-5:15pm	Clinical & Economic Benefits of PBM for Oral Mucositis: Reduced Pain, Opioid Use, Hospitalisation, & Cost	Mr. James Carroll
5:15-5:30pm	Timing of Photobiomodulation in Head & Neck Radiotherapy: Impact on Radiation-Induced Fibrosis	Dr. Kate Perkins

SATURDAY, OCTOBER 17, 2026

8:00-8:40am	Keynote Lecture: The Systematic Effects of Photobiomodulation Therapy: A Review of Evidence For and Against	Juanita Anders, PhD
8:40-9:20am	Keynote Lecture: Advances in Laser-Assisted Regenerative Periodontal and Peri-Implant Plastic Surgery	Homa H. Zadeh, DDS, PhD
9:20-10:00am	Keynote Panel: The Evolving Role of PBM in Orofacial, Head, & Neck Care: Expert Roundtable	Drs. J. Chris Castiel, Praveen Arany, Chukuka S. Enwemeka, & Violet V. Bumah
10:00-10:30am	Break	

SATURDAY PLENARY SESSION

Theme: Advancing Precision PBM: Innovation, Regeneration, & Intelligent Clinical Translation

10:30-10:55am	Effects of Resistance Training With/Without PBM on Muscle & Respiratory Function in Difficult-to-Control Asthma	Prof. Nivaldo Parizotto
10:55-11:20am	Artificial Intelligence as a Framework for Precision Photobiomodulation Dosing	Prof. Liisa Laakso
11:20-11:45am	Photobiomodulation Promote Tenogenic Fate in Adipose Mesenchymal Stem Cells in Three Dimensional Hydrogels	Prof. Heidi Abrahamse
11:45am-12:10pm	PBM Combined with Dynamic Thermal Imaging: An Emerging Approach for Functional Assessment of Microvascular Responses	Dr. Lilach Gavish
12:10-12:35pm	Photobiomodulation Regulates Neural Organoid Formation from Adipose-Derived Stem Cells in a 3D Culture Model	Prof. Anine Crous
12:35-1:00pm	Mechanisms of Effectiveness of PBM on Somatosensory Neurons & The Peripheral Nervous System	Dr. Roberta Chow
1:00-2:00pm	Lunch	

SATURDAY BREAKOUT ROOM SESSIONS

Room 1: PBM in Basic Science

2:00-2:15pm	Standardized PBM Dosimetry Enhances Bone Regeneration in Critical-Size Calvarial Defects: Influence of Beam Profile & Bio-Oss®	Prof. Reem Hanna
2:15-2:30pm	Optimizing PBM to Enhance Smooth Muscle Differentiation of Adipose-Derived Stem Cells in a 2D Model	Prof. Blassan George
2:30-2:45pm	Assessment of Dose-Dependent Effects of 1064 nm PBM Therapy on Human Tenocyte- & Bursa-Derived Cell Proliferation in Vitro	Mr. Zachary W. Sigman
2:45-3:00pm	PBM with 976 nm Diode Laser Enhances Osteoblastic Differentiation of Saos-2 Cells Cultured on Collagen Membranes	Dr. Marggie Grajales Ramirez
3:00-3:15pm	Artificial Intelligence as a Dosimetry Engine in Cross-Platform PBM: Predictive Modeling & Adaptive Protocol Design	Mr. Alan Kwong Hing
3:15-3:30pm	Near-Infrared PBM Therapy Improves Brain & Cardiovascular Function & Heart-Brain Communication in a Mouse Model of Alzheimer's Disease	Dr. Olga Fedorova

Room 2: PBM Metabolic & Endocrine Disorders

2:00-2:15pm	Does PBM Reduce Impact of Extraintestinal Manifestations & Influence the Gut Microbiome in Young Adults with Inflammatory Bowel Disease?	Prof. Liisa Laakso
2:15-2:30pm	Photobiomodulation in Kidney Disease: From Bench to Bedside	Dr. Ann Liebert
2:30-2:45pm	PBM in Chronic Autoimmune Thyroiditis: Novel Glutathione Modulation in Early Disease & Clinical Outcomes	Prof. Venera Berisha-Muharremi
2:45-3:00pm	Acute Effects of Whole-Body PBM on Glycaemic Control in Individuals with Diabetes Type 2	Prof. Cleber Ferraresi
3:00-3:15pm	Accelerated Reversal of Metabolic Syndrome with Adjunct Phototherapy	Dr. Denis J. Gendron
3:15-3:30pm	Closing Remarks	
3:30-4:00pm	Break	

Room 1: PBM in Musculoskeletal Applications

4:00-4:15pm	Photobiomodulation Therapy for Knee Osteoarthritis (KOA) Applications Using a Novel Wearable PBM Device	Prof. Liisa Laakso
4:15-4:30pm	Self-Applied Home-Use Photobiomodulation Therapy Reduces Pain in Patients with Knee Osteoarthritis	Dr. Lilach Gavish
4:30-4:45pm	Effect of Photobiomodulation Therapy on Disability and Function in Low Back Pain	Prof. Cleber Ferraresi
4:45-5:00pm	Observational Study on the Use of PBM Lightforce Device in 227 Cases of Musculoskeletal Disorders: An 18-Month Follow-Up	Dr. Karim Kleiber
5:00-5:15pm	Photobiomodulation in Diabetes: Targeting Neurovascular Dysfunction for Tissue Regeneration	Dr. Victória Regina da Silva Oliveira

Room 2: PBM in Health, Performance, Longevity

4:00-4:15pm	The Effects of PBM on Heart Rate, Heart Rate Variability, VO ₂ Max, Sleep Quality, & Implications for Longevity & Health Span	Mr. James Carroll
4:15-4:30pm	PBM in Complex Female Infertility Profile: A Case Report with 12-Month Follow-Up & Review of Current Mechanism in Reproductive Photomedicine	Ms. Ruth Phipers
4:30-4:45pm	Diode Laser Assisted Facial Lifting: A New Technical & Case Report	Dr. Pilar Blanco
4:45-5:00pm	Why I Do Not Believe Your Dose: Beam Power, Beam Area, Irradiance, & Reproducibility in Photobiomodulation	Mr. James Carroll
5:00-5:15pm	Analysis of the Role Dental Sleep Medicine in the Detection, Assessment, & Therapeutic Support of Patients with Obstructive Sleep Apnea	Dr. Pilar Blanco
5:15-5:30pm	WALT Award for Best Young Investigator Presentation	

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