



PBM2024 **LONDON**

AUGUST 23rd-25th, 2024

PBM2024 SCIENTIFIC PROGRAM

→	FRIDAY, AUGUST 23rd	2
→	SATURDAY, AUGUST 24th	7
→	SUNDAY, AUGUST 25th	27

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FRIDAY, AUGUST 23rd

10:00 - 17:30	REGISTRATION AND HELPDESK WESTMINSTER (LEVEL -3)
13:00 - 15:00	EDUCATIONAL COURSES – PLAZA (LEVEL -1)
	<p style="color: #c00000; margin: 0;">ROOM 1 – 13:00-15:00</p> <p style="margin: 0;">Musculoskeletal Applications</p> <p style="margin: 0;">Speaker: Prof. Ernesto Cesar Pinto Leal-Junior</p>
	<p style="color: #c00000; margin: 0;">ROOM 2 – 13:00-15:00</p> <p style="margin: 0;">Dentistry/Orofacial Disorders</p> <p style="margin: 0;">Speaker: Prof. Reem Hanna</p>
	<p style="color: #c00000; margin: 0;">ROOM 3 – 13:00-15:00</p> <p style="margin: 0;">Clinical Trials And Research Methodology</p> <p style="margin: 0;">Speaker: Prof. Praveen Arany</p>
	WORKSHOPS – PLAZA (LEVEL -1)
	<p style="color: #c00000; margin: 0;">ROOM 4 – 13:00-14:00</p> <p style="margin: 0;">Symbyx Biome</p> <p style="margin: 0;">New Developments in Gut Focused Light Therapy</p>
	<p style="color: #c00000; margin: 0;">ROOM 4 – 14:00-15:00</p> <p style="margin: 0;">SunPower LED</p> <p style="margin: 0;">Depth of Penetration: LEDs and Lasers.PBM for Opiates, Depression & Concussion</p>

<p>15:00- 15:15</p>	<p>COFFEE BREAK EXHIBITION AREA (LEVEL -3)</p>
<p>15:15 - 17:15</p>	<p>EDUCATIONAL COURSES - PLAZA (LEVEL -1)</p> <hr/> <p>ROOM 1 — 15:15-17:15 PBM In Neurology Speaker: Prof. Michael Hamblin</p> <hr/> <p>ROOM 2 — 15:15-17:15 Wound Healing Speaker: Prof. Praveen Arany</p> <hr/> <p>ROOM 3 — 15:15-17:15 Supportive Care In Cancer Speaker: Prof. René-Jean Bensadoun</p> <hr/> <p>WORKSHOPS — PLAZA (LEVEL -1)</p> <hr/> <p>ROOM 4 — 15:15-16:15 Prism Light Pod “PBM Versatility Across Multiple Industries”</p> <hr/> <p>ROOM 4 — 16:15-17:15 Australian Medical Photobiomodulation Association Advocacy, Research And Education: The Role Of Pbm Associations Past Present And Future</p>

17:30 -
18:00

OPENING CEREMONY
PLENARY ROOM, WESTMINSTER (LEVEL -3)

17:30-17:45

PBM2024 Chair Welcome

Prof. Reem Hanna (UK) - Chair OF PBM2024

17:45-18:00

**A Brief History of the First Discovery of
 Photobiomodulation By Prof. Endre Mester
 (Father of Photobiomodulation)**

Prof. Adam Mester (Hungary (The son of Prof.
 Endre Mester)

18:00 -
19:30

**PHOTOBIMODULATION LEADERSHIP -
 GROUNDBREAKING RESEARCH**
PLENARY ROOM, WESTMINSTER (LEVEL -3)

18:00-18:15

**Thirty Years Of Experience In
 Photobiomodulation Groundbreaking
 Research in Mitigating Adverse Effects of
 Oncology Therapies - A New Paradigm of
 Preventive and Therapeutic Approaches**

Prof. René-Jean Bensadoun (France)
 WALT President

18:15-18:30

The Evolution of Photobiomodulation in Treating Diabetic Complications

Prof. Nicolette Houreld (South Africa)

WALT President-Elect

18:30-18:45

Current State of Clinical Translation of Photobiomodulation Therapy

Prof. Praveen Arany (USA)

WALT Past President

18:45-19:00

Forty Years of Progress in Photobiomodulation

Prof. Chukuka Enwemeka (USA)

WALT Past President

19:00-19:15

Ground Breaking Research Applications Of PBMT For Brain Disorders

Prof. Michael Hamblin (UK)

World-Renowned Photobiomodulation Authority

19:15-19:30

Research that Established the use of PBM to Modify Functions of the Nervous System

Prof. Juanita Anders (USA)

Globally Recognized Expert In PBM Research

19:30 -
20:15**PHOTOBIMODULATION - SHARING
RESEARCH EXPERIENCES****PLENARY ROOM, WESTMINSTER (LEVEL -3)**

19:30-19:45

**Photobiomodulation In Ophthalmology:
Development Of The Multiwavelength
Valeda Light Delivery System For Treatment
Of Degenerative Ocular Disease**Dr. Clark Tedford (USA)
President, Lumithera Inc.

19:45-20:00

**NHS Adoption of PBM for Cancer Therapy
Late Effects**Ms. Emma Hallam (UK)
NHS Consultant Therapeutic Radiographer

20:00-20:15

**The Evidence for PBM vs
Pharmacotherapies**Prof. Jan Bjordal (Norway)
WALT Past President20:15 -
22:00**PBM2024 CONGRESS WELCOME RECEPTION
AND EXHIBITOR VISIT****EXHIBITION AREA, WESTMINSTER (Level -3)**

SATURDAY, AUGUST 24th

8:00 - 8:30	<p>WELCOME COFFEE WESTMINSTER- EXHIBITION AREA (LEVEL -3)</p>
8:00 - 17:30	<p>REGISTRATION AND HELPDESK WESTMINSTER (LEVEL -3)</p>
8:30 - 10:30	<p>NEUROREHABILITATION PLENARY ROOM, WESTMINSTER (LEVEL -3)</p> <p>CHAIRS: Prof. Michael Hamblin, Prof. Paul Chazot, Prof. Paolo Cassano</p>
	<p>PLENARY ROOM — 8:30-8:55</p> <p>Prof. Michael Hamblin History and Mechanisms of Photobiomodulation, with a Focus on Treatment of Brain Disorders</p>
	<p>PLENARY ROOM — 8:55-9:20</p> <p>Prof. Paul Chazot PBM-T 1070 for Diabetic Hyperglycaemic Neuro- and Retinopathies: Validation for Clinical Use</p>
	<p>PLENARY ROOM — 9:20-9:45</p> <p>Prof. Paolo Cassano Brain Photobiomodulation for Major Depressive Disorder: Guided by Neurophysiology</p>

PLENARY ROOM — 9:45-10:00

Dr. Andrew Stevens

Implantable and Transcutaneous Photobiomodulation Promote Neurogeneration and Recovery of Lost Function After Spinal Cord Injury

PLENARY ROOM — 10:00-10:15

Dr. Ann Liebert

Photobiomodulation Treatment Of Parkinson’s Disease within an Interdisciplinary Integrative Approach: The Way Forward for Meaningful Improvement?

PLENARY ROOM — 10:15-10:30

Dr. Brian Bicknell

Case Studies of a Five-Year Follow-Up of the Photobiomodulation Treatment Of Parkinson’s Disease Symptoms

8:30 -
10:30

STEM CELLS AND REGENERATIVE MEDICINE

ROOM 1, PLAZA (LEVEL -1)

CHAIRS: Prof. Heidi Abrahamse, Prof. Nicolette Houreld

ROOM 1 — 8:30-9:00

Prof. Heidi Abrahamse

Revolutionizing Regenerative Medicine:
Transforming Mesenchymal Stem Cells Into
Osteoblasts Through Three-Dimensional Cell
Culture

ROOM 1 — 9.00-9:15

Dr. Anie Crous

Utilizing Photobiomodulation To Enhance
The Neural Embryoid Body Formation Of
Immortalized Stem Cells From Adipose Tissue

ROOM 1 — 9.15-9:30

Dr. Neda Hakimiha

An Evaluation of Photobiomodulation Effects on
Periodontal Ligament Mesenchymal Stem Cells
Treated with Zoledronic Acid

ROOM 1 — 9:30-09.45

Dr. Bardia Sepehrmand

The Comparison of Effects Of 6 Different Wavelengths of IR and Visible Photobiomodulation Therapy on Human Mesenchymal Stem Cells

ROOM 1 — 09:45-10:00

Nasrin Farhadian

Effects of Light Emitting Diode and Low-Level Laser Irradiation on Angiogenesis by Human Umbilical Vein Endothelial Cells

ROOM 1 — 10:00-10:15

Dr. Federic Cuisinier

Zebrafish Tail Regeneration: A New Model For Assessing Photobiomodulation

ROOM 1 — 10:15-10:30

Dr. Avidah Maboudi

Clinical And Radiographic Efficacy of PBM, PRF, and their Combination for Socket Preservation

8:30 -
10:30

PBM VERSUS ANTIMICROBIAL AND ANTIVIRAL APPLICATIONS

ROOM 2, PLAZA (LEVEL -1)

CHAIRS: Prof Chukuka Enwemeka, Dr. Scott
Sigman
Dr. Violet Bumah

ROOM 2 — 8:30-8:50

Prof. Chukuka Enwemeka

Advances In Pulsed Blue Light Inactivation Of
Bacteria And Viruses

ROOM 2 — 8:50-9:10

Dr. Scott Sigman

Evaluation Of Adjunctive Photobiomodulation
(PBMT) For Covid-19 Pneumonia Via Clinical
Status And Pulmonary Severity Indices In A
Preliminary Trial

ROOM 2 — 9:10-9:30

Dr. Lilach Gavish

Pulsed Blue Light And Phage Therapy
Synergistic Bactericidal Effect Over
Pseudomonas Aeruginosa Preformed Biofilm

ROOM 2 — 9:30-9:45

De'ja Graves

Pulsed Blue Light Inactivates Respiratory
Syncytial Virus (RSV)

ROOM 2 — 9:45-10:00

Dr. Daiane Meneguzzo

Different Modalities Of Photobiomodulation In The Recovery Of Taste And Smell After Covid

ROOM 2 — 10:00-10:15

Dr. Islam Kassem

Diode Laser In Management Of Loss Of Taste Sensation In Patients With Post-Covid Syndrome: A Randomized Clinical Trial

ROOM 2 — 10:15-10:30

Dr. Carlos Eduardo Girasol

Bacterial Sensitivity To Antibiotics After Irradiation With Led (Light Emitting Diode): *In Vitro*

8:30 -
10:30

YOUNG INVESTIGATOR - BASIC SCIENCES

ROOM 3, PLAZA (LEVEL -1)

CHAIRS: Prof. René-Jean Bensadoun; Prof. Praveen Arany, Prof. Reem Hanna

ROOM 3 — 8:30-8:43

Dr. Francesca Cialdai

Effects Of Photobiomodulation By MLS-MIS Laser On Models Of Fibroblast Activation: Implications For Wound Healing

ROOM 3 — 8:43-8:56

Dr. Carolina Fernandes Mestriner

Influence Of Photobiomodulation On The Viability Of Multipotent Mesenchymal Stem Cells From Adipose Tissue *In Vitro*

ROOM 3 — 8.56-9.09

DR. Tianxiang Fan

The Optimal Wavelength And Energy Density Of Light Emitting Diode (LED) For Inflammation And Regeneration In Osteoarthritis-Associated Cells

ROOM 3 — 9:09-9:22

Zuzanna Grzech-Leśniak

PBM Effectiveness On Biofilm Of *Candida Spp* And *Streptococcus Mutans* - An *In Vitro* Study

ROOM 3 — 9:22-9:35

Dr. Sohrab Asefi

Photobiostimulatory Effects Of Low Dose Photodynamic Therapy With 2 Photosensitizer Drugs On Human Mesenchymal Stem Cells

ROOM 3 — 9:35-9:48

Dr. Hannah Van Lankveld

The Real-Time EEG Response Of Transcranial Photobiomodulation And The Effect Of Light Pulsation Frequency

ROOM 3 — 9:48-10:01

Dr. Lauren Milam

The Effects Of Pulsed Blue Light On Commensal Microflora

ROOM 3 — 10:01-10:14

Dr. Lydia Kitchen

1068 nm PBM-T For The Treatment Of Neurological Complications Of Covid-19: An *In Vitro* Study

ROOM 3 — 10:14-10:27

Dr. Hanieh Nokhbatolfoghahaei

An *In Vitro* Investigation Of The Effect Of Low-Power Laser Therapy And Strontium Ranelate On The Differentiation Of Mesenchymal Stem Cells

<p>10:30 - 11:00</p>	<p>COFFEE BREAK AND EXHIBITOR VISIT WESTMINSTER- EXHIBITION AREA (LEVEL -3)</p>
<p>11:00 - 12:30</p>	<p>GREAT DEBATE - PATHWAYS FOR PBM MAINSTREAM IN HEALTHCARE PLENARY ROOM, WESTMINSTER (LEVEL -3) CHAIR: Prof. René-Jean Bensadoun PBM EXPERT PANEL: Prof. Praveen Arany; Prof. Nicolette Houreld; Prof. Michael Hamblin; Prof. Chukuka Enwemeka; Prof. Juanita Anders, Prof. Reem Hanna (Moderator)</p>
<p>12:30 - 13:00</p>	<p>WALT AGM ROOM 1, PLAZA (LEVEL -1)</p>
<p>13:00 - 14:00</p>	<p>LUNCH AND EXHIBITOR VISIT WESTMINSTER - EXHIBITION AREA (LEVEL -3)</p>
	<p>PLENARY ROOM — OPTIONAL SESSION — 13:00-14:00 Diamond Sponsor Masterclass (Non-CPD Session) Light Tree Ventures 100 easy steps to turn your PBM idea into a successful product</p>

14:00-15:30	<p>DIAMOND SPONSOR'S SESSION(S) PLENARY ROOM, WESTMINSTER (LEVEL -3)</p>
	<p>CHAIRS: Prof. Nicolette Houreld, Prof. Ernesto Cesar Pinto Leal-Junior, Prof. Reza Fekrazad</p>
	<p>PLENARY ROOM — 14.00-14.35</p> <p>Mr. James Carroll How Photobiomodulation Might Help Delay The Four Leading Chronic Noncommunicable Causes Of Death</p>
	<p>PLENARY ROOM — 14.35-15:10</p> <p>Dr. Lew Lim Unlocking Brain Potential Through Photobiomodulation</p>
<p>PLENARY ROOM — 15.10-15-30</p> <p>Q&A</p>	
14:00-15:30	<p>TECHNOLOGY AND PBM DELIVERY DEVICES ROOM 1, PLAZA (LEVEL -1)</p>
	<p>CHAIRS: Prof. Juanita Anders, Prof. Michael Hamblin</p>
	<p>ROOM 1 — 14.00-14.25</p> <p>Prof. Juanita Anders Best Practices For Assessing And Validating Photobiomodulation Therapy Devices</p>

ROOM 1 — 14:25-14:45

Prof. Cleber Ferraresi

Optimizing Infrared (808 nm)
Photobiomodulation Therapy By Optical
Clearing Agent (OCA) With Chemical Penetration
Enhancers (CPES)

ROOM 1 — 14:45-15:00

Prof. Steven Parker

Effect Of Operating Parameters And Application
Technique On Outcome Of Oral PBM Therapy. A
5 Year Systematic Review

ROOM 1 — 15:100-15:15

Dr. Mark Cronshaw

A Pilot Study Of LED Home Use PBMT Devices:
Design, Function And Potential

ROOM 1 — 15:15-15:30

Emmanuel Gerelli

Monte Carlo Simulation Of The Light
Propagation In The Skin During PBM Based On
The Use Of The Atp38®

14:00-
15:30**REPRODUCTIVE HEALTH****ROOM 2, PLAZA (LEVEL -1)**

CHAIRS: Dr. Michele Pelletier, Dr. Lorne Brown

ROOM 2 — 14:00-14:30

Prof. Yao Min

Photobiomodulation Therapy At 632 nm
Wavelength Ameliorates Intrauterine Adhesion
Via Activation Of cAMP/ PKA/CREB Pathway

ROOM 2 — 14:30-14:55

Dr. Lorne Brown

Laser Babies: Shaping The Future Of PBM In
Reproductive Care

ROOM 2 — 14:55- 15:15

Ms. Ruth Phypers

Pilot Study: Improved Reproductive Health And
Fertility Outcomes After Photobiomodulation
Therapy (PBM)

ROOM 2 — 15:15-15:30

Dr. Michele Pelletier

Clinical Case-Report Of The Effects Of Red
Light In A Gynaecologic Oncology

14:00-
15:30**SHARK TANK COMPETITION****ROOM 3, PLAZA (LEVEL -1)**

CHAIRS: Prof. René-Jean Bensadoun, Prof. Praveen Arany, Prof. Reem Hanna

ROOM 3 — 14:00-14:18

Prof. Liisa Laakso

If PBM Works By Increasing Mitochondrial Activity, Will It Work In Mitochondrial Diseases?

ROOM 3 — 14:18-14:36

Ms. Sarah Turner

Revolutionising Gut-Brain Connection And Mental Health Through Pbm

ROOM 3 — 14:36-14:54

Prof. Jenis Eells

Photobiomodulation Treatment Of Inherited Retinal Diseases

ROOM 3 — 14:45-15:12

Dr. Neda HakimihEvaluation Of Different Photobiomodulation Protocols On Wnt/ β -Catenin Signaling Pathway In Stem Cell-Based Bone Regeneration

	<p>ROOM 3 — 15:12-15:30</p> <p>Dr. Natalia Arias</p> <p>Lighting Up New Neurons: Exploring Photobiomodulation For Neurogenesis Enhancement</p>
<p>15:30 - 16:00</p>	<p>COFFEE BREAK AND EXHIBITOR VISIT</p> <p>WESTMINSTER- EXHIBITION AREA (LEVEL -3)</p>
<p>16:00 - 17:30</p>	<p>METABOLIC AND AUTOIMMUNE DISORDERS</p> <p>PLENARY ROOM, WESTMINSTER (LEVEL -3)</p> <p>CHAIRS: Prof. Venera Berisha-Muharremi, Prof. Liisa Laakso, Prof. Adam Mester</p> <p>PLENARY ROOM — 16:00-16:22</p> <p>Prof. Venera Berisha-Muharremi</p> <p>Efficacy Of Combined Photobiomodulation Therapy With Supplements Versus Supplements Alone In Restoring Thyroid Gland Homeostasis</p> <p>PLENARY ROOM — 16:22-16:45</p> <p>Prof. Liisa Laakso</p> <p>Photobiomodulation At 904 nm Reduces Symptoms Of Inflammatory Bowel Disease: Early Results From A Pilot Single Arm Feasibility Study</p>

PLENARY ROOM — 16:45-17:00

Prof. Adam Mester

Imaging Guided Laser Application In Photobiomodulation Therapy Of Autoimmune And Metabolic Diseases

PLENARY ROOM — 17:00-17:15

Dr. Sharon Ben Yehuda

Photobiomodulation Treatment In Patients With Ulcerative Colitis

PLENARY ROOM — 17:15-17:30

Naoya Ishibashi

Photobiomodulation Improves Visceral Hyperalgesia In A Rat Model Of Irritable Bowel Syndrome

16:00 - 17:30

BONE AND MUSCULOSKELETAL ROOM 1, PLAZA (LEVEL -1)

CHAIRS: Prof. Ernesto Cesar Leal-Junior, Dr. Arun Maiya, Dr. Dennis Sourvanos

ROOM 1 — 16:00-16:15

Dr. Santiago Navarro-Ledesma

Effects Of Whole-Body Photobiomodulation On Pain, Quality Of Life, Leisure Activity And Psychological Factors In Fibromyalgia Subjects: A 6-Month Trial

ROOM 1 — 16:15-16:30

Dr. Shikha Parmar

Empowering And Inspiring The PBMT Clinician:
Bridging Bench-Side To Bedside

ROOM 1 — 16:30-16:45

Dr. Lisa Miller

Recent Photobiomodulation Research For
Treating Osteoarthritis And Degenerative
Myelopathy In The Canine Patient

ROOM 1 — 16:45-17:00

Dr. Arun Maiya

Effectiveness Of Photobiomodulation And
Rehabilitation On Pain And Functional Recovery
In Patients With Rotator Cuff Pathology

ROOM 1 — 17:00-17:15

Dr. Peng Xia

Photobiomodulation For The Treatment Of
Knee Osteoarthritis: Therapeutic Effects And
Possible Mechanism

ROOM 1 — 17:15-17:30

Dr. Pilar Bianco

Laser Therapy As An Alternative Treatment For
Maxillary Osteonecrosis

16:00 -
17:30

ACUPUNCTURE
ROOM 2, PLAZA (LEVEL -1)

CHAIRS: Prof. Reza Fekrazad, Dr. Grace Sun,
Dr. Roberta Chow

ROOM 2 — 16:00-16:15

Dr. Grace Sun

Photoacupuncture And Its Effects On TMJ

ROOM 2 — 16:15-16:30

Dr. Roberta Chow

The Importance Of Treatment Location,
Including Acupuncture Points: A Narrative
Review

ROOM 2 — 16:30-16:45

Dr. Arista Shojaeddin

The Effectiveness Of Laser Acupuncture And
Intensive Short-Term Dynamic Psychotherapy
In Treating Major Depression. A Randomized
Clinical Trial

ROOM 2 — 16:45-17:00

Dr. Changsop Yang

Current Status Of International Standards In
PBM Laser Acupuncture Devices

ROOM 2 — 17:00-17:15

Dr. Arista Shojaeddin

Comparison Between The Effects Of Dietary Therapy And Exercise, Laser Acupuncture And Acupuncture In Weight Loss Of Obese And Overweight Women

ROOM 2 — 17:15-17:30

Dr. Euahna Varigos

Hypothesizing A Central Thalamic Contribution In A Cohort Of CRPS Patients Developing Total Unilateral Ans Dysfunction: With PBM Treatment Protocol

16:00 - 17:30

YOUNG INVESTIGATOR- CLINICAL STUDIES
ROOM 3, PLAZA (LEVEL -1)

CHAIRS: Prof. Nicolette Houreld, Prof. Praveen Arany, Prof. Reem Hanna

ROOM 3 — 16:00-16:13

Dr. Ioana Cristina Miron

A Novel Therapeutic PBM Approach With Flatop Beam Profile In Paediatric Recurrent Aphthous Stomatitis. A Case Series With 3-Month Follow-Up

ROOM 3 — 16:13-16:26

Dr. Bruno Marotta

Near-Infrared Low Power Laser
Photobiomodulation Therapy For Burning
Mouth Syndrome: A Randomized Double-Blind
Controlled Trial

ROOM 3 — 16:26-16:39

Dr. Mohadeseh Azarsina

Photobiomodulation Therapy With 445
nm Diode Laser For Peri-Implant Soft
Tissue Healing: A Triple-Blind, Split-Mouth,
Randomized Controlled Trial

ROOM 3 — 16:39-16:52

Dr. Behzad Salari

Effect Of Photobiomodulation Therapy On
Neurosensory Recovery Of Patients With
Mandibular Nerve Injury: A Randomized Triple-
Blinded Clinical Trial

ROOM 3 — 16:52-17:04

Nima Dehghani

Photobiomodulation Therapy With 810 nm Diode
Laser For Recovery Of Mid-Face Sensation
After Le Fort 1 Surgery: Split-Face, Randomized
Controlled Trial

ROOM 3 — 17:04-17:17

Dr. Flávia Monari Belmonte

Effect Of Photobiomodulation Therapy On The Management Of Dental Trauma In Anterior Permanent Teeth: Randomized, Double-Blind, Controlled Clinical Trial.

ROOM 3 — 17:18-17:31

Dr. Marithé Claes

Photobiomodulation Therapy In The Prevention And Management Of Radiotherapy-Induced Vaginal Toxicity

20:00-00:00

GALA DINNER & CELEBRATION OF WALT 30th ANNIVERSARY
WESTMINSTER BALLROOM (LEVEL -3)

SUNDAY, AUGUST 25th

8:00 - 8:30	<p>WELCOME COFFE WESTMINSTER- EXHIBITION AREA (LEVEL -3)</p>
8:00 - 17:30	<p>REGISTRATION AND HELPDESK WESTMINSTER (LEVEL -3)</p>
8:30 - 10:30	<p>SUPPORTIVE CARE FOR CANCER PLENARY ROOM, WESTMINSTER (LEVEL -3)</p> <p>CHAIRS: Prof. René-Jean Bensadoun, Dr. Diggpal Dharkar, Dr. Antoine Lemaire</p>
	<p>PLENARY ROOM — 8:30- 8:55</p> <p>Prof. Renè-Jean Bensadoun Photobiomodulation In The Management Of Cancer Therapy-Induced Side Effects: WALT Position Paper</p>
	<p>PLENARY ROOM — 8:55-9:15</p> <p>Dr. Diggpal Dharkar Incorporating Photobiomodulation Therapy In Early Integration Of Supportive Care, A Low- Cost Module For Developing Countries</p>

PLENARY ROOM — 9.15-9.30

Dr. Jöri Pünchera

Radiation-Induced Chronic Ulcerations
And Fistulae Successfully Treated With
Photobiomodulation

PLENARY ROOM — 9:30-9:45

Dr. Sharon Staton

Novel Implementation Of Photobiomodulation
Therapy Decreases Oral Mucositis Severity In
Pediatric Stem Cell Transplant (SCT) Patients

PLENARY ROOM — 9:45-10:00

Dr. Antoine Lemaire

Photobiomodulation And Supportive Care In
Cancer: How To Create An Optimal Ecosystem
In The Hospital Setting

PLENARY ROOM — 10:00-10:15

Dr. Arati Chaudhary

Randomised Trial On The Cost Effectiveness Of
Using PBM Therapy In Controlling Radiotherapy
Induced Oral Mucositis In Cancer Patients In
Central India.

PLENARY ROOM — 10:15-10:30

Dr. Kate Perkins

Photobiomodulation Therapy For Post-
Radiation Fibrosis In Head And Neck Cancer: A
Series Of Case Reports

8:30 -
10:30

WOUND CARE

ROOM 1, PLAZA (LEVEL -1)

CHAIRS: Prof. Praveen Arany; Prof. Nicolette Houreld, Dr. Lilach Gavish

ROOM 1 — 8:30-8:53

Prof. Praveen Arany

Light-Based Approaches In Wound Care: Emphasis On Photobiomodulation Therapy

ROOM 1 — 08:53-9:15

Prof. Nicolette Houreld

Molecular And Clinical Evidence For Photobiomodulation In Diabetic Wound Healing

ROOM 1 — 9:15-9:30

Dr. Catherine Norton

Accelerating Wound Healing in Older Patients: A Four-Case Analysis of Photobiomodulation Therapy

ROOM 1 — 9:30-09.45

Dr. Marianne Degerman

Laser Photobiomodulation On Pressure Ulcer Category Four In Frail Elderly With Municipality Home Healthcare

ROOM 1 — 09:45-10:00

Dr. Jaroslava Joniová

Quantitative Identification Of The Optimal Radiometric Photobiomodulation Conditions To Enhance Angiogenesis *In Vitro* And *In Vivo*

ROOM 1 — 10:00-10:15

Dr. Carolina Fernandes Mestriner

Influence Of Different Parameters Of Laser Photobiomodulation On In Vitro Wound Closure

ROOM 1 — 10:15-10:30

Dr. Abdullah Jibawi

Reversing The Trajectory Of Complex Non-Healing Wounds Through Photobiomodulation: A Novel Approach Averting Major Limb Amputations

8:30 - 10:30

DENTISTRY AND ORAL CARE

ROOM 2, PLAZA (LEVEL -1)

CHAIRS: Prof. Georgi Tomov,
Prof. Chandrashekar Yavagal

ROOM 2 — 8:30-8:55

Prof. Georgi Tomov

Clinical Improvement And P63-Deficiency Correction In OLP Patients After PBM

ROOM 2 — 8:55-9:15

Prof. Prof. Chandrashekar Yavagal

PBM In Contemporary Paediatric Dental Practice: From Minimally Invasive Pulpotomy To Pain-Free & Accelerated Orthodontics In Children

ROOM 2 — 9:15-9:30

Dr. Farshid Vahdatinia

The Success Of Photobiomodulation On Incidence Of Alveolar Osteitis And Postoperative Pain Following Mandibular Wisdom Tooth Surgery: A Clinical Trial

ROOM 2 — 9:30-9:45

Dr. Seyyed Amir Seyyedi

The Efficacy Of 940 nm Low-Level Laser Therapy On Treatment Of Patients With Myogenic Tempromandibular Joint Disorders

ROOM 2 — 9:45-10:00

Dr. Parham Hazrati

The Effect Of Photobiomodulation Therapy With Two Wavelengths On The Viability And Migration Of Nicotinized Human Gingival Fibroblasts (HGF)

ROOM 2 — 10:00-10:15

Dr. Avidah Maboudi

Comparing Circumferential Supracrestal Fibertomy With Surgical Scalpel Versus Photobiomodulation In Orthodontic Relapse Reduction: A Clinical Trial

ROOM 2 — 10:15-10:30

Dr. Amir Farhang Miresmaeili

Photobiomodulation In Accelerating Orthodontic Tooth Movement: A Randomized Clinical Trial

8:30 -
10:30

INNOVATIVE PBM RESEARCH

ROOM 3, PLAZA (LEVEL -1)

CHAIRS: Prof. Michael Hamblin, Prof. Reem Hanna

ROOM 3 — 8:30-8:45

Dr. Andrew Stevens

Uncovering The Optimal Wavelength For Transcranial Photobiomodulation After Mild Traumatic Brain Injury

ROOM 3 — 8:45-9:00

Dr. Hannah Van Lankveld

The fMRI Response To Transcranial Photobiomodulation: The Dependence Of Blood-Oxygenation And Cerebral Blood Flow Responses On Stimulation Parameters

ROOM 3 — 9:00-9:15

Dr. Filipa Fernandes

Development And Optical Reflectance Characterization Of Phantoms Mimicking Biological Tissues For Studies Of Light Penetration In The Brain

ROOM 3 — 9:15-9:30

Dr. Dennis Sourvanos

Efficacy Of Red And Near-Infrared PBM In Dental Extractions: Integrating Systematic Review And Pre-Clinical Light Transmission Studies

ROOM 3 — 9:30-9:45

Dr. Mahmud Amin

Matrix Mechanics Dictate Odontoblast Responsiveness To Photobiomodulation Treatment

ROOM 3 — 9:45-10:00

Dr. Marggie Grajales

Osteoblast Differentiation And Changes In The Redox State In Pulp Stem Cells By Laser Treatment

ROOM 3 — 10:00-10:15

Dr. Viviane Gouveia

Photobiomodulation Attenuates Leukocyte-Endothelial Cell Adhesion Induced By Bothrops Jararaca Snake Venom

ROOM 3 — 10:15-10:30

Dr. Marjorie Dole

Transcranial Photobiomodulation Improves Performance On A Motor Task In Healthy Adults: The Effect Is Greater On Non-Musicians

10:30 - 11:00

COFFEE BREAK AND EXHIBITOR VISIT
WESTMINSTER- EXHIBITION AREA (LEVEL -3)

11:00 - 13:00

PAIN MANAGEMENT AND ADDICTION
PLENARY ROOM, WESTMINSTER (LEVEL -3)

CHAIRS: Prof. Reem Hanna, Prof. Juanita Andres, Dr. Scott Sigman

PLENARY ROOM — 11:00-11:25

Prof. Juanita Andres

Direct High Irradiance Photobiomodulation (Direct PBM) Therapy For Pain Modulation

PLENARY ROOM — 11:25-11:50

Prof. Reem Hanna

Outpatient Oral Neuropathic Pain Management With Photobiomodulation Therapy. A Prospective Analgesic Pharmacotherapy-Paralleled Feasibility Trial.

PLENARY ROOM — 11:50-12:15

Dr. Scott Sigman

Photobiomodulation As An Alternative Pain Management Solution In The Evolution Of The Opioid Crisis

PLENARY ROOM — 12:15-12:30

Dr. Ann Liebert

A Perspective On The Role Of Cytoskeleton In The Nervous System And Its Modulation By PBM: Implications For Pain And Neurological Diseases

PLENARY ROOM — 12:30-12:45

Dr. Sayena Hadadgar

Transcranial Photobiomodulation And Cognitive Rehabilitation In Opioid Drug Addiction

PLENARY ROOM — 12:45-13:00

Dr. Asius Rayen

Whole-Body Photobiomodulation Therapy For Fibromyalgia: A Feasibility Trial

<p>11:00 - 13:00</p>	<p>PBM MECHANISM – ADVANCED RESEARCH ROOM 1, PLAZA (LEVEL -1)</p>
	<p>CHAIRS: Dr. Lilach Gavish, Dr. Lew Lim, Mr. James Carroll</p>
	<p>ROOM 1 — 11:00-11:15 Dr. Lilach Gavish Photobiomodulation: Therapeutic Potential In Cardiovascular Pathology</p>
	<p>ROOM 1 — 11:15-11:30 Dr. Lew Lim Traumatic Brain Injury Recovery With Photobiomodulation: Pathophysiological Aspects, Clinical Evidence And Potential</p>
	<p>ROOM 1 — 11:30-11:45 Dr. Diane Meneguzzo Multimodal Photobiomodulation (PBM): Transcranial, Blood And Abdominal, In Children With Autism Spectrum Disorder - Pilot Study</p>

ROOM 1 — 11:45-12:00

Dr. Lew Lim

Emerging New Paradigms Provide Guideposts To A Compelling Future In Brain Photobiomodulation

ROOM 1 — 12:00-12:15

Prof. Shimon Rochkind

Photobiomodulation In Neuroscience: A Summary Of 30 Years Of Personal Experience

ROOM 1 — 12:15-12:30

Dr. Jaimie Hoh Kam

Differential Effect Of Photobiomodulation On Biophoton Activity In Cultured Brain Cells

ROOM 1 — 12:30-12:45

Dr. Insoo Jang

A Review On The Effects of Photobiomodulation On Hypertension In Experimental Study

ROOM 1 — 12:45-13:00

Dr. Gerald Ross

PBM-What Reaches the Target Tissue

11:00 -
13:00

DERMATOLOGY
ROOM 2, PLAZA (LEVEL -1)

CHAIRS: Prof. Reza Fekrazad, Dr. Katayoun AM Kalhori, Dr. Lisa Miller

ROOM 2 — 11:00-11:15

Prof. Reza Fekrazad

Photobiomodulation And Photodynamic Therapy In Dermatology: Mechanisms, Applications, And Future Perspectives

ROOM 2 — 11:15-11:30

Dr. Luis Alfonso Pérez-González

Synergistic Effect Of Blue Light And Terbinafine On The Production Of Reactive Oxygen Species: A Potential Treatment For Resistant Cutaneous Mycoses

ROOM 2 — 11:30-11:45

Dr. Katayoun Am Kalhori

Evaluation Of The Effects Of Photobiomodulation By 940 nm Diode Laser On Nasal Tip Edema Reduction Two Months After Rhinoplasty

ROOM 2 — 11:45-12:00

Dr. Leila Ataie Fashtami

Experimental Study Of Combination Therapy Of 980nm Low-Level Laser And Electron Radiation Therapy On Non-Melanoma Human Squamous Cell Cancer (SCC)

ROOM 2 — 12:00-12:15

Dr. Lisa Miller

Photobiomodulation For The Veterinary Oncology Patient

ROOM 2 — 12:15-12:30

DR. Jorge Naharro-Rodríguez

Efficacy Of ALA Photodynamic Therapy With Half- Versus Full-Light Dose In Large Severe Field Cancerization

ROOM 2 — 12:30-12:45

Dr. Xavier Jimenez

The Effect Of Pulsed Blue Light On Fibroblasts And Lung Cells

ROOM 2 — 12:45-13:00

Dr. Emilio Garcia Mouronte

Dose Reduction With Red LED Light In Photodynamic Therapy: Looking For The Balance Between Photobiomodulation And PPIX Target

11:00 -
13:00**FLASH POSTER ORAL PRESENTATION****ROOM 3, PLAZA (LEVEL -1)**

CHAIRS: Prof. René-Jean Bensadoun; Prof. Praveen Arany; Prof. Nicolette Houreld

ROOM 3 — 11.00-11.08

Dr. Ida Franciska Kutvölgyi

Reduction Of Large Odontogenic Cysts With Soft Laser Therapy

ROOM 3 — 11.08-11.16

Dr. Gerry Ross

PBM Use For Nerve Regeneration In Dentistry

ROOM 3 — 11.16-11:24

Dr. Melika Razaghi

Applications Of Photobiomodulation Therapy In Pediatric Dentistry: A Systematic Review

ROOM 3 — 11:24-11.32

Dr. Cintia Leite

Effectiveness Of Photobiomodulation (PBM) For The Treatment Of Irritability Associated With Autism Spectrum Disorder: Case Report

ROOM 3 — 11.32-11:40

Dr. Bruno MarottaAntimicrobial Photodynamic Therapy
Optimizing The Management Of Ulcerated Hemangioma In A Newborn: A Case Study

ROOM 3 — 11:40-11:48

Dr. Kate Perkins

Therapeutic Efficacy Of Photobiomodulation In Managing Chronic And Relapsing Bone Pain In Variant Form Of Camurati-Engelmann Disease

ROOM 3 — 11:48-11:56

Dr. Fatemeh Shekarchi

In Vitro Investigation Of Antimicrobial Photodynamic Therapy With Methylene Blue And Indocyanine Green On Bacteria Associated With Staining Of Teeth

ROOM 3 — 11:56-12:04

Dr. Seyyed Amir Seyyedi

Efficacy Of Adjuvant Photobiomodulation With Acyclovir In HSV Type 1 Recurrence Ulcers Treatment, A Single-Blind Randomized Clinical Trial

ROOM 3 — 12:04-12:12

Dr. Mark Cronshaw

Dose Delivery Parameters In PBMT: High Energy Vs. Low Energy PBM. Energy, Power And Irradiance & Treatment Outcomes - A Systematic Review

ROOM 3 — 12:12-12:20

Dr. Daniel Costa

Light Therapy On A Functionalized Zirconia Surface With Antimicrobial Nanoparticles For Dental Applications

ROOM 3 — 12:20-12:28

Dr. Cassia Fukuda

LED Therapy In The Treatment Of Recurrent Bullous Erysipelas

ROOM 3 — 12:28-12:36

Dr. Yvona Zivic

Photobiomodulation Therapy In Dermatology: Clinical Update

ROOM 3 — 12:36-12:44

Prof. Chandrashekar Yavagal

Non-Biomodulatory Photomedicine (α -PDT) For 3-Dimensional Disruption Of Biofilms In Endodontics & Oral Care

ROOM 3 — 12:44-12:52

Dr. Nahid Derikvand

The Use Of Photobiomodulation Therapy To Reduce Swelling, Pain And Trismus After Dental Surgery: A Case Series

	<p>ROOM 3 — 12:52-13:00</p> <p>Mr. Damien Vila</p> <p>PBM At The University: New Insights</p>
<p>13:00-14:00</p>	<p>LUNCH AND EXHIBITOR VISIT</p> <p>WESTMINSTER - EXHIBITION AREA (LEVEL -3)</p>
	<p>PLENARY ROOM — OPTIONAL SESSION — 13:00-14:00</p> <p>Diamond Sponsor Masterclass</p> <p>(Non-CPD Session)</p> <p>HueLight</p>

14:00-
15:30

SPORTS AND REHABILITATION
PLENARY ROOM, WESTMINSTER (LEVEL -3)

CHAIRS: Prof. Ernesto Cesar Leal-Junior, Prof. Jan Bjordal, Prof. Shimon Rochkind

PLENARY ROOM — 14:00-14:23

Prof. Ernesto Cesar Leal-Junior

Is The Quality Of Photobiomodulation Randomized Controlled Trials In Sports And Rehabilitation Good Enough?

PLENARY ROOM — 14:23-14:45

Prof. Nivaldo Antonio Parizotto

Photobiomodulation Effects Associated With An Exercise Protocol In The Treatment Of Non-Specific Neck Pain: Proposal For A Randomized Clinical Trial

PLENARY ROOM — 14:45-15:00

Dr. Carlos Eduardo Girasol

Influence Of Energy Density On Photobiomodulation Therapy For Muscle Performance In Healthy Subjects In A Strength Training Program

PLENARY ROOM — 15:00-15:15

Elizabeth Metzger

Photobiomodulation To Enhance Military Readiness Program

	<p>PLENARY ROOM — 15:15-15:30</p> <p>Dr. Cintia Cristia Santi Martignago Photobiomodulation Therapy Associated With Aerobic Exercise Training Modulates Inflammation In An Experimental Model Of Knee Osteoarthritis</p>
<p>14:00-15:30</p>	<p>YOUNG INVESTIGATOR-BASIC SCIENCES ROOM 1, PLAZA (LEVEL -1)</p>
	<p>CHAIRS: Prof. Reem Hanna, Prof. René-Jean Bensadoun; Prof. Praveen Arany</p>
	<p>ROOM 1 — 14:00-14:13</p> <p>Dr. Daisuke Uta In Vivo Electrophysiological Study Of The Analgesic Effects Of Photobiomodulation In Rats</p>
	<p>ROOM 1 — 14:13-14:26</p> <p>Dr. Katayoon Montazeri Transcranial Photobiomodulation In Treatment Of Tinnitus</p>
<p>ROOM 1 — 14:26-14:39</p> <p>Dr. Azita Mazaheri Tehrani Skin Wound Healing In Diabetic Rat Model Using Low-Dose Photodynamic Therapy (LDPDT)</p>	

ROOM 1 — 14:39-14:52

Dr. Nimisha Rawat

Discrete Effects Of Directed Energy
Therapeutics On Normal And Cancer Stem Cells

ROOM 1 — 14:52-15:05

Dr. Sophia Oliveira

Optimization Of Red To Near-Infrared
Stimulation By Light-Emitting Diodes To
Increase Cellular Metabolism

ROOM 1 — 15:05-15:18

Dr. Josefina Cardona Mari

Comparison Between Contact And Non-Contact
Mode And Two Handpieces To Optimize The
Non-Contact Mode Of Photobiomodulation
In The Post-Surgical Treatment Of Cranial
Cruciate Ligament Rupture In Dogs.

ROOM 1 — 15:18-15:31

Dr. Maria Luisa Hernandez-Bule

Effect Of Visible Spectrum Light On Adipose-
Derived Stem Cells (ADSCS)

14:00-
15:30

OPHTHALMOLOGY

ROOM 2, PLAZA (LEVEL -1)

CHAIRS: Dr. Clark Tedford, Prof. Janis Eells,
Dr. Scot Faulkner

ROOM 2 — 14:00-14:15

Dr. Clark Tedford

Photobiomodulation Reduces Risk For Vision Loss And Onset Of Geographic Atrophy In Dry Age-Related Macular Degeneration

ROOM 2 — 14:15-14:30

Prof. Pierdomenic D’andrea

Ultra-Low Irradiation Photobiomodulation With A New Self-Medication Device For The Treatment Of The Age-Related Macular Degeneration: Short-And Medium-Term Effects

ROOM 2 — 14:30-14:45

Prof. Janis Eells

Photobiomodulation For The Treatment Of Retinal Injury And Disease: Experimental Studies

ROOM 2 — 14:45-15:00

Dr. Arun Sachdev

Improvement In Central Serous Chorioretinopathy Following Multiwavelength Photobiomodulation Treatment

ROOM 2 — 15:00-15:15

Dr. Veronica Molina Seoane

Photobiomodulation; Effective Treatment For Retinitis Pigmentosa

ROOM 2 — 15:00-15:15

Dr. Rolando Toyos

Photobiomodulation For Treatment Of Dry Eye Disease- FDA Approval And Beyond

14:00-15:30

AESTHETIC MEDICINE

ROOM 3, PLAZA (LEVEL -1)

CHAIRS: Prof. Sonia Bordin Aykroyd, Prof. Ana Paula Tanko

ROOM 3 — 14:00-14:15

Dr. Cintia Cristina Santi Martignago

Laser Photobiomodulation Frequency In The Viability Of The Skin Flap In Rats

ROOM 3 — 14:15-14:30

Prof. Sonia Bordin Aykroyd

Role Of Photobiomodulation In Anti-Aging: Enhancing Melatonin’s Conserved Functions For Cellular Rejuvenation

ROOM 3 — 14:30-14:45

Prof. Ana Paula Tanko

Application Of Laser Therapy In Orofacial Harmonization

ROOM 3 — 14:45-15:00

Dr. Robabeh Alijanpour

Finding Molecular Mechanisms Of Low-Level Laser Therapy In Scar Acne And Repair Progression

ROOM 3 — 15:00-15:15

Dr. Mohadeseh Azarsina

Combination Effect Of Stem Cells And PBM Therapy

ROOM 3 — 15:15-15:30

Prof. Nivaldo Antonio Parizotto

Exploring The Frontiers Of Aesthetics: A Detailed Analysis Of Endolaser As An Innovation

15:30-16:00

COFFEE BREAK AND EXHIBITOR VISIT

WESTMINSTER- EXHIBITION AREA (LEVEL -3)

16:00 -
16:30

PBM2024 AWARDS

PLENARY ROOM, WESTMINSTER (LEVEL -3)

- **Young Investigator**
(Basic Sciences And Clinical Studies)
- **Innovative PBM Research**
- **Flash Poster Oral Presentation**
- **WALT Student Award**
- **Shark Tank Competition Winner**

Thanking All The Sponsors

16:30-
17:30

LATE SUBMISSION AND MISCELLANEOUS SESSION

ROOM 1, PLAZA (LEVEL -1)

CHAIRS: Prof. Nivaldo Antonio Parizotto,
Dr. Andrew Stevens

ROOM 1 — 16:30-16:45

Prof. Gholam Ali Gholami

The Effects Of Photobiomodulation On MRONJ Formation In Oral Cavity In Rat Model

ROOM 1 — 16:45-17:00

Dr. Euahna Varigos

Peri-Operative PBM Treatment For Ankle/ Foot Surgery With CRPS

ROOM 1 — 17:00-17:15

Dr. Sayena Hadagar

Comparison Of Two Intervention Methods, Photobiomodulation And Cognitive Rehabilitation, On The Risk-Taking Factor In Opioid Drug Users.

ROOM 1 — 17:15-17:30

Dr. Belinda Mandrell

From Zero To Hero: Developing A Hospital Wide Photobiomodulation Program For A Pediatric Oncology Hospital

16:30-17:30

LATE SUBMISSION AND MISCELLANEOUS SESSION

ROOM 2, PLAZA (LEVEL -1)

CHAIRS: Dr. Katayoun Am Kalhori, Dr. Antoine Lemaire

ROOM 2 — 16:30-16:45

Ms. Nicola Freeman

Evaluation Of Photobiomodulation To Reduce Oral Mucositis In Patients Undergoing Radiotherapy

ROOM 2 — 16:45-17:00

Prof. Reza Fekrazad

Harnessing Photobiomodulation Therapy and Photodynamic Therapy as a Potential Intervention for COVID-19

ROOM 2 — 17:00-17:15

Dr. Cassia Fukuda

Use Of Low-Level Laser Therapy In The Treatment Of Necrotizing Fasciitis: An Experience Report

ROOM 2 — 17:15-17:30

Ms. Bronwyn Cooper

PBM Therapy In A Typical Australian Podiatry Practice: Case Examples Across Multiple Pathologies

16:30-
17:30

LATE SUBMISSION AND MISCELLANEOUS SESSION

ROOM 3, PLAZA (LEVEL -1)

CHAIRS: Prof. Chandrashekar, Dr. Dennis Sourvanos

ROOM 3 — 16:30-16:45

Dr. Marggie Grajales

Effectiveness Of Photobiomodulation With Low Level Lasers On The Acceleration Of Orthodontic Tooth Movement: A Systematic Review And Meta Analysis

ROOM 3 — 16:45-17:00

Prof. Ana Paula Tanko

Antimicrobial Photodynamic Therapy (a-PDT) Applied To Canine Paw Wounds

ROOM 3 — 17:00-17:15

Dr. Nazaarin Dehghan Hesami

Efficacy Of Non-Pharmaceutical Treatments Of Xerostomia: A Systematic Review And Meta-Analysis

	<p>ROOM 3 — 17:15-17:30</p> <p>Dr. Didier Irles</p> <p>PBM And Sport: Can We Determine An Optimal Protocol To Obtain The Best Effects To Reduce Muscle Damage And Improve Performance? Narrative Review</p>
<p>17:30- 17:40</p>	<p>BREAK</p>
<p>17:40- 18:00</p>	<p>CLOSING CEREMONY AND PHOTO</p> <p>PLENARY ROOM- WESTMINSTER (LEVEL -3)</p> <p>Prof. Reem Hanna - Chair Of PBM2024</p> <p>A Brief On PBM2026 Conference</p>