

IN CELEBRATION OF THE 30-YEAR
ANNIVERSARY OF THE WORLD ASSOCIATION
FOR PHOTOBIO-MODULATION THERAPY



PBM2024 LONDON

AUGUST 23rd-25th, 2024

CONFERENCE HANDBOOK





PBM2024
LONDON
AUGUST 23rd-25th, 2024

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For additional information, please contact: Anne-Marie Quirin,
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PBM2024
LONDON
AUGUST 23rd-25th, 2024

WELCOME MESSAGE FROM THE CONFERENCE CHAIR



Dear colleagues and friends,

It is a great pleasure and honour for me to welcome you all to the PBM2024 Conference in my beautiful city, London. It is the 14th International Congress of the World Association for Photobiomodulation Therapy (WALT) and it also marks its 30th Anniversary. We are extremely proud of the fact that more than 30 countries will be represented this year.

The Annual Meeting is the foremost international multidisciplinary and interdisciplinary conference, encompassing three days of cutting-edge research, engaging presentations and many networking activities. The scientific programme is comprehensive, covering the entire photobiomodulation (PBM) spectrum. This promises to be a particularly interesting congress all round, with a range of plenary lectures, specialist presentations and contributing papers, as well as educational courses and regular hands-on workshops.



Also, a great opportunity for young investigators to share their research, as well as SHARK-TANK competitors to present their PBM innovations.

Rapid advances in photobiomodulation therapy have led to numerous innovations. At the PBM2024 Meeting, you will discover what's new and what's on the horizon in the diverse and exciting field of photobiomodulation. Hence, the event will feature a stellar line-up of speakers covering a breath of photobiomodulation contemporaneous research and clinical applications.

The featured leading authorities in the field will address a plethora of photobiomodulation applications including: advances across all clinical categories, such as bone and musculoskeletal, pain management and addiction, sports and rehabilitation, wound care, dermatology, dentistry and oral care, supportive care for cancer, neurorehabilitation, stem cells and regenerative medicine, photobiomodulation versus antiviral and antimicrobial applications, aesthetic medicine, acupuncture, metabolic and autoimmune disorders, and reproductive health. Also, advanced research in photobiomodulation mechanisms, treatment guidelines and position papers on the use of photobiomodulation technology will be presented.



Additionally, the “Great Debate” Plenary Session focusing on the “Pathways for PBM Mainstreams in Healthcare” will be led by an expert panel in the field of photobiomodulation. This would be a unique opportunity for clinicians, scientists, healthcare regulators, and industry to have a productive interaction and a fruitful discussion to move photobiomodulation mainstreams forward across all disciplines. Let us come together to shape the future of Photobiomodulation.

PBM2024 conference is a unique opportunity to enrich your interest and expertise in field of Photobiomodulation therapy. Also, to use this conference opportunity to meet old friends and make new contacts while enjoy London sightseeing.

Additionally, in keeping with the growing recognition in the field of photobiomodulation, there is a need to honour and acknowledge the leading contributors in establishing WALT. Join us to celebrate WALT 30th Anniversary at our extravagant Gala Dinner Party at Plaza Westminster Hotel on Saturday night (24th August).



No conference can be a success without the support of the industry and I would like to express my sincere gratitude to all our sponsors and exhibitors who have involved themselves with PBM2024.

Thank you for your contributions.

I look forward to welcoming you to PBM2024.

With best wishes,



Prof. Reem Hanna
BDS, PhD, MSc, PG DipSed, PG DipHE, PG Cert.AP, FHEA,
FIADFE
Chair-PBM2024 Conference





PBM2024
LONDON
AUGUST 23rd-25th, 2024

WELCOME MESSAGE FROM THE WALT PRESIDENT



Dear friends and colleagues,

We are delighted to welcome you to PBM2024, the International Congress of the World Association for Photobiomodulation Therapy (WALT), held in the vibrant city of London.

This Congress marks our 30th Anniversary and represents a significant milestone in the evolution of PBM technology, showcasing remarkable advancements in both the scientific understanding and clinical applications of photobiomodulation (PBM).

The objectives of our association are:

1. To promote the evidence-based clinical application of photobiomodulation in the fields of medical practice, dentistry, veterinary medicine and allied health professions.
2. To encourage research into the clinical application of photobiomodulation in accordance with internationally accepted standards of best practice.
3. To encourage laboratory-based research into



mechanisms of photobiomodulation.

4. To promote education, encourage international co-operation and provide a forum for information exchange.
5. To establish WALT as the international reference body for accreditation of standards in research and education in photobiomodulation across all disciplines.

In recent years, WALT has seen significant advances towards the fulfillment of these goals.

PBM has seen numerous advances into mainstream medicine, with a significant increase in scientific evidence supporting its use in a wide variety of clinical conditions. There are now over 100,000 scientific articles on PBM in PubMed.

PBM has proven to be as effective as, or even superior to, painkillers for some musculoskeletal disorders. Additionally, there have been significant advancements in dentistry, nerve pathologies, wound healing, and well publicised successes in cancer supportive care.

Although PBM was once met with scepticism, recent research and peer-reviewed publications have established it as a credible and effective treatment modality in modern medicine.



PBM is now entering mainstream medical practice, and we are confident that this comprehensive Congress, with its excellent program and the dedicated efforts of our Scientific Committee led by Professor Reem Hanna, will further accelerate the acceptance and development of PBM, enhancing technical advancements, precise dosimetry, and overall treatment efficacy for the benefit of our patients.

We wish this Anniversary Congress memorable success!

Yours sincerely,



Prof. René-Jean Bensadoun
WALT President (2021-2024)



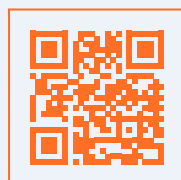
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Prof. René Jean Bensadoun (France)
Prof. Nicolette Houreld (South Africa)
Prof. Praveen Arany (USA)
Prof. Nivaldo Parizotto (Brazil)
Dr. Lilach Gavish (Israel)
Prof. Michael Hamblin (UK)
Prof. Ernesto Leal-Junior (Brazil)
Prof. Arun Maiya (India)

Scientific Programme Committee

Prof. Reem Hanna (UK) Chairperson
Prof. Praveen Arany (USA)
Prof. Nicoleta Houreld (South Africa)
Prof. Michael Hamblin (UK)

Conference Scientific Award Committee

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Prof. Nicolette Houreld (South Africa)
Prof. Praveen Arany (USA)
Dr. Lilach Gavish (Israel)
Prof. Michael Hamblin



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PROMINENT SPEAKERS



PROF. REEM HANNA

BDS, PhD, MSc, PG DipSed, PG DipHE,
PG Cert.AP, FHEA, FIADFE

Professor Dr. Reem Hanna is the Chair of PBM2024 Scientific and Organising Committees. She is a faculty member at Department of Surgical Sciences and Integrated Diagnostics, University of Genoa (UniGe), where she teaches on Academic Master Degree Programme in Laser Dentistry.

She is a specialist and consultant oral Surgeon at London NHS Hospitals and an Honorary Associate Professor at UCL-Eastman Dental Institute in London, UK, where she is academic coordinator and lead of Fellowship Courses in Laser Dentistry.

Prof. Hanna is a Fellow Academy of Higher Education, UK and International academy of Dento-Facial Esthetic, New York.

She achieved her PhD in Photomedicine from UniGe in 2020 with distinction. Prof. Hanna is an Executive



Board Member of British Medical Laser Association (BMLA) and Scientific Committee, as well chair of Photobiomodulation Working Group. Prof. Hanna is a senior educator, clinician and experienced researcher.

She lectures nationally and internationally on the use of photobiomodulation, antimicrobial photodynamic therapy and surgical lasers for various oral applications and diseases. She is principal investigator in achieving PBM consensus for various clinical applications, focusing on neuropathic pain and adverse effects induced by oncology treatments.

Prof. Hanna has been invited to present her work at several international conferences, as an invited keynote and plenary presenter. She has received publications in over 55 peer reviewed papers on the use of photobiomodulation, aPDT and surgical lasers in various medical and oral applications and wrote chapters in two books on Photobiomodulation Therapy in wound healing and in management of oral complications induced by head and neck cancer Treatments.

In March 2022, Prof. Hanna received the “Life Achievement Award” from European Medical Laser Association for recognising her valuable contributions to the laser community.



PBM ASSOCIATIONS WORKSHOP PAST • PRESENT • FUTURE

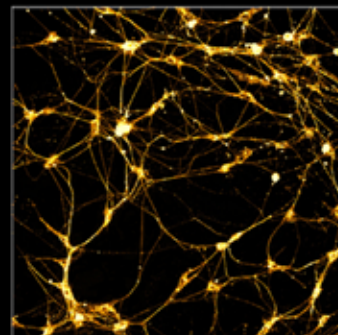
WALT
30
YEAR
ANNIVERSARY

PBM2024
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WORKSHOP PROGRAM

Dr Roberta Chow

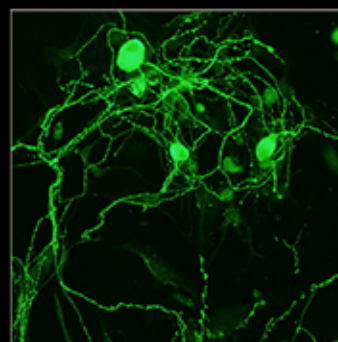
AMPA past president and founder
PBM Mechanisms and treatment for
chronic pain



Roberta Chow

Honorable Scot Faulkner

Effective advocacy for PBM uptake
including opioid reduction strategy



Vanessa M. Holanda

Shanon Tilley

Lymphoedema PBM treatment protocols

Dr Brian Bicknell

Photobiomics introduction

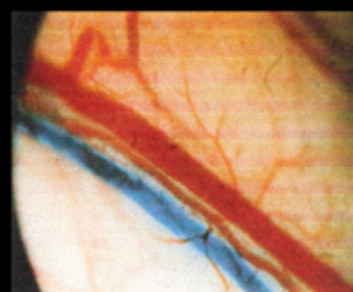
Dr Violet Bumah

PBM treatments including for
reducing infection



Damien Vila, Dr Ann Liebert

PBM mechanisms and education



P. C. Llovens 1991

Prof. Liisa Laakso

Summary of PBM treatments
PAST, PRESENT AND FUTURE

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Presenting at Plaza (Level -1) Room 4, 4.15pm 5.15pm

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PROF. RENÉ-JEAN BENSADOUN

MD, MSc, HRD, WALT President, Chair
for Centre de Haute Energie, Nice,
France

Prof. Bensadoun is Professor in Radiation Oncology, and Chairman at the Centre de Haute Energie in Nice, France. He was previously Full Professor and Chairman at the Department of Radiation Oncology, University Hospital of Poitiers in France.

His fields of interest are radiation oncology, head and neck cancer, supportive care in cancer, photobiomodulation, new techniques in radiation oncology, and cancer-treatment toxicity. He's the author of more than 190 peer reviewed papers.

Boards:

- WALT President (2021-24)(World Association of photobiomodulation Therapy)
- WALT World Congress Chairman (Nice 2018)
- 2020 Senior Investigator Award for Excellence in PBM Clinical Sciences
- Membre du Comité Scientifique Permanent en Oncologie-Hématologie (CPOH) de l'ANSM (nomination juillet 2019)



- Membre du CA du Centre Clinique et de Recherche en Photobiomodulation de Shepperdstown (USA)
- Vice-President de l'Association Chaîne de Vies (SSR Les Lauriers Roses)
- Membre de la SFRO (Société Française de Radiothérapie Oncologique) et de l'AFSOS (Association Francophone pour les Soins Oncologiques de Support)
- Membre du Bureau du SNRO (Syndicat National des Radiothérapeutes Oncologues)
- Member of the Editorial Board of JSCC (Journal of Supportive Care in Cancer)
- Member of Mucositis Board and Oral Care Board of MASCC-ISOO (Multinational Association for Supportive Care in Cancer)
- Membre du Comité organisateur du DU de Photobiomodulation en Oncologie (Supportive Care), (IGR, Paris XII, 2020-21)
- Board Member of IMPAQTT Foundation (<https://www.linkedin.com/pub/impagtt-foundation/96/6b1/97>), a group of Experts in the treatment of side effects of targeted cancer therapy (from 2014)
- SFRO (2011-2012), APLAC, ARRCR, ex Board Member of SFCCF and GORTEC (H & N Cancer French Groups)



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PROF. PRAVEEN ARANY

BDS, MDS, MMSc, PhD

Prof. Arany is a renowned expert in PBM, and his research has focused on clinical translation and molecular mechanisms.

Some of his major contributions to the field include the adoption of the standard nomenclature of PBM as a PubMed MeSH term, demonstrating a novel PBM molecular mechanism involving latent TGF-beta 1 activation that drives tissue resilience, regeneration, and immunomodulation, outlining clinical biomarkers (tissue surface temperature), molecular biomarkers (ATF-4), treatment delivery (target surface irradiance), and dosimetry (Photonic fluence and Einstein) for safe and effective PBM clinical protocols.

This has resulted in clinical practice guideline recommendations for treating several human diseases and promoting wellness, especially in supportive cancer care.

Dr. Arany has served as an Assistant Clinical Investigator at the NIDCR, National Institutes of Health. He has received several awards recognizing his contributions, including the Horace Furumoto Young Investigator ASLMS award from ASLMS, the T. H. Maiman Award for Excellence in Dental Laser Research from the Academy of Laser Dentistry, and the NIH



NCI Young Investigator Award. He has over 150 scientific publications with over 8000 citations and 6 patents that include his recent work with PBM on long-COVID and preventing cardiovascular aging with the National Institute on Aging, NIH.

He has served in WALT as the scientific chair, executive committee, immediate past president, and is currently the executive director.



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PROF. NICOLETTE HOURELD

M.Tech, D.Tech, WALT President Elect

Nicolette Houreld (D.Tech (UJ) Biomedical Technology) is a Research Professor at the Laser Research Centre, within the Faculty of Health Sciences at the University of Johannesburg in South Africa.

Her research interests lie in the areas of photobiomodulation and diabetic wound healing, where she investigates the molecular and cellular effects of photobiomodulation and laser tissue interaction. Prof Houreld is a NRF C1 rated scientist with a Scopus h-index of 31. Nicolette has been a regular member of the WALT executive council since 2010 and is currently the current president elect.

Her contributions to the scientific development of the field of photobiomodulation have included over 100 scientific publications which are all well cited.

She is a member of the editorial board of Photobiomodulation, Photomedicine and Laser Surgery, and regularly presents her work at international conferences.





DR. CLARK TEDFORD

PhD, President and CEO, LumiThera, Inc.

Clark E. Tedford, Ph.D. is one of the founders of LumiThera and has served as President and CEO since the formation of the Company in 2013. Previously Dr. Tedford was Vice President and Chief Science Officer at PhotoThera, a leading LED/laser company from 2010-2012.

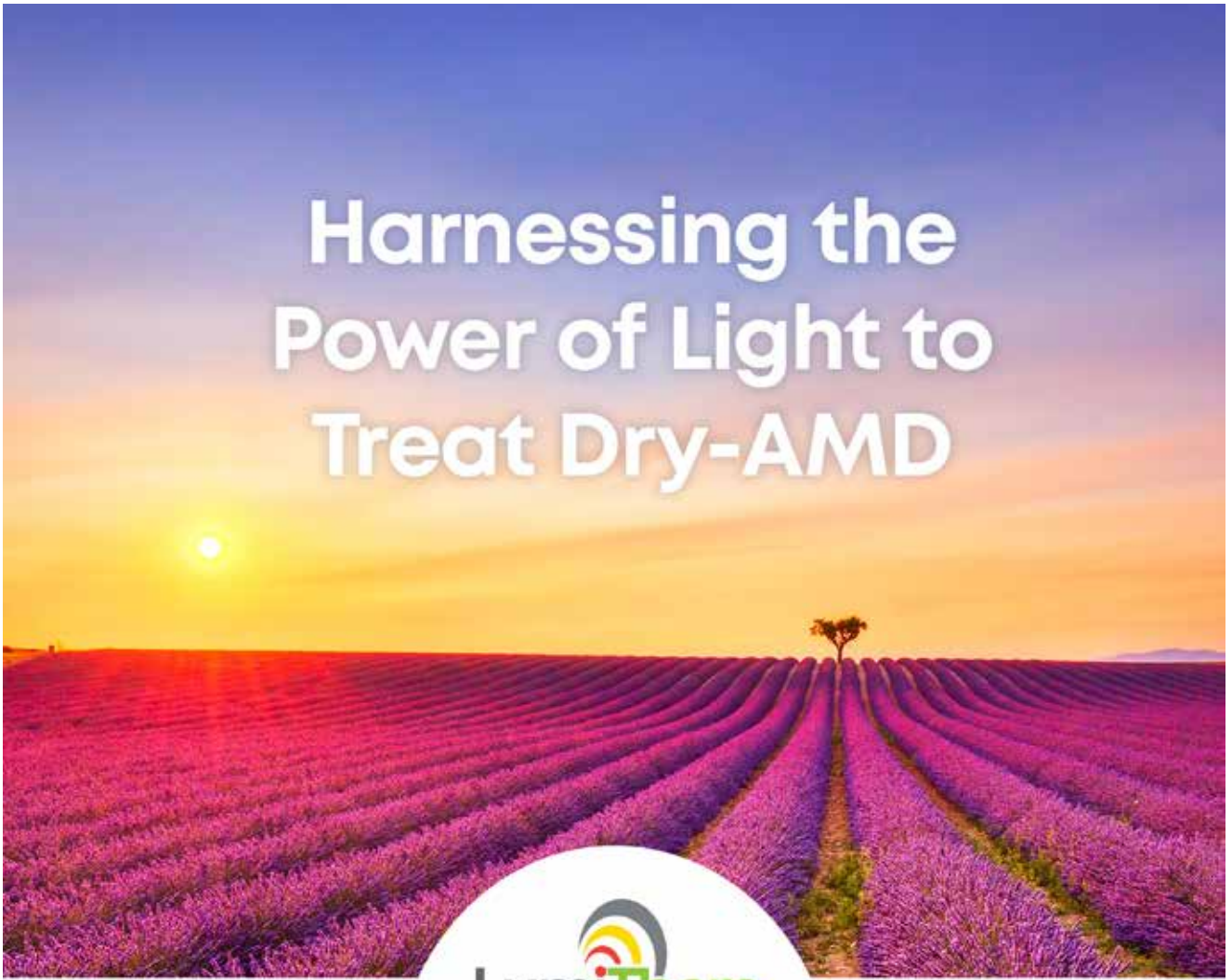
Prior to PhotoThera, Dr. Tedford was at Omeros from 2003-2010 as Vice President, Pharmaceutical Research. Prior to Omeros, Dr. Tedford was President of Solentix, Inc.

During Dr. Tedford's 25 years in the pharmaceutical and medical device industry, he has held several scientific and executive management positions from 1993-2003 including Executive Vice President of Research and Development for Gliatech, Inc.

Prior to that Dr. Tedford was at Schering-Plough Research Institute as a Principal Scientist. Dr. Tedford received his Ph.D. in pharmacology from the University of Iowa and completed his post-doctoral work in the Department of Pharmacology at the Loyola University Medical School.



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PROF. JAN BJORDAL

PT, MSc, PhD, University of Bergen

Prof. Bjordal is the current Director of Health Sciences at the University of Bergen. He received his PhD in Physical

Therapy from the University of Bergen 2003 and specialises in the effects of photobiomodulation (PBM) on musculoskeletal injuries and disorders. He is recognised as an expert in PBM therapy, and was responsible for the development of WALT guidelines for dosage recommendations. He has been invited to speak and chair sessions at numerous international PBM conferences.

He is the former President of the World Association for Laser Therapy (WALT), and a founding member of WALT. Prof. Bjordal serves on the Executive Councils and Scientific Advisory Boards of multiple laser societies, as well as and the Editorial Board of Photomedicine and Laser Surgery. He has published over 100 peer reviewed articles, and cited more than 8000 times.





PROF. MICHAEL HAMBLIN

PhD

Prof. Michael Hamblin (Ph.D.) was the Principal Investigator at the Wellman Center for Photomedicine at Massachusetts General Hospital, an Associate Professor of Dermatology at Harvard Medical School and is a member of the affiliated faculty of the Harvard-MIT Division of Health Science and Technology.

He was trained as a synthetic organic chemist and received his PhD from Trent University in England. His research interests lie in the areas of photodynamic therapy (PDT) for infections, cancer, and heart disease and photobiomodulation for wound healing, arthritis, traumatic brain injury and hair regrowth. He directed a laboratory of sixteen post-doctoral fellows, visiting scientists and graduate students. His research program is supported by NIH, CDMRP, USAFOSR and CIMIT among other funding agencies.

He has published over 600 peer-reviewed articles, over 150 conference proceedings, book chapters and international abstracts and holds 8 patents. He has authored/edited 23 textbooks on PDT and photomedicine including SPIE proceedings.

He is Associate Editor for 10 journals, on the editorial board of a further 25 journals and serves on NIH Study



Sections. For the past 10 years Prof Hamblin has chaired an annual conference at SPIE Photonics West entitled “Mechanisms for low level light therapy” and he has edited the 10 proceedings volumes together with four other major textbooks on PDT and photomedicine. He has several other book projects in progress at various stages of completion.

Prof Hamblin has received a number of prestigious honours and awards, and in 2011 was honoured by election as a Fellow of SPIE.

Prof Hamblin has been appointed as a visiting professor at a number of institutions including the Guangxi Medical University, Nanning, China, Laser Research Centre Health Sciences, University of Johannesburg, South Africa, and School of Pharmacy, University of Ulster Coleraine, UK. Prof Michael Hamblin is the world’s the most documented authority on Neuromodulation. He is Editor-in-Chief of “Photobiomodulation, Photomedicine and Laser Surgery”, is Associate Editor for 10 other journals.

He has a Scopus H-index of 104 with 44918 citations. He has been on the Clarivate Web of Science list of most highly cited authors for the last 3 years. Dr Hamblin was elected as a Fellow of SPIE in 2011, received 1st Endre Mester Lifetime Achievement Award Photomedicine from NAALT in 2017, and Outstanding Career Award from Dose Response Society in 2018.





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PROF. CHUKUKA S ENWEMEKA

PhD, FACSM, WALT Past President

Prof. Enwemeka is Emeritus Professor and Director of Photomedicine Research

Laboratory, College of Health and Human Services, San Diego State University, San Diego, California. He has held several academic leadership positions, including serving as Provost and Senior Vice President of San Diego State for four years, 2014 to 2018.

Before joining the university, he served as Distinguished Professor and Dean of the College of Health Sciences, University of Wisconsin–Milwaukee for five years and more than six years as Professor and Dean, School of Health Professions at the New York Institute of Technology.

Professor Enwemeka held other leadership and professorial positions at the University of Kansas, the University of Miami, and the University of Texas Health Science Center at San Antonio before his deanships.

He served as the Second President of the World Association for Laser Therapy (WALT) from 1998 to 2000, and as founder, and pioneer Chairman of the North American Association for Laser Therapy from 2000 to 2006. World-wide, Professor Enwemeka is one



of the foremost authorities in photobiomodulation. He is the author of more than 100 research and professional publications, and holds several US and international patent on photo-eradication of microorganism with blue light.

His academic engagements, including visiting professorships, invited lectures, conference presentations and leadership of funded research projects in the US and more than 40 other countries.

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PROF. HEIDI ABRAHAMSE

BSc, MSc, PhD

Prof. Abrahamse is the Director of the Laser Research Centre and Chair for Laser Applications in Health at University of

Johannesburg, South Africa. Her research interests include photobiology and photochemistry with specific reference to Photodynamic cancer therapy and Photobiomodulation.

She was the recipient of the Faculty of Health Sciences highest research output for 2009 and the University of Johannesburg Vice-Chancellor's Distinguished Award for Outstanding Researcher of the Year, 2010 and again in 2020 and the NLC Rental pool grant-holder best research output for 2008, most masters graduates 2013 and most IP produced 2013 and most doctorate graduates, 2014.

She has supervised 58 masters; 33 doctorates and 22 post-doctorate fellows. Prof. Abrahamse has been invited to present her research at several international conferences as invited, keynote or plenary presenter.

Her publication record is impressive with 240 peer reviewed accredited journal publications, 57 accredited full paper proceedings, 49 chapters and 2 books. She





PROF. ARUN MAIYA

PhD

Prof. Maiya is the Dean of Manipal College of Health Professions and chief of the Centre for Diabetes Foot Care. Also, he is the president of the Indian Podiatry Association. Prof. Maiya is WALT executive board member.

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MRS. EMMA HALLAM

BSc MSc PGCertNMP

Emma is a Macmillan Consultant Therapeutic Radiographer. In 2013 she developed and now leads the award winning Macmillan Nottingham Radiotherapy Late Effects Clinic. This bespoke service, the first of its kind within the UK helps patients with any physical or psychological late effects that patients may have as a consequence from their treatment.

In 2019 she developed the service further to include the follow up of head and neck radiotherapy patients using patient reported outcome measures and digital technology and it is here where Emma helps to provide rehabilitation, identify early lymphoedema and other late effects with the intention of providing help and support before these consequences have a negative impact on the patient's quality of life.

Offering a holistic approach, helping patients live well with and beyond cancer and education on late effects to both patients and health professionals is Emma's key focus and area of interest.



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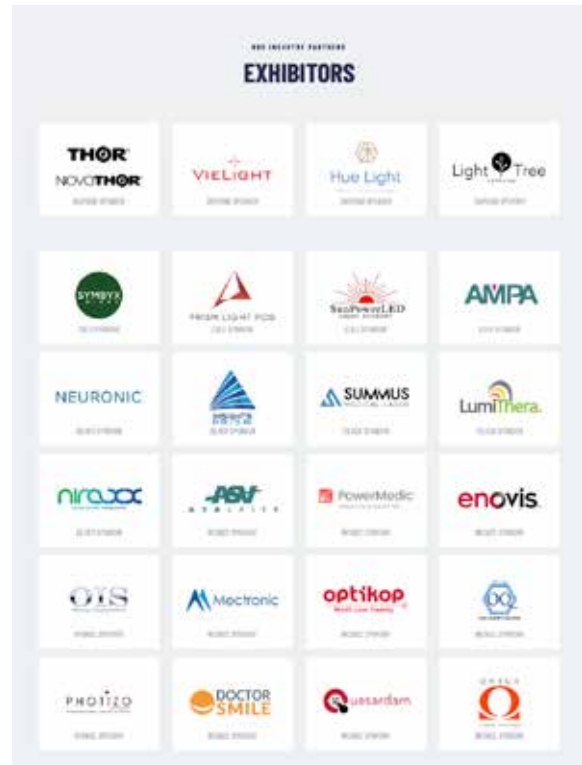


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DR. LILACH GAVISH

PhD, MPH

Dr. Gavish is a senior research associate at the Faculty of Medicine of the Hebrew University of Jerusalem and serves as the WALT treasurer and member of the executive council. Her main focus of interest is photobiomodulation from bench to bed-side. In this field she has led pre-clinical experiments particularly related to cardiovascular conditions and mitochondrial dynamics, as well as clinical studies focusing on orthopedic indications and chronic wounds.

She has won several international awards for her work which she presents regularly at international conferences and publishes in medical/scientific journals. Dr. Gavish is a member of the editorial board of Photobiomodulation, Photomedicine and Laser Surgery and serves as an external reviewer for PBM-related PhD thesis and grants.



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ERNESTO CESAR PINTO LEAL-JUNIOR

Prof. Ph.D., M.Sc., PT

Full Professor at Nove Julho University in Sao Paulo (Brazil) since 2010, where he is the

head of Laboratory of Phototherapy and Innovative Technologies in Health (LaPIT) supervising several post-doctoral fellows, Ph.D. candidates and master degree students.

Since 2013 he acts as Lead Researcher for Multi Radiance Medical (Solon - OH, USA), and since 2018 he has been acting as Visiting Professor at the University of Bergen in Norway. From January 2024, Prof. Leal-Junior is becoming an Associate Professor at the University of Bergen in Norway.

He has been granted by government research agencies and by private companies with more than USD 3,000,000 in grants and scholarships.

Currently Dr. Leal-Junior has over 140 scientific papers in the photobiomodulation field published in international peer-reviewed journals (indexed by Pubmed/Medline).



He has published over 60 randomized controlled trials (RCTs) plus systematic reviews (SRs) to the date, becoming the researcher that has authored more RCTs plus SRs on photobiomodulation in the world.



PROF. NIVALDO ANTONIO PARIZOTTO

PT, MSc, PhD

Prof. Parizotto is Professor of Biomedical Engineering at University Brasil, Physiotherapist - PUCCamp, Master in Physiology - FMRP-USP and had a PhD in Electrical Engineering - FEEC-UNICAMP. He was a visiting scientist at Welmann Center for Photomedicine, Department of Dermatology at Harvard Medical School (Boston-USA).

He is author for more than 250 articles in peer reviewed journals.

His studies focus on electrophysical agents and their interaction with tissues, analyzing in vitro and in vivo studies, as well as clinical trials with analyzes such as systematic reviews and meta-analyses.



He is a retired professor at the Department of Physiotherapy at the Federal University of São Carlos, where he served as Head of Department, Course Coordinator, and he was representative on the University's higher councils.

He was a founding member of the International Society of Electro-Physical Agents (ISEAPT) linked to the World Confederation for Physical Therapy (WCPT), member of the Brazilian Society for Pain Studies (SBED), chapter of the International Association for Study of Pain (IASP), Member Founder and Area Coordinator of Physiotherapy at the Brazilian Society for Tissue Regeneration (SBRET).





JUANITA J. ANDERS

M.S., Ph.D., Professor of Anatomy,
Physiology and Genetics,
Professor of Neuroscience

Prof. Anders is internationally recognized as an expert in Photobiomodulation research and has served as invited Chair and Speaker globally. Her specialty is peripheral and central nervous system injury and repair mechanisms, and light tissue interactions.

Prof. Anders received her Ph.D. in Anatomy from the University of Maryland Medical School then joined the National Institutes of Health in the Laboratory of Neuropathology and Neuroanatomical Sciences, NINDS. She is affiliated with the Uniformed Services University of the Health Sciences as a Professor of Anatomy, Physiology and Genetics and Professor of Neuroscience.

Prof. Anders serves on the Executive Councils and Scientific Advisory Boards of numerous international laser conferences.

She is the past president of the North American Association of Laser Therapy, a founding member of the International Academy of Laser Medicine and Surgery, and Past President of the American Society of Lasers in Medicine and Surgery. She has recently



been appointed as a board member of the International Society of Lasers in Medicine and Surgery and currently serves as the Director of the Optical Society of America Photobiomodulation Technical Group.

She is a Senior Editor of Photomedicine and Laser Surgery, Associate Editor of Lasers in Surgery and Medicine, Associate Editor of Lasers in Medical Science, and on the editorial board of Physiotherapy Practice and Research and has published over 70 peer reviewed articles.



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PROF. SHIMON ROCHKIND

MD, PhD

Specialist in Neurosurgery and Microsurgery

- Head of the Microsurgical Center for Peripheral Nerve Reconstruction, Assuta Medical Center, Tel Aviv, Israel
- Chief Medical Officer of Maxonis
- Academic Position: Associated Professor, Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel
Former President: The Sunderland Society
- Member of EANS Committee of Peripheral Nerve Surgery, European Association of Neurosurgical Societies
- Editor of 3 international medical and scientific journals
- Editorial Board Member of 5 international medical and scientific journals
- External Reviewer of 34 international medical and scientific journals
- Awards: Recipient of 7 international and 3 national awards for basic and clinical research, including Outstanding Teacher Award, Sackler Faculty of Medicine, Tel Aviv University



- Grants: 16, including FP7 Consortium (EU), Teva Pharmaceutical Industries, Johnson & Johnson, Moxie Foundation, German Israeli Foundation (GIF), Baxter International and Azrieli Foundation
- Patents: 11 international patents in field of biotechnology and laser technology
- Publications: Author of over 80 peer review articles, 7 review papers, 4 case reports, 15 proceedings and 30 chapters in books





ADAM R. MESTER

M.D. PhD

Head of National Laser Therapy Centre; Peterfy Sandor Teaching Hospital, Budapest

Born and raised in Budapest, Hungary. His father Endre Mester, MD full professor of surgery and chairman of the 2nd Surgery Department of the Semmelweis Medical University in Budapest who was the fourth physician publishing laser application in medicine and the inventor of Laser Biostimulation. His two sons Adam and Andrew (MD otolaryngologist in Sansum Clinic in Santa Barbara, California) were close co-workers in both the basic science and clinical studies of Endre Mester in the low power laser investigation.

Adam Mester received his MD and started his radiology residency program at the Semmelweis Medical University in 1974. He received his Ph.D. diploma in 2002 and European Diploma of Musculoskeletal Radiology in 2009.

Activity in Laser Therapy: he started as medical student as assistant of his father. He introduced radiology imaging in laser therapy planning. He was chairman of LLLT (Low Level Laser Therapy) Society of Hungary, secretary general of Low Power Laser Society, board member of LLLT Society and he got



honorary membership of WALT and of European Society of Musculoskeletal Radiology ESSR. At the same time, he was working at the Laser Research Centre of the Postgraduate Medical University in Budapest with his Father, Endre and his Brother, Andrew. He married Judit Ortutay M.D., who joined laser therapy using in rheumatology.

He was active in national Scientific Societies: board member in Hungarian Society of Radiologists, chairman of the Skeletal section of the latter, board member of Hungarian Association of Rheumatologists, and the Hungarian Osteo-Arthrology Interdisciplinary Society, secretary general of the latter. He received 3 awards of national societies (Radiology, Osteoporosis and Osteoarthrology, and Rheumatology).

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PROF. PAOLO CASSANO

MD, PhD

Prof. Cassano is an Associate Professor in Psychiatry at Harvard University, and Director of Photobiomodulation at the Massachusetts General Hospital (MGH) Division of Neuropsychiatry and at the MGH Depression Clinical and Research Program.

Prof. Cassano has served as a principal investigator on multiple studies on transcranial photobiomodulation (t-PBM) for several neuropsychiatric disorders, such as major depressive disorder (MDD), generalized anxiety disorder (GAD), mild cognitive impairment (MCI) due to Alzheimer's disease (AD) and Down syndrome (DS).

Prof. Cassano's research on t-PBM was funded by the National Institute for Mental Health (NIMH), by the National Institute of Aging (NIA), by numerous non-profit foundations such as the Alzheimer Association, the Brain and Behavior Research Foundation (NARSAD), the Down Syndrome Research Foundation (UK) and the Milken Institute.

The Harvard Dupont Warren/Livingston Fellowship and private companies have also funded Dr. Cassano's research on t-PBM. In 2016, Prof. Cassano co-founded a neurotech, Niraxx Inc.





PROF. MIN YAO

MD, PhD

Prof. Yao is a full Professor of Shanghai Jiaotong University School of Medicine (SJUSM). Academic leader of photoelectricity specialty in plastic surgery at the Ninth People's Hospital of SJUSM. She was a postdoctoral at the University of California and an Instructor at Harvard University, USA. Dr. Yao specializes in photoelectric treatment of aesthetics. She is the deputy director of the Trauma Committee of the China Medical Women's Association.

She has conducted the projects from the National Natural Science Foundation of China and the U.S. Department of Defense, etc. She has been awarded the Research Award of American Society of Laser Surgery Medicine ASLSM and Chinese Medical Science Prize, etc. She has published 162 papers, including 72 in English, holds 16 patents.





PROF. PAUL CHAZOT

PhD

Prof. Chazot is Professor of Pharmacology, Durham University, UK. His research group focuses on the identification, characterisation and validation of novel

therapeutic strategies (notably Photobiomodulation therapy, synthetic histamine and retinoid drugs, and biopsychosocial “skills not pills” and “Unmasking Pain” tools), for the treatment of the major chronic CNS disorders. We also are developing novel all-in-one AI monitored behavioural-marker tests for rodents, drosophila flies and humans (including lab-based and in-home AI devices).

We have been developing since 2012, novel ways to provide a national community-based pain self-management programme, based on a biopsychosocial approach (www.livewellwithpain.co.uk and Gabapentin and Opioid Tapering Toolbox (GOTT) programme).

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PROF. GEORGI TOMOV

DMD, MSc, PhD

Prof. Georgi Tomov is Chair of the Periodontology Department and Director of the Laser Center at the Faculty of Dental Medicine, Plovdiv

Bulgaria.

He is also a President-elect of the Bulgarian Dental Laser Society and member of the Executive Board of ISLD (International Society for Laser Dentistry).

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PROF. REZA FEKRAZAD

Periodontist, DDS, MSc, FLD, FICD

- Founder and Head of Radiation Science Research Center, Aja University of Medical Sciences, Tehran, Iran (since 2014).
- President of Iranian Medical Laser Association (2012-2023)
- General Secretary of the World Association for Laser Therapy (WALT)(2016-2021)
- Director of guidelines and publications of WALT (since 2021)
- General Secretary of The National Laser Research Network of the Ministry of Health and Medicine of Iran (since 2022)
- Founder and head of International Network for Photo Medicine and Photo Dynamic Therapy (INPMPDT), Universal Scientific Education and Research, Network (USERN), Tehran, Iran (2018).





PROF. CHANDRASHEKAR YAVAGAL

MDS, DOrth, PhD

- American Board Certified for Pediatric and neonatal TOTS Surgery
- Director and Head Laser Dentistry and Photomedicine, MMNGHIDS, India
- Vice President for Light Medicine and Laser Therapy, Germany.
- Scientific Director, Asian Academy of Laser Therapy (AALT)
- WALT social media director



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PROF. VENERA BERISHA-MUHARREMI

MBBS, PhD

Professor Berisha-Muharrami holds a professorship position at Department of Internal

Medicine, Faculty of Medicine, University of Prishtina, Kosovo. She is a specialist in Internal Medicine and Endocrinology, and the founder of Endomedica Polyclinic in Prishtina since 2014. She is heavily involved in teaching, supervising and training postgraduates and specialist trainees. She was the director Endocrinology Clinic at University Clinical Center, Kosovo in the period between 2018-2021.

Prof. Berisha-Muharremi completed four years specialization programme in Internal Medicine, Kosova University Clinical Center (KUCC) in 2010 and completed her two-years subspecialization in Endocrinology and Diabetology in 2012 from University Clinical Center of Skopje, Macedonia. In 2014, she completed her PhD from University of Zagreb.

Prof. Berisha-Muharremi has been invited to the world-renowned University Centers for professional and academic advancement; Evidence-Based Medicine, Oxford University; Diabetology, University



of Perugia, Italy; Management of Obesity, University of Harvard. She has numerous publications in the field of endocrinology and autoimmune diseases.



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PBM2024 SCIENTIFIC PROGRAM



PBM2024
LONDON
AUGUST 23rd-25th, 2024

- ➔ **FRIDAY, AUGUST 23rd**
- ➔ **SATURDAY, AUGUST 24th**
- ➔ **SUNDAY, AUGUST 25th**



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. Nivaldo Antonio Parizotto</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;">GOLD SPONSOR ROOM – 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;">GOLD SPONSOR ROOM – 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>



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



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**PHOTOBIO-MODULATION - 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 President

20:15 -
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 Prof. Michael Hamblin History and Mechanisms of Photobiomodulation, with a Focus on Treatment of Brain Disorders</p> <p>PLENARY ROOM — 8:55-9:20 Prof. Paul Chazot PBM-T 1070 for Diabetic Hyperglycaemic Neuro- and Retinopathies: Validation for Clinical Use</p> <p>PLENARY ROOM — 9:20-9:45 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

PRE-RECORDED

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

PRE-RECORDED

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

PRE-RECORDED

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. Maria Luisa Hernandez-Bule

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

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

PRE-RECORDED

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</p> <p>Diamond Sponsor Masterclass (Non-CPD Session) Light Tree Ventures 100 easy steps to turn your PBM idea into a successful product</p>



<p>14:00-15:30</p>	<p>DIAMOND SPONSOR'S SESSION(S) PLENARY ROOM, WESTMINSTER (LEVEL -3)</p>
	<p>CHAIRS: Prof. Nicolette Houreld, Prof. Reza Fekrazad</p>
	<p>PLENARY ROOM — 14.00-14.35 Dr. Lew Lim Unlocking Brain Potential Through Photobiomodulation</p>
	<p>PLENARY ROOM — 14.35-15:10 Mr. James Carroll How Photobiomodulation Might Help Delay The Four Leading Chronic Noncommunicable Causes Of Death</p>
	<p>PLENARY ROOM — 15.10-15-30 Q&A</p>
<p>14:00-15:30</p>	<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 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 — 14:54-15:12

PRE-RECORDED**Dr. Neda Hakimih**Evaluation 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

Mrs. 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: 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

PRE-RECORDED

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

PRE-RECORDED

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 Houeld, Prof. Praveen Arany, Prof. Reem Hanna

ROOM 3 — 16:00-16:13

Dr. Ioana Cristina Miron

A Novel Therapeutic PBM Approach With Flat-top 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

PRE-RECORDED

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 — 17:17-17:30

Dr. Marithé Claes

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

20:00-00:45

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



SUNDAY, AUGUST 25th

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>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- 9:00 Prof. Renè-Jean Bensadoun Photobiomodulation In The Management Of Cancer Therapy-Induced Side Effects: WALT Position Paper</p> <p>PLENARY ROOM — 9:00-9:25 Dr. Diggpal Dharkar Incorporating Photobiomodulation Therapy In Early Integration Of Supportive Care, A Low-Cost Module For Developing Countries</p>



PLENARY ROOM — 9.25-9.40

Dr. Jöri Pünchera

Radiation-Induced Chronic Ulcerations
And Fistulae Successfully Treated With
Photobiomodulation

PLENARY ROOM — 9:40-9:55

Dr. Sharon Staton

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

PLENARY ROOM — 9:55-10:15

Dr. Antoine Lemaire

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

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

PRE-RECORDED

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

PRE-RECORDED

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

PRE-RECORDED

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

PRE-RECORDED

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



	<p>ROOM 3 — 9:45-10:00</p> <p>Dr. Marggie Grajales Osteoblast Differentiation And Changes In The Redox State In Pulp Stem Cells By Laser Treatment</p>
	<p>ROOM 3 — 10:00-10:15</p> <p>Dr. Marjorie Dole Transcranial Photobiomodulation Improves Performance On A Motor Task In Healthy Adults: The Effect Is Greater On Non-Musicians</p>
	<p>ROOM 3 — 10:15-10:30</p> <p>Open microphone discussion</p>
<p>10:30 - 11:00</p>	<p>COFFEE BREAK AND EXHIBITOR VISIT WESTMINSTER- EXHIBITION AREA (LEVEL -3)</p>
<p>11:00 - 13:00</p>	<p>PAIN MANAGEMENT AND ADDICTION PLENARY ROOM, WESTMINSTER (LEVEL -3)</p> <p>CHAIRS: Prof. Reem Hanna, Prof. Juanita Andres, Dr. Scott Sigman</p>
	<p>PLENARY ROOM — 11:00-11:25</p> <p>Prof. Juanita Andres Direct High Irradiance Photobiomodulation (Direct PBM) Therapy For Pain Modulation</p>



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

PRE-RECORDED

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

PRE-RECORDED**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 (a-PDT) For 3-Dimensional Disruption Of Biofilms In Endodontics & Oral Care

ROOM 3 — 12:44-12:52

PRE-RECORDED

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 (Non-CPD Session)</p> <p>Hue Light</p> <p>Can Whole-Body Photobiomodulation Therapy (PBM) and Hydrogen inhalation Therapy cause cancer cells to revert to normal cells?</p>
<p>14:00-15:30</p>	<p>SPORTS AND REHABILITATION</p> <p>PLENARY ROOM, WESTMINSTER (LEVEL -3)</p> <p>CHAIRS: Prof. Jan Bjordal, Prof. Shimon Rochkind</p> <p>PLENARY ROOM — 14:00-14:45</p> <p>Prof. Nivaldo Antonio Parizotto</p> <p>Photobiomodulation Effects Associated With An Exercise Protocol In The Treatment Of Non-Specific Neck Pain: Proposal For A Randomized Clinical Trial</p>



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

PLENARY ROOM — 15:15-15:30

Dr. Cintia Cristia Santi Martignago

Photobiomodulation Therapy Associated With Aerobic Exercise Training Modulates Inflammation In An Experimental Model Of Knee Osteoarthritis



14:00-
15:30**YOUNG INVESTIGATOR-BASIC SCIENCES****ROOM 1, PLAZA (LEVEL -1)**

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

ROOM 1 — 14:00-14:13

Dr. Daisuke Uta

In Vivo Electrophysiological Study Of The Analgesic Effects Of Photobiomodulation In Rats

ROOM 1 — 14:13-14:26

Dr. Katayoon Montazeri

Transcranial Photobiomodulation In Treatment Of Tinnitus

ROOM 1 — 14:26-14:39

Dr. Azita Mazaheri Tehrani

Skin Wound Healing In Diabetic Rat Model Using Low-Dose Photodynamic Therapy (LDPDT)

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

PRE-RECORDED

Dr. Sohrab Asefi

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



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 TedfordPhotobiomodulation 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'andreaUltra-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 EellsPhotobiomodulation For The Treatment Of
Retinal Injury And Disease: Experimental
Studies

ROOM 2 — 14:45-15:00

Dr. Arun SachdevImprovement 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 — 15:15-15:30

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

PRE-RECORDED

Dr. Robabeh Alijanpour

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

ROOM 3 — 15:00-15:15

PRE-RECORDED

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

PRE-RECORDED

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



	<p>ROOM 1 — 17:00-17:15 PRE-RECORDED</p> <p>Dr. Sayena Hadagar Comparison Of Two Intervention Methods, Photobiomodulation And Cognitive Rehabilitation, On The Risk-Taking Factor In Opioid Drug Users.</p>
	<p>ROOM 1 — 17:15-17:30</p> <p>Dr. Belinda Mandrell From Zero To Hero: Developing A Hospital Wide Photobiomodulation Program For A Pediatric Oncology Hospital</p>
<p>16:30-17:30</p>	<p>LATE SUBMISSION AND MISCELLANEOUS SESSION</p> <p>ROOM 2, PLAZA (LEVEL -1)</p> <p>CHAIRS: Dr. Katayoun Am Kalhori, Dr. Antoine Lemaire</p> <p>ROOM 2 — 16:30-16:45</p> <p>Ms. Nicola Freeman Evaluation Of Photobiomodulation To Reduce Oral Mucositis In Patients Undergoing Radiotherapy</p>



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. Nazanin 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 PLENARY ROOM- WESTMINSTER (LEVEL -3)</p> <p>Prof. Reem Hanna - Chair Of PBM2024 A Brief On PBM2025 Conference</p>



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OPENING CEREMONY SPEAKER ABSTRACTS

Opening Ceremony: A Breif History Of The First Discovery Of Photobiomodulation By Prof. Endre Mester - The Father Of Photo- biomodulation

Prof. Adam Mester

Head of National Laser Therapy Centre, Peterfy Sandor
Teaching Hospital, Budapest

Abstract

Endre Mester, M.D. (1903-1984) discovered and published the Biostimulative (Photobiomodulatory) effects of low-power laser in 1967. Initially he was interested to study possible carcinogenic effects of the newly discovered laser, and therefore he applied repeated low power ruby laser irradiation on shaved mouse skin. He documented no carcinogenic effect of the laser but surprisingly, the hair started to grow faster on the irradiated skin area compared to the non-irradiated skin. When more laser irradiation was given to the skin the hair did not grow any more as opposed to the non-irradiated area where the normal hair



growth has been observed. This was the first experiment documenting the Arndt-Schultz biophysical law for the laser, e.g., stimulation by the low-power and inhibition of higher power laser radiation.

Since Mester was a surgeon, he was keen to help patients with non-healing or difficult healing wounds. He found that low power laser stimulated cellular repair mechanisms and wound healing of the injured skin on the back of the mouse. This experiment has been followed up in a wide variety of experimental conditions, animal models followed up with human studies resulting proper dose distribution and calculations on surface and in deeper tissues related to different wavelengths characteristics.

The second surprising observation was anti-inflammatory and analgesic effects of photobiomodulation in arthritis-autoimmune diseases. Immunological experiments supported the bioregulatory effects in inflammatory mechanisms. Several experimental results and clinical evidences showed the balance of stimulative and inhibitory effects. Prof. Mester investigated separated effects of only monochromatic, and of only polarized light sources. Summared conclusion of researches based on these evidences and of other researchers concluded the expression of photobiomodulation.



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- Pioneering in PBM applications

Thirty Years Of Experience In Photobiomodulation Groundbreaking Research In Mitigating Adverse-Effects Of Oncology Therapies- New Paradigm Of Preventive And Therapeutic Approaches

Prof. René-Jean Bensadoun

Centre de Haute Energie (CHE), Nice, France

Abstract

The side-effects of oncology therapies are very debilitating to patients' quality of life and have a great impact on oncology course of treatments. My rigor research involvement in developing low energy lasers/ LEDs and understanding dosimetry parameters has led to further appreciation of photobiomodulation (PBM) mechanistic effects, serving many clinical applications.

Hence, in the last 30 years of my involvement in groundbreaking research utilising PBM, as a preventive or therapeutic approach in mitigating adverse-effects induced by anticancer treatments has led to extraordinary revolution and development of this application to be a standard supportive care for Cancer.



Moreover, my extensive research work with eminent researchers in the field has extended further during my WALT presidency in the period between 2021-2024, resulted in publishing the “WALT POSITION PAPER 2022” entitled “Photobiomodulation Therapy in Management of Cancer Therapy-Induced Side Effects”. During the presentation, I will pinpoint those extraordinary development and new paradigm of PBM in this application.

Let’s wish a deserved success for this Anniversary Meeting in London, as well as new PBM innovative projects in the future to benefit our patients!



The Evolution Of Photobiomodulation In Treating Diabetic Complications

Prof. Nicolette Houreld

Laser Research Centre Faculty of Health Sciences,
University of Johannesburg, Johannesburg, South
Africa

Abstract

One of the major challenges in managing diabetes is the development of various complications that can significantly impact a patient's quality of life. Among these complications are diabetic retinopathy, neuropathy, nephropathy, and chronic ulcers, each presenting unique challenges for treatment and management. Over the years, photobiomodulation (PBM) has emerged as a promising therapeutic approach for addressing these complications, leveraging the application of light to modulate cellular functions and stimulate biological processes, and promote healing. Leadership in PBM research is characterized by pioneering investigations into the mechanisms underlying light-cell interactions, pushing boundaries in clinical applications, and driving technological innovations, all of which are instrumental in advancing PBM's integration into



mainstream healthcare protocols. This talk will delve into the forefront of PBM research in treating diabetic complications, highlighting key studies and leadership trends that are shaping its future trajectory. Each one of us have a pivotal role to play in steering the course of PBM research towards greater clinical efficacy and widespread acceptance. By championing innovation, collaboration, and evidence-driven practices, PBM leaders are reshaping healthcare paradigms and unlocking new frontiers in therapeutic light-based interventions.

Current State Of Clinical Translation Of Photobiomodulation Therapy

Prof. Praveen Arany

Oral Biology, Surgery, and Biomedical Engineering,
Buffalo Univeristy, Buffalo, USA

Abstract

Significant progress has been made in the past few decades in understanding and utilizing Photobiomodulation (PBM) treatments for human health and wellness. Several tangible recent milestones include the recognition of PBM as a discrete form of light therapy by the United States Food and Drug Administration and the American Dental



Association. The increasing clinical evidence has led to broader adoption of this therapy and is poised to make a major impact on supportive cancer care, rehabilitation and performance, and wound healing among others. There is several exciting new advances in overall wellness and aging that strongly support the key role of light in health, supporting newer concepts of light hygiene, light as a health supplement, and a drug (photoceutical).

Forty Years Of Progress In Photobiomodulation

Prof. Chukuka Enwemeka

Photomedicine Research Laboratory, College of Health Sciences, San Diego State University, USA

Abstract

This paper summarizes forty years of advancements in photobiomodulation in the areas of pain relief, tissue repair, and photo-inactivation of bacteria and viruses. It pinpoints needed areas of research works and offers suggestions for the future, based on personal experience. Methods: We collated, analyzed, and synthesized our published reports and those of others since the mid-1980s, in the areas of pain relief, tissue repair, and photo-eradication of bacteria and viruses.



The historical review shows significant progress in our understanding of the biomedical effects of various wavelengths of light over the past four decades. It shows that some of the earliest studies were directed at improving our understanding of dose, terminology and other parameters, and the potential effects of red and infrared light in humans and animal models of pain and tissue repair. Latter studies progressively uncovered the mechanisms underlying the effects of various wavelengths in the red and near infrared ranges, and the blue and violet spectra. Further, within the last twenty years, there has been an astounding expansion of the field to include skincare, cancer therapy, treatment of various neurological disorders and injuries—including soft tissue injuries, brain injury, and spinal cord injury, and photo-inactivation of microorganisms. These developments, the current state of photobiomodulation, the positive roles played by WALT, and the future direction of the field will be discussed during the presentation.



Groundbreaking Research Applications Of PBMT For Brain Disorders

Prof. Michael Hamblin

Laser Research Centre Health Sciences, University of Johannesburg, Johannesburg, South Africa

Abstract

An increasing body of evidence supports the use of PBMT for treating neurodegenerative diseases (Alzheimer's and Parkinson's). PBMT has also shown good results in chronic and acute traumatic brain injury, and in various psychiatric disorders such as depression and anxiety. Here some new ground breaking applications for brain disorders will be discussed. Neurodevelopmental disorders including autism spectrum disorder, attention deficit hyperactivity disorder and Down syndrome have all been shown to benefit from PBMT. There is evidence that opioid use disorder and insomnia can respond to PBMT. More speculative applications including epilepsy and chronic stroke rehabilitation will also be discussed.



Research That Established The Use Of Pbm To Modify Functions Of The Nervous System

Prof. Juanita Andres

Anatomy, Physiology and Genetics, School of Medicine, Uniformed Services University of the Health Sciences,, Bethesda, MD, USA

Abstract

A number of research laboratories, including my own, have been fundamental in establishing the therapeutic effects of PBM on various aspects of injury and disease of the peripheral and central nervous systems. Research has focused on axonal regrowth, pain modification, recovery from stroke, traumatic brain injury and diseases of brain. In this presentation, I will focus on the seminal research on nerve regeneration in the central and peripheral nervous systems and pain modulation. Besides describing the major milestones in these areas, I will highlight data that also had a significant impact on the PBM treatment of other tissues and systems. These data established principles governing wavelength selection based on the target tissue location and dosing parameters as well as clarifying cellular responses.



Photobiomodulation In Ophthalmology: Development Of The Multiwavelength Valeda Light Delivery System For Treatment Of Degenerative Ocular Disease

Dr. Clark Tedford

LumiThera Inc, Poulsbo, USA

Abstract

Photobiomodulation (PBM) has been investigated in over 30 published reports in the ophthalmology field with positive findings in clinical, anatomical and quality of life (QoL) outcomes. Degenerative, inflammatory and other mechanistic underpinnings that underlie the development of the variety of ocular disease states may benefit from the non-invasive and targeted approach PBM therapy offers. Multiwavelength approaches offer an appealing strategy to target underlying cellular contributors of disease. The Valeda[®] Light Delivery System (LumiThera Inc., Poulsbo, WA, USA) was developed to address degenerative eye disease with a focus on dry age-related macular degeneration (AMD). The LIGHTSITE series of trials evaluated Valeda for dry AMD. History and current status will be discussed in detail.



Photobiomodulation Therapy; Providing Hope In The Management Of Radiation-Induced Fibrosis

Dr. Emma Hallam

Nottingham University Hospitals NHS Trust,
Nottingham, United Kingdom

Abstract

As ever more cancers are being cured, there is an ever-increasing need to provide support for patients living with and beyond their cancer diagnosis. Radiation induced fibrosis a progressive, sclerotic disorder is an unintended consequence from radiotherapy treatment. Despite advances in planning and treatment delivery, this debilitating consequence leads to a reduced quality of life with poor physical and psychological function.

The Nottingham Late Effects Clinic is such a service that offers collaborative multi-disciplinary support throughout the survivorship trajectory to manage this long term condition using novel treatments such as photobiomodulation therapy (PBM).

Outcomes observed included changes in appearance,



softening of fibrosis, reduction in lymphoedema, improved range of movement, reduction in pain and decreased psychological distress. There was a significant improvement in quality of life with many patients wanting to continue with long-term PBM therapy.

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The advertisement features a red background with white text. On the right side, there are four photographs arranged in a 2x2 grid. The top-left photo shows a young girl wearing dark sunglasses and holding a handheld laser device to her mouth. The top-right photo shows a person using a laser device on a dog's head. The bottom-left photo shows a person using a laser device on the back of a woman. The bottom-right photo shows a person using a laser device on a woman's face. A bright light flare is visible in the center of the grid.



OPENING CEREMONY TALK: THE EVIDENCE FOR PBM VS PHARMACOTHERAPIES

Prof. Jan Bjordal

University of Bergen, Bergen, Norway

Abstract

Twenty-five years ago, anti-inflammatory drugs dominated the management of musculoskeletal pain. However, the clinical effect sizes for NSAIDs were small, and their side effects began to raise concerns, creating an urgent need for more effective and safer anti-inflammatory treatments.

At the University of Bergen, Norway, we evaluated several electrophysical agents, conducted numerous clinical trials, performed many systematic reviews with meta-analyses, and identified Photobiomodulation Therapy (PBMT) as the best anti-inflammatory option.

Pharmaceutical trials use safe and well-established optimal doses, enabling precise modulation of biological reactions. In contrast, clinical PBMT lacked sufficient understanding of the biological mechanisms and appropriate dosing to reduce inflammation reliably and consistently. Consequently, only 55% of musculoskeletal clinical trials showed overall positive results with PBMT, according to our published reviews.



Through our systematic reviews and meta-analyses, we found that a small subset of trials demonstrated clinically significant effects. This led to the hypothesis that subgrouping by dose could reveal a possible dose-response pattern. The research group compared the doses from animal studies and proposed optimal dosage intervals for clinical PBMT, which have since been validated for osteoarthritis and tendinopathies.

Overall, our nine systematic reviews of randomised clinical trials on musculoskeletal pain found dozens of moderate to high-quality MSK studies involving thousands of patients, which, when treated within the effective dose range extrapolated from animal studies, consistently showed that PBMT effectively reduced MSK pain, reduced disability, with no adverse events reported and produced longer-lasting effects than widely recommended drugs.

It is our view that whilst PBMT is less convenient than taking NSAIDs, it is a safer and more effective option for treating musculoskeletal pain.



HEAD to



20-minute
session

TOE

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Marvel at the incredible architecture of Westminster Abbey, an active place of worship and Unesco World Heritage Site in London.

Founded by Benedictine monks in 960 AD, the abbey is Britain's coronation church and the setting for many special ceremonies, including the wedding of Prince William and Kate Middleton in 2011 and the State Funeral of Queen Elizabeth II in 2022.

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Park Plaza Westminster Bridge London is situated on London's South Bank, within walking distance of the city's most iconic attractions. Our hotel's ideal location is minutes away from Westminster and Waterloo London Underground Stations and London Waterloo National Railway Station.



From the Airport

From London Heathrow Airport (LHR)

Take the London Underground on the Piccadilly Line, travelling eastbound towards Cockfosters Underground Station. Change lines at Green Park Station for the southbound Jubilee Line. Alight at Westminster Underground Station. Walk across Westminster Bridge and the hotel will be right in front of you.

From London Gatwick Airport (LGW)

From London Gatwick Airport, you can take the Gatwick Express headed towards London Victoria Railway Station. At London Victoria, take the Underground travelling eastbound on the Circle and District lines. Get off at Westminster and walk south across Westminster Bridge. Walk south across Westminster Bridge, safely cross the roundabout. Walk along Westminster Bridge and the hotel will be in front of you.

From London City Airport (LCY)

As the name says, London City Airport is located within the city limits of London. From the airport, take the Docklands Light Railway (DLR) and change at Canning



Town. Take the Underground on the westbound Jubilee line towards Waterloo. Alight here and exit the station via the South Bank. Walking up York Road towards the London Eye, take the second left turn. Park Plaza Westminster Bridge will be directly in front of you.

From London Stansted Airport (STN)

From London Stansted Airport, take the Stansted Express to Liverpool Street Rail Station. Change for the London Underground and take the Circle Line to Westminster. Get off at Westminster. Walk south across Westminster Bridge, cross the roundabout. Walk across Westminster Bridge and the hotel will be in front of you.

By Car

Get to Park Plaza Westminster Bridge London by car from Junction 1 of the M4, take the A4 signposted Central London. After three miles turn right onto the A3220 signposted Central London (Westminster), Battersea. After 1.3 miles, continue forward onto the A3212 for Central London, Victoria, Vauxhall. At Parliament Square turn left (one-way street). Immediately turn right and head along A302 for Waterloo Station. Cross over Westminster Bridge and drive along Westminster Bridge Road to the hotel.



The drop-off point is accessed from Addington Street heading towards York Road (stay in the left-hand lane).

Get to Park Plaza Westminster Bridge London by taxi

Only taxis (black cabs) can be hailed off the streets. Minicabs cannot accept fares that have not been booked in advance. To pre-book a car with us, please contact our Park Plaza Westminster Bridge Concierge Team in advance by calling +44 (0) 20 7620 7260 or by emailing ppwlconcierge@pphe.com. Please see approximate costs for travel to the hotel below.

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- King's Cross & St Pancras (Eurostar) – £35

Please note that costs are approximate based on two people and subject to change.



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From King's Cross & St. Pancras Railway Station (Eurostar); Take the Piccadilly line in the London Underground. Headed eastbound, change at Green Park Station for the southbound Jubilee line. Alight at Waterloo and exit the station via the South Bank. Walking up York Road, Park Plaza Westminster Bridge will be directly in front of you.

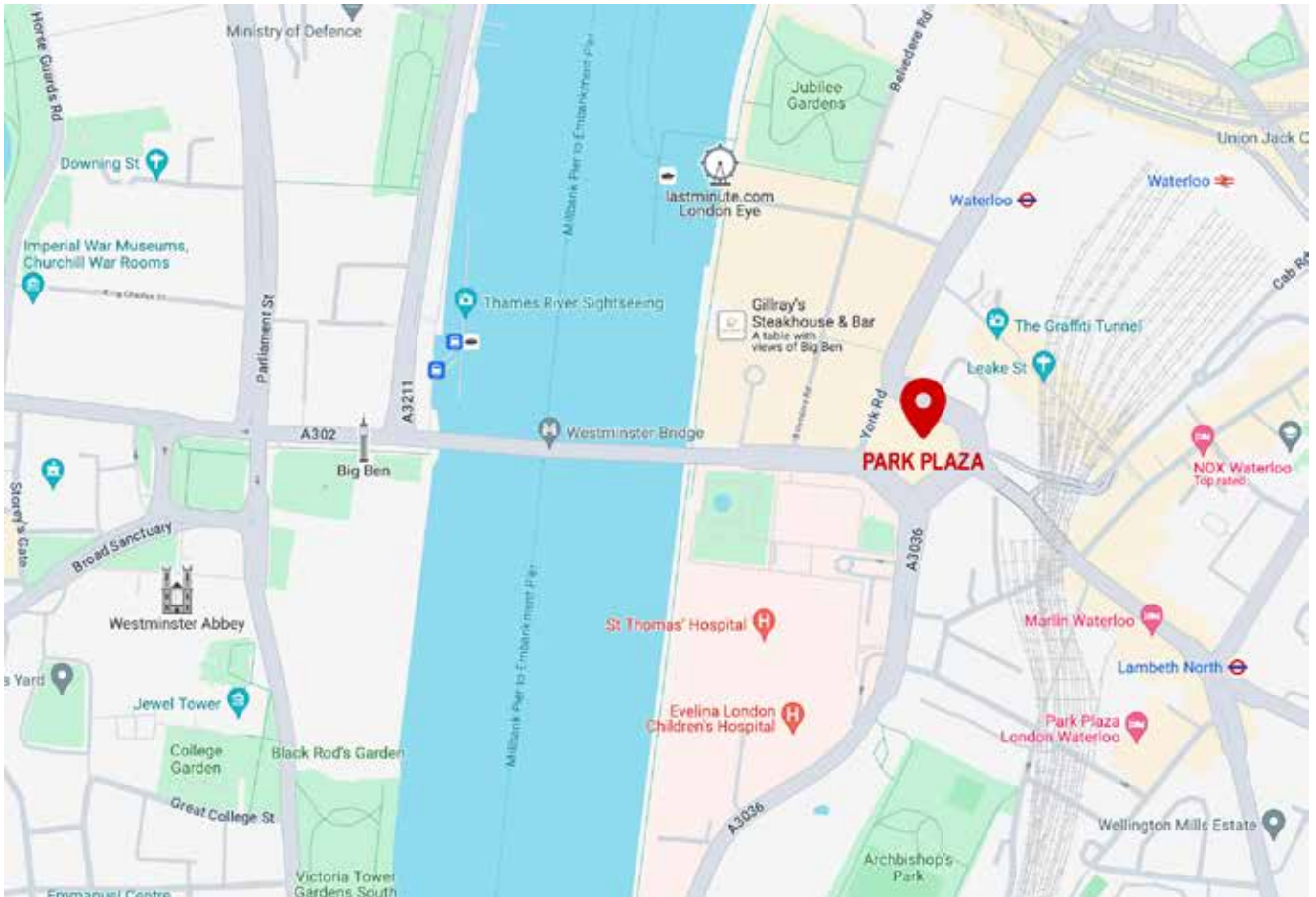




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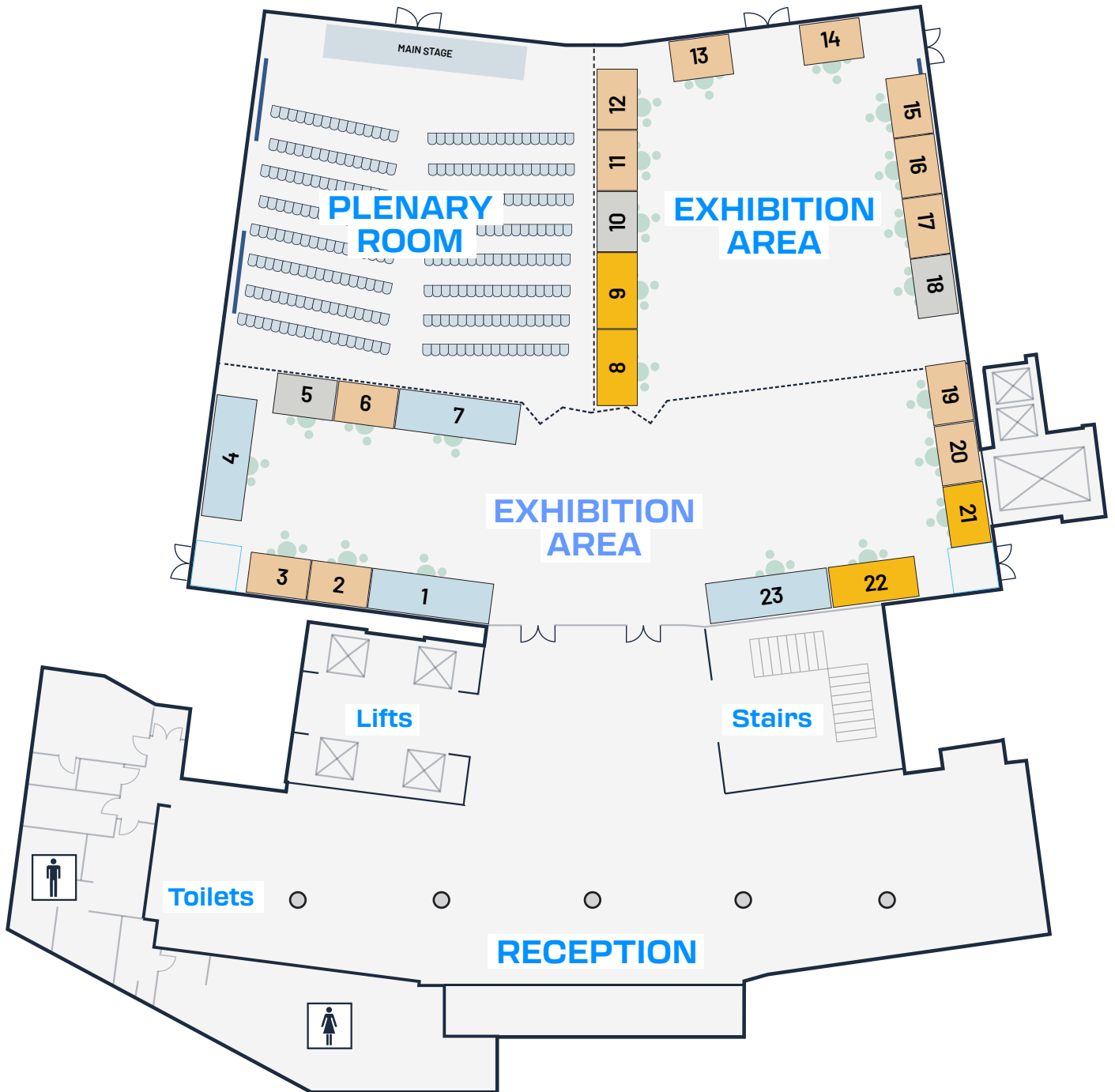
VENUE FLOOR PLAN

WESTMINSTER LEVEL -3

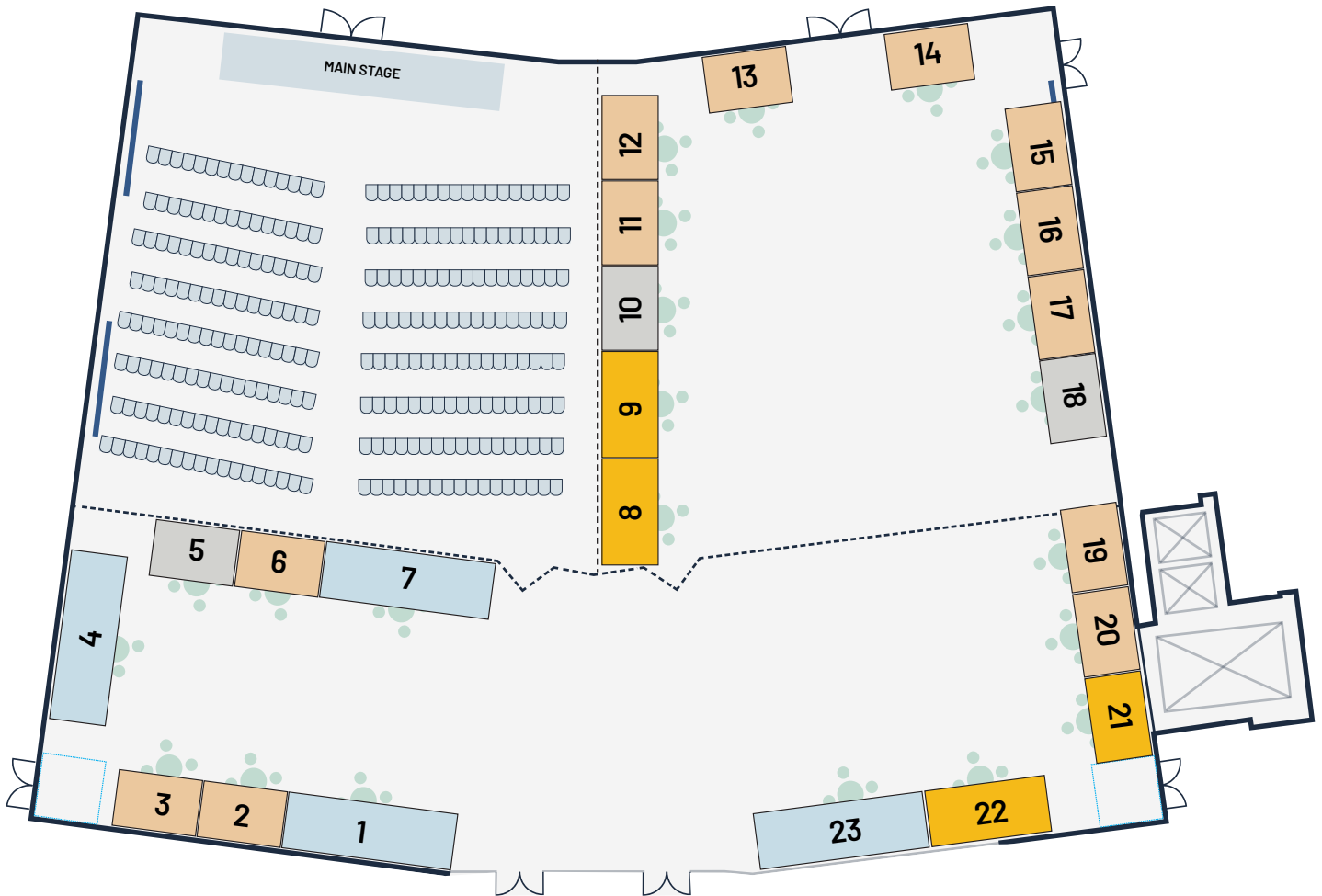


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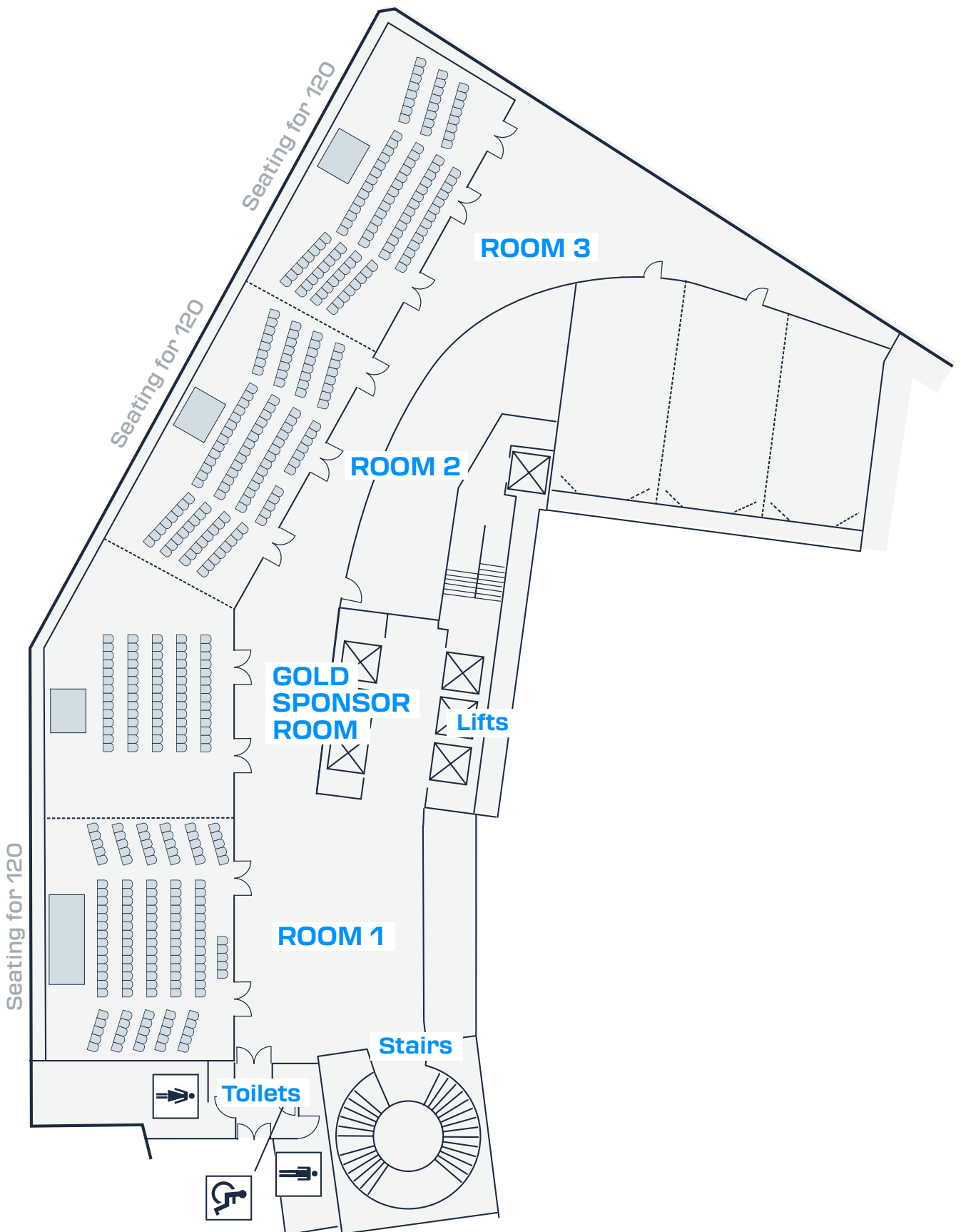




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PLAZA LEVEL -1



GENERAL INFORMATION

Conference Registration

The registration desk is located on the lower 3rd level Ballroom / Pre-function area. Refer to the plan on the previous page. Open hours are as follows:

Friday, August 23rd	10.00am - 7.30pm
Saturday, August 24th	8.00am - 5.30pm
Sunday, August 25th	8.00am - 5.30pm

Upon arrival, please ensure you collect your Congress name badge at the registration desk. The staff will be happy to assist you in any way they can.

Name Badges

Please wear your name badge at all times. It is your admission pass to conference sessions, morning and afternoon teas and lunches. If you misplace your name badge, please ask at the conference registration desk for a replacement.



Gala Dinner

Please wear your badge to the Gala Dinner. These will have a “Gala Dinner” stamp, for all those who have registered the dinner. You will also see a place card with your chose menu at your table.

Cell Phones

Please respect the presenters and fellow delegates by ensuring your mobile phone is switched off or in silent mode at all times whilst in sessions.

Catering

Catering for morning teas and lunch breaks (along with all conference sessions) will be provided in Westminster Exhibition Area (Level -3) All lunches, and the Gala Dinner on Saturday night, will be held at Westminster Ballroom (Level -3).

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Note that if you do several journeys on a bus or tube train (or any train inside the London area), at the end of the day the London transport computer will calculate if it was cheaper for you to have purchased a travel card, and will charge you the travel card rate if it's cheaper.

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For more information visit the [Transport for London website](#).

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Restaurants - It is customary to leave 10 to 15% of the bill when eating out. However, restaurants often add on a service charge (usually 12.5%), especially if you're in a large group, so it's worth checking your bill if you don't want to tip twice.

Bars and pubs - People generally do not tip in bars and pubs in London.

Hotel - If there's no service charge added to your bill in a hotel restaurant, it's customary to tip as for any other restaurant (10 to 15% of the bill).



For room cleaning staff, you can leave an amount of your choosing on departure.

Tips in the UK for other hotel staff such as concierges and door staff are discretionary and are most commonplace for porters.

Taxis - It is polite to tip 10 to 15% of the taxi fare for black cabs and licensed minicabs in London. However, most people simply round up the fare to the nearest £1 and tell the driver to "keep the change".

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Our aim is for all delegates and presenters to have an inspiring experience at PBM2024. We encourage all to help make this conference a great pleasure for hotel staff, presenters and other delegates over the next three days.



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You can manage illness, reverse oxidative stress, and boost energy with the Hue Light Whole-Body Photobiomodulation (PBM) Chamber. Our red light therapy bed works to deliver a reviving dose of infrared, red, and green light energy that research has shown offers numerous health benefits. A key product in our BAH1 Therapy protocol, this PBM light therapy bed is built for commercial or at-home use.





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SYMBYX BIOME

GOLD EXHIBITOR

info@symbyxbiome.com

www.symbyxbiome.com

SYMBYX Biome specializes in developing medical devices aimed at alleviating symptoms of Parkinson's disease and chronic pain. We are dedicated to delivering high-quality products, supported by rigorous research and robust clinical support, establishing ourselves as a globally trusted brand within the Parkinson's community.

Our product portfolio currently includes six SYMBYX devices, all of which meet the ISO13485/MDSAP certification standards. We have conducted multiple randomized controlled trials (RCTs), including the notable SYMBYX Neuro helmet trial, which was published in *The Lancet* in 2023.

Currently, we are conducting four larger-scale Parkinson's RCTs in Canada, Australia, the UK, and China.

Additionally, SYMBYX is expanding its research to explore potential treatments for other conditions, such as inflammatory bowel disease (IBD), dementia and cognitive decline, renal failure, and ADHD.





PRISM LIGHT POD

GOLD EXHIBITOR

info@prismlightpod.com

www.prismlightpod.com

Prism Light Pod is the industry's leading producer of whole-body red light therapy solutions for the natural health and wellness industry and the winner of the 2020, 2021, 2022, and 2023 LuxLife Award for Most Innovative Luxury Red Light Therapy Device Company.

Prism Light Pod has the most-powerful and energy-efficient whole-body red light therapy systems that offer natural solutions to aid in weight-loss and anti-aging, relieve chronic pain and inflammation, and accelerate the body's natural recovery process 4-10 times.

We design and manufacture all aspects of our products in house at our state-of-the-art facility in Denver, Colorado.





KERBER USA INC.

GOLD EXHIBITOR

info@SunPowerLED.com

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SunPowerLED is the Photobiomodulation product line of Kerber USA Inc., which is an American company that designs, manufactures and sells powerful red and near-infrared medical therapy lights in convenient versions. We are delighted to have helped many people around the world with pain and discomfort with our SunPowerLED™ PBM devices! We have seen people with chronic pain, inflammation, concussions, seizures, and many other issues find relief!

Our products provide red (660nm) and near-infrared (810nm & 1050nm) light energy. Our special patent-pending design allows extra optical power, for even deeper penetration of the light energy or shorter treatment times, so you can reach your wellness goals much faster!

We offer a wide variety of light therapy products to meet your professional or personal needs, from handhelds, to medium-sized panels, to large panels, and even transcranial helmets! We look forward to helping you get out of pain & improve overall wellness!





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admin@ampa.net.au

ampa.net.au

The Australian Medical Photobiomodulation Association's objectives are to promote and facilitate the advancement of laser medicine, photobiomodulation, and allied sciences in Australia.

AMPA serves as a discussion forum, a lobby group, and an educational resource for its members.

The Association is not affiliated, either directly or by proxy, with any commercial interest or operation. It exists of and for itself and its members, and not for the financial or commercial benefit of its founders.

Various levels of membership cater for the needs of anyone interested in the rapidly growing field of laser medicine and phototherapy, including students, researchers and practitioners. Commercial involvement is satisfied through corporate membership.



The logo for Neuronic, featuring the word "NEURONIC" in a blue, sans-serif font, centered within a white rectangular box with a thin grey border.

NEURONIC

NEURONIC

SILVER EXHIBITOR

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www.neuronic.online

Neuronic is a pioneering neuro-tech company that focuses on improving cognitive function. From high performance and wellness to specific conditions, we promote brain health through the application of light therapy.

Neuronic is a thought leader in the light therapy industry and invests 100% of profits to advance the science and product development of light therapy. Its wellness device has helped thousands of people around the globe struggling with their brain health. Neuronic is working on obtaining a medical device license for Alzheimer's and has the goal to make light therapy more accessible to the public.





INSIGHTS PRISM LTD

SILVER EXHIBITOR

info@insightsprism.com

www.insightsprism.com

Inspired by light cell interaction we take great steps to improve people's health. Focusing on photobiomodulation, we have produced innovative and integrated laser therapy equipment for brain disorders, wound healing, and pelvic floor disease.

Photino Brain is a fantastic and portable transcranial Low-Level Laser Therapy (tPBM) instrument enjoying 8-12 infrared laser probes, 10-20 cap, and several settings to improve a wide range of psychiatric and neurological diseases. We have also designed rectal and vaginal laser probes using Red and Blue laser diodes to treat various pelvic floor disorders.

Additionally, InsightsPrism is expanding other laser therapeutic solutions classifying by Cluster probes, laser Pen Acupuncture, sublingual, and intranasal probes to provide pain-free and effective products using the PBM modality.

We are proud that the daily lives of hundreds of people have been improved using our equipment.





SUMMUS MEDICAL LASER

SILVER EXHIBITOR

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www.summuslaser.com

Summus Medical Laser is a renowned leader in the laser therapy industry, providing laser products to over 51 countries that has resulted in millions of treatments performed world-wide.

With a strong commitment to continued innovation, reliable stateside customer service, and growing brand awareness, Summus Medical Laser is devoted to empowering healthcare professionals to provide optimal patient care through the use of advanced laser therapy.





LUMITHERA, INC.

SILVER EXHIBITOR

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www.lumithera.com

LumiThera, Inc. is harnessing the power of light to develop and commercialize light-based innovations that accurately diagnose, monitor, and treat blinding diseases of the eye (degenerative eye disease).

LumiThera's flagship product, the Valeda[®] Light Delivery System, uses multiwavelength photobiomodulation (PBM) to treat dry age-related macular degeneration (AMD). Doctors utilizing Valeda in their clinics have delivered over 500,000 treatments to dry AMD patients in the UK, Europe, and Latin America. Valeda is CE Marked in the EU and is available in select countries in Latin America. Valeda is not cleared by the Food & Drug Administration (FDA).

For more information on the Valeda[®] Light Delivery System, visit www.lumithera.com.





NIRAXX, INC.

SILVER EXHIBITOR

Care@niraxx.com

www.niraxx.com

Niraxx is a company that specializes in on-demand photobiomodulation (PBM) brain stimulation technology. The company aims to build the world's largest PBM digital platform where providers can meet and treat patients virtually.

The co-founder, Dr. Paolo Cassano, is a pioneer in PBM technology and has led multiple translational studies focused on treating mood and anxiety disorders with near-infrared light.





ASALASER

BRONZE EXHIBITOR

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www.asalaser.com

Since 1983, ASA is a leading manufacturer of laser and magnetotherapy devices for medical and rehabilitation purposes in both human and veterinary medicine. Combining scientific research and technological innovation, ASA develops effective systems for the non-invasive treatment of painful musculoskeletal conditions, such as MLS[®] Laser Therapy, Hilterapia[®] and Magnetotherapy Qs.

ASA Therapeutic Solutions are based on solid scientific evidence. In fact, ASA sustains its research center, ASAcampus, a Joint Laboratory with the Department of Experimental and Clinical Biomedical Sciences of the University of Florence (Italy) to study the “Biology of Physical Stress” on the body and its mechanisms of action.

Thanks to this scientific approach, ASA has gathered more than 200 publications carried out using ASA devices, daily proving the scientific and clinical effectiveness of such technologies and contributing to the continuous update of all protocols in compliance with EU MDR.





POWERMEDIC

BRONZE EXHIBITOR

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PowerMedic is a renowned leader in the manufacturing of laser therapy equipment that helps individuals achieve a better quality of life.

PowerMedic's flagship products include the GigaLaser™, one of the world's largest area lasers, providing a user-friendly, effortless, and unattended therapy treatment over a large area of virtually any part of the body. In addition, the PowerLaser™ is one of the most powerful, compact and battery-operated lasers in the world, designed to be highly effective in accelerating the natural healing process. Our target group is centered around healthcare professionals like chiropractors, physical therapists, acupuncturists, and many others.

Laser therapy, also known as PhotoBioModulation/ PBM, is a natural, non-invasive modality that provides a wide range of benefits, including pain relief, reduced inflammation and swelling, increased blood circulation, enhanced immune system, and much more.





ENOVIS

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ukmarketing@enovis.com

enovis-medtech.eu

We believe in Powering Motion™ - The company's philosophy "to get and keep people moving" - is based on the idea that activity is the key to living a healthier lifestyle, better treatment outcomes, and improved healthcare economics for all.

We do this by delivering a complete Orthopedic Continuum of Care from performance and mobility to surgical intervention and post-operative rehabilitation.





ONCOLOGY IMAGING SYSTEMS LTD

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team@oncologyimaging.com

www.oncologyimaging.com

OIS is a trusted partner and provider of medical devices, specialising in innovative products and solutions for diagnostic imaging, radiotherapy treatment, and medical physics applications. We are the supplier of the CareMin650, an unrivalled medical device for severe cancer treatment complications. The CareMin650 provides exact, painless, and cost effective treatment with easy to use red-LED photobiomodulation.

For further information or a demonstration our friendly team is looking forward to seeing you at the PBM 2024!





MECTRONIC MEDICALE SRL

BRONZE EXHIBITOR

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With 40 years of experience and more than 10.000 customers, Mectronic Medicale is one of the leading European manufacturers of medical laser therapy systems and it is the partner of numerous important sports teams, universities and research centers.

Mectronic Medicale experience is build upon technological innovations, but it is also enriched in the daily relationship with doctors and researchers, in order to guarantee cutting-edge solutions for patients health.





OPTIKOP - MEDLASER FAMILY

BRONZE EXHIBITOR

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29 years of experience in photobiomodulation. MedLaser Family Ltd., the developer, manufacturer and distributor of OPTIKOP soft laser devices, considers it outstandingly important to provide its customers with the special knowledge necessary for successful treatment, in addition to the laser devices themselves.

We offer accredited and certified training courses conducted by excellent medical specialists with many years' experience in soft laser therapy.

The lasers of MedLaser Family have been in daily use since 1989 in dentistry, rheumatology, physiotherapy and rehabilitation, dermatology, general medicine, Otorhinolaryngology, paediatrics, urology, veterinary medicine, for solving certain neurological problems, and also in the beauty industry (cosmetology).

Med Laser Family Ltd. is manufacturing white-label products for Swiss and Japanese companies.





ORAL IQ LLC

BRONZE EXHIBITOR

hello@theoq.shop

www.theoq.shop

Smart products for your oral health and beyond.

In the spring of 2020, as the world was becoming all-too-acquainted with Covid-19 and the stay-at-home quarantine it necessitated, access to essential oral healthcare was scarce. A group of Los Angeles dentists and medical professionals came together to form Oral IQ™ (or OQ for short) to bring safe and effective at-home oral care solutions to market, helping people maintain their oral health from the convenience of home.

In the following months, OQ debuted several effective and easy-to-use products like OQpik™, a sonic wave tooth cleaner, and PBM Light™, an advanced Red and Infrared Heat Therapy device for pain relief.

Oral IQ is committed to the bringing innovative, effective and easy-to-use products to market while helping to make heat therapy both accessible and affordable to the general public.





DANETRE HEALTH PRODUCTS

BRONZE EXHIBITOR

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Photizo Light Therapy is a range of ultra-modern highly effective and affordable LED photobiomodulation devices, pre-programmed with a simple-to-apply evidence-based dose using pulsed and continuous light to help facilitate and accelerate natural healing of many acute and chronic conditions and for long term pain management.

Recommended and used by health professionals worldwide, the Photizo concept overcomes the challenges of less frequent professional laser photobiomodulation to ensure daily/frequent dose application can continue by a practitioner and/or patient/client/carer in a home environment.

Practitioners interested in offering and recommending this pioneering simple home-use PBM device will be fully supported by our specialised Photizo UK Team to maximise the benefits for their practice, patients & clients.

We look forward to speaking with the PBM2024 delegates.





DR SMILE

BRONZE EXHIBITOR

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doctor-smile.com

Antalgic therapy and biostimulation are now possible with your diode laser with the FLAT TOP handpiece. The FLAT TOP handpiece was created by Doctor Smile thanks to the collaboration with Prof. Alberico Benedicenti, author of the comprehensive Atlas of Laser Therapy, describes many therapeutic uses of the laser. The handpiece guarantees a constant and optimal amount of energy absorption over a 1 cm² area for an easy application of the clinical protocols.

The handpiece can be held at a variable distance from the treated surface (up to 1 m the energy does not vary) without varying the energy output but must not be held in direct contact with the skin.

Headaches, herpes, sinusitis, arthritis, arthrosis, trigeminal neuralgia, TMJ disorder, tennis elbow, and many other painful conditions can be treated effectively with different cycles of applications in specific areas.





QUASARDAM

BRONZE EXHIBITOR

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Quasardam srl is a New-Co based in Milan (Italy). Its purpose is the research, acquisition and development of patents in the ophthalmic and medical fields in general, to obtain products and medical devices in the field of Photobiomodulation with a view to their commercialisation. Currently, it is developing a platform of wearable devices capable of intervening on various pathologies, including those not related to ophthalmology.

The first patented medical device is based on the emission of photons with specific wavelengths for the treatment of Age-Related Macular Degeneration (AMD). with an emission peak exclusively in the visible spectrum, in particular red light, with a broad band and extremely low energy, so as to trigger favourable biological processes (reduction of oxidative stress) and at the same time avoid harmful effects (glare, increased temperature in the biological target and potential damage to DNA). It is designed for home self-medication as it can be worn like glasses.





OMEGA LASER SYSTEMS

BRONZE EXHIBITOR

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Omega Laser Systems is the longest established UK low level laser manufacturer and was involved in much of the founding research work in the field. Omega's equipment has been used by health care professionals across the world for more than 25 years.

Guided by the same senior management team since 1993, Omega has consistently promoted a people-focused approach, seeking to deliver excellent customer service whether pre or post purchase. We believe it's key to ensure that a laser system fits the clinician's needs and that they can employ it effectively, so we advise on appropriate tailored systems, train one-to-one with each direct purchase and support new customers as they build confidence in using the equipment.

We also encourage customer feedback and ongoing dialogue, whether on equipment, service or treatment protocols, with many long-established customer relationships as a result.





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