

WALT 2008

PROVISIONAL PROGRAMME

Sunday 19 October 2008

	ARRIVAL/BOOKING IN ACCOMMODATION
13:00 – 16:00	REGISTRATION
16:00 – 17:30	OPENING CEREMONY
18:30 for 19:00	EVENING WELCOMING FUNCTION (Valley of the Waves)

**Monday
20 October 2008**

08:00 – 08:30	REGISTRATION		
08:30 – 09:10	SESSION B PLENARY LECTURE A L B PINHEIRO <i>Chair: H Abrahamse</i> <i>Co-Chair: A Brugnera Jr</i>		
	SESSION B1 Basic Science & Mechanisms of Phototherapy <i>Chair: J Rigau</i> <i>Co-Chair: N Houreld</i>	SESSION B2 Dentistry <i>Chair: G Ross</i> <i>Co-Chair: L Almeida Lopes</i>	SESSION B3 Wound Healing <i>Chair: C Enwemeka</i> <i>Co-Chair:</i>
09:15 – 09:30	D H Hawkins Evans	A Brugnera Jr	F Al-Watban
09:35 – 09:50	A Mäkelä	E M D Nicola	J Matthews
09:55 – 10:10	M D M Costa-Lino	R Darbar	R F Z Lizarelli
10:15 – 10:30	J R Tafur	T C C Ladalardo	T H E Czech
10:35 – 11:05	MORNING TEA - POSTER VIEWING		
	SESSION B4 Basic Science & Mechanisms of Phototherapy <i>Chair: J Anders</i> <i>Co-Chair: D Hawkins</i>	SESSION B5 Dentistry <i>Chair: A L B Pinheiro</i> <i>Co-Chair: E M D Nicola</i>	SESSION B6 Wound Healing <i>Chair: F Al-Watban</i> <i>Co-Chair: E Hill</i>
11:05 – 11:20	N N Houreld	G Ross	C Enwemeka
11:25 – 11:40	R M Smith	A Darbar	B L Andres
11:45 – 12:00	D T Meneguzzo	L Almeida Lopes	J Vandeputte
12:05 – 12:20	G Keiser	F Zanin	N Kazemi-Kho
12:25 – 12:40	J de Villiers		
12:45 – 14:00	LUNCH		
	SESSION B7 Basic Science & Mechanisms of Phototherapy <i>Chair: R Smith</i> <i>Co-Chair: N Houreld</i>	SESSION B8 Dentistry <i>Chair: A Brugnera Jr</i> <i>Co-Chair: K Moore</i>	SESSION B9 Wound Healing <i>Chair: J Vandeputte</i> <i>Co-Chair: A Mäkelä</i>
14:00 – 14:15	L Wilden	A Aragues	S Saghafi
14:20 – 14:35	P Sekhajane	A S Garcez	A Al-Anazi
14:40 – 14:55	J Carroll	A Manos	E Hill
15:00 – 15:15	A Mbene	A P Valença Neto	D Sharifi
15:20 – 15:35			C Enwemeka
15:40 – 16:10	AFTERNOON TEA - POSTER VIEWING		
16:15 – 16:45	POSTER SESSION (Baobab room)		
16:45 – 18:00	WALT Annual General Meeting (Tlou room)		
18:00 – 20:00	Wine tasting sponsored by Vinoteque Wine Bank, Distell (optional activity) (Baobab room)		
	FREE EVENING		

**Tuesday
21 October 2008**

08:00 – 08:30	REGISTRATION		
08:15 – 08:55	SESSION C PLENARY LECTURE S ROCHKIND <i>Chair: J Bjordal</i> <i>Co-Chair: J Anders</i>		
	SESSION C1 Photodynamic Therapy <i>Chair: H Abrahamse</i> <i>Co-Chair: C Enwemeka</i>	SESSION C2 Tissue Engineering, Stem Cells and Micro-Manipulation Tools <i>Chair: R Sroka</i> <i>Co-Chair: R Sparrow</i>	SESSION C3 Light-Tissue Interaction & Tissue Optical Properties <i>Chair: E-L Laakso</i> <i>Co-Chair: M Dyson</i>
09:00 – 09:15	T Nyokong	I Tolic-Norrelykke	A W Parker
09:20 – 09:35	E Filonenko	J J Anders	E M Sales
09:40 – 09:55	S Kuzmin	M S El-Tokhy	J Joensen
10:00 – 10:15	S Manoto	S Potgieter	A C Magalhães
10:20 – 10:35		B Mvula	
10:40 – 11:15	MORNING TEA - POSTER VIEWING		
	SESSION C4 Photodynamic Therapy <i>Chair: T Nyokong</i> <i>Co-Chair: D Hawkins Evans</i>	SESSION C5 Basic Science & Mechanisms of Phototherapy <i>Chair: R Steiner</i> <i>Co-Chair: U Oron</i>	SESSION C6 Light-Tissue Interaction & Tissue Optical Properties <i>Chair: A W Parker</i> <i>Co-Chair:</i>
11:15 – 11:30	H Abrahamse	L Ailioaie	R C Fiorotti
11:35 – 11:50	X Y Zhang	F Soriano	M I Corral-Baqués
11:55 – 12:10	R Yakubovskaya	R F Z Lizarelli	M Rogers
12:15 – 12:30	E-L Laakso	K Moore	
12:35 – 12:50	C Robertson	L Wilden	
13:00 – 14:00	LUNCH		
	SESSION C7 Dermatology, Immunology & Urology <i>Chair: A Mäkelä</i> <i>Co-Chair: M Copeland</i>	SESSION C8 Molecular Imaging & Optical Coherence Tomography <i>Chair: G Keiser</i> <i>Co-Chair: A W Parker</i>	SESSION C9 Pain Management <i>Chair: P O Fryda</i> <i>Co-Chair:</i>
14:05 – 14:20	B Krishna Rau	R Sroka	R Chow
14:25 – 14:40	J Rigau	S C Nunez	P Bradley
14:45 – 15:00	K A Samoilova	R Sparrow	G Ross
15:05 – 15:20	M Dyson	S A Rahimi	E-L Laakso
15:25 – 16:00	AFTERNOON TEA		
16:00 – 16:15	Y-H Hou		L Ailioaie
16:20 – 16:35	F Yourdkhani		L Nikcevic
16:40 – 16:55	D T Meneguzzo		D A Chiran
18:30 for 19:00	GALA DINNER (Baobab room)		

**Wednesday
22 October 2008**

08:00 – 08:30	REGISTRATION		
08:15 – 08:55	SESSION D PLENARY LECTURE R STEINER <i>Chair: C Enwemeka Co-Chair: S Rochkind</i>		
	SESSION D1 Physiotherapy, Rheumatology & Laser Accupuncture <i>Chair: M Dyson Co-Chair: R Chow</i>	SESSION D2 Cardiology & Internal Medicine <i>Chair: S Rochkind Co-Chair: J J Anders</i>	SESSION D3 Laser Safety, Dosimetry, Standards, Education & Management <i>Chair: I Tolic-Norrelykke Co-Chair: H Aboud</i>
09:00 – 09:15	J M Bjordal	U Oron	J H Nicola
09:20 – 09:35	E C Pinto Leal Jr	N Kazemi-kho	P O Fryda
09:40 – 09:55	R L Marcos	L Gasparyan	A L O Ramos
10:00 – 10:15	D A Ramagole	T Mathope	A E Karsten
10:20 – 10:50	MORNING TEA		
	SESSION D4 Physiotherapy, Rheumatology & Laser Accupuncture <i>Chair: JM Bjordal Co-Chair: B Krishna Rau</i>	SESSION D5 Cardiology, Internal Medicine & Neurology <i>Chair: U Oron Co-Chair: L Gasparyan</i>	SESSION D6 Plastic Surgery, Otolaryngology & Orthopedics <i>Chair: K A Samoilova Co-Chair: A Pinheiro</i>
10:55 – 11:10	R Lopes-Martins	L Hode	M Copeland
11:15 – 11:30	F Xu	A Bohbot	G Majlesi
11:35 – 11:50	L J Konstantinovic	T Nikou Khorsand	H Aboud
11:55 – 12:10	L Ramos	Z Vatankhah	I Ingenegeren
12:15 – 12:30	R Lopes-Martins	I L Zungu	
12:35 – 12:50	F Soriano	S Mokmeli	
13:00 – 14:00	CLOSING OF CONFERENCE LUNCH		

WALT 2008

Oral papers

Basic Science and Mechanisms of Phototherapy

The History of WALT and its Contribution to the Science and Clinical Practice of Photomedicine	K Moore
Optical Fibers for Laser Medicine: A Review	G Keiser
Effect of Laser Irradiation on Mitochondrial Responses on Stressed Keratinocytes	D Hawkins Evans, H Abrahamse
Effect of Laser Irradiation on Diabetic Wounded Fibroblast Cells In Vitro	N Houreld, H Abrahamse
Signalling Networks And Laser Therapy – Which Ones are Important?	G van Niekerk, A Karsten, R M Smith
Laser therapy Applications on Microcrystalline Arthropathies. Laboratory and Clinical Results at the End of 10 Years of Experience	F Soriano, V Campana
In Vitro Laser Irradiation of Leukemic Blood Prevents the Effect of Prednisolone on Platelet Function	G E Brill, T V Shelekhova, I A Budnik, T N Zhevak, S E Loginovskaya, K V Agadzhanova, A M Mäkelä, L V Gasparyan
DNA Damage and Effects of Phototherapy on Methypurine DNA Glycosylase Activation Related to DNA Repair in Wounded Fibroblast Cells	A B Mbene, N N Houreld, H Abrahamse
The Effect of Laser Irradiation on Adipose Derived Stem Cells in the Expression of B-Integrin and THY-1	J A de Villiers, N N Houreld, H Abrahamse
Effect of Low-Level Laser Irradiation on Odontoblast-like Cells	C F Oliveira, J Hebling, P P C Souza, N T Sacono, F R Lessa, R F Z Lizarelli, C A S Costa
Comparative Study of the Effects of the Use of the CO ₂ Laser and Chlorhexidine on the Healing of Cutaneous Wounds Infected by Staphylococcus aureus	A L B Pinheiro, M A M de Oliveira, A C A Moreira, M D M Costa-Lino, L M P Ramalho
New Introspections into Laser Interactions with Living Cells	L Ailioaie, M Sanduloviciu, D A Chiran, C Ailioaie
Effect of Low Level Laser Irradiation on Pro-Inflammatory Cytokine Expression In Fibroblasts Exposed to Various Insults	P Sekhejane, N N Houreld, H Abrahamse
Low-intensity Light Therapy: Exploring the Role of Redox Mechanisms	J R Tafur
Near Infrared Laser Therapy (810nm) on Lymph Nodes: Effects on Acute Inflammatory Process	D T Meneguzzo, R Pallotta, L Ramos, S Penna, R L Marcos, S Teixeira, M N Muscará, J M Bjordal, R A B Lopes-Martins, M S Ribeiro
The Absorption Behaviour of Oxygen and the Mitochondrial Energy Transfer – The Importance of Electromagnetic Radiation (Light)	L Wilden
Sperm Motility Enhancement with Low Level Laser and LED Photobiomodulation. A dose response study.	P Gabel, K Harrison, D Sherrin, J Carroll
The Different Response of the Main Symptoms of Inner Ear Exhaustion to a Specific High Dosage Low Level Laser Therapy	L Wilden

Cardiology, Internal Medicine and Neurology

Low-energy Laser Irradiation of Stem Cells for Cardiac Repair Following Myocardial Infarction	H Tuby, L Maltz, U Oron
Laser Blood Irradiation with Green Laser of Patients with Atherosclerosis (Results of Pilot Study)	M A Kaplan, I L Harchenko, L M Ershova, N I Sokol, A M Mäkelä, L V Gasparyan
Laser Phototherapy in the Treatment of Cancer	L Hode
Application of Low-level laser Therapy after Coronary Artery	N Kazemi-kho, K Babazadeh, M Lajevardi, Y

Bypass Grafting (CABG) Surgery	Jahangiri Noudeh
The Effect of Low Level Laser Irradiation of Adipose Derived Stem Cells and their Differentiation into Smooth Muscle Cells	T Mathope, H Abrahamse
Comparison between the Effect of Low Level Laser Therapy and Injection of Botox in Treatment of Anal Fissure (Clinical Trial, Case Control)	T Nikou Khorsand, S Mokmeli, L Daneshvar, N Soror, H Hosseini
Preliminary Study on the Muscle Activity Below the Injury in Complete Paraplegia and Quadriplegia Treated by Laserpuncture® and Monitored by Electromyoscan	A Bohbot
Intestinal Hypersensitivity to Low Level Laser Therapy (LLLT) (Case Report)	Z Vatankhah, S Mokmeli, B Ghahgharaie Zamani
Intravascular Laser therapy (IVL) in pre-hypertension and hypertension conditions	S Mokmeli, Sh Bishe, Kh Kahe, M Shakhes
Mitochondrial Responses of Normal and Injured Human Skin Fibroblasts Following Low Level Laser Irradiation	I L Zungu , D H Hawkins Evans , H Abrahamse

Dentistry

Recent Advances on the Use of Laser Photobiomodulation on Bone	A L B Pinheiro
Phototherapy In Dentistry: Clinical Applications and Case Studies	G Ross
LLLT in Dentistry - Scientific Background and Clinical Case Presentation	A Brugnera Jr, F Zanin, A P Brugnera
Native Fluorescence of Oral Cavity: Early Diagnosis and Treatment	Ester Maria Danielli Nicola
Photodynamic Therapy Associated with Conventional Endodontic Treatment in Patients with Antibiotic Resistant Microflora	A S Garcez, S C Nunez, M S Ribeiro
Diode Laser 660nm in the Prevention and Treatment of Oral Mucositis	T Zanin, F Zanin, A Carvalhosa, P H Castro, M Pacheco, A Brugnera Jr
Evidence Based Laser Periodontics	A Aragüés
Pain Investigations for Dental Procedures using Conventional and Laser Modalities	P Chueh, R Darbar, D Dunn-Rankin, I Rizoio
Lasers and the Dentist	A Darbar
Comparison of The Temperature Changes in Subperiosteal Bone and the Risk for Bone Damage during Frenectomies with Electrotom and Er:YAG Laser	N Parissis, A Manos
Effects of Continuous and Pulsed Infrared Laser Application on Bone Repair Using Different Energy Doses. Study in Rats	L Almeida-Lopes, H Pretel, V Moraes, P Jurgens, L Ramalho, R Sader
Evaluation of the Mineralization Degree of the Vestibular Surface of Upper Central Incisors with a 655 Nm Diode Laser in Mouth Breathers	T C C G P Ladalardo, R A de Azevedo, F Zanin, A Brugnera Jr, S Pignatari, L L M Weckx
Benefits of the Use of the CO ₂ Laser in Orthodontics	S K C Gama, T M de Araújo, A P Valença Neto, A L B Pinheiro
Laser Therapy and Detection of Interleukin-6 in Oral Mucositis in Hematopoietic Stem Cell Transplantation	T C C G P Ladalardo, A de Moraes Arantes, B Tirapelli, M Bunialti, R Salomão, J S R Oliveira, L L M Weckx

Dermatology, Immunology & Urology

How the Effects of Phototherapy on the Neuroendocrine Immune System Modulate Wound Healing	M Dyson
Role of LLLT in Peyronie Syndrome Treatment	J Rigau
Light and Immunity	K A Samoilova, N A Zhevago
Laser Application in Tracheo Bronchial Tumors	B Krishna Rau

Treatment of an Extensive Infantile Hemangioma with a Combination of Nd-YAG Laser and Intense Pulsed Light (IPL) System	F Yourdkhani
Effects of Low Level Laser Therapy on Acute Infectious Process Pseudomonas Aeruginosa-Induced in Mice	A J da Silva Santos, D T Meneguzzo, R A Prates, M S Ribeiro
Effective Therapy of Low Level Laser in 810 nm Wavelength on Severe Acne	Y H Hou, Y-Q Hou, F Xu

Laser Safety, Dosimetry, Standards, Education and Management

Laser in Medicine: High-tech Requiring High Quality	P O Fryda
Improving Low Intensity Laser Therapy with Monte Carlo Simulation	A L O Ramos, A C Magalhães, R Y Sohara, M C Chavantes, E M Yoshimura
Effect of Different Skin Types on the Required Dose for Photodynamic Therapy	A E Karsten, J S Dam
Metrology In Laser Therapy	J H Nicola, G Borghi, H P H Grieneisen, I B Couceiro, E M D Nicola

Light-Tissue Interaction and Tissue Optical Properties

Monitoring Real-Time Cellular Uptake of Serotonin using Multi-Photon Fluorescence Lifetime Imaging	A W. Parker, Stanley W. Botchway, Roger H. Bisby, Ana G. Crisostomo
Light Dosimetry in Collagen Phantoms in the Presence of Melanin and Methylene Blue	E M Sales, N A Daghestanli, M S Baptista, R Itri
The Effect of Low Level Laser Irradiation on Dog Sperm Motility Is Dependent on Power Laser Application	M I Corral-Baqués, M M Rivera, T Rigau, J Erodriíguez-Gil, J Rigau
Native Fluorescence Spectroscopy of Oral Normal Mucosa: Preliminary Study in Humans	R C Fiorotti, E Nicola
Thermal Effects from Low Level Laser Therapy (LLLT) on the Human Skin	J Joensen, J H Demmink, J M Bjordal
LILT in Cardiopulmonary Bypass Surgery - How to Determinate the Optical Properties and Light Distribution in Blood?	A C Magalhães, A L O Ramos, M C Chavantes, E M Yoshimura
Solarlight is Life on Earth	M Rogers

Molecular Imaging and Optical Coherence Tomography

Non-Linear Microscopy and its Applications for the Study of the Structure and Dynamics of Biological Systems	R W Sparrow , N Prent, R Cisek, C Greenhalgh, N Rohitlall, M-S Milkereit, C Green, V Barzda
Experiences and the Use of OCT in Urology	R Sroka, M Puels, K Weick , M Bader, U Mueller-Lisse, P Weidlich, H Stepp
Effectiveness of Thermoluminescent Crystals for Diagnostic Radiology Dose at 70 to 120 kvp	S A Rahimi
Optical Coherence Tomography (OCT) Evaluating Low Intensity Laser Effects on Wound Healing	S C Núñez, A Z de Freitas, A S Garcez, D Meneguzzo, M P Raele, N D Vieira Jr, M S Ribeiro

Nanoparticle and Chromophore Assisted Cell Surgery

From Online Diagnosis To Therapy	R Steiner
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Neuroscience

Laser Phototherapy: A New Modality for Nerve Cell Tissue Engineering Technology, Cell Therapy and Nerve Repair	S Rochkind
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Pain Management

The Prospect for Interstitial Use of Low and High Intensity Lasers Rather Than Conventional Surface Application	P Bradley
Dose Thresholds and Effect Mechanisms for Pain Management with Laser	E-L Laakso
A Systematic Review of the Literature of the Effects of Laser Irradiation on Peripheral Mammalian Nerves: Relevance to the Pain Relieving Effects of Low-Level Laser Therapy	R Chow , L Laakso , P J Armati, G D Baxter
The Effect of Low Level Laser Therapy (LLLT) by the Patients with Acute Low Back Pain after Acute Ischemic Stroke	L Nikcevic, M Savic, N Zaric, A Plavsic
Intravenous Laser Blood Irradiation in the Management of Juvenile Idiopathic Arthritis	C Ailioaie, L Ailioaie, D A Chiran
Intravenous Laser Blood Irradiation in Progressive Muscular Dystrophy in Children	D A Chiran, L Ailioaie, C Ailioaie
The Importance of the Doctor-Patient Relationship in Pain Management	G Ross

Photodynamic Therapy

Combination Therapy of Cancer Using Laser Light, Red Light Absorbing Dyes and Nanoparticles	T Nyokong, M Idowu, S Moeno, Jiong Ma, J Y Chen
Cancer Cell Death Induction Mechanisms by Second Generation Photosensitizers	H Abrahamse
The In Vitro Effects of LASER Irradiation on Human Breast Carcinoma and Immortalised Human Mammary Epithelial Cell Lines	K Powell, L Laakso, P Low, S Ralph
Intravitreal Bevacizumab (Avastin) in Combination with Photosens Photodynamic Therapy for Choroidal Neovascularization.	S Avetisov, M Budzinskaya, G Stolyarenko, I Schegoleva, I Gurova, E Kazarian, S Kuzmin, G Vorozhtsov
Pharmacokinetics of 5-Aminolaevulinic Acid Induced Protoporphyrin IX in Patients with Basal Cell Cancer	E Filonenko, T Karmakova, A Feofanov, V Sokolov, R Yakubovskaya, Y Andreeva, G Frank, E Lukyanets, G Vorozhtsov
The Changes of Tumour Volume and Weight after PDT: An Animal Study	X Y Zhang, F A H Al-Watban, B L Andres
The Efficacy of Photodynamic Therapy on Human Metastatic Melanoma Cells	C A Robertson, D Hawkins Evans, H Abrahamse
Examination of Novel Diode Irradiation Sources for Experimental Photodynamic Therapy	R Yakubovskaya, A Pankratov, N Morozova, N Kazachkina, V Mizin, G Pleshkov, V Chissov, G Vorozhtsov
Effect of Photodynamic Therapy on a Lung Cancer Cell Line (A549)	S L Manoto, H Abrahamse

Physiotherapy, Rheumatology and Laser Acupuncture

Low Level Laser Therapy in Inflammatory Disorders: Effects and Possible Mechanisms of Action	R Lopes-Martins
Low Level Laser Therapy in Lateral Elbow Tendinopathy. A Systematic Review and Meta-analysis with Procedural Assessments	J M Bjordal, J Joensen, M I Johnson, R A B Lopes-Martins, E Ljunggren
Analgesic Effect of Acupuncture Combined with Low-power Laser Acupointing on Arthroalgia and Neuroalgia of Elderly Patients	F Xu, Y-H Hou
Low Level Infra-Red Laser Therapy (810 nm) in Experimental	L Ramos, S Penna, RL Marcos, R Pallota, S

Skeletal Muscle Strain: Functional and Biochemical Evaluation	Teixeira, MN Muscará, R Dos Santos, MHC de Carvalho, L Frigo, VV Iversen, JM Bjordal, RAB Lopes-Martins
Clinical Effects of Low Level Laser Therapy in Treatment of Subacute Low Back Pain in Relation with Applied Dose	L Konstantinovic, D Bascarevic, Z Kanjuh
The Effect of Low Level Laser Therapy (810 nm) in Carrageenan-induced Knee Osteoarthritis in Rats	R C Pallota, J M Bjordal, L Ramos, S Penna, R L Marcos, S Teixeira, M N. Muscará, R Dos Santos, M H Catelli de Carvalho, L Frigo, J Joensen, V V. Iversen, R A B. Lopes-Martins
Effect of 655 Nm Low Level Laser Therapy (LLLT) in Exercise-Induced Skeletal Muscle Fatigue in Humans	E C Pinto Leal Junior, R A B Lopes-Martins, F Dalan, M Ferrari, F M Sbabo, R A Generosi, B M Baroni, V V Iversen, J M Bjordal
Effects of Low-level light Therapy in Treatment of Overuse Sports Injuries in Professional Athletes – Descriptive Pilot Study	D A Ramagole
The Effect of Low Level Laser Therapy (infra-red, 810 nm) on Collagenase-induced Rat Achilles Tendinitis: COX-1 and COX-2 Expression and Prostaglandin E2 Production	R L Marcos, J M Bjordal, R C Pallota, L Ramos, S Penna, S Teixeira, M N. Muscará, R A DosSantos, M H Catelli de Carvalho, L Frigo, J Joensen, V V. Iversen, R A B. Lopes-Martins
Lasertherapy Applied in an Experimental Model of Myopathy	N Servetto, D Cremonuzzi, J Simes, F Soriano, M Moya, V Campana
Comparative Study of Laser and LED Systems of Low Intensity Applied to Tendon Healing	J L N Bastos, N A Parizotto, C D Maciel, R F Z Lizarelli

Plastic Surgery, Otolaryngology & Orthopedics

Laser Liposculpture for Body Recontouring	M Copeland
To be confirmed	H Aboud
Low Level Laser Therapy- Evaluation of In Vitro Effects on the Mouse Organ of Corti	M Perde-Schrepler, O Soritau, A Maniu, I Brie, P Virag, E Fischer-Fodor, C Tatomir, M Cosgarea
Increasing Desirability of Scars by Low Power Lasers	G Majlesi
Full Laser Implant Surgery	I Ingenegeren

Tissue Engineering, Stem Cells & Micro-Manipulation Tools

Laser Scissors and Laser Tweezers for Intracellular Manipulations	I Tolic-Norrelykke
Light Interaction with Human Central Nervous System Progenitor Cells	J J Anders and I Ilev
Microfluidics as a Tool for Micro-manipulation	S Potgieter
The Effect of Low Level Laser Irradiation on Adult Human Adipose Derived Stem Cells.	B Mvula, H Abrahamse
Performance Evaluation of Quantum Cascaded Lasers through VisSim Modeling	I I Mahamoud, M B El-Mashade, M S El-Tokhy

Wound Healing

Phototherapy: The New Ancillary Treatment Modality in Veterinary Practice	B Goede, E Hill
LED Phototherapy Promotes Tissue Repair in Chronic Diabetic and Venous Ulcers	D G Minatel, K S Caetano, M A C Frade, L A Santana, S C Franca, C S Enwemeka
Effects of NIR-LED light therapy on wound healing	J Vandeputte
The Significance of Treatment Parameters using Various Photon Sources in Normal and Diabetic Wound and Burn Healing	F A H Al-Watban, B L Andres and X Y Zhang
Effect of Blue Light Intravenous Laser on Blood Sugar in Diabetic	N Kazemi-Kho, F Dabaghian

Type 2 Patients	
Preventing Amputation Using Low Intensity Laser Therapy for the Treatment of Chronic Osteomyelitis and Non Healing Diabetic Ulcer of the Hallux : A Case Study	T H E Czech
Investigating the Variation in Optical Parameters of Low Level Lasers in Diabetic Blood Samples Compared with the Normal Samples	S Saghafi, F Kashef, S Mokmeli, H Hosseini, R Penjvieni
The Effects of Low Power Laser Therapy with Different Wavelengths in Accelerating Wound Healing on Diabetic Rats	A Al-Anazi, F A H Al-Watban, X Y Zhang and B L Andres
Low Intensity Laser Therapy Application in Wound Healing	F Kahn, J Matthews, L Lam
Comparison of 633nm Diode Laser Therapy, Regranex and Solcoseryl in Diabetic Burn Healing: Biochemical and Biomechanical Analysis of Scar	B L Andres, F A H Al-Watban, X Y Zhang and A A Al-Anazi
Histological Evaluation of the Low Level Laser Effect on Regeneration of Sciatic Nerve in Dog	D Sharifi, J Gharagouzlou, A R Hajibeglou
Blue Light Phototherapy eradicates Methicillin Resistant Staphylococcus aureus (MRSA) In Vitro	C S Enwemeka, D Williams, S Hollosi, D Yens, S K Enwemeka

Posters

Basic Science & Mechanisms of Phototherapy

Does the Use of Laser Photobiomodulation, BMPS and Guided Bone Regeneration Improve the Outcome of Autologous Bone Grafts? An In Vivo Study in Rodent Model	G T Aciole, CT S Torres, J T N Santos, J C Monteiro, P G Amorim, A L B Pinheiro
Effect of 830nm Laser Light on the Repair of Bone Defects Grafted with Bovine Decalcified Cortical Osseous Membrane	M Gerbi, G Soares, A Morais, M Macedo, E Sávio, E Ponzi, A Marques, L Portela, A Pinheiro
Effects of a Polarized Light Source (1400-2000nm) on Hep.2 And L929 Cell Lines: A Spectroscopic In Vitro Study	A L B Pinheiro, K V M de Moura, C B Lopes, S C P Sampaio, C P Soares
Influence of Laser Photobiomodulation on the Outcome of Severe Chemo-Induced Oral Epithelial Dysplasia on the Hamster Cheek Pouch Model	G T Aciole, M C T Cangussu, J N dos Santos, A L B Pinheiro
The Use of the CO ₂ Laser On Orthodontic Patients Suffering from Gingival Hyperplasia	S K C Gama, T M Araújo, A A P Valença Neto, A L B Pinheiro
Laser "Microexplosions" of Phthalocyanines Nanoparticles in Tumor	B Y Kogan, A A Pankratov, A V Butenin, R A Feyzulova, Y B Zolotavkina, R I Yakubovskaya, E A Lukyanets, O L Kaliya, G N Vorozhtsov, V M Negrimovsky
The Effect of the Association of NIR Laser Therapy Bmps and Guided Bone Regeneration on Tibial Fractures Treated with Wire Osteosynthesis: Raman Spectroscopy Study	C B Lopes, M T T Pacheco, L Silveira Jr., J Duarte, M C T Cangussu, E Barreto de Magalhães Jr, A L B Pinheiro
Assessment of Bone Repair Following the Use of Organic and Mineral Bovine Bone Graft after Laser Irradiation 830nm	M Gerbi, E Ponzi, F Limeira Jr, A Marques, A Pinheiro, L Portela, E Savio, G Soares, A Morais, L Arruda
Modulation of Indirect Neurotrauma in Adult Rabbits by Low Level Laser Stimulation in Relation with Applied Wavelength	L C I Konstantinovic
Influence of Laser Biomodulation (670nm) in the Expression of TGF-β of Collagen in Healing	F C Nascimento, A de A P Valença Neto, M Carrera, A L B Pinheiro, A P Medrado, S R de Almeida Reis
Evaluation of Cellular Proliferation in Cultures H.Ep-2 after Low Level Laser Therapy of 830nm	M Gerbi, D Borges, J Lisboa, A L B Pinheiro
A Method for Studing the Effect of Phototherapy with Low Intensity Laser on Vascular Reactivity	L Soares-Ferreira, M M Marques, M S Moreira, I T Velasco, H V Barbeiro
Assessment of Bone Repair on Femur of Rats Following the Use of Hidroxiapatite, BMPs, Bone Graft and Membrane after Laser Irradiation 830nm	M Gerbi, A Pinheiro, E Ponzi, F Limeira Jr, L Ramalho, A Marques, L Portela, E Sávio, G Soares, A Morais, V Martínez

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