

**SCIENTIFIC
PROGRAM**

WALT 
2016

**WORLD ASSOCIATION
FOR LASER THERAPY MEETING**

SÃO SEBASTIÃO
BRAZIL
NOVEMBER 6 - 9

SCIENTIFIC COMMITTEE

Maria Cristina Chavantes – *InCor*
 Ernesto Cesar P. Leal Junior – *UNINOVE*
 Jan Magnus Bjordal – *Univesity of Bergen*
 Nivaldo A. Parizotto – *UFSCar*
 Martha Simões Ribeiro – *IPEN*
 Rene-Jean Besandoun – *Centre de Haute Energie (CHE)*
 Jon Joensen – *Bergen University College*
 Praveen Arany – *President of NAALT/NIH*
 Vanderlei Salvador Bagnato – *USP/São Carlos*

LOCAL ORGANIZING COMMITTEE

Rodrigo Alvaro B. Lopes Martins – *UMC*
 Ernesto Cesar P. Leal Junior – *UNINOVE*
 Rodrigo Labat Marcos – *UNINOVE*
 Nivaldo A. Parizotto – *UFSCar*
 Martha Simões Ribeiro – *IPEN*
 Silvia Cristina Nunez – *IPEN*
 Daiane Meneguzzo – *São Leopoldo*
 Mandic Lúcio Frigo – *UNICSUL*
 Patrícia Sardinha Leonardo – *UMC*
 Gilberto De Nucci – *USP/UMC*
 Adenilson Fonseca – *UERJ*
 Caetano Sabino

CONGRESS SECRETARIAT

 Eventus Planejamento e Organização
 www.eventus.com.br
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 11– 3361 3056

Sunday, November 6th

16h00 – 18h30 – REGISTRATION

19h30 – 21h00 – Opening Ceremony and Keynote Lecture

DENTOALVEOLAR STEM CELLS AND PHOTOBIMODULATION THERAPY. ROLE IN REGENERATIVE DENTISTRY.

Márcia Martins Marques

21h00 – 24h00 – COCKTAIL

Monday, November 7th

9h00 – 10h30 • SALA 1

Chairman: Selly Sayuri Suzuki

DENTISTRY / CLINICAL MEDICINE

Main Lecture

PAIN AND INFLAMMATION

Daiane Meneguzzo

ORAL PRESENTATIONS**CO.01**

"LOW-LEVEL LASER THERAPY REVERSES OROFACIAL PAIN AND INDUCES TISSUE HEALING OF RATS SUBMITTED TO AN EXPERIMENTAL MODEL OF TEMPOROMANDIBULAR DISORDER INDUCED BY CFA"

Ferrara Jr JI¹, Dale CS¹ - ¹University of São Paulo, São Paulo/SP, Brazil - Department of Anatomy, Institute of Biomedical Science

CO.02

ANALYSIS OF MECHANISMS OF ACTION OF LIGHT-EMITTING DIODE THERAPY INDUCING ANALGESIA IN ACUTE MODELS OF OVER NOCICEPTION IN MICE.

Pigatto GR¹, Coelho IS², Santos ARS², Parizotto NA¹ - ¹Universidade de Araraquara, ²Universidade Federal de Santa Catarina

CO.03

LASERTHERAPY INHIBITS NEUROPATHIC PAIN OF DIABETIC MICE

Oliveira VRS¹, Yamashita LB¹, Toniolo EF¹, Dale CS¹ - ¹Universidade de São Paulo - Anatomia

9h00 – 10h30 • SALA 2

Chairman: Rodrigo Martins

MUSCULOSKELETAL DISORDERS / PHYSICAL ACTIVITY

Main Lecture

LASERS IN TENDINOPATHIES

Nivaldo Antonio Parizotto

ORAL PRESENTATIONS**CO.04**

LLLT ENERGY IN IN VITRO HUMAN TISSUE

Joensen J^{1,2} - ¹Bergen University College - Faculty of Health and Social Science, ²Bergen University - Dep.of Global Health and Primary Care

CO.05

PHOTOTHERAPY AND THERAPEUTIC ULTRASOUND ASSOCIATED WITH ECCENTRIC EXERCISE IN INTENSITY OF PAIN IN PATIENTS WITH ACHILLES AND PATELLAR TENDINOPATHIES: A PILOT STUDY CONTROLLED, RANDOMIZED AND BLIND.

Santos MYO¹, Ventura MCA¹, Folha RAC¹, Sardim AC¹, Martinez BR¹, Pinfildi CE¹ - ¹Federal University of São Paulo - Department of Human Movement Sciences

CO.06

EFFECTS OF PHOTOBIMODULATION THERAPY OVER ACUTE PAIN AND INFLAMMATION ON PATIENTS SUBMITTED TO TOTAL HIP ARTHROPLASTY

Langella LG¹, Monteiro KKDS¹, Miranda EF¹, Leal-Junior ECP¹ - ¹Universidade Nove de Julho, SP, Brazil

Monday, November 7th

9h00 – 10h30 • SALA 3

Chairman: Maria Cristina Chavantes

TISSUE REPAIR

Main Lecture

PHOTOBIOMODULATION THERAPY FOR THE NERVOUS SYSTEM: IRRADIANCE AND FLUENCE RELATED TO MECHANISM AND EFFECTS

Juanita Anders

ORAL PRESENTATION:

CO.07

EVALUATION OF WOUND HEALING MEMBRANES WITH STEM CELLS FOR PHOTOBIOMODULATION

Lim DJ^{1,2}, Vines JB¹, Lim B³, Jang I⁴ - ¹Department of Biomedical Engineering, University of Alabama at Birmingham, AL 35294, USA, ²R&D center, Cas In Bio, Seongnam, Gyeonggi-do, Rep. of Korea, ³Department of Pathology, Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul, Rep. of Korea, ⁴Department of Internal Medicine, Woosuk University College of Korean Medicine, Jeonju, Jeonjuk, Rep. of Korea

10h30 – 11h00 – COFFEE BREAK

11h00 – 12h30 • SALA 1

Chairman: Selly Sayuri Suzuki

OVERVIEW OF LASER THERAPY IN DENTISTRY

Main Lecture

Silvia Cristina Nuñez

ORAL PRESENTATION

CO.09

EFFECTS OF LOW-LEVEL LASER THERAPY (808 NM) IN NEUROPATHIC PAIN CONTROL

Andrade ALM¹, Bossini PS², Canto-de-Souza ALM³, Parizotto NA¹ - ¹Federal University of São Carlos - UFSCar - Physiotherapy, ²Sacred Heart University - USC - Physiotherapy, ³Federal University of São Carlos - UFSCar – Psychology

11h00 – 12h30 • SALA 2

Chairman: Rodrigo Martins

JOINT DISORDERS

Main Lecture

Jan Magnus Bjordal

ORAL PRESENTATIONS

CO.10

LOW-LEVEL LASER THERAPY ASSOCIATED WITH A RESISTIVE AQUATIC EXERCISE IN A MODEL OF KNEE OSTEOARTHRITIS.

Claudino V¹, Siqueira A¹, Domingos H¹, Assis L¹, Renno ACM¹ - ¹Universidade Federal de São Paulo - Departamento de Biociências

CO.11

SIX MONTHS FOLLOW-UP OF LOW POWER LASER THERAPY ASSOCIATED TO EXERCISES IN KNEE OSTEOARTHRITIS: A RANDOMIZED, DOUBLE-BLIND STUDY

Alfredo PP¹, Bjordal JM², Martins RABL³, Marques AP⁴, Casarotto RA⁴ - ¹Professora Pós-doutoranda da Universidade Paulista-SP, ²Universitetet i Bergen - Physiotherapy, ³Universidade de Mogi das Cruzes - Programa de Pós-Graduação em Engenharia Biomédica da Universidade de Mogi das Cruzes, ⁴Universidade de São Paulo - Fonoaudiologia, Fisioterapia e Terapia Ocupacional

CO.12

LOW LEVEL LASER THERAPY AND CRYOTHERAPY AS MONO- AND ADJUNCTIVE THERAPIES FOR ACHILLES TENDINOPATHY IN RATS

Haslerud S^{1,2}, Lopes-Martins RAB³, Frigo L⁴, Bjordal JM^{1,2}, Marcos RL⁵, Naterstad IF², Magnussen LH^{6,2}, Joensen J^{6,2} - ¹Bergen University College - Centre for Evidence Based Practice, Faculty of Health and Social Sciences, ²University of Bergen - Department of Global Public Health and Primary Care, Physiotherapy Research Group, ³University of Mogi das Cruzes - Nucleous of Technological Research - NPT, Post-Graduate Program in Biomedical Engineering, ⁴Universidade Cruzeiro do Sul - Centro de Ciências da Saúde, ⁵Universidade Nove de Julho - Programa de Pós-Graduação em Biofotônica Aplicada as Ciências da Saúde. Rua Vergueiro, ⁶Bergen University College - Department of Occupational therapy, Physiotherapy and Radiography, Health and Social Sciences

11h00 – 12h30 • SALA 3

Chairman: Maria Cristina Chavantes

LASER THERAPY AND CLINICAL MEDICINE

Main Lecture

Maria Cristina Chavantes

ORAL PRESENTATIONS

CO.13

EFFECTS OF LOW POWER LASERS ON IN VITRO SURVIVAL AND MORPHOLOGY OF BACTERIA FROM PRESSURE ULCERS

Thomé AM¹, Souza BP², Mendes JPM², Pinto LAP², Soares LC², Trajano ETL², Fonseca AS¹ - ¹UERJ - Departamento de Biofísica e Biometria, ²USS - Pró Reitoria de Pesquisa e Pós Graduação

CO.14

EFFECT OF LOW-LEVEL LASER THERAPY IN BIOMODULATION AND GENES EXPRESSION VEGF AND IL6 ON FIBROBLAST CELLS (L929)

Szezerbaty SKF¹, Oliveira RF¹, Pires-Oliveira DA¹, Poli-Frederico RC¹, Pires FB¹, Bertin LD¹, Spadaccini AF¹, Lima MPO¹, Oliveira PD¹, Almeida JS¹, Pereira NTC¹, Souza MV¹ - ¹Universidade Norte do Paraná - UNOPAR - Centro de Pesquisa em Ciências da Saúde - Laboratório de Cultura Celular

CO.15

EFFECTS OF LOW LEVEL LASER THERAPY ON THE PROGNOSIS OF SPLIT THICKNESS SKIN GRAFT IN TYPE 3 BURN OF DIABETIC PATIENTS: A CASE SERIES

Kazemikhoo N¹, Dahmardei M², Nilforoushzadeh MA¹, Amirkhani A³ - ¹Skin and Stem Cell Research Center, Tehran University of medical Sciences, ²Burn Research center, Department of Plastic and Reconstructive Surgery, Iran University of Medical Sciences, ³Laser Application in Medical Sciences Research Center, Shahid Beheshti University of Medical Sciences"

12h30 – 14h00 – LUNCH

14h00 – 15h30 • SALA 1

Chairman: Silvia Cristina Nuñez

MINOR ORAL SURGERY

Main Lecture

Reza Fekrazad

ORAL PRESENTATION

CO.16

EFFECT OF LASER 904 NM ON CELULAR PROLIFERATION AND GENE EXPRESSION (FA E BMP2) OF OSTEOBLASTIC CELLS (OFCOL II)

Pereira NTC, Oliveira RF¹, Lima MPO¹, Oliveira PD¹, Poli-Frederico RC¹, Almeida JS, Szezerbaty SKF¹, Silva JL¹, Pires FB¹, Silva AFS¹, Bertin LD¹, Pires-Oliveira DA¹ - ¹UNOPAR

Monday, November 7th

14h00 – 15h30 • SALA 2

Chairman: Ernesto C. P. Leal-Junior

EFEITO DA LASERTERAPIA NO METABOLISMO ÓSSEO UTILIZANDO VÁRIOS MODELOS EXPERIMENTAIS.

Main Lecture

Ana Claudia Renno

ORAL PRESENTATIONS

CO.17

LOW-LEVEL INFRARED LASER MODULATES MUSCLE REPAIR AND CHROMOSOME STABILIZATION GENES IN MYOBLASTS

Trajano LASN¹, Stumbo AC¹, Silva CL¹, Trajano ETL², Mencialha AL³, Fonseca AS³ - ¹Universidade do Estado do Rio de Janeiro - Departamento de Histologia e Embriologia, ²Universidade Severino Sombra - Pró-reitoria de pesquisa e pós-graduação, ³Universidade do Estado do Rio de Janeiro - Departamento de Biofísica e Biometria"

CO.18

EFFECTS OF PHOTOBIOMODULATION THERAPY AND DICLOFENAC ON FUNCTIONAL ASPECTS IN AN EXPERIMENTAL MODEL OF SKELETAL MUSCLE TRAUMA IN DIABETIC RATS.

Saltorato JC¹, Napolitano AAT^{2,3}, Santos LS¹, Marcos RL⁴, Carvalho RLP¹ - ¹Universidade do Sagrado Coração - Master's program in physical therapy, ²physiotherapy department, ³Universidade do Sagrado Coração, ⁴UNINOVE - Biofotônica Aplicada as Ciências da Saúde

CO.19

EFFECTS OF PHOTOBIOMODULATION THERAPY WITH COMBINATION OF SUPER-PULSED LASERS AND LIGHT EMITTING DIODES (LEDS) IN EXPERIMENTAL MODEL OF DUCHENNE MUSCULAR DYSTROPHY

Albuquerque-Pontes GM^{1,2}, Leal-Junior ECP^{1,2,3} - ¹Universidade Nove de Julho - Laboratory of Phototherapy in Sports and Exercise, ²Universidade Nove de Julho - Postgraduate Program in Biophotonics Applied to Health Sciences, ³Universidade Nove de Julho - Postgraduate Program in Rehabilitation Sciences

14h00 – 15h30 • SALA 3

Chairman: Rodrigo Labat Marcos

CLINICAL WOUND HEALING

Main Lecture

Ivany Ribeiro Baptista

ORAL PRESENTATIONS

CO.20

ANALYSIS THE EFFECTS OF AUTOLOGOUS FIBROBLAST TRANSPLANTATION ALONE AND COMBINED WITH LOW LEVEL LASER IN DIABETIC FOOT WOUND HEALING AND COMPARISON OF VEGF, FGF, PDGF GENE EXPRESSION IN THESE TWO METHODS.

Kazemikhoo N¹, Amirkhani A², Nilforoushzadeh MA¹ - ¹Skin and Stem Cell Research Center, Tehran University of medical Sciences, ²Laser Application in Medical Sciences Research Center, Shahid Beheshti University of Medical Sciences

CO.21

LASERTERAPY: AN ADJUVANT TREATMENT IN ACUTE AND CHRONIC WOUNDS REPAIRING

Baptista IMC¹, Chavantes MC² - ¹UNIVAP - Enfermagem, ²InCor-HC/FMUSP; UNINOVE - Medicina

CO.22

DESBRIDAMENTO DE FERIDA CRÔNICA DE ÚLCERA POR PRESSÃO EM CALCANHAR DIREITO UTILIZANDO LASER DE DIODO CIRÚRGICO DE 980NM – RELATO DE CASO.

Pinto AMFF¹, Lopes LA¹ - ¹Nupen - Laserterapia

15h30 – 16h00 – COFFEE BREAK

16h00 – 17h30 • SALA 1

Chairman: Silvia Cristina Nuñez

REGENERATION AND PARESTHESIA

Main Lecture

Praveen Arany

ORAL PRESENTATIONS

CO.23

HARD TISSUE BIOENGINEERING WITH PHOTOMODULATED DENTAL DERIVED MESENCHYMAL STEM CELLS - AN IN VIVO STUDY

Diniz IMA, Carreira AC, Moreira MS, Pelissari C, Freire L, Araujo DR, Sogayar MC, Marques MM

CO.24

EFFECT OF LASERPHOTOTHERAPY ASSOCIATED OR NOT TO VITAMIN C IN THE INDUCTION OF CELL SHEETS OF HUMAN DENTAL PULP STEM CELLS

Pedroni ACF¹, Abe GL¹, Sipert CR², Diniz IMA¹, Marques MM¹ - ¹Universidade de São Paulo - USP - Dentistry, ²Universidade de São Paulo - USP - Endodontics

16h00 – 17h30 • SALA 2

Chairman: Ernesto C. P. Leal-Junior

PERFORMANCE ENHANCEMENT AND EXERCISE RECOVERY

Main Lecture

Ernesto C. P. Leal-Junior

ORAL PRESENTATIONS

CO.26

PHOTOBIOMODULATION THERAPY (PBMT) AND/OR CRYOTHERAPY IN SKELETAL MUSCLE RESTITUTION, WHAT IS BETTER? A RANDOMIZED PLACEBO-CONTROLLED CLINICAL TRIAL

Paiva PRV¹, Casalechi HL¹, Vanin AA¹, Albuquerque-Pontes GM¹, Miranda EF¹, Leal-Junior ECP¹ - ¹Universidade Nove de Julho (Uninove) - Laboratory of Phototherapy in Sports and Exercise

CO.27

BLUE LIGHT DELAYS MUSCLE FATIGUE

Spoorendonk WHC¹, Oversluizen G¹, van Abeelen F¹, Hameetman CW¹ - ¹Philips Research

Monday, November 7th

16h00 – 17h30 • SALA 3

Chairman: Rodrigo Labat Marcos

BONE REPAIR**Main Lecture**

Rodrigo Labat Marcos

ORAL PRESENTATIONS**CO.28**
EFFECT OF LOW LEVEL LASER ASSOCIATED WITH ACTIVATED CARBON IN BONE REPAIR OF RATS

Almeida P¹, Dalmaso RBM¹, Pallotta RC¹, Piccirillo S¹, Petrellis MC¹, Frigo L², Lopes-Martins RAB³, Rahouadj R⁴, Amaral-Labat G⁵, Lenz e Silva GFB⁶, Labat RM^{1,6} - ¹Universidade Nove de Julho, ²Universidade Cruzeiro do Sul, ³Universidade Mogi das Cruzes, ⁴Université de Lorraine, ⁵Universidade de São Paulo, ⁶Biofotônica Aplicada às Ciências da Saúde

CO.30
ON LONG TERM EFFECTS OF LOW POWER LASER THERAPY IN BONE REPAIR: A SYNCHROTRON RADIATION-BASED MICROTOMOGRAPHY STUDY

Todea DC¹, Manescu A², Oancea R, Negrutiu ML, Sinescu C, Luca R - ¹University of Medicine and Pharmacy, Timisoara, Romania - Oral rehabilitation & Dental Emergencies, ²Univrsita Politecnica dele Marche - Dipartimento Di Scienze Cliniche Specialistiche e Odontostomatologiche, Ancona, Italia

17h30 – 19h30

POSTER SESSION

PT.01 a PT.26 (ver lista no final do programa)

20h30 – PARTY: WELCOME BACK TO THE 80'S

Tuesday, November 8th

9h00 – 10h30 • SALA 1

Chairman: Martha Simões Ribeiro

ORAL MUCOSITIS, ONCOLOGY AND PDT**Main Lecture**

Aguinaldo Garcez

ORAL PRESENTATIONS**CO.31**
TOTAL MOUTH ANTIMICROBIAL PHOTODYNAMIC THERAPY MEDIATED BY BLUE LED AND CURCUMIN IN AIDS PATIENTS: MICROBIOLOGICAL ANALYSIS AND FLUORESCENCE SPECTROSCOPY

Araújo TSD¹, Rodrigues PLF¹, Santos MS¹, Rosa LP¹, Bagnato VS², Silva FC¹ - ¹Instituto Multidisciplinar de Saúde, Universidade Federal da Bahia, Vitória da Conquista, BA., ²Instituto de Física de São Carlos, Universidade de São Paulo, São Carlos, SP.

CO.32
DOSIMETRIC STUDY OF LOW LEVEL LASER THERAPY IN 5-FU INDUCED ORAL MUCOSITIS IN HAMSTERS: A PILOT STUDY.

Cotomacio CC, Campos L, de Souza DN, Arana-Chavez VE, Simões A

9h00 – 10h30 • SALA 2

Chairman: Ernesto C. P. Leal-Junior

SPORTS REHABILITATION**Main Lecture**

Douglas Johnson

ORAL PRESENTATIONS**CO.33**
CAN THE PHOTOBIOSTIMULATION ON QUADRICEPS FEMORAL MUSCLE IMPROVE THE PAIN, MUSCLE STRENGTH AND FUNCTIONAL PERFORMANCE IN PATIENTS WITH KNEE OSTEOARTHRITIS? RANDOMIZED CLINICAL TRIAL.

Sardim AC¹, Pinfildi CE¹ - ¹Universidade Federal de São Paulo - Departamento de Ciências do Movimento Humano

CO.35
BASIC SCIENCE OF DIFFERENT LOW-LEVEL LASERS' PROCESSING PENETRATION ABILITIES IN ACHILLES AT REST AND AT STRETCHED IN HEALTHY INDIVIDUALS

Bordvik DH, Joensen J

9h00 – 10h30 • SALA 3

Chairman: Silvia Cristina Nuñez

ANTIMICROBIAL PHOTODYNAMIC THERAPY: A MECHANISTIC PERSPECTIVE AGAINST DRUG-RESISTANCE**Main Lecture**

Caetano Sabino

ORAL PRESENTATIONS**CO.36**
ASSOCIATION OF PHOTODYNAMIC THERAPY, LASER THERAPY AND CELLULOSE MEMBRANE FOR CALCANEAL PRESSURE ULCER TREATMENT IN DIABETIC PATIENT: A CASE REPORT

Rosa LP¹, Silva FC¹, Vieira RL², Tanajura BR¹, Gusmão AGS¹, Oliveira JM¹, Santos NAC¹, Bagnato VS³ - ¹Multidisciplinary Health Institute, UFBA, Vitória da Conquista, BA, Brazil, ²College of Technology and Science, Vitória da Conquista, BA, Brazil, ³Institute of Physics, USP, São Carlos, SP, Brazil

10h30 – 11h00 – COFFEE BREAK

Tuesday, November 8th

11h00 – 12h30 • SALA 1

Chairman: Martha Simões Ribeiro

CLINICAL MANAGEMENT OF ONCOLOGICAL PATIENT WITH LASER THERAPY**Main Lecture**

Alyne Simões

ORAL PRESENTATIONS

CO.39
OROFUNCTIONAL REHABILITATION USING PHOTOKINESIOTHERAPY
Lizarelli RFZ^{1,2}, Semprini M², Scalize PH², Vasconcelos PB², Morini Junior N³, Mauricio Junior N⁴, Melo MO⁵, Maia Campos PMBG⁵, Regalo SCH², Bagnato VS¹ - ¹Department of Material Science, Laboratory of Biophotonics - IFSC-USP, ²Department of Morphology, Physiology and Basic Pathology of FORP-USP, ³Biomedical Engineer of Graduation Program, Technological Research Nucleous - UMC, ⁴Department of Cosmetic Research - Neofarma, ⁵Department of Pharmaceutic Science, Laboratory of Cosmetology - FCFRP-USP

CO.40
LOW POWER LASERS AND IMMUNOREGULATORY INTERLEUKINS IN BREAST CANCER CELLS

Canuto KC¹, Rodrigues JA¹, Neto PN², Paoli F³, Mencialha AL¹, Fonseca AS¹ - ¹Universidade do Estado do Rio de Janeiro - Instituto de Biologia Roberto Alcântara Gomes, ²Instituto Nacional do Cancer - Programa De Carcinogênese Molecular, ³Universidade Federal de Juiz de Fora - Instituto de Ciências Biológicas

11h00 – 12h30 • SALA 2

Chairman: Ernesto C. P. Leal-Junior

EFFECT OF 660 NM ON THE JAK/STAT SIGNALING PATHWAY**Main Lecture**

Nicolette Hourelid

ORAL PRESENTATIONS**CO.41**
MATRIX METABOLISM ALTERATION BY LOW-INTENSITY INFRARED LASER

Anjos LMJ¹, Fonseca AS², Gameiro J³, Paoli F¹ - ¹Universidade Federal de Juiz de Fora - Departamento de Morfologia, ²Universidade do Estado do Rio de Janeiro - Departamento de Biofísica e Biometria, ³Universidade Federal de Juiz de Fora - Departamento de Parasitologia, Microbiologia e Imunologia

CO.42
EFFECT OF LOW LEVEL LASER THERAPY IN NERVE REGENERATION AFTER TUBULIZATION TECHNICAL FILLED WITH FAT TISSUE.
Bernardo GC¹, Santos TCP¹, Santana IC², Scheffmeier ALA², Bueno CRS², Bortoluci CHF², Buchaim RL³, Bossini PS¹, Rosa Júnior GM¹ - ¹UNIVERSIDADE DO SAGRADO CORAÇÃO - PRÓ-REITORIA DE PESQUISA E PÓS-GRADUAÇÃO, ²UNIVERSIDADE DO SAGRADO CORAÇÃO - CENTRO DE CIÊNCIAS DA SAÚDE, ³UNIVERSIDADE DE SÃO PAULO - FACULDADE DE ODONTOLOGIA DE BAURÍ

CO.43
EFFECT OF 660 NM VISIBLE RED LIGHT ON CELL PROLIFERATION AND VIABILITY IN DIABETIC MODELS IN VITRO UNDER STRESSED CONDITIONS

Ayuk SM¹, Abrahamse H¹, Hourelid NN¹ - ¹university of johannesburg - Laser Research Centre

11h00 – 12h30 • SALA 3

PDT IN HEALTH CARE**Main Lecture**

Renato Prates

ORAL PRESENTATIONS**CO.44**
EFFECTS EVALUATION OF METHYLENE BLUE PHOTOACTIVATED ON EXPERIMENTAL MODEL OF WALKER TUMOR 256

Petrellis MC¹, Frigo L², Marcos RL³, Pallotta RC⁴, Seelaender MCL⁵, de Carvalho MHC⁶, Muscará MN⁶, Maria DA⁷, Lopes-Martins RAB⁶ - ¹Biomedical Sciences Institute-USP/ Nove de Julho University - Department of Pharmacology/, ²Cruzeiro do Sul University, ³Nove de Julho University, ⁴Biomedical Sciences Institute-USP/ Nove de Julho University - Department of Pharmacology, ⁵Biomedical Sciences Institute-USP - Department of Cellular Biology and Development, ⁶Biomedical Sciences Institute-USP - Department of Pharmacology, ⁷Butantan Institute - Biochemistry and Biophysical Laboratory

CO.46
ANTIMICROBIAL PHOTODYNAMIC THERAPY IN THE TREATMENT OF OSTEORADIONECROSIS - CASE REPORT

Castro FS¹, Meneguzzo DT², Nakashima CF² - ¹Allaser/ Fundação Cristiano Varela - Odontologia, ²allaser - odontologia

12h30 – 14h00 – LUNCH

14h00 – 15h30 • SALA 1

Chairman: Selly Sayuri Suzuki

ORTODONTICS AND IMPLANTS**Main Lecture**

Martha Simões Ribeiro

ORAL PRESENTATIONS**CO.47**
EFFECT OF LOW-LEVEL LASER THERAPY ON BONE METABOLISM AND ROOT RESORPTION DURING TOOTH MOVEMENT IN RATS

Suzuki SS¹, Garcez AS², Moon W³, Ervolino E⁴, Suzuki H⁵, Ribeiro MS¹ - ¹IPEN - Center for Lasers and Applications Nuclear and Energy Research Institute, ²São Leopoldo Mandic Dental Research Center - Department of Microbiology, ³University of California, Los Angeles - Department of Orthodontics, ⁴UNESP - Univ. Estadual Paulista Brazil - Department of Basic Sciences of Dental School, Araçatuba, ⁵São Leopoldo Mandic Dental Research Center - Department of Orthodontics - Pos-graduation

CO.48
HYDROGEN PEROXIDE FOLLOWED BY METHYLENE BLUE PHOTODYNAMIC INACTIVATION FOR ENDODONTIC DISINFECTION – A NEW PROTOCOL FOR USE IN ENDODONTICS

Garcez AS¹, Hamblin MR² - ¹São Leopoldo Mandic Dental Research Center - Oral Microbiology, ²Wellman Center for Photomedicine, Massachusetts General Hospital

Tuesday, November 8th

14h00 – 15h30 • SALA 2

Chairman: Rodrigo Lopes Alvaro Martins

LASER THERAPY IN ISCHEMIA/REPERFUSION INJURY**Main Lecture**

Rodrigo Lopes Alvaro Martins

ORAL PRESENTATIONS**C0.50****PHOTOBIMODULATION EFFECT IN SPONTANEOUSLY HYPERTENSIVE RATS AND HUMANS: HEMODYNAMIC RESPONSE AND OXIDATIVE STRESS**

Pinto NC¹, Tomimura S¹, Morais T¹, Sanches IC¹, Silva BPA², Trivelin MLOAA¹, De Angelis K¹, Consolim-Colombo F¹, Chavantes MC¹ - ¹Universidade Nove de Julho-UNINOVE - Pós-graduação em Medicina, ²Universidade Nove de Julho-UNINOVE - Graduação Faculdade de Medicina

14h00 – 15h30 • SALA 3

Chairman: Caetano Sabino

CANCER STEM CELL RESPONSES TO PHOTOBIMODULATION**Main Lecture**

Heidi Abrahamse

ORAL PRESENTATIONS**C0.51****APOPTOSIS IS ONE OF ANTI-INFLAMMATORY MECHANISMS OF LOW-LEVEL LASER IRRADIATION IN INFLAMMATORY CELLS.**

dos Anjos LMJ¹, Gameiro J², Fonseca AS³, Paoli F¹ - ¹UFJF - Morfologia, ²UFJF - DPMI, ³UERJ - Biofísica e Biometria

15h30 – 16h00 – COFFEE BREAK

16h00 – 17h30 • SALA 2

Chairman: Rodrigo Martins

NOVEL APPLICATIONS IN LIFE SCIENCES**Main Lecture**

Vanderlei Bagnato

ORAL PRESENTATIONS**C0.52****NEUROMUSCULAR BEHAVIOR OF BICEPS BRACHIAL SPASTIC MUSCLE IN POST-STROKE CHRONIC INDIVIDUALS AFTER TEN SESSIONS OF LOW-LEVEL LASER THERAPY (LLLT)**

Neves MF¹, Reis MCR¹, Aleixo DC¹, Silva ACP¹, Mendes IS¹, Lima FPS¹, Arisawa EAL², Lima MO¹ - ¹Universidade do Vale do Paraíba/SP - Laboratório de Engenharia de Reabilitação Sensório Motora - Instituto de Pesquisa e Desenvolvimento, ²Universidade do Vale do Paraíba/SP - Laboratório de Imunologia - Instituto de Pesquisa e Desenvolvimento

C0.53**DIFFERENT LASER WAVELENGTHS LESIONS IN INTERVERTEBRAL DISCS: VOLUMETRIC EVALUATION BY MAGNETIC RESONANCE.**

Plapler H¹, Mancini MW², D'Arienzo F¹, Demange LK¹, Ferreira C¹, Bomfim FRC¹, Sella VRG¹ - ¹UNIFESP - Surgery, ²DMC Equipments, São Carlos, Brazil

C0.54**THE DARK PROTEOME: ILLUMINATION BY LIGHT**

Liebert A¹, Bicknell B² - ¹Australasian Research Institute - Photomolecular Research, ²Australian Catholic University - School of Science

16h00 – 17h30 • SALA 3

Chairman: Caetano Sabino

LOW LEVEL LASER IN AESTHETICS**Main Lecture**

Rosane Lizarelli

ORAL PRESENTATIONS**C0.55****ACTION OF RED LASER IN PHOTOAGING PREVENTION**

Neves LMG^{1,2}, Tim CR², Martignago CCS², Andrade ALM², Oliveira CAM², Parizotto NA², Cominetti MR¹ - ¹Federal University of São Carlos - São Carlos/SP - Departament of Gerontology, ²Federal University of São Carlos - São Carlos/SP - Departament of Physiotherapy, ³Federal University of São Paulo - São Paulo/SP - Departament of Biosciences

C0.56**LASERTHERAPY IN ROSACEA: PILOT STUDY**

Trivelin MLOAA¹, Alchorne OA², Marques ERM², Alchorne MMA², da Silva F², Freixedas EMR², Belotto R¹, Pinto NC¹, Chavantes MC¹ - ¹Universidade Nove de Julho-UNINOVE - Pós-graduação em Medicina, ²Universidade Nove de Julho-UNINOVE - Graduação Faculdade de Medicina

18h00 – 20h00 – GENERAL ASSEMBLY

18h00 – 20h00

POSTER SESSION

PT.27 a PT.53 (ver lista no final do programa)

Wednesday, November 9th

9h00 – 10h30 • SALA 1

Masterclass presentations

HOW TO MOVE LLLT FROM LABORATORY TO CLINICAL PRACTICE?

Vanderlei S. Bagnato

Moderator: Adenilson Fonseca

Rodrigo Lopes-Martins, Aguinaldo Garcez, Ernesto Leal-Junior, Douglas Johnson

10h30 – 11h00 – COFFEE BREAK

11h00 – 12h00

YOUNG RESEARCHER COMPETITION

Ernesto Leal-Junior

Final Results

12h00 – 12h30 – CLOSING CEREMONY

ANNOUNCEMENT OF WALT 2018 VENUE*LISTAGEM DE PÔSTERES***PT.01****LOW-LEVEL LASER THERAPY AND BONE HEALING IN DIABETIC RATS: EVALUATION OF BONE RESPONSE USING A TIBIAL DEFECT EXPERIMENTAL MODEL**

Magri AMP¹, Fernandes KR¹, Assis L¹, Mendes NA¹, Santos ALYSS¹, Dantas EO¹, Renno ACM¹ - ¹Federal University of São Paulo

PT.02**PHOTOBIOSTIMULATION ON ELBOW: SHOULD WE TAKE INTO CONSIDERATION THE VASCULARIZATION AS A TARGET?**

Pinfildi CE¹, Bisset L², Xavier MO³, Evans K², Laakso EL² - ¹Universidade Federal de São Paulo - UNIFESP - Ciências do Movimento Humano, ²Griffith University - School of Allied Health Sciences, ³Universidade Federal dos Vales do Jequitinhonha e Mucuri - UFVJM - Fisioterapia

PT.03**EFFECTS OF LOW INTENSITY LASERTHERAPY ON MINISCREW HEALING AND BONE NEOFORMATION**

Sales TDB¹, Mori E, Suzuki H, Suzuki SS, Segundo ASG - ¹Faculdade de Odontologia São Leopoldo Mandic - Ortodontia

PT.04**PHOTOTHERAPY IN PAIN, FUNCTIONALITY AND QUALITY OF LIFE ON OSTEOARTHRITIS OF THE KNEE IN OLDER ADULTS: A PILOT STUDY**

Gonçalves LH¹, Vassão PG¹, Renno ACM¹ - ¹Universidade Federal de São Paulo - Departamento de Biociências

PT.05**LOW LEVEL LASER THERAPY IN EXPERIMENTAL MODEL OF STRAIN-INDUCED SKELETAL MUSCLE INJURY IN RATS: EFFECTS ON INFLAMMATORY CYTOKINES AND MUSCLE HISTOLOGY**

Ramos L^{1,2}, Carvalho RLP³, Marcos RL⁴, Ramos TAM⁵, Lopes-Martins RAB⁶ - ¹Pitágoras Guarapari, ²Faculdade Estácio de Sá - Vitória, ³Universidade do Sagrado Coração - Mestrado em Fisioterapia, ⁴Uninove - Biofotônica aplicada as ciências da saúde, ⁵Instituto de Ensino Superior FAVI, ⁶UMC

PT.06**LOW LEVEL LASER THERAPY IN MUSCLE REGENERATION AFTER TUBULIZATION TECHNIQUE FILLED WITH FAT TISSUE.**

Santos TCP¹, Bernardo GC¹, Gonçalves JML¹, de Moraes APG², Gaiato M², Simonato LH², Carvalho RLP¹, Rosa Júnior GM¹ - ¹UNIVERSIDADE DO SAGRADO CORAÇÃO - PRÓ-REITORIA DE PESQUISA E PÓS-GRADUAÇÃO, ²UNIVERSIDADE DO SAGRADO CORAÇÃO - CENTRO DE CIÊNCIAS DA SAÚDE

PT.08**EFFECTS OF INFRARED LASER THERAPY ON SKELETAL MUSCLE REPAIR IN DIABETIC RATS**

Manis C, Assis L, Fernandes KR, Cabral D, Magri A, Veronez S, Renno ACM

PT.09**THE EFFECT OF LOW LEVEL LASER IRRADIATION ASSESSMENT ON THE PHARMACOKINETICS OF TOPICAL DICLOFENAC GEL IN HEALTHY VOLUNTEERS**

Martins PSLL¹, Lopes-Martins RAB², Nobre JS¹, Marques RH¹, De Nucci G¹ - ¹Universidade de Mogi das Cruzes - Núcleo de Pesquisas Tecnológicas - NPT, ²Universidade Camilo Castelo Branco - UNICASTELO - Faculdade de Ciências Médicas

PT.10**STRUCTURAL ASPECTS AND OXIDATIVE STRESS ON ACUTE INDUCED GOUTY ARTHRITIS IN WISTAR RATS AFTER LOW-LEVEL LASER THERAPY.**

Bovo JL¹, Gonçalves J¹, Alonso H², Nakagawa IT², Pigoso AA³, Esquisatto MAM², Bomfim FRC^{1,4} - ¹Centro Universitário Herminio Ometto - UNIARARAS, Araras, Brazil - Molecular Biology Department, ²Centro Universitário Herminio Ometto - UNIARARAS, Araras, Brazil - Graduate Program in Biomedical Sciences, ³Centro Universitário Herminio Ometto - UNIARARAS, Araras, Brazil - Biochemistry Department, ⁴UNIFESP - EPM, São Paulo, Brazil - Surgery Department

PT.11**SKIN WOUND HEALING: EFFECTS OF FREQUENCY AND DIFFERENT PARAMETERS OF LOW LEVEL LASER THERAPY (LLLT)**

Castro JR¹, Pereira F¹, Magliano GC¹, Campos L¹, Arana-Chavez VE¹, Simões A¹ - ¹School of Dentistry of University of São Paulo - Department of Biomaterials and Oral Biology

PT.12**EFFECTS OF TWO PROTOCOLS OF APPLICATION OF LOW LEVEL LASER THERAP IN RANDOM CUTANEOUS FLAP VIABILITY IN RATS**

Martignago CCS¹, Bossini PS², Tim CR², Neves LMG⁴, Oliveira CAB⁵, Liebano RE¹, Parizotto NA¹ - ¹Universidade Federal de São Carlos - Fisioterapia, ²Universidade do Sagrado Coração - Fisioterapia, ³Universidade Federal de São Paulo - Biociência, ⁴Universidade Federal de São Carlos - Fisiologia, ⁵Universidade Federal de São Carlos - Biotecnologia

PT.13**EFFECTS OF THE LOW LEVEL LASER THERAPY ASSOCIATED WITH BIOSILICATE@/PLGA COMPOSITES IN TIBIAL BONE REPAIR**

Fernandes KR, Magri AMP, Kido H, Ueno F, Assis L, Renno ACM

PT.14**LOW-LEVEL LASER THERAPY EFFECTS ON TREATMENT OF INDUCED OSTEOPOROSIS IN WISTAR RATS**

Rodrigues VO¹, Souza AC¹, Bueno AP¹, Bomfim FRC^{1,2} - ¹Centro Universitário Herminio Ometto - UNIARARAS, Araras, Brazil - Molecular Biology Department, ²UNIFESP - EPM, São Paulo, Brazil - Surgery Department

PT.15**LOW-LEVEL LASER THERAPY: ANTI-INFLAMMATORY AND ANTI-DEGENERATIVE EFFECTS IN RAT MODEL OF KNEE OSTEOARTHRITIS**

Sanches M¹, Assis L¹, Fernandes K¹, Criniti C¹, Fernandes D¹, Magri A¹, Renno ACM¹ - ¹UNIFESP

PT.16**ANALYSIS OF CELL PROLIFERATION AND GENE EXPRESSION ON FIBROBLAST CELLS (L929) SUBMITTED TO LOW-LEVEL LASER THERAPY**

Poli-Frederico RC¹, Martignago CCS¹, Oliveira RF¹, Oliveira PD¹, Bertin LD¹, Pires FB¹, Spadaccini AF¹, Almeida JS¹, Lima MPO¹, Pereira NTC¹, Bravo MP¹, Soares GP¹, Szezerbaty SKF¹, Pires-Oliveira DA¹ - ¹Universidade Norte do Paraná - UNOPAR - Centro de Pesquisa em Ciências da Saúde - Laboratório de Cultura Celular.

PT.17**PHOTOTHERAPY LASER ESTIMULATES COLLAGEN DEPOSITION IN DIABETIC ANIMALS AND MODULATES INFLAMMATION.**

Tatmatsu-Rocha JC¹, Tim CR², Bernardes-Filho R³, Avo L⁴, Parizotto NA⁵ - ¹UFC - Physical Therapy Department, ²UNIFESP- Santos - Department of Bioscience, ³EMBRAPA, ⁴UFSCAR - Medicine Department, ⁵UFSCAR - Physical Therapy Department

PT.18**EFFECTS OF LOW LEVEL LASER THERAPY ON LUNG INFLAMMATION IN EXPERIMENTAL MODEL OF SEPSIS**

Janeiro JG¹, Kido H², Mituyama LY¹, Moriyama JH², Assis L³, Cury V⁴, Prado CM⁵, Renno ACM³, Yamauchi LY⁶ - ¹Universidade Federal de São Paulo - Curso de Fisioterapia, ²Universidade Federal de São Paulo, ³Universidade Federal de São Paulo - Departamento de Biociências, ⁴Universidade de São Paulo, ⁵Universidade Federal de São Paulo - Departamento de Ciências do Movimento Humano

PT.19**EVALUATION OF CELL VIABILITY AND THE EXPRESSION OF IL-6 AND VEGF GENES AFTER LOW POWER LASER ON L 929 FIBROBLAST CELLS**

Almeida JS¹, Pires-Oliveira DA¹, Silva AFS¹, Poli-Frederico RC², Pereira NTC¹, Szezerbaty SKF¹, Lima MPO¹, Bertin LD¹, Pires FB¹, Santos AF¹, Oliveira PD¹, Oliveira RF¹ - ¹Universidade Norte do Paraná - Laboratório de Cultura Celular, ²Universidade Norte do Paraná - Laboratório de Biologia Molecular

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PT.20 EFFECTS OF THERAPEUTIC LASERS WITH DIFFERENT WAVELENGTHS ON THE BONE MARROW MESENCHYMAL STEM CELLS (DIFFERENTIATION & PROLIFERATION)

Fekrazad R¹, Eslaminejad B M², Taghiyar L², Bordbar S², Asefi S - ¹AJA University of Medical Sciences, Tehran, Iran - Laser research Center in Medical Sciences, ²Royan Institute for Stem Cell Biology and Technology, ACECR, Tehran, Iran - Stem Cells and Developmental Biology, Cell Science Research Center

PT.21 EFFECT OF IRRADIATION WITH A LOW-LEVEL LASER THERAPY ON CHONDROCYTE VIABILITY

Tim CR¹, Martignago CCS², Neves LMG², Oliveria C², Assis L¹, Tatmatsu JC³, Parizotto NA², Renno ACM¹ - ¹Universidade Federal de São Paulo, ²Universidade Federal de São Carlos, ³Universidade Federal do Ceará

PT.22 LOW-LEVEL LASER THERAPY (660 NM) IMPROVES THE HEALING PROCESS OF THIRD DEGREE BURNS IN RATS

Brassolatti P¹, Bossini PS², Oliveira MCD³, Kido HW⁴, Almeida-Lopes L⁵, de Avó LRS⁶, Araújo-Moreira FM⁷, Parizotto NA³ - ¹Federal University of São Carlos - Biotechnology, ²Sagrado Coração University - Master Program of Physiotherapy, ³Federal University of São Carlos - Department of Physiotherapy, ⁴Federal University of São Paulo - Department of Biosciences, ⁵DMC Equipment Import and Export- Co. Ltda, ⁶Federal University of São Carlos - Department of Medicine, ⁷Federal University of São Carlos - Department of Physics

PT.23 BELL'S PALSY AND LOW LEVEL LASER THERAPY - CASE REPORT.

Baldo Jr D¹, Parizotto NA¹, Pigatto GR¹ - ¹Centro Universitário de Araraquara - UNIARA - Departamento de Biotecnologia em Medicina Regenerativa e Química Medicinal

PT.24 LOW LEVEL LASER THERAPY BENEFITS AFTER BICHECTOMY

Lobo FS, Meneguzzo DT, Largura LZ, Feldmann C

PT.26 EFFECT OF ACTIVATED CARBON FIBER FELT ASSOCIATED WITH LOW LEVEL LASER ON THE BONE HEALING PROCESS IN RATS TIBIA.

Dalmaso RBM¹, Almeida P¹, Silva TR¹, Carvalho RLP², Martins RABL, Arnold G³, Marcuzzo JS⁴, Labat GA⁵, Silva GFBL⁵, Marcos RL¹ - ¹universidade nove de julho - Biotônica Aplicada às Ciências da Saude, ²Universidade do Sagrado Coração, ³Universit  de Haute-Alsace, ⁴Instituto Nacional de Pesquisas Espaciais (INPE), ⁵Universidade de São Paulo (USP)

PT.27 ANALYSIS OF THE EFFECTS OF LASER LOW POWER IN SECOND DEGREE BURNS IN PATIENTS HOSPITALIZED

Foresi N^{1,1}, Malavasi P^{1,1}, Natividade VSS^{1,1} - ¹Universidade Anhembi morumbi - fisioterapia

PT.28 INVESTIGATION LED EFFECTS IN THE PROCESS OF HEALING: LITERATURE REVIEW

Carbonaro CC¹, Logrado E¹, Crocco J H¹, Pazim L¹, Hanashiro KH¹, Assunção FFO², Natividade VSS¹ - ¹Universidade Anhembi Morumbi, ²Universidade de Araraquara

PT.29 NUCLEAR PHENOTYPE EVALUATION IN MUSCLE TISSUE OF WISTAR RATS EXPOSED TO LOW LEVEL LASER THERAPY.

Almeida LG¹, Sergio LPS², Paoli F³, Vicentini SC², Fonseca AS^{1,2,4} - ¹UNIRIO - Departamento de Ciências Fisiológicas, Instituto Biomédico, Universidade Federal do Estado do Rio de Janeiro, ²UERJ - Departamento de Biofísica e Biometria, Instituto de Biologia Roberto Alcantara Gomes, Universidade do Estado do Rio de Janeiro, ³UFJF - Departamento de Morfologia, Instituto de Ciências Biológicas, Universidade Federal de Juiz de Fora, ⁴Centro Universitário Serra dos Órgãos - Centro de Ciências da Saúde

PT.30 PRE-EXERCISE PHOTOTHERAPY IS THE BEST IRRADIATION PROTOCOL WHEN APPLIED IN ASSOCIATION TO STRENGTH TRAINING: A RANDOMIZED, DOUBLE-BLINDED, PLACEBO CONTROLLED TRIAL

Vanin AA^{1,2}, Miranda EF³, Machado CSM³, Paiva PRV^{3,4}, Albuquerque-Pontes GM^{1,3}, Camillo de Carvalho PT^{1,5}, Leal-Junior ECP^{1,3,4} - ¹Universidade Nove de Julho - Postgraduate Program in Biophotonics Applied to Health Sciences., ²Universidade Nove de Julho - Postgraduate Program in Rehabilitation Sciences, Universidade Nove de Julho (UNINOVE), São Paulo, Brazil., ³Universidade Nove de Julho - Laboratory of Phototherapy in Sports and Exercise., ⁴Universidade Nove de Julho - Postgraduate Program in Rehabilitation Sciences., ⁵Universidade Nove de Julho. - Postgraduate Program in Rehabilitation Sciences.

PT.31 USING PRE-EXERCISE PHOTOBIO-MODULATION THERAPY COMBINING SUPER-PULSED LASERS AND LIGHT-EMITTING DIODES TO IMPROVE PERFORMANCE IN PROGRESSIVE CARDIOPULMONARY EXERCISE TESTS

Miranda EF, Vanin AA, Grandinetti VS, Paiva PRV, Monteiro KKDS, Leal-Junior ECP

PT.32 LIPID PEROXIDATION BY MALONDIALDEHYDE IN A MUSCLE SUBMITTED TO LOW INTENSITY LASER RADIATION

Sella VRG¹, Bomfim FRC², Demange LK¹, Bovo JL³, Gonçalves J³, Pigoso AA⁴, Plapler H¹ - ¹UNIFESP - Surgery, ²UNIFESP/UNIARARAS - Surgery/ Molecular Biology, ³UNIARARAS - Molecular Biology, ⁴UNIARARAS

PT.33 EFFECTS OF 904 NM CLUSTER LASER PHOTOBIO-MODULATION ON EXERCISE-INDUCED SKELETAL MUSCLE FATIGUE IN YOUNG WOMEN.

Toma RL¹, Oliveira MX², Renno ACM¹, Laakso EL³ - ¹Federal University of São Paulo, Santos, Brazil - Department of Biosciences, ²Federal University of Jequitinhonha and Mucuri Valleys, Diamantina-MG, Brazil - Department of Physiotherapy, ³Griffith University, QLD, Australia - Menzies Health Institute Queensland

PT.34 PHOTOBIO-MODULATION THERAPY (PBMT) IMPROVES PERFORMANCE AND ACCELERATES RECOVERY OF HIGH-LEVEL RUGBY PLAYERS IN FIELD TEST

Dantas HP, Casalechi HL, Vanin AA, Albuquerque-Pontes GM, Miranda EF, Leal-Junior ECP

PT.35 STRENGTH EXERCISE TRAINING ASSOCIATED WITH LOW-LEVEL LASER THERAPY (LLLT) IN MUSCLE STRENGTH, FUNCTIONAL CAPACITY AND BALANCE OF OLDER WOMEN - RANDOMIZED PLACEBO- CONTROLLED TRIAL

Vassão PG¹, Toma RL¹, Antunes HKM¹, Renno ACM - ¹universidade Federal de São Paulo - biociências

PT.36 AEROBIC EXERCISE AND TRANSCRANIAL LASER THERAPY PRODUCE SIMILAR BENEFITS ON REACTION TIME AND MEMORY PERFORMANCE

Hwang J¹, Castelli DM¹, Gonzalez-Lima F¹ - ¹University of Texas at Austin

PT.37 THE EFFECT OF INTERACTION BETWEEN LOW-LEVEL LASER THERAPY, CREATINE MONOHYDRATE SUPPLEMENTATION AND SWIMMING TRAINING ON MUSCULAR STRENGTH, INDUCED BY ELECTRICAL STIMULATION IN RATS.

Hudínik AF¹, Napolitano AAT¹, Miguel NA¹, Rosa Júnior GM², Simionato LH¹, Bortoluci CHF¹, Carvalho RLP² - ¹Universidade do Sagrado Coração - physiotherapy department, ²Universidade do Sagrado Coração - Master's program in physical therapy

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PT.38 PHOTOBIO-MODULATION IN MANAGEMENT OF CHEMOTHERAPY-INDUCED ORAL MUCOSITIS IN ONCOLOGIC YOUNG PATIENTS ESTABLISHING RELATIONS WITH LEUKOCYTES LEVELS

Abramoff MMF¹, Almeida-Lopes L², Epelman S³ - ¹Hospital Santa Marcelina - Oncologia Pediátrica, ²Núcleo de Pesquisa e Ensino de Fototerapia nas Ciências da Saúde - NUPEN, ³Hospital Santa Marcelina/ TUCCA - Oncologia Pediátrica

PT.39 LOW-LEVEL LASER EFFECTS ON BACTERIAL CULTURES SUBMITTED TO HEAT STRESS

Gonçalves EM¹, Guimaraes OR², Geller M², Paoli F³, Fonseca AS⁴ - ¹Centro de Ciências da Saúde, Centro Universitário Serra dos Órgãos, Teresópolis, Rio de Janeiro, Brazil. - Fotobiologia e Radiobiologia, ²Centro de Ciências da Saúde, Centro Universitário Serra dos Órgãos, Teresópolis, Rio de Janeiro, Brazil., ³Universidade Federal de Juiz de Fora, Juiz de Fora, Minas Gerais, Brazil. - Departamento de Morfologia, Instituto de Ciências Biológicas, ⁴Centro de Ciências da Saúde, Centro Universitário Serra dos Órgãos, Teresópolis, Rio de Janeiro, Brazil./ Universidade Federal do Estado do Rio de Janeiro, Rio de Janeiro, Brazil./ Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil. - Fotobiologia e Radiobiologia/ Departamento de Ciências Fisiológicas, Instituto Biomédico/ Departamento de Biofísica e Biometria

PT.40 USING AIGalnP LASER IN CUTANEOUS RADIONECROSIS HEALING INDUCED BY ¹²⁵I SEED IN AN ATHYMIC MURINE MODEL

Mosca RC¹, Zeituni CA¹, Lima LJ¹, Costa FC¹, Ribeiro MS² - ¹Energetic and Nuclear Research Institute (IPEN/CNEN-SP) - CTR - Radiation Technology Center, ²Energetic and Nuclear Research Institute (IPEN/CNEN-SP) - CLA - Laser Application Center

PT.41 EVALUATION OF INDUCTION OF DNA DAMAGE AND REPAIR BY LOW POWER LASERS

Sergio LPS¹, Vicentini SC², Mencialha AL¹, Paoli F³, Fonseca AS¹ - ¹Universidade do Estado do Rio de Janeiro - Departamento de Biofísica e Biometria, ²Universidade Federal do Rio de Janeiro - Departamento de Ciências Fisiológicas, ³Universidade Federal de Juiz de Fora - Departamento de Morfologia

PT.42 SKIN CHANGES INDUCED BY UV-B RADIATION (UVR-B)

Korinsky JP¹, Plapler H², Fernandes TOM³, Menezes VG⁴, Santos I³, Neves LF⁵, Cardili L⁶, Seabra AG⁵ - ¹UNIVASF - COLEGIADO DE ENFERMAGEM, ²UNIFESP - DEPARTAMENTO DE CIRURGIA, ³UNIVASF - COLEGIADO DE MEDICINA, ⁴UNIVASF - LABORATÓRIO DE BIOLOGIA CELULAR, CITOLOGIA E HISTOLOGIA, ⁵UNIVASF - LABORATÓRIO DE CIRURGIA EXPERIMENTAL, ⁶UNIFESP

PT.44 EFFECTIVENESS OF LASER ACUPUNCTURE ALONG WITH INTENSIVE SHORT-TERM DYNAMIC PSYCHOTHERAPY ON IMPROVEMENT OF DEPRESSION: A CASE STUDY

Shojaeddin A¹, Jafarian NF^{2,3} - ¹Iranian Medical Laser Association, ²University of Tehran - Psychology Department, ³Sigmund Freud Privat, Universität Wien, Germany

PT.45 LOW LEVEL INFRARED LASER EFFECTS ON BACTERIAL SURVIVAL

Vicentini SC¹, Sergio LPS², Vicentini JC³, Mencialha AL², Paoli F⁴, Fonseca AS⁵ - ¹UNIRIO - Departamento de Ciências Fisiológicas, ²UERJ - Departamento de Biofísica e Biometria, ³UFRJ - Centro de Ciências da Saúde, ⁴UFJF - Departamento de Morfologia, ⁵UERJ/UNIRIO - Departamento de Biofísica e Biometria/Departamento de Ciências Fisiológicas

PT.46 TITLE: LOW-LEVEL RED AND INFRARED LASERS MODULATE HOUSEKEEPING GENE EXPRESSIONS IN *ESCHERICHIA COLI*.

Teixeira AF¹, Machado YLRC¹, Mencialha AL¹, Fonseca AS^{1,2,3} - ¹Universidade do Estado do Rio de Janeiro - Departamento de Biofísica e Biometria, ²Universidade Federal do Estado do Rio de Janeiro - Departamento de Ciências Fisiológicas, ³Centro Universitário Serra dos Órgãos - Centro de Ciências da Saúde

PT.47 EFFECTIVENESS OF PHOTODYNAMIC THERAPY MEDIATED BY CURCUMIN AND BLUE LED TO REDUCE MICROBIAL CONTAMINATION IN PRESSURE ULCERS: A PRELIMINARY STUDY

Vieira RL^{1,2}, Rosa LP², Silva FC², Santos NAC², Oliveira JM², Tanajura BR², Gusmão AGS², Bagnato VS³ - ¹College of Technology and Science, ²UFBA - Multidisciplinary Health Institute, ³USP-São Carlos - Physics Institute

PT.48 EFFECTIVENESS OF PHOTOBIO-MODULATION ON ACTIVITIES OF DAILY LIVING AND MOTOR EXAMINATION OF PARKINSON'S DISEASE PATIENTS

Jang I¹, Lim DJ^{2,3}, Jeong M⁴ - ¹Department of Internal Medicine, College of Korean Medicine, Woosuk University, Jeonbuk, Rep. of Korea, ²R&D center, Cas In Bio, Seongnam, Gyeonggi-do, Rep. of Korea, ³Department of Biomedical Engineering, University of Alabama at Birmingham, Birmingham, AL 35294, USA, ⁴Department of Pediatrics, College of Korean Medicine, Woosuk University, Jeonbuk, Rep. of Korea

PT.49 EXPLORING THE EFFECTS OF PHOTOBIO-MODULATION ON THE INFLAMMATORY PROCESS OF THE ADIPOSE TISSUE OF DIET-INDUCED OBESE AND HYPERGLYCEMIC MICE

Yoshimura TM¹, Sabino CP², Nilzen MS¹, Ribeiro MS¹ - ¹IPEN-CNEN/SP - Center for Lasers and Applications, ²School of Pharmaceutical Sciences, University of São Paulo - Department of Clinical Analysis

PT.50 BLOOD SUGAR LEVELS OF ANALYSIS IN DIABETIC PATIENTS TYPE II AFTER APPLICATION OF SYSTEMIC LASER

Pareta LCO, Silva LP, Chiquie S, Natividade V¹, Sampaio FCJL - ¹Universidade Anhembi Morumbi

PT.51 PHOTOBIO-MODULATION WITH LOW LEVEL LASER THERAPY IN TEMPOROMANDIBULAR JOINT TENDERNESS ASSOCIATED WITH INITIATION OF MANDIBULAR ADVANCEMENT DEVICE USE IN SLEEP APNEA - A SINGLE SUBJECT DESIGN

Gjerde K^{1,2}, Bjordal JM³, Johansson AA^{1,2} - ¹Departement of Clinical Dentistry, University of Bergen, Norway, ²Center for Sleep Medicine, Haukeland University Hospital, Norway, ³Department of Global Public Health and Primary Care, University of Bergen, Norway

PT.52 LOW-LEVEL LASER THERAPY (LLLT) 670NM IN THE TIME COURSE ON WOUND HEALING IN RATS

Oterço AN^{1,2}, Brassolatti P³, Andrade ALM³, de Avó LRS⁴, Lino ADS⁵, Bossini PS⁶, Parizotto NA¹ - ¹UFSCar - Fisioterapia, ²UNIFEV - Fisioterapia, ³UFSCar, ⁴UFSCar - Medicine, ⁵UFSCar - Departamento de Ciências Fisiológicas, ⁶Universidade Sagrado Coração – Fisioterapia

PT.53 THE USE OF LOW POWER LASER IN THE TREATMENT OF COMPLICATIONS ASSOCIATED WITH TOOTH EXTRACTION OF THIRD MOLARS.

Lago ADN¹, Ferreira WDR², Nunes FRS², Ferreira OC², Pinheiro AFS² - ¹Department of Odontology I, University Federal of Maranhão - UFMA, São Luis/MA, ²Department of Odontology I - UFMA

PT.54 LOW LEVEL LASER THERAPY ASSOCIATED WITH A STRENGTH TRAINING PROGRAM ON MUSCLE PERFORMANCE IN ELDERLY WOMEN: A RANDOMIZED DOUBLE BLIND CONTROL STUDY

Renno AC, Luri R, Vassão PG

PT.55 EFFECTIVENESS OF LOW-LEVEL LASER THERAPY AND AEROBIC EXERCISE TRAINING ON ARTICULAR CARTILAGE IN AN EXPERIMENTAL MODEL OF OSTEOARTHRITIS IN RATS

Assis L¹, Siqueira A¹, Claudino V¹, Domingues H¹, Tim C¹, Renno ACM - ¹UNIFESP

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Pinto NC	CO.50, CO.56	Souza AC	PT.14
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Silva GFBL	PT.26		
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