Thursday July 11, 2013
Room 1

Chairpersons: Ishikawa I & Nammour S

- 9.00-9.30 Prof Aldo Brugnera Junior
  Laser Phototherapy (LPT) in Dentistry - scientific background and clinical cases presentation

- 9.30-9.45 Aslihan Usumez*, Beyhan Cengiz, Serdar Oztuzcu, Tuncer Demir, Mutan Hamdi Aras, Norbert Gutknecht:
  Effects of laser irradiation at different wavelengths (660, 810, 980, 1064 nm) on mucositis in an animal model of wound healing

- 9.45-10.00 Margalit Meirav*, Ricotti Enrico*, Merigo Elisabetta, Fornaini Carlo, Meleti Marco, Manfredi Maddalena, Vescovi Paolo:
  Efficacy of lllt in swelling and pain control after the extraction of lower impacted third molars

- 10.00-10.15 Moore, T.J *, Mvula, B., Abrahamse, H.:
  The Role of LILI in the Differentiation of Adult Mesenchymal Stem Cells

10.15 – 10.45 : Coffee break

Chairpersons: Todea C & Yoshida K

- 10.45-11.15 Prof Carlo Fornaini:
  Er:YAG laser and adhesion

- 11.15-11.30 Zhegova G*, Rashkova M:
  SEM characteristics of Er-YAG laser prepared cavities and a marginal adaptation of dental restorations in permanent teeth

- 11.30-11.45 Adriana Barylyak*, Myron Uhryn, Victor Zinchenko:
  Nanolaser technology in treatment of dentine Hypersensitivity

- 11.45-12.00 Abolfazl Bagheri*, Dr. Zahra Dalili, Dr.Ghazaleh Delsooz Bahri, Nasim Saba:
  Determination of agreement between Diagnodent laser and
bitewing radiograph in diagnosis of dental caries among patients referred to the dental clinic of Guilan university of medical sciences.

- **12.00-12.15** Espanya D*, Espana AJ.:  
  Comparative study of the microtensile bond strength of dentin prepared with bur and Er,Cr:YSGG laser

- **12.15-12.30** Fadi Khuffash:  
  The effect of Er:YAG laser irradiation of the canal walls & fiber post on the bond strength of fiber post

- **12.30-13.00** Prof Norbert Gutknecht:  
  A Combined Endodontical Laser Supported Treatment Concept

**13.00 – 14.00 : Lunch**

**Chairpersons: Romeo U & Arnabat J**

- **14.00-14.30** Prof Paolo Vescovi:  
  Dental management of patients under bisphosphonate therapy. The role of the laser

- **14.30-15.00** Prof Antoni Espana:  
  Er,Cr:YSGG in oral surgery

- **15.00-15.15** Ishikawa I*, Okamoto T, Ando T.:  
  Blue-violet LED irradiation in combination with spongel application ameliorates socket bleeding of warfarin-taking patients

- **15.15-15.30** Peter Kleemann:  
  Nomenclature and Systematics of Laser Applications

  Comparative histological study of dentinopulpal responses in class I cavity treated by Er: YAG laser and conventional cavity preparations: An in vivo trial

- **15.45-16.00** Luisa Nowotny:  
  Description in the interface with Raman Witec of 3 self-etching adhesives in dentine irradiated at low fluences and unirradiated

- **16.00-16.15** Takaharu Chiba*, Shigeru Shoji:  
  Increase of closure in dentinal tubules by CO2 laser irradiation using nano calcium phosphate granules
• **16.15-16.30 Tzannou Efstratios:**
  Measuring psychological effects and pain or discomfort perception using the max mode of the Fotona Fidelis Er:YAG laser on patients in Class I fissure preparations: A secondary approach

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**16.30 – 17.00 : Coffee break**

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**Chairpersons: Merigo & Kornblit**

• **17.00-17.30 Prof Roeland De Moor:**
  The power of the bubble. A comparison between ultrasonic and laser activated irrigation

• **17.30-17.45 Barbieri C*, Monteiro L, Meleti M, Merigo E, Manfredi M, Fornaini C, Vescovi P:**
  Laser-assisted surgical management of oral leukoplakia. A histomorphometrical analysis of surgical margins

• **17.45-18.00 Martins MR*, Carvalho MF, Pina-Vaz I, Capelas JA, Martins MA, Gutknecht N:**
  The Role of the Er,Cr:YSGG laser in Apical Surgery

• **18.00-18.15 Nicolette Houreld:**
  Gene Expression Profile of Extracellular Matrix and Cell Adhesion Molecules in Human Fibroblasts in Response to Irradiation at 660nm

• **18.15-18.30 Leticia Helena Theodoro*, Erivan Clementino Gualberto Júnior, Mariellén Longo, Alvaro Francisco Bosco, Maria José Hitomi Nagata, Edilson Ervolino, Juliano Milanezi de Almeida, Valdir Gouveia Garcia:**
  Effects of LLLT on Periodontal healing in Experimentally Induced Periodontitis in Ovariectomized Rats
Thursday July 11, 2013 Room 2

Chairpersons: Fornaini C & Powell L

- 9.00-9.30 Prof Kenji Yoshida: 
  LLLT in the field of Oral and Maxillofacial Surgery

- 9.30-9.45 Ingmar Ingenegeren 
  Five years evaluation of worlds first implant bed preparation witout anaesthesia using laser and surgical guide after 3d planning for first mandibular molar replacement

- 9.45-10.00 Emad Kosaried*, Arash Rahimi: 
  The Application of Erbium Family Lasers in Treatment of Peri-implantitis

- 10.00-10.15 María-Alexandra Arévalo-Barrero*, José Arnabat-Domínguez, Antoni J. España-Tost: 
  Study of implant surfaces irradiated with Er,Cr:YSGG, Diode 940 nm and CO2 lasers

10.15 – 10.45 : Coffee break

Chairpersons: Brugnera A & Rocca JP

- 10.45-11.15 Prof Josep Arnabat: 
  Use of Er, Cr: YSGG laser in dentistry, state of the art

- 11.15-11.30 Rene Franzen: 
  Biophysics – understanding energy, power, selectivity and biological effects

- 11.30-11.45 Heidi Abrahamse: 
  Photodynamic cancer therapy: past, current and future advances

- 11.45-12.00 Parisi A*, Pedicchio F*, Merigo E, Fornaini C, Conti St, Ciociola T, Lagor G, Meleti M, Manfredi M, Vescovi P: 
  Photodynamic therapy. A sinergy between light and colors
The antimicrobial effectiveness of photodynamic therapy used as an adjunct to conventional endodontic retreatment: a clinical study

The Photodynamic therapy (PDT) of Oral Leukoplakias. Preliminary clinical results at one year follow up.

Treatment with laser of oral vascular malformations

13.00 – 14.00: Lunch

Chairpersons: Gaultier F & Espana A

14.00-14.30 Prof Jean-Paul Rocca:
Use of 915 and 1064 nm combined diode laser in dentistry:’’in vitro’’ and clinic study

14.30-15.00 Prof Carmen Todea:
Evidence based in laser assisted diagnostic in dentistry

15.00-15.15 Toni Zeinoun*, Rima Abou Tayeh:
Wound healing by CO2 Laser

15.15-15.30 Grolleron J*, Mareschi S, Raybaud H, Rocca JP:
Bone surgery and Er,Cr-YSGG laser

15.30-15.45 Matteo Fontana*, Elisabetta Merigo, Fabio Clini, Carlo Fornaini, Aldo Oppici:
Laser assisted protocols in Special Care Dentistry

15.45-16.00 Russo C*, Galanakis A, Palaia G, Tenore G, Libotte F, Romeo U:
Wound healing after laser biopsy: KTP vs CO2

16.00-16.15 Valerie G. A. Suter*, Hans Jörg Altermatt, Thomas Dietrich, Peter A. Reichart, Michael M. Bornstein:
A randomized, prospective clinical and histopathological analysis of 100 excisional biopsies of fibrous hyperplasias using CO2 laser comparing continuous wave and char-free modes

16.15-16.30 Goran Batinjan*, Irina Filipović Zore, Ivana Rupić, Ivona Bago Jurič, Dragana Gabrić Pandurić:
Use of diode laser after surgical removal of impacted lower third molars
Laser Frenectomy: a simplified and predictable operative technique
16.30-17.00 : Coffee break

Chairpersons: Navarro G & Ambrose C

• 17.00-17.30 Prof Elisabetta Merigo:
  Use of laser in oral soft tissues surgery

• 17.30-17.45 Esteves-Oliveira M*, Hurtz C, Eduardo CP, Wehner M:
  Conditioning of zirconia-reinforced ceramic surfaces with a nano pulsed laser

• 17.45-18.00 Ignasi Piulachs Lozada-Benavente:
  Comparative study of adhesion forces obtained on zirconia ceramic roughened with sandblasting methods and a CO2 laser

• 18.00-18.15 Diachuk D, Keulemans F, De Moor RJG:
  The effect of KTP and high power green LED bleaching on enamel microhardness

• 18.15-18.30 De Moor RJG*, Meire M, Verdaasdonk R:
  Influence of fiber tip design and endodontic irrigation solution on laser-activated cavitation with Er,Cr:YSGG
Friday July 12, 2013
Room 1

Chairpersons: Lynn Powell & Toni Zeinoun

- **9.00-9.30** Prof Norbert Gutknecht:
  Er,Cr:YSGG and 940 nm Diode laser supported Periodontal treatment concept

- **9.30-9.45** Harry Huiz Peeters*, Latief M:
  Radiographic Examination of Apical Extrusion of Root Canal Irrigants During Cavitation Induced by Er,Cr:YSGG Laser Irradiation: An In Vivo Study

- **9.45-10.00** Polenik Pavel:
  Laser assisted deposition of antibacterial nanoparticles into dentinal tubules

- **10.00-10.15** Peter Verheyen:
  Photon Stimulated Bleaching – The quest for the most innovative and effective tools

- **10.15-10.30** Fatima Zanin*, Mateus Windlina, Ana Paula Brugnera, Aldo Brugnera Junior:
  Clinical results of photochemical activation in the bleaching assisted process

**10.30-11.00** coffee break

Chairpersons: Gutknecht N & Svetlana Tarasenko

- **11.00-11.15** Blagovesta Yaneva*, Emiliya Karaslavova, Elena Firkova:
  Clinical and microbiological effectiveness of Er:YAG laser in chronic periodontitis

- **11.15-11.30** Vincent J*, España AJ, Arnabat J:
  Comparative study of the resistance to shear bond strentgh of two dentin adhesive systems by using Er:YAG laser with the same fluence. Study in Ex vivo.

- **11.30-11.45** Ralf Borchers:
  PDT with Perio Green®: First results of a multicenter study

- **11.45-12.00** Giovanni Olivi*, Maria Daniela Genovese:
  Laser Frenectomy: a simplified and predictable operative technique
Friday July 12, 2013
Room 2

Chairpersons: Roeland De Moor & Teodora Semkovska

- **9.00-9.30** Prof Roly Kornblit:
  Photodynamic Therapy in Endodontics, Periodontics and Oral Pathology

- **9.30-9.45** Piyamov Roman*, Tarasenko Svetlana:
  Combined application of erbium and diode lasers for treatment of patients suffered from periapical lesions

- **9.45-10.00** Alparslan Dilsiz*, Varol Canakci:
  The Clinical Effects of Biostimulation with Nd:YAG laser in the Treatment of Periodontal Abscess Teeth

- **10.00-10.15** Sara Ghadimi*, Bahman Seraj, Nasim Chinifroush:
  Treatment of Epulis Granulomatosa with Diode Laser in a Pediatric Patient

- **10.15-10.30** Uhryn Myron*, Barylyak Adriana:

10.30-11.00 coffee break

Chairpersons: Paolo Vescovi & Assem Soueidan

- **11.00-11.15** Teodora Semkovska:
  Comparative analysis of laser - assisted treatment of papillomas and fibromas with diode and Er YAG lasers

- **11.15-11.30** Petrini A*, Bellincampi MC, Rebaudi A, Perraro I:
  Management of an orthodontic clinical case: a multi-disciplinary approach using the LLLT

- **11.30-11.45** Evgrafova S, Tarasenko I.V, Tarasenko, L.G. Mazur, K.V. Mazur:
  The clinical-biochemical rationale for the use of surgical laser technology in treatment of verrucous leukoplakia

- **11.45-12.00** Arun Darbar* and Rita Darbar:
  Multiple wavelength use in trauma cases
• 12.00-12.15 Capocci M*, Leone V, Lerario F, Daniele D, Palaia G, Kornblit R, Ottolenghi L:
The use of 980 nm diode laser in non-surgical decontamination of periodontal pockets: a preliminary clinical study

Room 1

12.15 Congress Closure & awards ceremony
POSTER SESSION

Thursday July 11, 2013
14:30

1) LASER DOPPLER PULP VITALITY EVALUATION AFTER DIFFERENT TOOTH BLEACHING PROCEDURES
Şarpe A, Todea C, Drăganescu G, Vitez B

2) EVALUATION OF ENAMEL BY SCANNING ELECTRON MICROSCOPY GREEN LED ASSOCIATED TO HYDROGEN PEROXIDE 35% FOR DENTAL BLEACHING
Fátilma A. A. Zanina,b,d, Susana C. P. S. de Oliveira a,b, Juliana S. C. Monteiro a,b,e, Gustavo M. P. Santosc, Fernando J. P. Sampaio a,b, Anderson F. S. Miranda c, Rafael Araújo Gomes Júnior c , Maria F. M. Gesteira a,b, Marcos A. Vannier-Santos c and Antônio L. B. Pinheiro a,b,d.

3) INFLUENCE OF PULSE EMISSION MODE OF CO2 LASER AND THE ACIDULATED PHOSPHATE FLUORIDE IN THE CONTROL OF ENAMEL DEMINERALIZATION
Ana Bárbara de Araújo Loiola, Carolina Patrícia Aires, Taisa Penazzo Lepri, Antônio Luiz Rodrigues Junio, Silmara Aparecida Milori Corona

4) EFFECT OF THE COMBINATION OF CO2 LASER AND ACIDULATED PHOSPHATE FLUORIDE ON THE INHIBITION OF ROOT SURFACE CARIES ADJACENT TO COMPOSITE RESIN RESTORATIONS – IN VITRO STUDY.
Araújo FC, Daniel LC, Zancopé BR, Hanashiro FS, Nobre-dos Santos M, Youssef MN, Souza-Zaroni WC

5) EFFECT OF CO2 LASER, COMBINED OR NOT TO DIFFERENT FLUORIDE PREPARATIONS, ON THE INHIBITION OF ROOT CARIES – IN VITRO STUDY
Souza-Zaroni WC*, Moraes M, Rodrigues SR, Hanashiro FS, Youssef MN.

6) COMPARISON OF PREVENTIVE EFFECT OF DIFFERENT TREATMENTS ON ENAMEL EROSION
Juliana dos Reis Derceli*, Juliana Jendiroba Faraoni-Romano, Regina Guenka Palma-Dibb
7) DIRECT PULP CAPPING AND RECONSTRUCTION WITH A COMPOSITE ONLAY. A CASE REPORT

8) IN SITU ANALYSIS OF THE EFFECT OF CO2 LASER IRRADIATION ON ENAMEL SURFACE ERODED USING SCANNING ELECTRON MICROSCOPY

9) EFFECT OF ER: YAG LASER IRRADIATION ON ENAMEL SURFACE ERODED: ANALYSIS BY SCANNING ELECTRON MICROSCOPY
*R. S. Scatolin(1), V. Colucci(1), T. P. Lepri(1), A. K. A. França(2), L. C. Maia(2), M. C. Borsatto(1), R. Galo(1), S. A. M. Corona

10) ER:YAG LASER-ASSISTED ROOT TIP RETROPREPARATION. AN IN VITRO STUDY SEM INVESTIGATION
Balabuc C, Todea C, Locovei C, Raduta A

11) ER:YAG LASER – ASSISTED ROOT CANAL DEBRIDEMENT

12) PHOTODYNAMIC THERAPY FOR ENDODONTIC DISINFECTION: ANTIBACTERIAL EFFECTS IN ROOT CANALS ARTIFICIALLY INFECTED WITH ENTEROCOCCUS FAECALIS.
Cappellani D*, Berlutti F, Salapata Y, Tamma N, Tenore G, Romeo U

13) LASER ASSISTED ENDODONTIC TREATMENT: AN AUTO TRANSPLANTATION CLINICAL CASE
Martins MR*, Lima RC, Felino A, Carvalho MF, Gutknecht N.

14) EFFECTS OF LOW LEVEL LASER AND THERAPEUTIC ULTRASOUND ON TISSUE REPAIR IN WISTAR RATS: HISTOPATHOLOGICAL STUDY AND TRANSFORMING GROWTH FACTOR-B1 EXPRESSION
Fernando Monteiro Aarestrup. Karine Helena de Souza Lopes, Ana Cristina Moura Gualberto, Beatriz Julião Vieira Aarestrup*

15) CLINICAL EFFECTS OF LOW LEVEL LASER THERAPY ON REGENERATIVE PERIODONTAL TREATMENT IN INTRABONY DEFECTS
Gabriela Beresescu*, Adriana Monea, Monica Monea
16) ASSOCIATION PHENOTHIAZINE AND LASER ON GROWTH OF C. TROPICALIS FLUCONAZOLE-RESISTANT
Aldo Brugnera Junior a,b,d, Susana C. P. S. de Oliveira a,b, Rafael Araújo Gomes Júnior c, Juliana S. C. Monteiro a,b,e, Gustavo M. P. Santos c, Fernando J. P. Sampaio a,b, Anderson F. S. Miranda c, Maria F. M. Gesteira a,b, Fátima A. A. Zanin ,b,d, Marcos A. Vannier-Santos c and Antônio L. B. Pinheiro a,b,d.

17) THE LASER ANALGESIC EFFECT IN A CASE OF A CHRONIC SINUSITIS

18) LOW-LEVEL LASER REDUCES THE PRODUCTION OF TNF-Α, IFN-Γ, AND IL-10 INDUCED BY OVA.
Rodrigo Guerra Oliveira, Ana Paula Ferreira, Andréa Junqueira Côrtes, Beatriz Julião Vieira Aarestrup, Luiz Carlos de Andrade, Fernando Monteiro Aarestrup*

19) LOW-LEVEL LASER THERAPY INHIBITS THE EXPRESSION OF CYCLOOXYGENASE 2 IN A MODEL OF DTH TO OVA
Rodrigo Guerra de Oliveira; Andréa Junqueira Côrtes; Beatriz Julião Vieira Aarestrup, Fernando Monteiro Aarestrup

20) LOW-LEVEL LASER THERAPY MODULATES THE EXPRESSION OF CYCLOOXYGENASE-2 IN SKIN LESIONS IN NOD MICE
Beatriz Julião Vieira Aarestrup, Carolina de Lourdes Julião Vieira; Maria das Graças Afonso Miranda Chaves, Fernando Monteiro Aarestrup

21) EFFECTIVENESS OF PHOTOCOAGULATION USING AN ND:YAG LASER IN THE TREATMENT OF VASCULAR MALFORMATIONS OF THE ORAL REGION
Hiroaki SUZUKI*, DDS, PhD, Tomoko ASAI, DDS, Junichiro TAKEUCHI, DDS, PhD, and Takahide KOMORI, DDS, PhD.

22) POTENTIALLY MALIGNANT DISORDERS OF THE ORAL MUCOSA TREATED WITH CO2 LASER. A PRELIMINARY STUDY OF POSTOPERATIVE COMPLICATIONS.

23) POST OPERATIVE DISCOMFORT AFTER SURGICAL REMOVAL OF ORAL BENIGN LESIONS USING ND:YAG LASER AND TOPICAL APPLICATIONS OF HYALURONIC ACID + AMINOACIDS VS HYALURONIC ACID VS PLACEBO, A DOUBLE BLIND RCT.

24) FRENUECTOMY OF A SHORT LINGUAL FRENULUM. A COMPARATIVE STUDY BETWEEN TWO WAVELENGTHS.
25) ESTHETIC TREATMENT OF GINGIVAL HYPERPIGMENTATION WITH KTP LASER: TWELVE MONTHS OF PATIENT FOLLOW-UP
Alparslan Dilsiz1 Varol Canakci2

24) COMPARISON OF DIODE LASER AND CONVENTIONAL TECHNIQUE FOR SOFT TISSUE ORAL SURGERY
Dragana Gabrić Pandurić*, Vlaho Brailo, Mato Sušić, Davor Katanec, Aleksandar Milenović, Ivona Bago Jurić, Vanja Vučićević Boras

25) LASER-ASSISTED SURGICAL MANAGEMENT OF ORAL LEUKOPLAKIA: A FOLLOW-UP STUDY
Luis Silva Monteiro*; Cinzia Barbieri; Marco Meleti; Paolo Vescovi

26) LASER INDUCED HISTOLOGICAL CHANGES IN BIOPSIES PERFORMED BY THREE DIFFERENT LASER WAVELENGTHS: CO2, ER:YAG AND KTP. HISTOLOGICAL IN VITRO EVALUATION.

27) THE APPLICATIONS OF DIODE LASER IN FRENECTOMY: CLINICAL CASES
Onjen TAK*, Bahadir KAN, Ulkem CILASUN

28) ANALYSIS OF POSTURAL CHANGE IN CERVICAL VERTEBRAE AND MASTICATORY MUSCLE TONE BEFORE AND AFTER LASER ASSISTED LINGUAL FRENULOTOMY
G. Žago, G. Zanotti, M. Zanotti, G. Zanotti*

29) THE EFFECT OF LOW LEVEL LASER THERAPY ON ORTHODONTIC CANINE RETRACTION RATE
Adriana Monea, Mariana Păcurar, Gabriela Bereșescu, Monica Monea, Doru Roman

30) PHOTODYNAMIC THERAPY AT PATIENTS WITH HYPERPLASTIC GINGIVITIS
Y. Chumakova, G. Vyshnevská, L. Troyanenko

31) EVALUATION OF PHOTODYNAMIC THERAPY PHENOTHIAZINE AND USING LASER LIGHT (660NM) ON CULTURES OF MURINE MELANOMA – STUDY IN VITRO
Aldo Brugnera Junior a,b,d, Juliana S. C. Monteiro a,b,e, Anderson F. S. Miranda c Susana C. P. S. de Oliveira a,b, Gustavo M. P. Santos c, Fernando J. P. Sampaio a,b, Rafael Araújo Gomes Júnior c, Maria F. M. Gesteira a,b, Fátima A. A. Zanin a,b,d, Marcos A. Vannier-Santos c and Antônio L. B. Pinheiro
32) EFFECT OF APDT IN TREATMENT OF INDUCED PERIODONTITIS IN RATS TREATED WITH 5-FLUOROURACIL

33) IN VITRO INFLUENCE OF PHOTODYNAMIC ANTIMICROBIAL CHEMOTHERAPY ON STAPHYLOCOCCUS AUREUS BY USING PHENOTHIAZINES DERIVATIVES ASSOCIATED WITH LASER/LED LIGHT.
Fátima A. A. Zanin a,b,d, Juliana S. C. Monteiro a,b,e, Susana C. P. S. de Oliveira a,b, Gustavo M. P. Santosc, Anderson F. S. Miranda a,b ,Fernando J. P. Sampaio a,b, Rafael Araújo Gomes Júnior c , Maria F. M. Gesteira a,b, Aldo Brugnera Junior a,b,d, Marcos A. Vannier-Santos c e Antônio L. B. Pinheiro a,b,d

34) LASER WELDING AND SYNCRISTALLIZATION TECHNIQUES CAMPARISON: "IN VITRO" AND "EX VIVO" STUDY.
Carmelo Guarda * Damiano Leitempergher * Guido Mondini*