



# Scientific programme

MONDAY 17<sup>th</sup> JUNE - SATURDAY 22<sup>nd</sup> JUNE 2019



## MONDAY 17<sup>th</sup>, JUNE 2019

- 09:00-18:00 **EBO Examination**
- 12:00-16:00 **EFOSA Council Meeting**
- 11:00-18:00 **EPSOS Meeting**

## TUESDAY 18<sup>th</sup>, JUNE 2019

- 08:30-15:15 **Postgraduate Course**
  - Evolution of Lingual Straight-Wire Technique  
*Giuseppe Scuzzo (Italy), Kyoto Takemoto (Japan)*
- 09:00-15:30 **Pre Congress Course**
  - Absolute Anchorage in Orthodontics  
*Junji Sugawara (Japan)*
- 09:00-15:30 **EFOSA General Assembly**
- 09:00-17:00 **EBO Examination**
- 09:00-10:15 **NEBEOP Meeting**
- 10:30-14:00 **14<sup>th</sup> European Orthodontic Teachers' Forum**
- 12:00-15:00 **EOS Opening Council Meeting**
- 17:00-18:30 **OPENING CEREMONY**
- 18:30-21:30 **Get Together - Trade Exhibition**

## WEDNESDAY 19<sup>th</sup>, JUNE 2019

### 09.00-09.45 HOUSTON ORAL PRESENTATIONS

#### HO 01

EVALUATION OF BIOCHEMICAL AND STRUCTURAL CHANGES IN THE PERIODONTAL LIGAMENT AFTER ORTHODONTIC TOOTH MOVEMENT BY MEANS OF MICRO-RAMAN SPECTROSCOPY

*Fabrizia d'Apuzzo<sup>1</sup>, Maria Lepore<sup>2</sup>, Carlo Camerlingo<sup>3</sup>, Vincenzo Grassia<sup>1</sup>, Letizia Perillo<sup>1</sup>.*  
Departments of <sup>1</sup>Orthodontics and <sup>2</sup>Experimental Medicine, University of Campania «Luigi Vanvitelli», Naples and <sup>3</sup>Superconductors, oxides and other innovative materials and devices, CNR-SPIN, Naples, Italy

#### HO 02

ASSOCIATION BETWEEN QUALITY OF LIFE AND SEVERITY OF PROFILE DEVIATION IN PROSPECTIVE ORTHOGNATHIC PATIENTS

*Minna Kämäräinen<sup>1</sup>, Outi Alanko<sup>2</sup>, Anna-Liisa Svedström-Oristo<sup>3</sup>, Timo Peltomäki<sup>1</sup>.*  
<sup>1</sup>Institute of Dentistry, University of Eastern Finland, Kuopio, <sup>2</sup>Faculty of Social Sciences (Psychology), University of Tampere and <sup>3</sup>Institute of Dentistry, University of Turku, Finland

#### HO 03

CLEFT SUSCEPTIBILITY LOCI CONTRIBUTE TOWARDS VARIATIONS IN NORMAL LIP PHENOTYPES

*Caryl Wilson-Nagrani<sup>1</sup>, Lavinia Paternoster<sup>2</sup>, Mary Ward<sup>3</sup>, Stephen Richmond<sup>1</sup>.*  
<sup>1</sup>Department of Orthodontics, Cardiff University, <sup>2</sup>Department of Genetic Epidemiology, Bristol University and <sup>3</sup>Bristol University, U.K.

### 09:45-10:30 SHELDON FRIEL MEMORIAL LECTURE

- Quo Vadis Orthodontic Treatment: A Glance to the Past, A Focus on the Future  
*Lee W. Graber (USA)*

### 10:30-11:00 Coffee break in exhibition hall



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## ■ GENETICS and ORTHODONTICS

11:00-11:30

### KEYNOTE LECTURE

#### K01

MOLECULAR BASIS AND DIAGNOSIS OF MIDLINE ANOMALIES OF THE FOETAL BRAIN

*Véronique David*. Unit of Molecular Genetics and Genomics, Hospital Pontchaillou, Rennes, France

11:30-12.30

### SHORT ORAL PRESENTATIONS

#### OP 01

GENETIC POLYMORPHISMS OF THE GROWTH HORMONE RECEPTOR GENE AND MANDIBULAR MORPHOLOGY

*Martha Torres<sup>1</sup>, Maria Mercedes Torres<sup>2</sup>*. <sup>1</sup>Facultad de Odontología, Universidad Central de Venezuela, Caracas, Venezuela and <sup>2</sup>Departamento de ciencias biológicas Universidad de los Andes, departamento de patología y laboratorios Fundación Santa Fe de Bogotá, Colombia

#### OP 02

DOES TARGETING THE HEME-OXYGENASE SYSTEM DETERMINE THE DEVELOPMENT OF CONGENITAL MALFORMATIONS AND ABORTION VIA MODULATION OF THE INFLAMMATORY RESPONSE?

*Maarten Suttorp, Frank Wagener, Anne-Marie Kuijpers-Jagtman*. Orthodontics and Craniofacial Biology, RadboudUMC, Nijmegen, Netherlands

#### OP 03

HERITABILITY OF DENTAL AND SKELETAL CEPHALOMETRIC VARIABLES IN MONOZYGOUS AND DIZYGOSUS TWINS

*Fariborz Amini<sup>1</sup>, Ali Borzabadi Farahani<sup>2</sup>, Parviz Amini<sup>3</sup>*. <sup>1</sup>Department of Orthodontics, Faculty of Dentistry, Tehran Medical Sciences, Islamic Azad University, Iran, <sup>2</sup>Department of Orthodontics, University of Tor Vergata, Rome, Italy and <sup>3</sup>Department of Prosthodontics, Kerman UNiversity of Medical Science, Iran

#### OP 04

IMPACT OF GENETICS AND ENVIRONMENTAL FACTORS ON THIRD MOLAR AGENESIS

*Giedre Trakiniene, Antanas Šidlauskas, Dalia Smailien, Kristina Lopatiene, Tomas Trakinis*. Lithuanian University of Health Sciences, Kaunas, Lithuania

#### OP 05

ELICITING ADOLESCENT AND PARENT PREFERENCES FOR HYPODONTIA CARE

*Sophy Barber<sup>1</sup>, Hilary Bekker<sup>2</sup>, David Meads<sup>2</sup>, Balvinder Khambay<sup>3</sup>, Sue Pavitt<sup>4</sup>*. <sup>1</sup>Orthodontic Department, Leeds Teaching Hospitals NHS Trust, <sup>2</sup>Leeds Institute of Health Science and <sup>4</sup>School of Dentistry, University of Leeds, and <sup>3</sup>Orthodontic Department, University of Birmingham, U.K.

12:30-13:30

### Lunch Break

12:40-13:20

### SYMPOSIUM

## ■ GENETICS and ORTHODONTICS – CLEFT PALATE

13:30-14:00

### KEYNOTE LECTURE

#### K02

PALATE PATIENTS: HOW TO SIMPLIFY TREATMENT AND TO OPTIMIZE LONG-TERM OUTCOMES?

*Aurélien Majoureau-Bouriez*. Maxillo-Facial and Plastic Surgery Department, Necker Children University Hospital, Paris France

14:00-15:00

### SHORT ORAL PRESENTATIONS

#### OP 06

DENTAL AGENESIS IN COMPLETE UNILATERAL AND BILATERAL CLEFT LIP AND PALATE PATIENTS INSIDE AND OUTSIDE THE DEFECT AREA

*Giovanni Bruno, Alberto De Stefani, Antonio Gracco*. University of Padua, Italy

#### OP 07

ASSOCIATED CONGENITAL MALFORMATIONS AND SYNDROMES IN PATIENTS WITH CLEFT LIP AND/OR PALATE

*Elisabeth Reichardt<sup>1</sup>, Björn Theuerkauf<sup>2</sup>, Charlotte Opitz<sup>3</sup>, Theodosia Bartzela<sup>1</sup>*. <sup>1</sup>Department of Orthodontics, Dentofacial Orthopedics and Pedodontics, Charité -Universitätsmedizin Berlin and Private Orthodontic Practices, <sup>2</sup>Falkensee and <sup>3</sup>Berlin, Germany



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## OP 08

GENETIC STRATEGY IN MULTIDISCIPLINARY TREATMENT IN CLEFT LIP AND PALATE  
*Maria Chernobrovkina, Alexey Silin.* Department of General Dentistry, North-Western State Medical University n.a. I.I. Mechnikov, Saint-Petersburg, Russia

## OP 09

TREATMENT OF INFANTS WITH SYNDROMIC ROBIN SEQUENCE WITH THE TÜBINGEN PALATAL PLATE – A MINIMALLY INVASIVE TREATMENT OPTION  
*Silvia Müller-Hagedorn<sup>1</sup>, Wolfgang Buchenau<sup>2</sup>, Joerg Arand<sup>2</sup>, Margit Bacher<sup>3</sup>, Christian Poets<sup>1</sup>.* Departments of <sup>1</sup>Orthodontics and <sup>2</sup>Neonatology, Interdisciplinary Center for Craniofacial Malformations, University of Tübingen and <sup>4</sup>BIP Orthodontic Practice, Tübingen, Germany

## OP 10

THREE-DIMENSIONAL SKELETAL AND AIRWAY CHANGES IN CLEFT PATIENTS WITH A CLASS III MALOCCLUSION TREATED WITH BONE ANCHORED MAXILLARY PROTRACTION: A 3.5 YEAR FOLLOW-UP  
*Ralph Steegman<sup>1</sup>, Annemarijke Faye Klein Meulekamp<sup>1</sup>, Arjan Dieters<sup>1</sup>, Johan Jansma<sup>2</sup>, Yijin Ren<sup>1</sup>.* Departments of <sup>1</sup>Orthodontics and <sup>2</sup>Oral Maxillofacial Surgery, UMCG, Groningen, Netherlands

15:00-15:30 Coffee break in exhibition hall

## ■ FREE TOPICS

15:30-16:00 KEYNOTE LECTURE

## K02

SPLINTLESS ORTHOGNATHIC SURGERY  
*Patrick Goudot.* Maxillofacial Department, University Hospital, Pitié Salpêtrière, Paris, France

16:00-17:00

## SHORT ORAL PRESENTATIONS

## OP 11

DO INFANT CLEFT DIMENSIONS AND TIMING OF HARD PALATE CLOSURE AFFECT PALATAL MORPHOLOGY IN UNILATERAL CLEFT LIP AND PALATE PATIENTS?  
*Susanna Botticelli<sup>1</sup>, Annelise Kuseler<sup>2</sup>, Paolo M Cattaneo<sup>1</sup>, Maja Ovsenik<sup>3</sup>, Thomas Klit Pedersen<sup>4</sup>.* <sup>1</sup>Section of Orthodontics-Department of Dentistry, University of Aarhus, <sup>2</sup>Cleft Lip and Palate Department, Institut for Kommunikation og Handicap, Aarhus C, Denmark, <sup>4</sup>Department of Orthodontics and Dentofacial Orthopedics, University of Ljubljana, Slovenia and <sup>5</sup>Department of Oral and Maxillofacial Surgery, Aarhus University Hospital, Denmark

## OP 12

IS THERE A RELATIONSHIP BETWEEN NASAL CHANGES AND PATIENTS' PERCEPTION AFTER LE FORT I SURGERY?  
*Azize Atkan, Ayca Arman Ozcipcici.* Department of Orthodontics, Baskent University, Ankara, Turkey

## OP 13

RETROSPECTIVE INVESTIGATION OF ALAR BASE CINCH SUTURE EFFECTS ON LONG-TERM NASOLABIAL ANGLE CHANGES FOLLOWING MAXILLARY OSTEOTOMY  
*Renna Mahsoub<sup>1</sup>, Farhad Naini<sup>1</sup>, Sameer Patel<sup>2</sup>, David Wertheim<sup>3</sup>, Helen Witherow<sup>1</sup>.* <sup>1</sup>Maxillofacial Unit, St George's Hospital, London, <sup>2</sup>Dental Institute, King's College London, and <sup>3</sup>Faculty of Science, Engineering and Computing, Kingston University, Surrey, U.K.

## OP 14

CLOSED VERSUS OPEN SURGICAL EXPOSURE OF PALATALLY DISPLACED CANINES: ERUPTION TIME, COMPLICATIONS AND PATIENT PERCEPTIONS; A RANDOMIZED CONTROLLED TRIAL  
*Margitha Björksved<sup>1</sup>, Björn Svensson<sup>1</sup>, Rune Lindsten<sup>2</sup>, Anders Magnusson<sup>2</sup>, Farhan Bazargani<sup>3</sup>.* <sup>1</sup>Department of Medical Science, University of Örebro, <sup>2</sup>Department of Orthodontics, The Institute for Postgraduate Dental Education, Jönköping and <sup>3</sup>Department of Orthodontics, Postgraduate Dental Education Center, Örebro, Sweden

## OP 15

AESTHETIC OUTCOME OF AUTOTRANSPLANTATION OF PREMOLARS TO THE ANTERIOR MAXILLA  
*Enya Kuppens<sup>1</sup>, Marcel Linssen<sup>2</sup>, Dick Barendregt<sup>2</sup>, Liesbeth Temmerman<sup>1</sup>, Guy De Pauw<sup>1</sup>.* <sup>1</sup>Department of Orthodontics, University Hospital Ghent, Belgium and <sup>2</sup>Proclin Rotterdam, Netherlands

Evening : President's reception



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MONDAY 17<sup>th</sup> JUNE - SATURDAY 22<sup>nd</sup> JUNE 2019



## THURSDAY 20<sup>th</sup>, JUNE 2019

### ■ LINGUAL ORTHODONTICS

08:30-09:00 KEYNOTE LECTURE

#### K04

THREE WAYS TO GO - FROM GOOD TO GREAT

*Giuseppe Scuzzo*. Ferrara University, Italy and Complutense University, Madrid, Spain

09:00-10:20 SHORT ORAL PRESENTATIONS

#### OP 16

COMPARISON OF CLINICAL EFFECTS OF ORTHODONTIC TREATMENT USING LABIAL AND LINGUAL SELF-LIGATING BRACKETS

*Gulistan Yigidim Efeoglu<sup>1</sup>, Ilknur Veli<sup>2</sup>*. <sup>1</sup>Oral and Dental Care, Izmir Katip Celebi University Ataturk Education and Research Hospital and <sup>2</sup>Department of Orthodontics, Izmir Katip Celebi University, Izmir, Turkey

#### OP 17

COMPARATIVE ASSESSMENT OF FULLY CUSTOMIZED LINGUAL APPLIANCES AND LABIAL BRACKET SYSTEMS: AN EXPERIMENTAL INVESTIGATION

*Chrystalla Kyprianou<sup>1</sup>, Athina Chatzigianni<sup>2</sup>, Christoph Bourauel<sup>1</sup>*. <sup>1</sup>Department of Oral Technology, University of Bonn, Germany and <sup>2</sup>Department of Orthodontics, Aristotle University of Thessaloniki, Greece

#### OP 18

ASSESSMENT OF CLASS II CORRECTION BY MAXILLARY DISTALIZATION WITH CUSTOMIZED LINGUAL APPLIANCES USING CORTICAL ANCHORAGE DEVICES\*\*\*

*Dirk Wiechmann<sup>1</sup>, Frauke Beyling<sup>2</sup>, Elisabeth Klang<sup>2</sup>*. <sup>1</sup>Department of: Orthodontics, Hannover Medical School and <sup>2</sup>Private Practice, Bad Essen, Germany

#### OP 19

UPPER INCISOR ROOT TORQUE DURING SPACE CLOSURE AND CLASS II CORRECTION IN CLASS II DIVISION 2 PATIENTS WITH GENERALIZED SPACING

*Ons Alouini<sup>1</sup>, Rainer Schwestka-Polly<sup>1</sup>, Michael Knösel<sup>2</sup>, Monique Chouvin<sup>3</sup>*. Departments of Orthodontics, <sup>1</sup>Hannover Medical School, Germany, <sup>2</sup>University Medical Center, Göttingen, Germany and <sup>3</sup>Université de Montpellier, France

#### OP 20

BREAKAGE RATE OF A FULLY CUSTOMIZED LINGUAL APPLIANCE: A RETROSPECTIVE STUDY

*Nour E. Tarraf*. Department of Orthodontics, The University of Sydney, Surry Hills, Australia

#### OP 21

PREFABRICATION OF FIXED LINGUAL RETAINERS BEFORE DEBONDING OF LINGUAL FIXED APPLIANCES USING DIGITAL IMPRESSIONS: AN IN VITRO STUDY

*Cihan Aydo an*. Department of Orthodontics, Van Yuzuncu Yil University, Van, Turkey

10:00-10:30 KEYNOTE LECTURE

#### K04

LINGUAL ORTHODONTICS AND THREE-DIMENSIONAL IMAGING

*Anna Kari Hajati*. Ortodonti Akademin, Stockholm, Sweden

10:30-11:00 Coffee break in exhibition hall

### ■ FREE TOPICS

11:00-12:00 SHORT ORAL PRESENTATIONS

#### OP 22

COMPUTER-AIDED INDIRECT BONDING VERSUS DIRECT BONDING: COMPARISON OF BONDING TIME, IMMEDIATE FAILURES AND COST-MINIMIZATION ANALYSIS

*Izabela Czolgosz<sup>1</sup>, Marie Cornelis<sup>2</sup>, Paolo Cattaneo<sup>2</sup>*. <sup>1</sup>Private Practice, Torun, Poland and <sup>2</sup>Orthodontic Section, Aarhus University, Denmark



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## OP 23

EVALUATING THE CLINICAL ACCURACY OF A CUSTOMIZED LABIAL PRESCRIPTION WIRE AND BRACKET SYSTEM: A RETROSPECTIVE STUDY

*Kenneth Lim<sup>1</sup>, Hashmat Popat<sup>2</sup>, David Manton<sup>2</sup>, Jonathan Mangum<sup>1</sup>, Paul Schneider<sup>1</sup>.*

<sup>1</sup>Departments of Orthodontics and <sup>2</sup>Paediatrics, University of Melbourne, Australia

## OP 24

OPTIMIZED PERIODONTAL REGENERATION FOR ORTHODONTIC MOVEMENT MAY YIELD REGENERATED BONE FOR ORTHODONTIC DEVELOPMENT

*Junichi Watahiki.* Nihombashi Adult Orthodontic Center, Aqua Nihombashi Dental Clinic, Tokyo, Japan

## OP 25

DIAGNOSIS AND PLANNING OF ORTHODONTIC TREATMENT IN PATIENTS WITH DIFFERENT GINGIVAL BIOTYPES AND MALOCCLUSIONS

*Anastasia Karpanova<sup>1</sup>, Olga Arsenina<sup>1</sup>, Alexander Grudyanov<sup>2</sup>, Andrey Nadtochiy<sup>3</sup>, Anna Popova<sup>1</sup>.* Departments of <sup>1</sup>Orthodontics, <sup>2</sup>Periodontology and <sup>3</sup>Radiodiagnostics, Central Research Institute of Dental and Maxillofacial Surgery, Moscow, Russia

## OP 26

HERBST-MULTIBRACKET TREATMENT: DOES THE AMOUNT OF LOWER INCISOR POSITION CHANGE CORRELATE WITH THE DEVELOPMENT OF LABIAL GINGIVAL RECESSIONS?

*Sonja Suedwasser, Niko Bock, Sophia Baier, Julia Jost, Sabine Ruf,* Department of Orthodontics at Justus-Liebig-University Giessen, Germany

12:00-14:00 Lunch Break

## EJO OPEN SESSION

12:30-13:30 Speakers

## OCCLUSION - STABILITY

14:00-14:30 KEYNOTE LECTURE

### K04

SPACE CLOSURE IN PATIENTS WITH MISSING UPPER INCISORS: HOW TO CORRECT THE OCCLUSION FOR LONG-TERM HEALTH

*Marco Rosa.* Private orthodontic practice, Trento and Insubria University, Varese, Italy

14:30-15:30 SHORT ORAL PRESENTATIONS

### OP 27

OCCLUSAL CONTACT AREA CHANGES WITH DIFFERENT RETENTION PROTOCOLS: ONE-YEAR FOLLOW-UP

*Burçak Kara<sup>1</sup>, Berza Yılmaz<sup>2</sup>.* <sup>1</sup>Private practice, Istanbul and <sup>2</sup>Department of Orthodontics, Bezmialem Vakif University, Istanbul, Turkey

### OP 28

IMPACT OF POST-ORTHODONTIC DENTAL OCCLUSION ON MASTICATORY PERFORMANCE

*Jocelyne Shim, Eszter Somogyi-Ganss, Angelos Metaxas, Iacopo Cioffi.* University of Toronto, Faculty of Dentistry, Canada

### OP 29

PREDICTIVE FACTORS FOR LONG-TERM (≥15 YEARS) STABILITY AFTER CLASS II TREATMENT

*Niko Bock, Sabine Ruf.* Department of Orthodontics, University of Giessen, Germany

### OP 30

LONG-TERM SAGITTAL STABILITY OF THE SURGERY FIRST APPROACH FOR MANDIBULAR PROGNATHISM: A 5-YEAR FOLLOW-UP

*Peter Tran<sup>1</sup>, Junji Sugawara<sup>2</sup>, Hiroshi Nagasaka<sup>2</sup>, Paul Schneider<sup>1</sup>.* <sup>1</sup>University of Melbourne, Australia and <sup>2</sup>SAS Orthodontic Center, Ichiban-Cho Dental Clinic, Sendai, Japan

### OP 31

DEVELOPMENT AND VALIDATION OF A PREDICTION MODEL FOR LONG-TERM STABILITY OF EARLY TREATMENT OF CLASS III MALOCCLUSION

*Bernardo Souki<sup>1</sup>, Paola Cozza<sup>2</sup>, Lorenzo Franchi<sup>3</sup>.* <sup>1</sup>Pontifical Catholic University of Minas Gerais, Belo Horizonte, Brazil, <sup>2</sup>University of Rome Tor Vergata, Italy and <sup>3</sup>University of Florence, Italy



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15:30-16:00

## KEYNOTE LECTURE

### K04

LONG-TERM STABILITY FOLLOWING THE SURGERY FIRST APPROACH IN CLASS III PATIENTS

*Junji Sugawara*. Department of Interdisciplinary Dentofacial Therapy, Sendai Aoba Clinic, Sendai, Jap

16:00-16:30

Coffee break in exhibition hall

16:30-17:30

## POSTER SESSION

Evening : Disco

Past President and Council dinner

FRIDAY 21<sup>th</sup>, JUNE 2019

## ■ OCCLUSION - STABILITY

08:30-09:00

## KEYNOTE LECTURE

### K04

SURGICAL MANAGEMENT OF TEMPOROMANDIBULAR JOINT DISORDERS WHEN TRADITIONAL CONSERVATIVE MANAGEMENT FAILS

*Esben Aagaard*. Private Hospital, Copenhagen Denmark.

09:00-10:00

## SHORT ORAL PRESENTATIONS

### OP 32

THE STABILITY OF SURGICALLY ASSISTED RAPID MAXILLARY EXPANSION: A SYSTEMATIC REVIEW

*Nikhil Gogna, Ama Johal, Pratik Sharma*. Department of Orthodontics, QMUL, Royal London Dental Hospital, U.K.

### OP 33

PREVALENCE OF AN ELONGATED STYLOID PROCESS AND EAGLE'S SYNDROME FOR THE DIFFERENTIAL DIAGNOSIS OF TEMPOROMANDIBULAR DISORDERS

*Alberto De Stefani, Giovanni Bruno, Antonio Gracco*. University of Padua, Italy

### OP 34

EVALUATION OF THE RELATIONSHIP BETWEEN TEMPOROMANDIBULAR JOINT DYSFUNCTION AND ORAL HEALTH PROFILE IN ORTHODONTIC PATIENTS WITH DENTAL MALOCCLUSIONS

*Ahmet Karaman<sup>1</sup>, Kutalmı Buyuk<sup>2</sup>, Esra Genc<sup>2</sup>*. Departments of Orthodontics, <sup>1</sup>Istanbul Aydın University, Istanbul and <sup>2</sup>Ordu University Faculty of Dentistry, Turkey



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## OP 35

FACIAL ASYMMETRY IN JUVENILE IDIOPATHIC ARTHRITIS PATIENTS: DIAGNOSTIC VALUE OF CLINICAL ASSESSMENT AND THREE-DIMENSIONAL PHOTOGRAPHY

*Joëlle M Bernini, Spyridon N Papageorgiou, Martina Eichenberger, Theodore Eliades, Raphael Patcas.* Clinic of Orthodontics and Pediatric Dentistry, Center of Dental Medicine, University of Zurich, Switzerland

## OP 36

EVALUATION OF OCCLUSAL CHANGES WITHIN ORTHODONTIC TREATMENT

*Sanaz Sadry<sup>1</sup>, Serdar Gözler<sup>2</sup>.* Departments of <sup>1</sup>Orthodontics and <sup>2</sup>Prosthetics, stanbul Aydin University, stanbul, Turkey

10:00-10:30

Coffee break in exhibition hall

## ■ OCCLUSION - STABILITY

10:30-11:00

### KEYNOTE LECTURE

## K04

RETENTION: EVIDENCE-BASED FACTORS AFFECTING SUCCESS

*Simon Littlewood.* St Luke's Hospital, Bradford, UK

11:00-11:20

### SHORT ORAL PRESENTATIONS

## OP 37

STABILITY OF LOWER INCISOR POSITION FOLLOWING TWO PHASE NON-EXTRACTION TREATMENT

*William Wiltshire, Matthew Kotyk.* Department of Orthodontics, University of Manitoba, Winnipeg, Canada

## OP 38

UNEXPECTED TOOTH MOVEMENT DESPITE BONDED RETAINERS: PREVALENCE AND MOVEMENT PATTERNS

*Katharina Klaus<sup>1</sup>, Faidra Xirouchaki<sup>2</sup>, Sabine Ruf<sup>1</sup>.* <sup>1</sup>Department of Orthodontics, Justus-Liebig-University Giessen, Germany and <sup>2</sup>Private Orthodontic Practice, Crete, Greece

11:20-11:30

### PRESENTATION OF THE EOS CONGRESS 2020

11:30-12:00

### AWARD CEREMONY

12:00-13:00

Lunch Break

12:10-12:50

### SYMPOSIUM

## ■ FREE TOPICS

13:00-13:30

### KEYNOTE LECTURE

## K04

THE JURY IS BACK AND WE HAVE A VERDICT: ACCELERATED TOOTH MOVEMENT IS ON TRIAL!

*Ali Darendeliller.* Discipline of Orthodontics, University of Sydney, Australia

13:30-14:30

### SHORT ORAL PRESENTATIONS

## OP 39

COMPARISON OF MANDIBULAR GROWTH VELOCITY AT DIFFERENT CERVICAL VERTEBRAL MATURATION STAGES

*Sara Hosni<sup>1</sup>, Girvan Burnside<sup>2</sup>, Simon Watkinson<sup>2</sup>, Jayne Harrison<sup>1</sup>.* <sup>1</sup>The University of Liverpool and <sup>2</sup>Blackburn Hospital, U.K.

## OP 40

SECULAR TREND IN CHILDREN BORN 1969-1973 AND 1996-2000. A STUDY OF SKELETAL MATURATION OF THE HAND AND WRIST IN RELATION TO THE PUBERTAL GROWTH SPURT

*Louise Miltenburg Caspersen<sup>1</sup>, Liselotte Sonnesen.* <sup>1</sup>Postgraduate Education in Orthodontics, Department of Odontology, Faculty of Health and Medical Sciences, University of Copenhagen, Denmark



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## OP 41

EVALUATION OF THE SUTURE MATURATION OF UNTREATED PATIENTS USING COMPUTERIZED TOMOGRAPHY

*Gökçen Ok, Berza Yılmaz.* Orthodontic Department, Bezmialem Vakif University Dentistry Faculty, Istanbul, Turkey

## OP 42

COMPARISON OF MAXILLARY SUTURE ASSESSMENT ON CONE BEAM COMPUTED TOMOGRAPHS AND MAGNETIC RESONANCE IMAGING: A RETROSPECTIVE STUDY IN ADULTS

*Francesca Massetti<sup>1</sup>, Fabio Savoldi<sup>2</sup>, Silvia Tonesi<sup>1</sup>, Luca Visconti<sup>1</sup>, Domenico Dalessandri<sup>1</sup>.*

<sup>1</sup>Department of Orthodontics, University of Brescia, Italy and <sup>2</sup>Department of Dental Materials Science, Faculty of Dentistry, University of Hong Kong, China

## OP 43

EXPLORING A NEW ANATOMIC STRUCTURE FOR SUPERIMPOSITION OF PRE- AND POST-TREATMENT MANDIBULAR DIGITAL DENTAL CASTS

*Arlette Oueiss, Camia Julien.* University nice Sophia anti polis, Nice, France

14:30-15:00 Coffee break in exhibition hall

15:00-15:30 KEYNOTE LECTURE

## K04

MANAGEMENT OF SAGITTAL, TRANSVERSAL AND VERTICAL ASYMMETRIES USING TEMPORARY ANCHORAGE DEVICES

*Benedict Wilmes.* Department of Orthodontics, University of Düsseldorf, Germany

15:30-17:00 SHORT ORAL PRESENTATIONS

## OP 44

THE EFFECT OF THREE DIFFERENT RAPID MAXILLARY EXPANDERS ON THE UPPER AIRWAY. A CONE BEAM COMPUTED TOMOGRAPHY, RANDOMISED CONTROLLED CLINICAL TRIAL

*Gordon Cheung, Oyku Dalci, Simone Mustac, M Ali Darendeliler, Alexandra Papadopoulou.* Department of Orthodontics, The University of Sydney, Surry Hills, Australia

## OP 45

EFFECTS ON MIDPALATAL SUTURE AND NASAL AIRFLOW USING TOOTH-BORNE AND TOOTH-BONE-BORNE RME APPLIANCES: A RANDOMIZED CONTROLLED TRIAL

*Farhan Bazargani<sup>1</sup>, Henrik Lund<sup>2</sup>, Anders Magnuson<sup>3</sup>, Björn Ludwig<sup>4</sup>.* <sup>1</sup>Department of Orthodontics, Postgraduate Dental Education Center, Örebro, Sweden, <sup>2</sup>Department of Oral & Maxillofacial Radiology, Sahlgrenska Academy, University of Gothenburg, Sweden, <sup>3</sup>Clinical Epidemiology and Biostatistics Unit, Örebro University Hospital, Sweden and <sup>4</sup>Private Orthodontic Office, Traben-Trarbach, Germany

## OP 46

CLASS II MALOCCLUSION TREATMENT: BONE ANCHORED VERSUS. NORMAL INTERMAXILLARY ELASTIC USE

*Aylin Pasaoglu Bozkurt.* Department of Orthodontics, Beykent University, Istanbul, Turkey

## OP 47

IN VIVO FAILURE OF TEMPORARY ANCHORAGE DEVICES COATED WITH HYDROXYAPATITE-CHOLECALCIFEROL VERSUS HYDROXYAPATITE ONLY: A SPLIT MOUTH RANDOMIZED CONTROL TRIAL

*Owais Khalid Durrani.* Department of Orthodontics, Riphah International University, Islamabad, Pakistan

## OP 48

DO ORTHODONTIC POSTGRADUATE STUDENTS KNOW EVIDENCE-BASED RESEARCH METHODOLOGY AND HOW DO THEY COMPARE WITH OTHER SPECIALTIES? AN INTERNATIONAL SURVEY

*Spyridon N Papageorgiou<sup>1</sup>, Despina Koletsis<sup>2</sup>, Raphael Patcas<sup>1</sup>, Leslie A Will<sup>3</sup>, Theodore Eliades<sup>1</sup>.* <sup>1</sup>Clinic of Orthodontics and Pediatric Dentistry, Center of Dental Medicine, University of Zurich, Switzerland, <sup>2</sup>Department of Orthodontics, School of Dentistry, National and Kapodistrian University of Athens, Greece and <sup>3</sup>Department of Orthodontics and Dentofacial Orthopedics, Goldman School of Dental Medicine, Boston University, Massachusetts, USA

## OP 49

PUBLIC PERCEPTION OF ORTHODONTIC TREATMENT PERFORMED BY GENERAL DENTISTS AND SPECIALIST ORTHODONTISTS

*Morgan Wishney<sup>1</sup>, Oyku Dalci<sup>1</sup>, Peter Petocz<sup>2</sup>, M Ali Darendeliler<sup>1</sup>,* Departments of <sup>1</sup>Orthodontics and <sup>2</sup>Statistics, University of Sydney, Surry Hills, Australia



# Scientific programme

MONDAY 17<sup>th</sup> JUNE - SATURDAY 22<sup>nd</sup> JUNE 2019



## OP 50

LARGE OVERJETS DO INCREASE THE RISK OF TRAUMATIC TOOTH INJURIES

*Jean-Paul Schatz*<sup>1</sup>, *Enrico Ostini*<sup>1</sup>, *Magnus Hakkeberg*<sup>2</sup>, *Stavros Kiliaridis*<sup>1</sup>. <sup>1</sup>Department of Orthodontics, University of Geneva, Switzerland and <sup>2</sup>Department of Behavioral and Community Dentistry, University of Gothenburg, Sweden

## OP 51

ORTHODONTIC, EAR, NOSE AND THROAT AND THREE-DIMENSIONAL ULTRASOUND ASSESSMENT OF RESTING TONGUE POSTURE IN ANTERIOR OPEN BITE PRIMARY DENTITIONS

*Sanda Lah Kravanja*<sup>1</sup>, *Maja Muši Marolt*<sup>2</sup>, *Irena Hočvar-Boltežar*<sup>3</sup>, *Maja Ovsenik*<sup>4</sup>.

<sup>1</sup>Orthodontics, Dentalni center dr. Lah Kravanja d.o.o., Bovec, <sup>2</sup>Institut of Oncology, University Medical Centre Ljubljana and <sup>3</sup>Clinic of Otorhinolaryngology and Cervicofacial Chirurgy and <sup>4</sup>Department of Orthodontics and Maxillofacial Orthopaedics, University Medical Centre and Medical Faculty Ljubljana, Slovenia



## SATURDAY 22<sup>nd</sup>, JUNE 2019

■ Silver Mill Outing St Paul de Vence-Fondation Maeght

**EOS Business Meeting**

**Evening : Gala Diner Negresco**