

SCIENTIFIC PROGRAMME

Friday - SEPTEMBER 16, 2022

SEQ#: 25 SYMPOSIUM 8:30 - 10:00			AUDITORIUM - LEVEL 0
FOCUSING ON CLINICAL AND TRANSLATIONAL RESEARCH IN IRELAND (SUPPORTED BY THE IRISH DIVISION OF IADR) Chairperson: F. Lundy			
Q026	8:30	Pulp Preservation Therapies: From the lab to the Clinic and Back Again. I. EL-KARIM* (<i>Queen's University Belfast, Belfast, Ireland</i>)	
Q027	8:55	Next-Generation Targets: the Critical Role of MMP13 in Regulating Tooth Development and Reactionary Dentinogenesis Through Wnt Signaling. H. DUNCAN* (<i>Dublin Dental University Hospital, Trinity College Dublin, Dublin, Ireland</i>)	
Q028	9:20	Clinical Studies in Cariology - Is Big Data Better? M. HAYES* (<i>University of Cork, Cork, Ireland</i>)	
	9:45	Discussion	
SEQ#: 26 ORAL SESSION 8:30 - 10:00			HALL MAJOR - LEVEL 2
DENTAL MATERIALS: BIOCOMPATIBILITY, BIOENGINEERING AND BIOLOGIC EFFECTS OF MATERIALS Chairpersons: M. Karapinar Kazandag and M. Kazak			
O259	8:30	Mechanical and Physical Properties of Three Bioactive Restorative Materials. H. ABOUELLEIL SAYED*, N. ATTIK, R. CHIRIAC, A. ORY, B. GROSGOGHEAT, N. PRADELLE-PLASSE <i>(Faculté d'odontologie de Lyon, Université Claude Bernard Lyon 1, Lyon, France)</i>	
O260	8:45	Evaluating Cytotoxic Effects and Cytotoxicity Origins of Bulk-Fill Materials by LC-MS/MS. M. KAZAK*, N. DONMEZ, F. BAHADORI, V. YENIGUN SAHIN, A. KOCYIGIT <i>(Department of Restorative Dentistry, Bahcesehir University, School of Dental Medicine, Istanbul, Turkey)</i>	
O262	9:00	A New Calcium Silicate-Based Endodontic Sealer: Angiogenic and Regeneration Potentials. T. GIRAUD*, C. JEANNEAU, S. ROUMANI, I. ABOUT <i>(Aix Marseille Université, Centre National de la Recherche Scientifique, Institut des Sciences du Mouvement, Marseille, France)</i>	



O263	9:15	M2c Polarization of Inflammatory Monocytes (IMOs) Mediated by Nanostructured Implant. Q. MA*, L. CHEN, H. HAUGEN <i>(Department of Biomaterials, Institute of Clinical Dentistry, University of Oslo, Oslo, Norway)</i>
SO264	9:30	Apatite Formulation Detection with an X-ray Photoelectron Spectroscopy. Z. LIU*, X. LIU, X. CHEN, A. THOMAS <i>(University of Manchester, Manchester, United Kingdom)</i>
	9:45	Discussion
SEQ#: 27		
ORAL SESSION		
8:30 - 10:00		SALLE 120 - LEVEL 0
PERIODONTAL RESEARCH: DIAGNOSIS AND EPIDEMIOLOGY		
Chairpersons: C. Marruganti and M. Sabalic		
SO105	8:30	Periodontal Disease Prevalence and Oral Hygiene Practices in Adults with Cystic Fibrosis. N. COFFEY*, F. O LEARY, A. ROBERTS, F. BURKE, B. PLANT, M. HAYES <i>(Restorative Dentistry, University College Cork, Cork, Ireland)</i>
O106	8:45	Radiological Evaluation of Prevalence of Bone Loss and Teeth Grinding. N. TAGGER-GREEN*, C. NEMCOVSKI, Y. BERG, N. FRIDENBERG, R. KOLERMAN <i>(Periodontology, Tel Aviv University, Tel Aviv, Israel)</i>
SO107	9:00	The Physical Activity Paradox and Periodontitis: a Population-Based Study. C. MARRUGANTI*, G. BAIMA, S. GRANDINI, F. GRAZIANI, M. AIMETTI, M. SANZ, M. ROMANDINI <i>(Department of Medical Biotechnologies, University of Siena, Buonconvento, SI, Italy)</i>
O108	9:15	Tooth Loss and All-Cause Mortality: a 19-Year Prospective Cohort Study. G. LINDEN*, F. KEE, L. WINNING <i>(Centre for Public Health, Queens University Belfast, Belfast, United Kingdom)</i>
O110	9:30	Oral Health, Microbial Burden and COVID-19 (ORACLE) Microbiome Signatures. M. SABALIC*, J. SUVAN, S. LUTHRA, B. SAKHAMURI, X. LU, M. WONG, X. ZHANG, R. BRUCKER, B. KLEIN, S. SHEN, N. JOVANOVIC, L. BOUILLAUT, V. SAMPSON, D. SADIGH, S. HARDEN, D. BREALEY, F. D'AIUTO <i>(UCL/UCLH Eastman Dental Institute and Hospital, London, United Kingdom)</i>
	9:45	Discussion

SEQ#: 28	
ORAL SESSION	
8:30 - 10:00	JOLIETTE - LEVEL 1

CARIOLOGY RESEARCH: DEMINERALIZATION/REMINERALIZATION

Chairpersons: P. Anderson and R. Hill

O111	8:30	<p>Effects of Poly-Gamma-Glutamic Acid Produced From Different Sources on Demineralisation Inhibition of Hydroxyapatite.</p> <p>M. PARATI, R. HILL, I. RADECKA, M. STANLEY, D. MCGEE, P. ANDERSON*</p> <p><i>(Institute of Dentistry, Queen Mary University of London, London, United Kingdom)</i></p>
O112	8:45	<p>Systematic Review and Meta-Analysis on Physical Barriers to Prevent Dentin Demineralization.</p> <p>R. WIERICHS, T. MÜLLER, G. CAMPUS, T. CARVALHO, S. NIEMEYER*</p> <p><i>(Department of Restorative, Preventive and Pediatric Dentistry, University of Bern, Bern, Switzerland)</i></p>
SO113	9:00	<p>Efficacy of CPP-ACP on Early Caries Lesions Remineralization: a Meta-Analysis.</p> <p>B. GOLZIO NAVARRO CAVALCANTE*, A. SCHULZE WENNING, B. SZABÓ, L. MÁRK CZUMBEL, P. HEGYI, G. GERBER, G. VARGA</p> <p><i>(Oral Biology, Semmelweis University, Budapest, Hungary)</i></p>
O114	9:15	<p>Synergistic Influence of Strontium and Fluoride on Hydroxyapatite Demineralisation.</p> <p>R. HILL*, P. ANDERSON, S. SHAHID, A. ALSAQABI</p> <p><i>(Dentistry, QMUL, Maidenhead, Berkshire, United Kingdom)</i></p>
SO115	9:30	<p>Determination of the Remineralizing Effectiveness of Bioactive Dental Varnishes.</p> <p>E. DURMUS, T. KOLUS, E. ÇOBAN, H. YALCINKAYA*, H.E. ÜLKER, I. CELIK</p> <p><i>(Selcuk University, Konya, Turkey)</i></p>
SO116	9:45	<p>Efficacy of Silver-Fluoride Application on Root Caries Using High-Contrast XMT.</p> <p>M. BQAIN*, H. CHEN, S. SHAHID, A. BAYSAN</p> <p><i>(Barts and the London, School of Dentistry, QMUL, London, United Kingdom)</i></p>



SEQ#: 29

ORAL SESSION

8:30 - 10:00

ESTAQUE - LEVEL 1

CLINICAL AND TRANSLATIONAL SCIENCE NETWORK

Chairpersons: Z. Brookes and Y. Haviv

SO117	8:30	<p>Common Genetic Background of Hypodontia and Third Molar Agenesis.</p> <p>V. PRIJATELJ*, B. DHAMO, C. MEDINA-GOMEZ, F. RIVADENEIRA, E. WOLVIUS</p> <p><i>(Department of Oral and Maxillofacial Surgery, Erasmus MC, University Medical Center Rotterdam, Rotterdam, Zuid-Holland, Netherlands)</i></p>
SO118	8:45	<p>Enzyme-Responsive Nanoparticles for Dexamethasone Targeted Delivery in Diabetic Rats.</p> <p>N. SCHIFFMANN*, Y. LIANG, C. NEMCOVSKY, M. HALPERIN-STERNFELD, N.C. GIANNESCHI, L. ADLER-ABRAMOVICH, E. ROSEN</p> <p><i>(Goldschleger School of Dental Medicine, Tel-Aviv University, Tel-Aviv, Israel)</i></p>
O119	9:00	<p>Novel Engineered Collagenase for Enzymatically Assisted Minimally Invasive Tooth Extraction.</p> <p>R. TOHAR, H. ALALI, T. ANSBACHER, T. BROSH, I. SHER, Y. GAFNI, E. WEINBERG, M. GAL*</p> <p><i>(Tel Aviv University, Tel Aviv, Israel)</i></p>
O120	9:15	<p>Blood Pressure Screening for Hypertension at Peninsula Dental School, UK.</p> <p>A. DOBLE, R. BESCOS, R. WITTON, S. SHABIR, C. TREDWIN, Z. BROOKES*</p> <p><i>(Peninsula Dental School, University of Plymouth, Plymouth, United Kingdom)</i></p>
SO121	9:30	<p>Treatment of Melanin Gingival Pigmentation with Q-Switched Nd:YAG Laser.</p> <p>N.G. ARMOGIDA*, E. CALABRIA, F. IACULLI, M. CERNERA, A. VALLETTA, G. SPAGNUOLO</p> <p><i>(University of Naples "Federico II", Napoli, Naples, Italy)</i></p>
SO122	9:45	<p>Molecular Pathways in Burning Mouth Syndrome.</p> <p>Y. HAVIV, Z. KAY*, B. MERIMSKI, R. CZERNINSKI, D. AFRAMIAN, M. KLUTSTEIN</p> <p><i>(Institute of Biomedical and Oral Research, Faculty of Dental medicine, Hebrew University, Jerusalem, Israel)</i></p>



SEQ#: 30		
KEYNOTE LECTURE		
9:00 - 10:00		GRAND LARGE - LEVEL 1
BIOACTIVE DENTAL CONCEPT: WHEN AND HOW USING IONS RELEASED BIOMATERIALS (SUPPORTED BY SDI)		
Introduction by L. Turkun		
Q002	9:00	Bioactive Dental Concepts: When and How to Incorporate Ion Release within Biomaterials. H. TASSERY* (<i>Aix-Marseille University, Marseille, France</i>)
	9:45	Discussion
SEQ#: 31		
SYMPOSIUM		
10:30 - 12:30		AUDITORIUM - LEVEL 0
IRREVERSIBLE PULPITIS TREATMENT: MYTH OR REALITY? (SUPPORTED BY SEPTODONT)		
Chairperson: I. About		
Q029	10:30	Irreversible Pulpitis Treatment Rational: Pulp Regeneration and Antibacterial Potentials. I. ABOUT* (<i>Aix-Marseille University, Marseille, France</i>)
Q030	11:05	Irreversible Pulpitis Treatment in Immature Teeth. P. CHOMPU-INWAI* (<i>Chiang Mai University, Chiang Mai, Thailand</i>)
Q031	11:40	Is Irreversible Pulpitis Treatment Possible in Mature Teeth? N. TAHA* (<i>Faculty of Dentistry, Jordan University of Science and Technology, Jordan, Jordan</i>)
	12:15	Discussion
SEQ#: 32		
SYMPOSIUM		
10:30 - 12:30		HALL MAJOR - LEVEL 2
GUIDED BIOFILM THERAPY- NEW PROTOCOL IN DENTAL PROPHYLAXIS (SUPPORTED BY EMS)		
Chairpersons: K. Bastendorf and A. Lussi		
Q032	10:30	Guided Biofilm Therapy & Dental Caries. H. TASSERY* (<i>Dental School, Aix-Marseille University, Marseille, France</i>)
Q033	11:00	Effect of Airflowing Powder-Erythirol on Dental Materials. B. AREFNIA* (<i>Univ. Klinik für Zahnmedizin und Mundgesundheits, University of Graz, Graz, Austria</i>)
Q034	11:30	Airflowing Technology: What is it and how is it Different? M. DONNET* (<i>Research Department, EMS, Nyon, Switzerland</i>)
Q035	12:00	Can Guided Biofilm Therapy Alter the Oral Microbiome in a Short and Long Term Basis? V. SAMPSON* (<i>Private Practice, London, United Kingdom</i>)



SEQ#: 33 ORAL SESSION 10:30 - 12:30		SALLE 120 - LEVEL 0
DENTAL MATERIALS: POLYMER-BASED MATERIALS Chairpersons: E. Dursun and R. Richert		
O123	10:30	Fast Curing Bulk-Fill Resin Composites: a Systematic Review. E. DURSUN*, P. FRANCOIS, J.-P. ATTAL <i>(URB2i, Université Paris Cité, Montrouge, France)</i>
O124	10:45	Shrinkage Vectors in MOD-Cavities with Different Applications of Bulk-Fill Composites. D. KAISARLY, J. REUVER, M. EL GEZAWI*, P. RÖSCH, K.-H. KUNZELMANN, M. DRAENERT <i>(Imam Abdul Rahman Bin Faisal University, Dammam, Saudi Arabia)</i>
O125	11:00	Data Processing Parameters Influence the Shrinkage Vector Evaluation of Composites. D. KAISARLY*, J. REUVER, M. EL GEZAWI, P. RÖSCH, K.-H. KUNZELMANN, M. DRAENERT <i>(LMU Munich, München, Germany)</i>
SO126	11:15	Properties of Dental Composite with Bisguaiacol-Based Monomer Replacing BisGMA. L. ETIENNOT*, X. LI, F. ZHANG, L. TRULLEMANS, M. TURKALJ, F. RAMMAL, B. MERCELIS, B. SELS, K. VAN LANDUYT, M. PEUMANS, B. VAN MEERBEEK <i>(Department of Oral Health Sciences, BIOMAT & University Hospitals Leuven (UZ Leuven), Dentistry, KU Leuven (University of Leuven), Leuven, Vlaams-Brabant, Belgium)</i>
SO127	11:30	Surface Properties and Microhardness of Composites after Polishing and Aging. S. ÜLKÜ*, N. ÜNLÜ <i>(Selçuk University Faculty of Dentistry, Konya, Turkey)</i>
SO128	11:45	Influence of Probiotics on the Roughness, Microhardness, Sorption/Solubility of Composites. E. MUHTAR*, A. SARIALIOGLU GUNGOR, Ç. YELOĞLU <i>(Dentistry, Bezmialem Vakif University, Istanbul, Turkey)</i>
SO129	12:00	Biomechanical Analysis of the Root Filled Tooth Restored by Reinforced Composite. R. RICHERT*, H. JMAL, P. SIMONIS, M. DUCRET, C. VILLAT, N. KHAROUF, D. MANCINO <i>(Restorative Dentistry & Endodontics, Lyon Dental Hospital, Lyon, France)</i>
O130	12:15	Relation of Modern Resin-Based Hybrid Composites to Tooth Structure. N. ILIE* <i>(Department of Conservative Dentistry and Periodontology, University Hospital, LMU, Munich, Germany)</i>

SEQ#: 34 ORAL SESSION 10:30 - 12:30		JOLIETTE - LEVEL 1
BEHAVIORAL, EPIDEMIOLOGIC AND HEALTH SERVICES RESEARCH Chairpersons: M. Dolci and P. Eachempati		
O131	10:30	Oral Health in Drug Abusers: an Observational Study. M. DOLCI*, S. D'AGOSTINO, S. D'AGOSTINO <i>(Medical, Oral and Biotechnological Sciences, University of Chieti Pescara, Chieti, Italy)</i>
SO132	10:45	Translation and Cross-Cultural Adaptation Involving Multi-Ethnolinguistic Population. P. EACHEMPATI*, S. KUMBARGERE, M. NASSER, S. HANKS, J. MARTIN <i>(Peninsula Dental School, University of Plymouth, Plymouth, United Kingdom)</i>
SO133	11:00	Association Between Anxiety and Oral Health-Related Quality of Life. V. AARDAL*, K. EVENSEN, T. WILLUMSEN, V. BULL <i>(Oral Health Centre of Expertise, Rogaland, Norway, Stavanger, Norway)</i>
O134	11:15	Prevention and Intervention Measures with the Regard to Eating Disorder. T. DABKOWSKI*, A. SLOPIEN, E. PASZYNSKA <i>(Department of Integrated Dentistry, Poznan University of Medical Sciences, Poland, Dole, France)</i>
SO135	11:30	The Impact of Bariatric Surgery on Oral Health: a Nationwide Longitudinal Register Based Study. F. FREEDMAN*, R. MARSK, J. YAN, L. KARLSSON, G. ENGLUND <i>(Dental Medicine, Karolinska Institutet, Huddinge, Sweden)</i>
O136	11:45	Can Brushing Be an Alternative Treatment for Obesity? A. KILIC*, T. SUZEK, D. SAHIN <i>(Bezmiâlem Vakif University, Istanbul, Fatih, Turkey)</i>
O137	12:00	Subgingival Dysbiosis and Respiratory Decline. L. WINNING*, G. MORAN, M. MCCLORY, I. EL-KARIM, F. LUNDY, C. PATTERSON, K. CULLEN, D. LINDEN, F. KEE, G. LINDEN <i>(Trinity College Dublin, Dublin, Ireland)</i>
	12:15	Discussion



SEQ#: 35

ORAL SESSION

10:30 - 12:30

ESTAQUE - LEVEL 1

TOOTH WEAR, EROSION AND DENTINE HYPERSENSITIVITY

Chairperson: B. Loomans

SO139	10:30	<p>5-Year Tooth-Wear Progression in Severe Tooth-Wear Patients Using 3D-Measurements.</p> <p>H. BRONKHORST*, E. BRONKHORST, M.-C. HUYSMANS, S. KALAYKOVA, B. LOOMANS <i>(Dentistry, Radboudumc, Nijmegen, Netherlands)</i></p>
SO140	10:45	<p>Subsurface Characteristics of Erosive Tooth Wear on Natural Human Enamel.</p> <p>S. JADEJA*, A. LEBLANC, S. O'TOOLE, R. AUSTIN, D. BARTLETT <i>(Centre for Oral, Clinical and Translational Sciences, Faculty of Dentistry, Oral & Craniofacial Sciences, King's College London, London, London, United Kingdom)</i></p>
O141	11:00	<p>Remineralisation and Protection of Human Enamel by Fluoride-Containing Dentifrice.</p> <p>B. MAHMOODI*, U. MCDONNELL, L. D'ANIELLO, C. FOWLER <i>(Research and Development Oral Health, GlaxoSmithKline, Weybridge, United Kingdom)</i></p>
SO142	11:15	<p>Characterization of Non-Carious Cervical Lesions.</p> <p>M. DASSA*, R. SARIG <i>(Department of Oral Biology, School of Dental Medicine, Sackler Faculty of Medicine, Tel-Aviv university, Tel Aviv, Israel)</i></p>
SO143	11:30	<p>Comparative Study of Toothpastes for Dentin Tubule Occlusion.</p> <p>E. ALKAN*, D. TAĞTEKIN, N. KORKMAZ, S. MESELI, F. YANIKOGLU, B. KARGUL, S. OKTAY <i>(Department of Restorative Dentistry, Marmara University Faculty of Dentistry, Istanbul, Turkey)</i></p>
	11:45	<p>Discussion</p>



SEQ#: 36		ORAL SESSION	GRAND LARGE - LEVEL 1
ORAL HEALTH RESEARCH 1			
Chairpersons: J. Kang and E. Paszynska			
O147	10:30	Metabolic Disorders and the Risk of Head and Neck Cancer. A. GORMLEY*, C. RICHARDS, M. GORMLEY <i>(Bristol Dental School, University of Bristol, Bristol, United Kingdom)</i>	
SO148	10:45	Limited Effect of Genetically-Predicted Metabolic Disorders on Oral/Oropharyngeal Cancer Risk. M. GORMLEY*, T. DUDDING, G. DAVEY SMITH, R. RICHMOND, E. VINCENT, C. BULL <i>(MRC Integrative Epidemiology Unit, University of Bristol, Bristol, United Kingdom)</i>	
O149	11:00	Anorexia Nervosa and Insight Into Oral Health Needs in Adolescence. E. PASZYNSKA*, A. HERNIK, M. TYSZKIEWICZ-NWAFOR, M. DMITRZAK-WEGLARZ, M. ROSZAK, A. SLOPIEN <i>(Department of Integrated Dentistry, Poznan University of Medical Sciences, Poznan, Poland)</i>	
SO150	11:15	Is Apical Periodontitis a Risk-Factor for Prevalent or Incident Coronary-Heart-Disease? M. MCCLORY*, G. LINDEN, F. LUNDY, L. WINNING, I. EL-KARIM <i>(Queens University Belfast, Dromore, United Kingdom)</i>	
O151	11:30	Poor Oral Health in People with Severe Mental Illness. J. KANG*, J. WU, D. SHIERS, H. LARVIN, J. PALMIER-CLAUS, V. AGGARWAL <i>(School of Dentistry, University of Leeds, Leeds, United Kingdom)</i>	
SO153	11:45	Infective Endocarditis - the Result of Dental Procedures or Daily Bacteraemia? N. VÄHÄSARJA*, C. KRUGER-WEINER, A. NAIMI-AKBAR, B. LUND, B. GÖTRICK, A. TERNHAG <i>(Department of Oral and Maxillofacial surgery, Folk tandvården Eastmaninstitutet, Stockholm, Sweden)</i>	
SO154	12:00	Mediterranean Diet Increases Bone-Protecting Lipid-Mediators and Alveolar Bone-Micro-Architecture in Periodontitis. U. SCHULZE-SPÄTE*, A. DÖDING, A. BÖLTER, M. HÜFNER, P. SCHÄDEL, N. ANDREAS, J. SYMMANK, K. BECKER, O. WERZ, T. KAMRADT, C. JACOBS, B. SIGUSCH <i>(Section of Geriodontics, Department of Conservative Dentistry and Periodontology, University Hospital Jena, Jena, Germany)</i>	
	12:15	Discussion	

SEQ#: 37

POSTER SESSION

12:00 - 13:00

POSTER HALL - LEVEL 0

PRESENTER AT POSTER

Free poster viewing from 8:30 - 17:30

CLINICAL AND TRANSLATIONAL SCIENCE NETWORK

P200 Toothbrush Disinfection with a Mouthwash Containing Chlorhexidine and Cetylpyridinium Chloride.

A. SOLER OLLÉ*, G. ÁLVAREZ, S. ISABAL, R. LEÓN, V. BLANC

*(Translational Science, Dentaid Research Center, Cerdanyola del Vallès, Barcelona, Spain)***P201 National Network Group for Research and Innovation within Oral Health.**

S. KOPPERUD*, A. NORDREHAUG ÅSTRØM, J. ELLINGSEN, M. AL-HARONI, S. FORSMO, Q. KHAN, K. DAHL, V. ANSTEINSSON, V. BULL, E. BERGGREEN, A. FEUERHERM, E. HADLER-OLSEN, H. NORDGARDEN, C.NÆSHEIM, L. BYRKJEFLOT, Ø. ASMYHR, K. STENHAGEN, R. BECHER, J. DAHL

(Nordic institute of dental materials (NIOM), Oslo, Norway)

CRANIOFACIAL BIOLOGY RESEARCH

P203 Intra-Oral Scanner Investigation for Shovel-Shaped Incisor Analysis in Anthropology.

A. DESOUTTER*, A. FERRÉ, P. MONSARRAT, R. ESCLISSAN, D. CARAYON

(LBN, Univ Montpellier, Montpellier, France)

IMPLANTOLOGY RESEARCH

P204 Novel Nanoparticles for Peri-Implantitis Treatment Enhanced Osteoblasts Proliferation and Differentiation.

R. OSORIO*, M. TOLEDANO-OSORIO, E. LUNA-BERTOS, M. TOLEDANO, V.J. COSTELA-RUIZ, C. RUIZ,

A.L. MEDINA-CASTILLO, F.J. GIL, F.J. MANZANO-MORENO

*(University of Granada, Granada, Spain)***SP205 A New Surgical Guide for Implant Placement in Complete Edentulism.**

R. AMID, M. HOSEINI*, S. JAVADI

*(Shahid Beheshti University of Medical Sciences, Tehran, Iran (the Islamic Republic of))***SP206 Focal Adhesion Formation of Primary Oral Fibroblast on TiO₂-Coated Titanium.**

S. RIIVARI*, E. NÄRVÄ, I. KANGASNIEMI, J. WILLBERG, T. NÄRHI

(Institute of Dentistry, University of Turku, Turku, Finland)

SP208	<p>Effects of Experimental Setup on Dental-Implant Stability Testing in-Vitro. N. KHOUJA*, W.-C. TAI, I.Y. SHEN, J. SORENSEN <i>(Conservative Dental Sciences, King AbdulAziz University, Castle Cary, United Kingdom)</i></p>
SP209	<p>Individual and Implant Factors Associated with Peri-Implantitis: a Multilevel Analysis. C. ALVES DE SIQUEIRA ALCIATI*, V. PECORARI, F. CIRANO <i>(Universidade Paulista, São Paulo, Brazil)</i></p>
P211	<p>The “Implant Protection Plan”: Preventing Implant Diseases Focusing on Compliance. M. BASSO*, G. BORDINI, T. TESTORI <i>(Centre of Minimal Invasive, Aesthetic and Digital Oral Rehabilitation, University of Milan, Milan, Italy)</i></p>
P213	<p>Static Bacterial Leakage and Dynamic Sealing Ability of Implant Connections. M. PETRINI*, A. SCARANO, T. DOTTA, N. ETEMADI, M. RAMEZANI FARANI, G. IEZZI, F. LORUSSO, A. PIATTELLI, L. COMUZZI, S. D'ERCOLE <i>(Medical, Oral and Biotechnological Sciences, University of Chieti, Chieti, Italy)</i></p>
SP214	<p>An Operatory Dental Implant Surgical Guide for Partial Edentulism. R. AMID, S. HARTOONIAN*, M. REZAEI MAJD <i>(Shahid Beheshti University of Medical Sciences, Tehran, Iran (the Islamic Republic of))</i></p>
MICROBIOLOGY/IMMUNOLOGY	
SP216	<p>Pectin’s Antimicrobial Effect Against Bacteria Associated with Endodontic Infections. R. ABDELGAWAD*, R. EL-GENDY, N. DAME-TEIXEIRA, K. GURZAWSKA, A.H.M. H. MAHRAN, S. NIAZI, T. DO <i>(Oral Biology Division, University of Leeds, Leeds, West Yorkshire, United Kingdom)</i></p>
SP218	<p>The Oral Cavity: a Potential Reservoir for Diabetic-Foot Ulcer Infections. L. GREALY*, B. MCMANUS, D. COLEMAN <i>(Oral Biosciences , Dublin Dental University Hospital, Dublin, Ireland)</i></p>
P219	<p>Development of an Iridium Complex as an Antimicrobial Photodynamic Therapy. I. MUTHUKUDAARACHCHI, J. WEINSTEIN, S. WHAWELL* <i>(Peninsula School of Dentistry, University of Plymouth, Plymouth, United Kingdom)</i></p>
P221	<p>An in Vitro 3D Oral Mucosa Model (3DOMM) for Infection Studies. S. GOULD, A. FOEY, S. WHAWELL*, V. SALIH <i>(Peninsula School of Dentistry, University of Plymouth, Plymouth, United Kingdom)</i></p>



SP222	Culture of Methanogenic Archaea From Necrotic Dental Pulp. V. PILLIOL*, G. ABOUDHARAM, E. TERRER <i>(Restorative Dentistry, Aix-Marseille Université, Marseille, France)</i>
SP223	Impact of Oral Anticoagulants on PRF Efficacy. P. JAU*, J. MAGALON, R. LACROIX, L. ARNAUD, L. CAMOIN-JAU, F. SABATIER, R. LAN <i>(Aix-Marseille University, Marseille, France)</i>
P295	In-Vitro Evaluation of Mouthwashes on Virus Infectivity and RNA Stability. C. PARKINSON*, D. BRADSHAW, C. WOODALL <i>(GSK Consumer Healthcare,, Weybridge, United Kingdom)</i>
SP297	Analysis of Oral Microbiome in Bariatric Surgery Patients and in Mice. A. SHAHIN KHALAILA*, R. ELAZARY, D. BEN-ZVI, D. RAVEH, A. SZITENBERG, R. SCHYR, S. COPPENHAGEN-GLAZER, R. HAZAN, Y. HOURI-HADDAD <i>(Prosthodontics , The Hebrew University of Jerusalem, Karmeil, Israel)</i>
SP298	Effects of Daily Antiseptic Treatment on Saliva-Grown Microcosm Biofilms. X. MAO, A. HIERGEIST, D. AUER*, K. SCHOLZ, D. MÜHLER, K.-A. HILLER, W. BUCHALLA, E. HELLWIG, A. GESSNER, A. AL-AHMAD, F. CIEPLIK <i>(Department of Conservative Dentistry and Periodontology, University Hospital Regensburg, Regensburg, Bavaria, Germany)</i>
SP299	Effects of CPC- and CHX-Containing Mouthwash in SARS-CoV-2 Positive Patients. E. BONN*, A. ROHRHOFER, F.-X. AUDEBERT, H. LANG, D. AUER, K. SCHOLZ, P. SCHUSTER, J.-M. GOTTSÄUNER, V. VIELSMEIER, B. SCHMIDT, F. CIEPLIK <i>(University Hospital Regensburg, Regensburg, Germany)</i>
P400	In Vitro Evaluation of Antiviral Effects of Oral Care Products. D. BRADSHAW*, C. PARKINSON, C. WOODALL <i>(GSK Consumer Healthcare, Weybridge, United Kingdom)</i>
ORAL HEALTH RESEARCH	
P224	Crocus Sativus Extract, a Promising Oral Ingredient for Periodontitis Prevention. C. CAPALLERE*, I. GARCIA, M. ARCIONI, C. MEYRIGNAC, C. PLAZA, J. COTTON, I. IMBERT <i>(Ashland, Sophia Antipolis, France)</i>
P225	Whitening Effect of Chewing Gums Mastication for 30" or 5'. P.F. PORCIANI*, C. PERRA, S. GRANDINI <i>(University of Siena Italy, Firenze, Italy)</i>
P226	Effect of Zinc Lactate Added Candies on Oral VSC. C. PERRA*, P.F. PORCIANI, S. GRANDINI <i>(University of Siena Italy, Firenze, Italy)</i>
SP227	Quality of Life in Head and Neck Cancer Patients. C. KARLSSON*, J. SKOOGH ANDERSSON, C. FINIZIA, A. ALMSTÅHL <i>(Section 4 Oral health, Malmö University Faculty of Odontology, Lekeryd, Sweden)</i>



SP228	<p>Swedish General Dental Professionals Clinical Management of Patients with Oral Dryness.</p> <p>A. FISIC*, H. CEVIK-ARAS, U. ALMHÖJD, A. ALMSTÅHL <i>(Section 4 - Oral Health, Faculty of Odontology, Malmö University, Malmö, Skåne, Sweden)</i></p>
SP229	<p>Comparative Assessment of Oral Health Risk Factors Related to Diabetes Type 2- an Analytical Cross-Sectional Study.</p> <p>A. ALKAHTANI*, P. ANDERSON, V. VINAY, A. BAYSAN <i>(QMUL, London, United Kingdom)</i></p>
P231	<p>In Vitro Assessment of Manual Toothbrush Wear.</p> <p>S. SAREMBE, A. KIESOW* <i>(Fraunhofer Institute for Microstructure of Materials and Systems IMWS, Halle, Germany)</i></p>
SP232	<p>Characterization of Phosphate Speciation in Saliva and Oral Care Products.</p> <p>A. ALMUDHI*, N. KARPUKHINA <i>(Dentistry, Queen Mary University, London, United Kingdom)</i></p>
P233	<p>Effect of LLLT on Periodontal Obese Patients.</p> <p>C. EGLOFF, A. ORMENISAN, A. MONEA, R. ION, G. BERESESCU* <i>(George Emil Palade University of Medicine, Pharmacy, Science, and Technology of Targu Mures, Faculty of Dental Medicine, Targu Mutres, Romania)</i></p>
SP234	<p>Data Collection Using 'Software as a Service' in Oral Health Surveys.</p> <p>A. HUGHES*, M. O'SULLIVAN, L. WINNING, O. CASSETTI, A. O'SULLIVAN, M. CROWE <i>(Division of Restorative Dentistry & Periodontology, Dublin Dental University Hospital, Dublin, Ireland)</i></p>
SP235	<p>Segmentation of Lesions in 3D CBCTs with Self-Configuring Deep Learning.</p> <p>T. KARTEVA, C. ROHRER*, L. SCHNEIDER, A. CHAURASIA, E. KARTEVA, M. DUCHRAU, P. SOLTANI, F. SCHWENDICKE, J. KROIS <i>(Charité-Universitätsmedizin Berlin, Berlin, Germany)</i></p>
SP236	<p>Importance of Fluoride Bio-Accessibility for Oral Health.</p> <p>J. KRONIC*, R. DUCKWORTH, C. ANGIONE, S. LEVY, V. ZOHOORI <i>(Teesside University, Middlesbrough, United Kingdom)</i></p>
SP237	<p>Evaluation of Partial Dental Restorations in a French Adult Population.</p> <p>C. MAILLET*, F. DECUP, E. DANTONY, C. CHEVALIER, F. GUEYFFIER, D. MAUCORT-BOULCH, B. GROSGOGEAT, J. LE CLERC <i>(Centre Hospitalier Universitaire de Reims, Pôle de Médecine Bucco-Dentaire, Reims, France)</i></p>
P292	<p>Improving Diagnosis and Management of Burning Mouth Syndrome.</p> <p>I. ALAJBEG*, Š. BRUNO, N. TREISTER, Y. BOUCHER <i>(Department of Oral Medicine, School of Dental Medicine, University of Zagreb,, Croatia, Croatia)</i></p>
SP293	<p>Influence of Risk Factors on Caries Disease of Adult Population.</p> <p>S. LEFEVRE*, F. DECUP, S. LEGER, S. DOMÉJEAN, B. GROSGOGEAT <i>(Université de Paris Cité, Paris, France)</i></p>



PAEDIATRIC ORAL HEALTH RESEARCH

P238	Repair or Replace Failed Restorations? Systematic Review and Meta-Analysis. D. RAGGIO*, R. GARBIM, C. LAUX, S. KIM, B. MORO, M. WANDERLEY, T. TEDESCO <i>(Cardiff University, Cardiff, United Kingdom)</i>
SP239	Evaluation of the Electronic Faces Thermometer Scale (EFTS) in Children. R. ROXNER*, C. CASTOR, S. NILSSON, G. KLINGBERG, H. BERLIN <i>(Department of Pediatric Dentistry, Malmö University, Malmö, Sweden)</i>
P240	Supernumerary Elements in Children with Microcephaly. C.L. ORTOLANI*, C. ALVES, K. ALMEIDA, D. NARIMATSU, L. EISLER-HOFFMAN, D.E. GIOVANI <i>(Pos Graduate Department, Universidade Paulista, Sao Paulo, Brazil)</i>
SP241	Literacy on Oral Health of Parents of Children with SCZV. D. NARIMATSU*, K. ALMEIDA, C. ALVES, I. DELGADO, C.L. ORTOLANI <i>(Universidade Paulista, São Paulo, Brazil)</i>
SP242	Assessment of the Lingual Frenulum in Newborns. K. ALMEIDA*, T. DEMETER, D. NARIMATSU, C. ALVES, C.L. ORTOLANI <i>(Pos graduate Program, University Paulista, Sao Paulo, Brazil)</i>
SP243	Stainless Steel Crowns Versus Composites After Primary Molars Pulpotomies: 30-Months-Results. I. BEKTAS*, G. ILDES, B. SEZGIN, O. KOYUNCU, A. MENTES <i>(Pediatric Dentistry, Marmara University Dental Faculty, Istanbul, Turkey)</i>
P244	Oral Health Perceptions Related to Dietary Risk Factors in Early Childhood Caries. M. MUSTAFA*, E.F. NASIR, A.L. TOFTESUND, A. NORDREHAUG ÅSTRØM <i>(Oral health Centre of Expertise, Bergen, Norway)</i>
P296	Risk Factors for Repeated Pediatric Dental Treatments Under General Anesthesia. K. SCHOLZ*, V. KARL, K.-A. HILLER, I. TABENSKI, F. SCHENKE, W. BUCHALLA, C. KIRSCHNECK, K. BEKES, F. CIEPLIK <i>(University Hospital Regensburg, Department of Conservative Dentistry and Periodontology, Regensburg, Germany, Germany)</i>
P404	Schoolchildren's Treatment Needs and Caries After 2-Years of Professional Toothbrushing. C. BONIFACIO*, M. BAKKER, R. JORGE, V. SOVIERO, D. HESSE <i>(Paediatric Dentistry, ACTA, Amstelveen, Netherlands)</i>



GERIATRIC ORAL RESEARCH	
SP245	Oral Care for Inpatients with Dysphagia; Exploring Barriers and Facilitators. C. CURTIN*, A. BARRETT, L. HEALY, M. HAYES <i>(University College Cork, Cork, Ireland)</i>
P246	Prosthetic Crowns Presence Increase Residual Teeth Number in the Elderly. A. BERARD*, D. GILLET, P. POISSON, I. BOURDEL-MARCHASSON, V. DUPUIS <i>(C.H.U. Bordeaux, Bordeaux, France)</i>
ORTHODONTICS RESEARCH	
SP247	Stage-Model Intervention to Enhance Adherence in Obstructive Sleep Apnoea Patients. H. TALLAMRAJU*, J.T. NEWTON, P.S. FLEMING, A. JOHAL <i>(Centre for Oral Bioengineering , Queen Mary University of London, London , Whitechapel, United Kingdom)</i>
SP248	Sex as a Mediator of Malocclusion Perception and Impact on Quality of Life in Adolescents. I. DELGADO*, C. ALVES, D. NARIMATSU, K. ALMEIDA, L. SILVA, C.L. ORTOLANI <i>(Postgraduate Program, University Paulista, Sao Paulo, Brazil)</i>
SP250	Relationships Between Dental Calcification and Vertebral Maturation in Mp3cap Stage. H.M. ERSEN*, Z. ILERI <i>(Selcuk University Faculty of Dentistry, Konya, Turkey)</i>
STEM CELL BIOLOGY RESEARCH	
SP251	Immunological Potential of HMSC Secretome Is Dependent on Tissue Source. I. CARLSTRÖM*, N. AL-SHARABI, E. BIRKELAND, K. MUSTAFA, A.I. BOLSTAD <i>(Department of Clinical Dentistry, University of Bergen, Bergen, Norway)</i>
P252	Screening SHED Gene Expression in Xeno-Free Medium by Next-Generation Sequencing. P. THEERAPORN, H. SRITANAUDOMCHAI, N. TANGJIT, S. DECHKUNAKORN, N. ANUWONGNUKROH, S. SANGKHAMANE* <i>(Oral Medicine and Periodontology, Faculty of Dentistry, Mahidol University, Bangkok, Thailand)</i>
SP253	3D Printed PLATMC Scaffolds Induce Consistent Host Immune Response. J.S. HAGENES*, Ø. GOKSØYR, M. YASSIN, S.A. LIE, T. OSMAN, K. MUSTAFA <i>(Center of Translational Oral Research, Department of Clinical Dentistry, University of Bergen, Bergen, Norway)</i>



SP254	<p>Expression of Hippo Pathway Components in Adult Dental Mesenchymal Stem Cells.</p> <p>M. MITEVA*, Z. MIHAYLOVA, K. KERCEVA, M. DRAGNEVA, A. VASILEV, M. KANDINSKA-VASILEVA, N. ISHKITIEV</p> <p><i>(Medical Chemistry and Biochemistry, Medical University - Sofia, Sofia, Bulgaria)</i></p>
P255	<p>Definition of Different Cell Populations in Heterogeneous Primary DFSC Cultures.</p> <p>N. ISHKITIEV*, M. MITEVA, V. DIMITROVA, Z. MIHAYLOVA</p> <p><i>(Medical Chemistry and Biochemistry, Medical University - Sofia, Sofia, Bulgaria)</i></p>
SP256	<p>In Vitro Three-Dimensional Organotypic Culture Model of the Oral Mucosa.</p> <p>I. ANGELOPOULOS, F. MACHLA, P.K. MONOU, D. FATOUROS, D. ANDREADIS, A. BAKOPOULOU*</p> <p><i>(Department of Prosthodontics, Tissue Engineering Core Unit, School of Dentistry, Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece, Aristotle University of Thessaloniki, Thessaloniki, Greece)</i></p>
P257	<p>Novel Fluorescent RNA Binding dye in Adult Mesenchymal Stem Cell.</p> <p>Z. MIHAYLOVA*, M. MITEVA, N. ISHKITIEV, S. KALENDEROVA, M. KANDINSKA-VASILEVA, A. VASILEV</p> <p><i>(Medical University Sofia, Sofia, Bulgaria)</i></p>
P258	<p>Dental Pulp Stem Cells: a Promising CMT1A in Vitro Model.</p> <p>H. STEFFIE*, T. VANGANSEWINKEL, I. LAMBRICHTS, E. WOLFS</p> <p><i>(Hasselt University, Hasselt, Belgium)</i></p>
SP259	<p>M2 Muscarinic Receptor Modulates Dental Pulp Stem Cell Behaviour.</p> <p>S. ALQAHTANI*, W. MCLEAN, C. NILE</p> <p><i>(University of Glasgow, Glasgow, United Kingdom)</i></p>
SP261	<p>Characterisation of Periodontal Stem Cells Isolated from Osteoporotic Patients.</p> <p>A. ALGHAMDI*, J. MEADE, T. LI, A. MCKECHNIE, E. JONES, R. EL-GENDY</p> <p><i>(University of Leeds, Leeds, United Kingdom)</i></p>
P294	<p>Heterogeneity of Multipotent Cleft lip and Palate-Derived Fibroblasts.</p> <p>L. PARISI*, S. RIHS, G. LA SCALA, I. SCHNYDER, K. CHRISTOS, M. DEGEN</p> <p><i>(Orthodontics and Dentofacial Orthopedics, University of Bern, Bern, Switzerland)</i></p>

DENTAL MATERIALS: POLYMER-BASED MATERIALS	
P262	Deterioration of Dental Restorative Materials Under Erosive and Mechanical Wear. A. MULIC*, I. R. STENHAGEN, E. BRUZELL, D. ALKARRA, A. TULEK <i>(Nordic Institute of Dental Materials, Oslo, Norway)</i>
SP263	Optical Characteristics of Short Fiber-Reinforced Composite in Bilayered Structure. A. SARMIALA*, L. LASSILA, T. NÄRHI, P. VALLITTU, A.-M. LE BELL-RÖNNLÖF <i>(University of Turku, Turku, Finland)</i>
P264	To Ascertain the Current Level of Understanding Regarding the Use of Light Curing Units Among General Dental Practitioners in Ireland. E. RYAN* <i>(Restorative Dentistry, UCC, Cork, Ireland)</i>
P265	Influence of Ionizing Radiation on Restorative Materials with Fluoride Release Effect. E. KLARIC*, B. ŠPILJAK, L. ŠIMUNOVIĆ, S. TURJANSKI, M. SOČE, T. GREGO <i>(Department of Endodontics and Restorative Dentistry, School of Dental Medicine, Zagreb, Croatia)</i>
P266	High Wettability of Paste-Type Alginate Impression Material for Precise Impression. A. HIRANO*, A. TACHINO, F. FUSEJIMA <i>(R&D dept., GC Corporation, Itabashi-ku, Tokyo, Japan)</i>
P267	Effect of Reinforcement on Selected Properties of Resin-Modified Glass Ionomer Cements. E. SÄILYNOJA*, P. VALLITTU, T. PELTOLA, S. GAROUSHI, L. LASSILA <i>(Stick Tech Ltd., Turku, Finland)</i>
P268	Discoloration Resistance Property of Light-Cured Characterization Materials. K. TANAZAWA*, S. KARIYA, F. FUSEJIMA <i>(Research & Development Dept., GC Corporation, Kasugai-shi, Japan)</i>
SP269	Resin Composites Surface Hardness and Roughness Evaluation in Drink Solutions. L. GENERALI, E. FORABOSCO*, C. MAZZITELLI, T. MARAVIC, G. BOLELLI, L. LUSVARGHI, U. CONSOLO, V. CHECCHI <i>(CHIMOMO, University of Modena and Reggio Emilia, Modena, Italy)</i>
P270	Dexamethasone-Doped Polymeric Nanoparticles Induced Dentin Remineralization. M. TOLEDANO*, M. TOLEDANO-OSORIO, A.L. MEDINA-CASTILLO, R. TOLEDANO, M.T. OSORIO, E. OSORIO <i>(University of Granada, Granada, Spain)</i>
P271	Mechanical Stability and Ion Release of Experimental Fiber-Reinforced Bioactive Composite. R. PRINSSI*, T. PELTOLA, L. LASSILA, P.K. VALLITTU, S. GAROUSHI, E. SÄILYNOJA <i>(Stick Tech GC, Kaarina, Finland)</i>



P273	Effect of Printer Types on Mechanical Properties of 3D-Printed Splints. J. WADA*, K. WADA, M. GIBREEL, N. WAKABAYASHI, T. IWAMOTO, P. VALLITTU, L. LASSILA <i>(Turku Clinical Biomaterials Centre-TCBC, University of Turku, Turku, Finland)</i>
P274	Heat Generation of Two-Component Composites During Polymerization. M. HAUNER-WESTPHAL*, J. SCHÄDLICH, A. CAVALLERI <i>(Ivoclar, Schaan, Liechtenstein)</i>
SP275	Color Stability of Different CAD/CAM Blocks Against Coloration with Coffee. P. ULUÇ*, E. ÇOBAN, A.C.T. ÇELIK, H.E. ÜLKER <i>(Selcuk University Faculty of Dentistry, Konya, Turkey)</i>
P276	Surface Gloss and Wear of Short-Fiber Reinforced CAD/CAM Composite Block. S. GAROUSHI, E. SÄILYNOJA, R. PRINSSI, B. DOPHEIDE*, P. VALLITTU, L. LASSILA <i>(GC Europe N.V., Leuven, Belgium)</i>
P277	Effect of Nitrogen Gas on Mechanical Properties of 3D-Printed Splint. K. WADA*, J. WADA, M. GIBREEL, T. IWAMOTO, N. WAKABAYASHI, P. VALLITTU, L. LASSILA <i>(Turku Clinical Biomaterials Centre-TCBC, University of Turku, Turku, Finland)</i>
P278	Mechanical Properties of 3D-Printed Provisional Material Compared to Milled Material. V. DERENDORF, A. KASTRATI, W. LOH, A. HERR* <i>(Kulzer GmbH, Hanau, Germany)</i>
SP279	Effect of Ultrasound on Setting Reaction and Microhardness of GIC. D. ALMODDAHI*, B. ALSHEHRI, S. SHAHID, N. KARPUKHINA <i>(Queen Mary University of London, London, United Kingdom)</i>
P280	Effects of Home-Bleaching Agents on Physical Properties of Dental Materials. N. DONMEZ*, G. DONMEZ KIRAN <i>(Restorative Dentistry, Bezmialem Vakif University, Istanbul, Fatih, Turkey)</i>
SP281	Inlay Retained 3D Printed Three-Unit Fiber-Reinforced Composite (FRC) Fixed Dental Prostheses (FDP). J. BIJELIC-DONOVA*, S. GAROUSHI, M. LÄHDENPERA, L. LASSILA <i>(Department of Prosthetic Dentistry, Institute of Dentistry, University of Turku, Turku, Finland)</i>
P282	New Criteria for Standardized Evaluation of Sculptable Composite Handling. C. PENTELESCU*, A. PESCHKE, R. WATZKE, L. ENGGIST, M. HU, T. GLEBOVA <i>(RCC, Ivoclar Vivadent AG, Schaan, Liechtenstein)</i>
SP284	The Color Stability of Composite Resins with and without Periodic Brushing. B. SADIOGLU*, M.C. ERSEN, I. KAYA, N. COBANOGLU <i>(Restorative Dentistry, Selcuk University Faculty of Dentistry, Konya, Turkey)</i>
P285	Spatial Polymerisation Characteristics of Bulk Fill Materials Cured with High Irradiance. M. HADIS*, W. PALIN <i>(School of Dentistry, University of Birmingham, Birmingham, United Kingdom)</i>

P286	Temperature Increase During Polymerization in Short Fiber-Reinforced Composites. A.-M. LE BELL-RÖNNLÖF*, H. PAATSAMALA, T. NÄRHI, P. VALLITTU, L. LASSILA <i>(University of Turku, Turku, Finland)</i>
P287	Physical Properties of a new one-Shade Flowable Bulk-Fill Composite. J. SCHWEPPE*, A. UTTERODT, C. MEIER, M. ECK, K. REISCHL <i>(Global Scientific and Clinical Affairs, Kulzer GmbH, Hanau, Germany)</i>
SP288	Light Attenuation Effect: Depending on Different Thicknesses of Resin-Matrix Ceramic Material. I. OKTEN*, M. UCTASLI <i>(Department of Restorative Dentistry, Faculty of Dentistry, Ege University, Izmir, Turkey)</i>
SP289	Right Choice of Finishing for the Smoothest Surface of Amalgam-Replacement Materials. A. BEHLAU*, I. DINSLAKEN, T. SCHMID, M. PAYER, G. LEITINGER, L. KQUIKUIBLEKAJ, K. HANSCHO, K. GLOCKNER <i>(Medical University of Graz, Graz, Austria)</i>
P290	Development and Characterization of Bioactive Fiber-Reinforced Composite. S. GAROUSHI*, P. VALLITTU, L. LASSILA <i>(Biomaterials Science, University of Turku, Turku, Finland)</i>
P291	Viscoelastic Behavior of Universal Chromatic Micro-Hybrid Resin-Based Composites After Accelerated Aging. A. IONESCU*, N. ILIE <i>(Biomedical, Surgical, and Dental Sciences, University of Milan, Milan, MB, Italy)</i>
P403	Development of a Novel Resin-Modified Glass-Ionomer Cement with Improved Mechanical Properties. A. AGHA*, M.A. ALABKAL, N. KARPUKHINA, M. PATEL <i>(Barts and the London School of Medicine and Dentistry, Queen Mary University of London, London, United Kingdom)</i>
EDUCATION RESEARCH	
P402	Undergraduate Students' Performance in Oral Radiology During Covid-19 Pandemic. K. MÜCKE*, C. BUSCH, J. BECKER, D. DRESCHER, K. BECKER <i>(Department of Orthodontics, University Hospital Düsseldorf, Düsseldorf, Germany)</i>
P405	Challenges to Provision of Final Year OSCE Assessment During COVID-19 Pandemic. M. LAPPIN*, L. DYSART, W. TURNER, C. IRWIN <i>(Restorative Dentistry, Queen's University Belfast, Bangor, United Kingdom)</i>



SEQ#: 38**SYMPOSIUM****13:30 - 15:30****AUDITORIUM - LEVEL 0****EATING DISORDERS: NEW INSIGHTS INTO CLINICAL MANAGEMENT OF ORAL COMPLICATIONS (SUPPORTED BY Oral-B)****Chairpersons:** V. Monnet-Corti

Q036	13:30	Diagnosis and Early Management of Erosive Tooth Wear in Children and Adolescents. A. LUSSI* (<i>University of Bern, Switzerland, Bern, Switzerland</i>)
Q037	14:05	Eating Disorders: how to Decipher the Clinical Complexity, as Well as in Psychological, Medical and Dental Consequences. P. COLON* (<i>University of Paris, Paris, France</i>)
Q038	14:40	Periodontal Health in Patients with Anorexia Nervosa and Bulimia Nervosa. H. RANGÉ* (<i>Department of Periodontology, Université Paris Cité, Paris, France</i>)
	15:15	Discussion

SEQ#: 39**SYMPOSIUM****13:30 - 15:30****HALL MAJOR - LEVEL 2****STEM CELLS IN BONE REGENERATION: FUTURE IS NOW (SUPPORTED BY THE UNIVERSITY OF BERGEN (MAXIBONE PROJECT))****Chairpersons:** K. Mustafa and G. Strand

Q039	13:30	Autografts: Osteogenicity and Other Properties. R. GRUBER* (<i>University of Vienna, Vienna, Austria</i>)
Q040	14:05	Regeneration of Cranio-Maxillofacial Bone with Autologous Adipose Tissue Derived Stem Cells and Biomaterials. S. MIETTINEN* (<i>Tampere University, Tampere, Finland</i>)
Q041	14:40	Bone Marrow Mesenchymal Stem Cells in Reconstruction of Alveolar Bone - RCT Clinical Trial. K. MUSTAFA* (<i>University of Bergen, Bergen, Norway</i>)
	15:15	Discussion



SEQ#: 40		
SYMPOSIUM		
13:30 - 15:30		SALLE 120 - LEVEL 0
THE ART AND SCIENCE OF MINIMALLY INVASIVE OPERATIVE CARIES MANAGEMENT (SUPPORTED BY PULPDENT)		
Chairperson: H. Tassery		
Q042	13:30	The Art & Science of Minimally Invasive Operative Caries Management. A. BANERJEE* (<i>King's College, London, United Kingdom</i>)
Q043	14:05	The Science of Bio-Interactive Adhesion. S. SAURO* (<i>Dental materials & Minimally Invasive Dentistry, University CEU Cardinal Herrera, Alfará del Patriarca, Spain, Spain</i>)
Q044	14:40	The Art of Bio-Interactive Material Clinical Applications. L.S. TURKUN* (<i>Restorative Dentistry, Ege University, Izmir, Turkey</i>)
	15:25	Discussion
SEQ#: 41		
ORAL SESSION		
13:30 - 15:30		JOLIETTE - LEVEL 1
IMPLANTOLOGY RESEARCH		
Chairpersons: K. Gurzawska-Comis and R. Kolerman		
SO155	13:30	Guided Bone Regeneration in Osteoporosis by Plant-Derived Nanoparticles. K. GURZAWSKA-COMIS*, S. SULIMAN, A. MIESZKOWSKA, S. MOHAMED AHMED, A. FINNE WISTRAND, T. FUOCO, B. JØRGENSEN, K. MUSTAFA (<i>Oral Surgery, Life Course and Medical Science, Liverpool, United Kingdom</i>)
SO156	13:45	Liposomal Resolvin-D1 for Bone Remodeling: Based on Immunotherapy and Nanotechnology. N. PINTO*, S. CHAUSHU, Y. BARENHOLTZ, Y. KLEIN, E. DAVID (<i>Orthodontics, Hebrew University-Hadassah Faculty of Dental Medicine, Jerusalem, Israel</i>)
O158	14:00	Implants-Derived Nanoparticles and Response of Gingival MSCs to Inflammatory Cytokines. O. ANDRUKHOV*, V. MAIERHOFER, C. JAKOB, C. BEHM (<i>Competence Center for Periodontal Research, University Clinic of Dentistry, Medical University of Vienna, Vienna, Austria</i>)
O159	14:15	Immediate Restoration of Implants Using a Volume-Stable Collagen Matrix. R. KOLERMAN*, N. TAGGER-GREEN (<i>Periodontology, Tel-Aviv University, Tel-Aviv, Israel</i>)
SO160	14:30	New Radiographic Method to Measure Marginal Bone Level Around Implants. A. CHACUN*, K. GRITSCH, A. LAFON, B. GROSGOGEAT (<i>Faculté d'Odontologie, Laboratoire des Multimatiériaux et Interfaces UMR CNRS 5615, Université Lyon 1, Université de Lyon, Lyon, France</i>)

SO161	14:45	Effect of Antibiotic Prophylaxis in Dental Implant Surgery- a Systematic Review. P. MOMAND*, A. NAIMI-AKBAR, M. HULTIN, B. LUND, B. GÖTRICK (<i>Oral Diagnostics, Malmö University, Malmö, Sweden</i>)
O162	15:00	Peri-Implantitis Effect on Dental Implants' Passivation Layer: From Biocompatible to Bio-Reject. K. SHEMTOV-YONA*, D. RITTEL, A. SHAVIT (<i>Oral Biology, Tel-Aviv University, Israel</i>)
	15:15	Discussion
SEQ#: 42		
ORAL SESSION		
13:30 - 15:30		ESTAQUE - LEVEL 1
DENTAL MATERIALS: ADHESION, BIOCOMPATIBILITY AND BIOLOGIC EFFECTS		
Chairpersons: N. Attik and V. Stefanova		
SO163	13:30	Shear-Bond Strength of Glass Ionomer-Based Materials to Calcium-Hydroxide Liner. L. FAZLIOĞLU*, Z. OZDUMAN, B. OGLAKCI, C. DEĞER, E. DALKILIC (<i>Restorative Dentistry, Bezmialem Vakif University, Istanbul, Turkey</i>)
SO164	13:45	Does Etching Mode Affect Bonding of Resin Composites to TheraCal-LC? M. DOGAN*, C. DEĞER (<i>Bezmialem Vakif University, Istanbul, Turkey</i>)
SO165	14:00	Is Marginal Seal in Class II Affected by Location/Placement Technique? M. HADDAD*, S. MATALON, M. BARHUM, T. BROSH (<i>Tel Aviv University, Haifa, Israel</i>)
SO166	14:15	Resin Matrix Composition Influences Bisphenol a Elution from Experimental Composites. S. DE NYS, M. TURKALJ*, R.C. DUCA, P. VERVLIIET, A. COVACI, I. BOONEN, M. ELSKENS, J. VANOIRBEEK, L. GODDERIS, B. VAN MEERBEEK, K. VAN LANDUYT (<i>KU Leuven (University of Leuven), Department of Oral Health Sciences, BIOMAT & University Hospitals Leuven (UZ Leuven), Dentistry, Leuven, Belgium, Leuven, Belgium</i>)
O167	14:30	Influence of Denture Base Materials on the Attachment of Microorganisms. A. SCHMUTZLER*, C. STINGU, E. GÜNTHER, F. FUCHS, A. KOENIG, S. HAHNEL (<i>Department of Prosthetic Dentistry, Regensburg University Medical Center, Regensburg, Germany</i>)
O168	14:45	Residual Bioceramic Endodontic Sealer Evaluation in Endodontic Retreatment. V. STEFANOVA*, K. ZHEKOV (<i>Operative Dentistry and Endodontics, Medical University of Plovdiv, Plovdiv, Bulgaria</i>)



O169	15:00	Minimally Invasive Dental Implant: Topographical Surface and Biological Behaviour Assessment. N. ATTIK*, M. PHANTARASMY, H. ABOUELLEIL, C. CHEVALIER, A. BARRACO, B. GROSGOGEAT, A. LAFON (<i>Université Claude Bernard, Lyon1, Faculté d'odontologie de Lyon, Lyon, France</i>)
O170	15:15	Evaluation of Cytotoxicity of Toothpastes Used for Different Purposes. H. ÜLKER*, F. KAHVECIOGLU, G. TOSUN (<i>Department of Restorative Dentistry, University of Selçuk, Konya, Turkey</i>)
SEQ#: 43		
ORAL SESSION		
13:30 - 15:30		GRAND LARGE - LEVEL 1
EDUCATION RESEARCH		
Chairpersons: S. Lucey and C. Volgenant		
O172	13:30	Learning Spaces in Undergraduate Dental Education: a Scoping Review Protocol. S. LUCEY*, B. SUPPLE, F. BURKE (<i>Cork University Dental School and Hospital, Cork, Ireland</i>)
SO173	13:45	Undergraduate Teaching and Assessment Methods in Dental Implants Curriculum. K. AL KHALAF*, C. MOORE, G. MCKENNA, C. DA MATA, C. LYNCH (<i>Restorative Dentistry, University College Cork, Cork, Ireland</i>)
O174	14:00	Occlusal Devices in France: an Assessment of Professional Practice. S. KRIEF*, M. JEANY, J.-D. ORTHLIEB, J.-P. RÉ, R. LAN (<i>Aix-Marseille University, Marseille, France</i>)
SO175	14:15	Evaluation of the Perceived Stress in Final-Year Dental Students. N. KODAMAN DOKUMACIGIL*, B. KARGUL (<i>Department of Pediatric Dentistry, Faculty of Dentistry, Marmara University, Istanbul, Turkey</i>)
SO176	14:30	Machine Learning in Dentistry: Systematic Review. L. ARSIWALA-SCHEPPACH*, A. CHAURASIA, A. MUELLER, J. KROIS, F. SCHWENDICKE (<i>Charité Universitätsmedizin Berlin, Berlin, Germany</i>)
O177	14:45	Students' Fingers Power Regulation is Affected by Phantom Course Training. T. BROSH*, Y. LEVANON, M. KHALAILY, S. PORTNOY, D. LUGASSY (<i>Oral Biology, School of Dentistry, Tel Aviv University, Tel Aviv, Israel</i>)
SO178	15:00	Knowledge and Self-Confidence of Dental Students About Implants: Online Survey. G. GÜRSES, F.I. ÖMEROĞLU AKKOÇ*, A. AKTI, A. KALAYCI (<i>Selçuk University, Konya, Turkey</i>)
	15:15	Discussion



SEQ#: 44

SYMPOSIUM

16:00 - 18:00

AUDITORIUM - LEVEL 0

**BIOLOGICAL AND CLINICAL ASPECTS OF MODERN COMPOSITE TECHNIQUES
(SUPPORTED BY NIOM)**

Chairperson: F. Staxrud

Q045	16:00	The Science of Modern Composite Techniques. P. VALLITTU* (<i>University of Turku, Turku, Finland</i>)
Q046	16:35	Biological Aspects of Modern Composite Materials. J. SAMUELSEN* (NIOM, Oslo, Norway)
Q047	17:10	Clinical Aspects of Modern Composite Techniques. N. OPDAM* (<i>Dentistry, Radboud University Nijmegen, Nijmegen, Netherlands</i>)
	17:45	Discussion

SEQ#: 45

SYMPOSIUM

16:00 - 18:00

HALL MAJOR - LEVEL 2

**ANTIMICROBIAL RESISTANCE: OFF-TARGET EFFECTS OF ANTIBIOTICS,
NEW APPROACHES AND EDUCATIONAL CHALLENGES (SUPPORTED BY THE
UNIVERSITY OF OSLO)**

Chairpersons: J. Baker and A. Ricomini Filho

Q048	16:00	Antibiotic Exposure: the Growing Concern About off-Target Effects. F. PETERSEN* (<i>University of Oslo, Oslo, Norway</i>)
Q049	16:25	Bioinformatics Tools and Databases for Studying Resistome. T. CHEN* (<i>Harvard School of Dental Medicine, Boston, Massachusetts, USA</i>)
Q050	16:50	Bacterial Warfare Involving Antimicrobial Factors Produced by Oral Streptococci. M. FEDERLE*, B. RUED (<i>University of Illinois, Chicago, Illinois, USA</i>)
Q051	17:15	Global Challenges in Dental Education on Antimicrobial Resistance. R. JUNGES* (<i>University of Oslo, Oslo, Norway</i>)
	17:40	Discussion



SEQ#: 46		
ORAL SESSION		
16:00 - 18:00		SALLE 120 - LEVEL 0
PERIODONTAL RESEARCH - THERAPY		
Chairpersons: G. Isola and M. Toledano-Osorio		
O179	16:00	M101, an Oxygen Carrier Derived from Arenicola Marina, Ameliorates Bone Healing. O. HUCK*, C. STUTZ, F. BATOOL, P.-Y. GEGOUT, G. ROCHEFORT, F. ZAL, E. LEIZE-ZAL, C. PETIT <i>(Dental Faculty, Strasbourg, France)</i>
O181	16:15	Non-Surgical Periodontal Therapy Ameliorates Dysbiosis in Children with Primary Immunodeficiencies. A. STEPHEN*, S. WORRALL, J. BAYLISS-CHAPMAN, C. SOMANI, R. ALLAKER, J. DAVIES, L. NIBALI, N. DONOS <i>(Institute of Dentistry, Queen Mary University of London, London, United Kingdom)</i>
SO182	16:30	OMVs of Porphyromonas Gingivalis as Therapeutic Targets for Human Antibodies. R. CHANCE*, A. MIRZA, A. HASHIM, J. ADUSE-OPOKU, M. CURTIS, A. KANG <i>(Faculty of Medicine & Dentistry, Queen Mary University of London, London, United Kingdom)</i>
SO183	16:45	Machined Fiberglass Periodontal Retainers. A. BRINCAT*, C. SADOWSKI, A. ANTEZACK, V. MONNET-CORTI <i>(Periodontology, Aix-Marseille, Toulon, France)</i>
SO184	17:00	Effects of Periodontal Treatment on MiRNAs Expression in Periodontitis Patients. G. ISOLA*, S. SANTONOCITO, A. POLIZZI, V. RONSIVALLE, R. SCLAFANI, R.C. WILLIAMS, R.M. LEONARDI <i>(Department of General Surgery and Surgical-Medical Specialties, School of Dentistry, University of Catania, Catania, Italy)</i>
SO185	17:15	Osteogenic Potential of Doxycycline Doped Collagen Membranes. M. TOLEDANO-OSORIO*, E. LUNA-BERTOS, M. TOLEDANO, F.J. MANZANO-MORENO, E. GARCÍA-RECIO, C. RUIZ, R. OSORIO, M. SANZ <i>(Dentistry Department, Dental School, University of Granada, Granada, Spain)</i>
SO186	17:30	Cell Secretome-Based Strategy for in Vivo Guided Bone Regeneration. S. SHANBHAG*, N. AL-SHARABI, C. KAMPLEITNER, S. MOHAMED AHMED, S. TANGL, M. SANZ, K. MUSTAFA, R. GRUBER <i>(Department of Clinical Dentistry, University of Bergen, Bergen, Norway)</i>
	17:45	Discussion

SEQ#: 47

ORAL SESSION

16:00 - 18:00

JOLIETTE - LEVEL 1

STEM CELL BIOLOGY RESEARCH

Chairpersons: A. Bronckaers and E. Weinberg

O187	16:00	Single-Cell RNA Sequencing of Fibroblasts from the Oral Mucosae. A. WEINBERG*, I. PINKHASOV, C. NEMCOVSKY, D. BAR <i>(Periodontology and Dental Implantology, Tel Aviv University, Herzellia, Israel)</i>
SO188	16:15	Osteogenic Profile of Mechanically Stimulated Mesenchymal Stem Cells. S. YAMADA*, M. YASSIN, J. GREEN, J. HANSMANN, K. MUSTAFA <i>(Centre of Translational Oral Research, University of Bergen, Bergen, Norway)</i>
SO190	16:30	Mouse Tooth Organoids: Expanding the Toolbox of Dental Regenerative Medicine. F. HERMANS*, L. HEMERYCK, I. LAMBRICHTS, H. VANKELECOM, A. BRONCKAERS <i>(Biomedical Research Institute, Faculty of Medicine and Life Sciences, Hasselt University, Hasselt, Belgium)</i>
O191	16:45	Endothelial Expression of ALDH1&2 in Oral Cancer and Leukoplakia. D. ANDREADIS*, V. ZISIS, E. ANAGNOSTOU, P. ANASTASIADOU, A. POULOPOULOS <i>(Oral Medicine and Pathology, Aristotle University of Thessaloniki School of Dentistry, Thessaloniki, Thessaloniki, Greece)</i>
O192	17:00	Exosomes of Dental Pulp Cells Cultivated in Hollow Fiber Bioreactor. P. LINS, L. IVO, B. HOSSEINKHANI, L. MICHIELS, I. NELISSEN, A. BRONCKAERS* <i>(BIOMED, Hasselt University, Diepenbeek, Please select, Belgium)</i>
SO193	17:15	Dental Stem Cells-Mediated Suicide Gene Therapy for Oral Cancer. J. VAN DEN BOSCH*, S. FIETEN, K. NIJSTEN, I. LAMBRICHTS, E. WOLFS <i>(Hasselt University, Faculty of Medicine and Life Sciences, BIOMED, Diepenbeek, Belgium)</i>
SO194	17:30	Condensed Adipose Tissues Membrane as Potential Implants to Bridge Soft Tissues. A. ZIGRON*, I. REDENSKI, S. SROUJI <i>(Oral and Maxillofacial Department, Galilee College of Dental Sciences - Galilee Medical Center-Azrieli, Netanya, Israel, Israel)</i>
	17:45	Discussion



SEQ#: 48

ORAL SESSION

16:00 - 18:00

ESTAQUE - LEVEL 1

DENTAL MATERIALS: ADHESION

Chairpersons: M. Ahmed and A. Schedle

SO195	16:00	<p>Bonding Hydrophobic 2-Step Universal Adhesives to Low C-Factor Flat Dentin.</p> <p>A. TANG*, M. AHMED, C. YAO, B. MERCELIS, B. VAN MEERBEEK <i>(Department of Oral Health Sciences, BIOMAT & University Hospitals Leuven (UZ Leuven), Dentistry, KU Leuven (University of Leuven), Leuven, Belgium)</i></p>
SO196	16:15	<p>Ionic Bonding Potential of New Methacrylamide Functional Monomers.</p> <p>M. AHMED*, K. YOSHIHARA, K. VAN LANDUYT, M. PEUMANS, B. VAN MEERBEEK <i>(KU Leuven (University of Leuven), Department of Oral Health Sciences, BIOMAT & UZ Leuven (University Hospitals Leuven), Dentistry, Leuven, Belgium)</i></p>
O197	16:30	<p>Dentin/Enamel Shear-Strengths and Failure-Modes of Self-Etch and Universal Bonding Agents.</p> <p>A. SCHEDLE*, S. LETTNER, A. FRANZ <i>(University Clinic of Dentistry, Medical University of Vienna, Vienna, Austria)</i></p>
O198	16:45	<p>Bonding Performance of Universal Adhesives to Caries-Affected Dentin.</p> <p>Z. BATU EKEN*, N. SIRINSUKAN, E. CAN <i>(Yeditepe University Faculty of Dentistry, Istanbul, Turkey)</i></p>
SO199	17:00	<p>Enamel Microtensile Bond-Strength Characterization of an Experimental-Adhesive Containing a Dendrimer.</p> <p>M. ALVES*, F. BRANCO, A. DELGADO, J. E. CRUZ, A. AZUL, L. GONÇALVES, J. BRITO, M. POLIDO <i>(Biomaterials, Instituto Universitário Egas Moniz, Almada, Portugal)</i></p>
O200	17:15	<p>Surface Pretreatments/Proximal Box Elevation on Adhesion of CAD/CAM Materials.</p> <p>M. FILDISI, E. DALKILIC*, B. OGLAKCI, Z. OZDUMAN <i>(Restorative Dentistry, Bezmialem Vakif University, Istanbul, Turkey)</i></p>
SO201	17:30	<p>Does Composite Repair Time Affect Repair Protocol, Immediate or Delayed?</p> <p>M.C. ERSEN*, B. SADIOGLU, N. ALNAFTACHI, N. COBANOGLU <i>(Selcuk University Faculty of Dentistry, Konya, Turkey)</i></p>
SO202	17:45	<p>Composite Cements Containing 10-MDP Bond to Zirconia without Separate Primer.</p> <p>R.Q. RAMOS*, B. MERCELIS, G.C. LOPES, B. VAN MEERBEEK <i>(Department of Oral Health Sciences, BIOMAT & University Hospitals Leuven (UZ Leuven), KU Leuven (University of Leuven), Leuven, Belgium)</i></p>



SEQ#: 49

KEYNOTE LECTURE

16:00 - 17:00

GRAND LARGE - LEVEL 1

KEYNOTE LECTURE: ORAL HEALTH PROFILE AND CARDIOVASCULAR RISK: THE NUTRITIONAL PATHWAY. (SUPPORTED BY PHILIPS)**Introduction by** M. Carra

Q003	16:00	Oral Health Profile and Cardiovascular Risk: the Nutritional Pathway. P. BOUCHARD* (<i>University of Paris, Par, France</i>)
	16:45	Discussion

