

CHRONOLOGICAL LISTING OF SESSIONS & EVENTS

WEDNESDAY - SEPTEMBER 14, 2022

AWARD COMPETITIONS 13:30 - 16:00

Seq #	Group	Session Title	Room
13:30	Competition	BSODR - Junior and Senior Colgate Prize Competition: by invitation only	Salle 120, Level 0
14:00	Competition	BSODR - GSK-BSODR MINTIG Prize Competition: by invitation only	Salle 76, Level 0
14:00	Competition	BSODR - Septodont Poster Prize Competition: by invitation only	Area close to Salle 120, Level 0
14:00	Competition	BSODR - Voco Dental Materials Prize Competition: by invitation only	Salle 50, Level 0

BOARD MEETING 14:00 - 16:00

Seq #	Group	Session Title	Room
14:00	Meeting	CED-IADR Board Meeting: by invitation only	Salle 36, Level 0

AWARD COMPETITIONS 15:00 - 18:00

Seq #	Group	Session Title	Room
15:00	Competition	NOF Hatton Award Competition: by invitation only	Auditorium, Level 0
16:00	Competition	CED-IADR Robert Frank Competition-Category Junior: by invitation only	Salle 36, Level 0
16:00	Competition	CED-IADR Robert Frank Competition-Category Senior/Basic Science Research: by invitation only	Salle 50, Level 0
16:00	Competition	CED-IADR Robert Frank Competition-Category Senior/Clinical Research: by invitation only	Salle 76, Level 0

BOARD MEETING 17:00 - 18:30

Seq #	Group	Session Title	Room
17:00	Meeting	BSODR Board Meeting: by invitation only	Salle 120, Level 0



THURSDAY - SEPTEMBER 15, 2022

WORKSHOP 8:30 - 10:00

Seq #	Group	Session Title	Room
	Workshop	Young CED-IADR: Database and Reference Managers (supported by Kulzer) - registration mandatory	Mucem, Level 2

SYMPOSIUM 8:30 - 10:00

Seq #	Group	Session Title	Room	Presentation #
#1	Symposium	New Directions in Dental Research (supported by BSODR)	Auditorium, Level 0	Q005-Q006

ORAL SESSION 8:30 - 10:00

Seq #	Group	Session Title	Room	Presentation #
#2	Oral session	Health Service Research	Salle 120, Level 0	O001-O006
#3	Oral session	Pulp Biology & Regeneration Research	Joliette, Level 1	O007-O012
#4	Oral session	Paediatric Oral Health Research	Estaque, Level 1	O013-O017
#5	Oral session	Dental Materials - Ceramics	Grand Large, Level 1	O019-O024

COFFEE BREAK 10:00 - 10:30

COFFEE BREAK
Exhibition Area, Level 0
(included in the registration fee)

SYMPOSIUM 10:30 - 12:30

Seq #	Group	Session Title	Room	Presentation #
#6	Symposium	The scientific evidence for the use of hydraulic cements in clinical Endodontics (supported by Septodont)	Auditorium, Level 0	Q007-Q009
#7	Symposium	Cross-linked hyaluronic acid in oral reconstructive surgery (supported by Regedent)	Hall Major, Level 2	Q010-Q012



ORAL SESSION 10:30 - 12:30

Seq #	Group	Session Title	Room	Presentation #
#8	Oral session	Bioactive Restorative Materials	Salle 120, <i>Level 0</i>	O025-O032
#9	Oral session	Geriatric Oral Research & Diagnostic Sciences	Joliette, <i>Level 1</i>	O033-O040
#10	Oral session	Periodontology and Pharmacology	Estaque, <i>Level 1</i>	O041-O048
#11	Oral session	Orthodontics Research	Grand Large, <i>Level 1</i>	O049-O056

POSTER SESSION 12:00 - 13:00 (PRESENTER PRESENT)

Seq #	Group	Session Title	Room	Presentation #
#12	Poster 01	POSTER SESSION	Poster hall, <i>Level 0</i>	
		Behavioral, Epidemiologic and Health Services Research		P100-P107
		Dental Materials: Ceramic-based Materials		P108-P113, P193
		Dental materials: Metal-based Materials and Other Materials		P114-P115
		Dental Materials: Biocompatibility, Bioengineering and Biologic Effects of Materials		P116-P124, P192-P193
		Dental Materials: Instruments and Equipment		P126
		Cariology Research - Clinical & Epidemiological Studies		P127-P129
		Cariology Research - Demineralization/Remineralization		P131-P133
		Cariology Research - Fluoride & Ca-based products		P134
		Cariology Research - Microbiological Studies/Biofilm		P135-P141
		Clinical Case Reports (all disciplines)		P142-P148, P199
		Diagnostic Sciences		P150
		Education Research		P152
		E-oral Health Network		P154
		Pulp Biology & Regeneration Research		P155-P162, P195
		Salivary Research		P163-P164
		Oral Medicine & Pathology Research		P165-P175
		Periodontal Research - Diagnosis/Epidemiology		P177-P182, P193
		Periodontal Research - Therapy		P183-P191



LUNCH BREAK 12:30 - 13:30

LUNCH
Exhibition Area, Level 0
(included in the registration fee)

GENERAL ASSEMBLY NOF 12:30 - 13:30

Seq #	Group	Session Title	Room
	Meeting	General Assembly NOF - by invitation only	Auditorium, Level 0

MEET THE MENTOR 12:30 - 13:30

Seq #	Group	Session Title	Room
	Meet the Mentor	Meet the Mentor (supported by Colgate) - pre-registration mandatory	Saint Jean/Petit Saint Jean/Lacydon, Level 1

SYMPOSIUM 13:30 - 15:30

Seq #	Group	Session Title	Room	Presentation #
#13	Symposium	Dual-phase substitutes: the added value in bone regeneration (supported by OsteoBiol by Tecnos)	Auditorium, Level 0	Q013-Q015
#14	Symposium	What has dentistry learned from the pandemic? (supported by DentaId Research center)	Hall Major, Level 2	Q016-Q019

ORAL SESSION 13:30 - 15:30

Seq #	Group	Session Title	Room	Presentation #
#15	Oral session	Restorative Materials: Clinical Trials	Salle 120, Level 0	O057-O063
#16	Oral session	Stem Cell Biology, Pulp Biology & Regeneration Research	Joliette, Level 1	O065-O072
#17	Oral session	Instruments and Equipment/Color and Appearance of Polymers	Estaque, Level 1	O073-O080
#18	Oral session	Oral & Maxillofacial Surgery Research	Grand Large, Level 1	O081-O088

BOARD MEETING 14:00 - 18:00

Seq #	Group	Session Title	Room
	Award Competition/ Meeting	Irish Division Scientific Prize Meeting and AGM: by invitation only	Mucem, Level 2



COFFEE BREAK 15:30 - 16:00

COFFEE BREAK
Exhibition Area, Level 0
 (included in the registration fee)

SYMPOSIUM 16:00 - 18:00

Seq #	Group	Session Title	Room	Presentation #
#19	Symposium	YOUNG CED-IADR: Novel chemical modifications and treatments to create easy, smart and durable polymers and interfaces (supported by Colgate)	Auditorium, <i>Level 0</i>	Q020-Q022
#20	Symposium	Clinical evidence and results on novel soft tissue engineered acellular dermal matrix and immediate loading performance in implant dentistry (supported by BioHorizons Camlog)	Hall Major, <i>Level 2</i>	Q023-Q025

ORAL SESSION 16:00 - 18:00

Seq #	Group	Session Title	Room	Presentation #
#21	Oral session	Pharmacology, Oral Medicine and Pathology Research	Joliette, <i>Level 1</i>	O089-O096
#22	Oral session	Microbiology/Immunology	Estaque, <i>Level 1</i>	O097-O103

KEYNOTE LECTURE 16:00 - 17:00

Seq #	Group	Session Title	Room	Presentation #
#23	Keynote	Silver agers, but silver gone: are demographics, epidemiology and dental restorative care approaches in sync? (supported by DMG)	Grand Large, <i>Level 1</i>	Q001
#24	Keynote	BSODR President's lecture: Clinically-inspired translational microbiology: from standardisation to molecular mechanisms	Salle 120, <i>Level 0</i>	Q055

OPENING CEREMONY 18:30 - 19:30

OPENING CEREMONY
 Auditorium, *Level 0*

RECEPTION 19:30 - 21:30

RECEPTION AFTER THE OPENING CEREMONY
 Registration free, but mandatory (at registration process)
 Terrace of the Pharo Palace



FRIDAY - SEPTEMBER 16, 2022

WORKSHOP 8:30 - 10:00

Seq #	Group	Session Title	Room
	Workshop	Young CED-IADR: Let's Talk Science - Tips & Tricks on Scientific Communication (supported by Kulzer) - registration mandatory	Mucem, Level 2

SYMPOSIUM 8:30 - 10:00

Seq #	Group	Session Title	Room	Presentation #
#25	Symposium	Focusing on Clinical and Translational Research in Ireland (supported by the Irish Division of IADR)	Auditorium, Level 0	Q026-Q028

ORAL SESSION 8:30 - 10:00

Seq #	Group	Session Title	Room	Presentation #
#26	Oral session	Dental Materials: Biocompatibility, Bioengineering and Biologic Effects of Materials	Hall Major, Level 2	O259-O264
#27	Oral session	Periodontal Research: Diagnosis and Epidemiology	Salle 120, Level 0	O105-O110
#28	Oral session	Cariology Research: Demineralization/Remineralization	Joliette, Level 1	O111-O116
#29	Oral session	Clinical and Translational Science Network	Estaque, Level 1	O117-O122

KEYNOTE LECTURE 9:00 - 10:00

Seq #	Group	Session Title	Room	Presentation #
#30	Keynote	Bioactive Dental Concepts: When and How to Incorporate Ion Release within Biomaterials. (supported by SDI)	Grand Large, Level 1	Q002

COFFEE BREAK 10:00 - 10:30

COFFEE BREAK
Exhibition Area, Level 0
(included in the registration fee)



SYMPOSIUM 10:30 - 12:30

Seq #	Group	Session Title	Room	Presentation #
#31	Symposium	Irreversible pulpitis treatment: myth or reality? (supported by Septodont)	Auditorium, Level 0	Q029-Q031
#32	Symposium	Guided biofilm therapy- new protocol in dental prophylaxis (supported by EMS)	Hall Major, Level 2	Q032-Q035

ORAL SESSION 10:30 - 12:30

Seq #	Group	Session Title	Room	Presentation #
#33	Oral session	Dental Materials: Polymer-based Materials	Salle 120, Level 0	O123-O130
#34	Oral session	Behavioral, Epidemiologic and Health Services Research	Joliette, Level 1	O131-O137
#35	Oral session	Tooth Wear, Erosion and Dentin Hypersensitivity	Estaque, Level 1	O139-O143
#36	Oral session	Oral Health Research 1	Grand Large, Level 1	O147-O154

POSTER SESSION 12:00 - 13:00 (PRESENTER PRESENT)

Seq #	Group	Session Title	Room	Presentation #
#37	Poster 02	POSTER SESSION	Poster hall, Level 0	
		Clinical and Translational Science Network		P200-P201
		Craniofacial Biology Research		P203
		Implantology Research		P204-P214
		Microbiology/Immunology		P216-P223, P295-299, P400
		Oral Health Research		P224-237, P292-293
		Paediatric Oral Health Research		P238-P244, P296, P404
		Geriatric Oral Research		P245-P246
		Orthodontics Research		P247-P250
		Stem Cell Biology Research		P251-P261, P294
		Dental Materials: Polymer-based Materials		P262-P291, P403
		Education Research		P402, P405



LUNCH BREAK 12:30 - 13:30

LUNCH
Exhibition Area, Level 0
(included in the registration fee)

GENERAL ASSEMBLY CED-IADR 12:30 - 13:30

Seq #	Group	Session Title	Room	Presentation #
	Meeting	General Assembly CED-IADR - by invitation only	Auditorium, Level 0	

GET-TOGETHER ISRAELI DIVISION 13:00 - 14:00

Seq #	Group	Session Title	Room	Presentation #
	Get-Together	Get-Together of the Israeli Division - by invitation only	Lacydon, Level 1	

SYMPOSIUM 13:30 - 15:30

Seq #	Group	Session Title	Room	Presentation #
#38	Symposium	Eating Disorders: New Insights into Clinical Management of Oral Complications (Supported by P&G)	Auditorium, Level 0	Q036-Q038
#39	Symposium	Stem Cells in Bone Regeneration: Future is Now (Supported by the University of Bergen (MAXIBONE project))	Hall Major, Level 2	Q039-Q041
#40	Symposium	The art and science of minimally invasive operative caries management (Supported by Pulpdent)	Salle 120, Level 0	Q042-Q044

ORAL SESSION 13:30 - 15:30

Seq #	Group	Session Title	Room	Presentation #
#41	Oral session	Implantology Research	Joliette, Level 1	O155-O162
#42	Oral session	Dental Materials: Adhesion, Biocompatibility and Biologic Effects	Estaque, Level 1	O163-O170
#43	Oral session	Education Research	Grand Large, Level 1	O172-O178

COFFEE BREAK 15:30 - 16:00

COFFEE BREAK
Exhibition area, Level 0
(included in the registration fee)



SYMPOSIUM 16:00 - 18:00

Seq #	Group	Session Title	Room	Presentation #
#44	Symposium	Biological and clinical aspects of modern composite techniques (Supported by NIOM)	Auditorium, Level 0	Q045-Q047
#45	Symposium	Antimicrobial resistance: off-target effects of antibiotics, new approaches and educational challenges (Supported by the University of Oslo)	Hall Major, Level 2	Q048-Q051

ORAL SESSION 16:00 - 18:00

Seq #	Group	Session Title	Room	Presentation #
#46	Oral session	Periodontal Research-Therapy	Salle 120, Level 0	O179-O186
#47	Oral session	Stem Cell Biology Research	Joliette, Level 1	O187-O194
#48	Oral session	Dental Materials: Adhesion	Estaque, Level 1	O195-O202

KEYNOTE LECTURE 16:00 - 17:00

Seq #	Group	Session Title	Room	Presentation #
#49	Keynote	Oral health profile and cardiovascular risk: the nutritional pathway (supported by Philips)	Grand Large, Level 1	Q003

MEETING 18:00 - 19:30

Seq #	Group	Session Title	Room	Presentation #
	Meeting	Young CED-IADR ambassadors meeting - by invitation only	Notre Dame, Level 2	

DINNER PARTY 19:30 - 22:30

GET-TOGETHER EVENT

Get-Together Event - registration mandatory
Terrace of the Pharo Palace



SATURDAY - SEPTEMBER 17, 2022

WORKSHOP 8:30 - 10:00

Seq #	Group	Session Title	Room
	Workshop	Young CED-IADR: Basic Statistics in Dental Research (supported by Kulzer) - registration mandatory	Mucem, Level 2

SEMINAR 8:30 - 12:30

Seq #	Group	Session Title	Room
	Seminar	Young CED-IADR: Draw High Quality Scientific Graphics with Inkscape (supported by Kulzer) - registration mandatory	Notre Dame, Level 2

ORAL SESSION 8:30 - 10:00

Seq #	Group	Session Title	Room	Presentation #
#50	Oral session	Salivary Research	Salle 120, Level 0	O203-O207
#51	Oral session	e-Oral Health Network	Joliette, Level 1	O209-O214
#52	Oral session	Oral Health Research 2	Estaque, Level 1	O215-O220
#53	Oral session	Cariology Research: Diagnosis, Prevention and Treatment	Grand Large, Level 1	O221-O226

GENERAL ASSEMBLY 9:00 - 11:00

Seq #	Group	Session Title	Room
	Meeting	General Assembly PER-IADR - by invitation only	Lacydon, Level 1

COFFEE BREAK 10:00 - 10:30

COFFEE BREAK
Exhibition Area, Level 0
(included in the registration fee)

SYMPOSIUM 10:30 - 12:30

Seq #	Group	Session Title	Room	Presentation #
#54	Symposium	Pathogenesis, clinical features and management of smell and taste disturbance in COVID-19 (Supported by NOF-IADR, supported by Unilever Zendium)	Auditorium, Level 0	Q052-Q054



ORAL SESSION 10:30 - 12:30

Seq #	Group	Session Title	Room	Presentation #
#55	Oral session	Oral Medicine & Pathology Research	Hall Major, Level 2	O227-O233
#56	Oral session	Mineralized Tissue	Salle 120, Level 0	O236-O240
#57	Oral session	Periodontal Research: Pathogenesis & Therapy	Joliette, Level 1	O243-O249
#58	Oral session	Prosthodontics Research	Estaque, Level 1	O251-O258

KEYNOTE LECTURE 10:30 - 11:30

Seq #	Group	Session Title	Room	Presentation #
#59	Keynote	Adhesion to ceramic surfaces: does 10-MDP primer perform better incorporated or separated from the resin cement? (supported by Kuraray Norita)	Grand Large, Level 1	Q004

POSTER SESSION 11:30 - 12:30 (PRESENTER PRESENT)

Seq #	Group	Session Title	Room	Presentation #
#60	Poster 03	POSTER SESSION	Poster Hall, Level 0	
		Dental Materials: Ceramic-based Materials		P307
		Dental Materials: Adhesion		P300-P313, P347
		Dental Materials: Biocompatibility, Bioengineering and Biologic Effects of Materials		P311
		Dental Materials: Color and Appearance (Esthetics)		P314-P317, P349
		Dental Materials: Clinical Trials		P319-P322, P350
		Mineralized Tissue		P323-P329
		Network for Practice-based Research		P311
		Oral & Maxillofacial Surgery Research		P333-338, P351
		Pharmacology/Therapeutics/Toxicology		P341
		Prosthodontics Research		P342-P352
		Cariology Research-Microbiological studies/Biofilm		P353-P354
		Oral Medicine & Pathology Research		P355



SCIENTIFIC PROGRAMME

THURSDAY - SEPTEMBER 15, 2022

SEQ#: 1 SYMPOSIUM 8:30 - 10:00			AUDITORIUM - LEVEL 0
NEW DIRECTIONS IN DENTAL RESEARCH (SUPPORTED BY BSODR) Chairperson: R. Waddington			
Q005	8:30	Periodontal Infectogenomics: Does the Host Genome Affect the Subgingival Microbiota? L. NIBALI* <i>(King's College, London, United Kingdom)</i>	
Q006	9:10	Application of Artificial Intelligence to Head and Neck Pathology. A. KHURRAM* <i>(University of Sheffield, Sheffield, United Kingdom)</i>	
	9:50	Discussion	
SEQ#: 2 ORAL SESSIONS 8:30 - 10:00			SALLE 120 - LEVEL 0
HEALTH SERVICE RESEARCH Chairpersons: I. Chestnutt and R. Harris			
O001	8:30	Brushing RemInder 4 Good Oral Health Trial (BRIGHT) SMS Responses. K. ROWLES, H. AINSWORTH, Z. MARSHMAN, S. EL-YOUSFI, C. FAIRHURST, C. JONES, I. KELLAR, M. ROBERTSON, E. TURNER, K. WHITESIDE, N. INNES* <i>(School of Dentistry, Cardiff University, Cardiff, United Kingdom)</i>	
O002	8:45	Optimising Value-Based Preventive Dental Care. C. BANNISTER, A. COPE, P. HARPER, A. KARKI, S. PEDDLE, B. WALTERS, I. CHESTNUTT* <i>(Dental Public Health, Cardiff University, Cardiff, Wales, United Kingdom)</i>	
O003	9:00	Evaluation of an Oral Care Programme. A. ALMSTÅHL*, C. KARLSSON, J. SKOOGH ANDERSSON <i>(Oral Microbiology and Immunology, Odontology, Gothenburg, Sweden)</i>	
SO004	9:15	Exploring Awareness and Attitudes Towards Sustainable Dentistry at Semmelweis University. V. PALOTAI*, K. VOLFFORD, C. ERDEI, F.A. VASS, K. MÁRTON, T. DEMETER <i>(Semmelweis University Faculty of Dentistry, Budapest, Hungary)</i>	



SO005	9:30	Oral Health Interventions for Those Incarcerated, a Scoping Review. A. BOOTH*, K. WANYONYI <i>(Centre for Dental Public Health and Primary Care, Queen Mary University of London, London, United Kingdom)</i>
O006	9:45	Optimisation of a Complex Intervention Reducing Inequalities in Dental Visiting. R. HARRIS*, V. LOWERS <i>(Public Health, Policy and Systems, The University of Liverpool, Liverpool, United Kingdom)</i>
SEQ#: 3		
ORAL SESSION		
8:30 - 10:00		JOLIETTE - LEVEL 1
PULP BIOLOGY & REGENERATION RESEARCH		
Chairpersons: N. Attik and J. Farges		
SO007	8:30	Delivery of Hemichannel Blocker for Topical Treatment of Pulpitis. W.Y. LIM*, J.S. CHIN, L. MADDEN, D. BECKER <i>(National Dental Centre, Singapore, Singapore)</i>
O009	8:45	Experimental Borosilicate Bioactive Glasses: Pulp Cells Behaviour and Mechanical Characterisation. N. ATTIK*, F. LIZZI, C. GOUTAUDIER, P. JACKSON, I. CAMPBELL, S. RIZZO, B. GROSGOGEAT, C. VILLAT <i>(Université Claude Bernard, Lyon1, Faculté d'odontologie de Lyon, Lyon, France)</i>
O010	9:00	An Innovative Hydrogel Incorporating Antibacterial Nanoparticles to Regenerate Dental Pulp. M. BEKHOUCHE, F. CHARRIAUD, E. DAOU, M. BOLON, M. LAMRAYAH, A. COSTANTINI, S. GOBERT, M. PASDELOUP, B. VERRIER, B. ALLIOT-LICHT, M. DUCRET, J.-C. FARGES* <i>(Faculty of Odontology, University Lyon 1, Lyon, France)</i>
O011	9:15	Autocrine Pulp Fibroblast Function Modulation via Complement C3a Local Production. C. JEANNEAU*, T. GIRAUD, I. ABOUT <i>(Aix Marseille Université, Centre National de la Recherche Scientifique, Institut des Sciences du Mouvement, Marseille, France)</i>
SO012	9:30	Dentin-Pulp Complex Regeneration: Towards a Paradigm Shift for Dental Practice. F. MACHLA*, V. SOKOLOVA, V. PLATANIA, O. PRYMAK, K. KOSTKA, B. KRUSE, S. PASADAKI, K. ALPANTAKI, M. VIDAKI, M. CHATZINIKOLAIDOU, M. EPPLE, A. BAKOPOULOU <i>(Dentistry, Aristotle University of Thessaloniki, Heraklion, Greece)</i>
	9:45	Discussion



SEQ#: 4		
ORAL SESSION		
8:30 - 10:00		ESTAQUE - LEVEL 1
PAEDIATRIC ORAL HEALTH RESEARCH		
Chairpersons: A. Akcali and S. Ganbavale		
O013	8:30	Sleep Disordered Breathing in Children - the Role of General Health and Clinical Oral Findings. S. BLUMER, S. KURTZ, I. ELI, A. EMODI-PERLMAN* <i>(Oral Rehabilitation, Tel Aviv University Dental School, Herzeliya, Israel)</i>
SO014	8:45	Synergistic Effects of SDF and Hypochlorite on Primary Dentine Lesions. A. MOGILEVSKI*, P. ANDERSON, D. MILLS, M. KAUR, S. SHAHID <i>(Queen Mary University of London, London, United Kingdom)</i>
O015	9:00	Piloting of an Individualized Dental Training Program for Autistic Children. L. MYHREN, A. PAWLOWSKI* <i>(Oral Health Centre of Expertise Rogaland, Stavanger, Norway)</i>
O016	9:15	The Association Between Multisystem Inflammatory Syndrome and Oral Health Status in Children. A. AKCALI*, G. KILINC, N. BELET, S.Ö. ALATAS, B.C. UZUN SAYLAN, I.C. ARSLAN, A.Ç. GÜZİN <i>(Department of Periodontology, Faculty of Dentistry, Dokuz Eylul University, Izmir, Turkey)</i>
SO017	9:30	Sugar, Environment, and Local Paediatric Dental Needs. S. GANBAVALE*, C. LOUCA, L. TWIGG, K. WANYONYI-KAY <i>(University of Portsmouth Dental Academy, Portsmouth, United Kingdom)</i>
	9:45	Discussion



SEQ#: 5	ORAL SESSION	GRAND LARGE - LEVEL 1
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DENTAL MATERIALS - CERAMICS		
Chairpersons: B. Camargo and S. Čokić		

SO019	8:30	Effect of Air-Particle Abrasion on Reliability of Additively-Manufactured Zirconia Ceramics. T. MIRT*, A. KOCJAN, R. BERMEJO, P. JEVNIKAR <i>(Faculty of Medicine, University of Ljubljana, Ljubljana, Slovenia)</i>
SO020	8:45	CAD/CAM-Milled and 3D-Printed Monolithic Zirconia Crown Retention. B. CAMARGO*, E. WILLEMS, M. PEUMANS, J. VLEUGELS, B. VAN MEERBEEK <i>(Department of Oral Health Sciences, BIOMAT & University Hospitals Leuven (UZ Leuven), KU Leuven, Leuven, Belgium)</i>
SO021	9:00	Wear Resistance of Multilayered Monolithic Zirconia Ceramics. S. ČOKIĆ*, M. LI, B. CAMARGO, J. VLEUGELS, B. VAN MEERBEEK, F. ZHANG <i>(Department of Oral Health Sciences, BIOMAT & UZ Leuven (University Hospitals Leuven), KU Leuven (University of Leuven), Leuven, Belgium)</i>
SO023	9:15	A Novel Method for Pretreating Zirconia Resin-Bonded Fixed Dental Protheses. T. MALGAJ*, A. ABRAM, A. KOCJAN, P. JEVNIKAR <i>(Department of Prosthodontics, Medical Faculty Ljubljana, Ljubljana, Slovenia)</i>
O024	9:30	Fracture Strength Evaluation of CAD/CAM Endocrowns After Thermo-Mechanical Aging. B. DIKICI, E. TÜRKES BASARAN, G. BARUT, N. DONMEZ, E. CAN SAY* <i>(Restorative Dentistry, Yeditepe University, Istanbul, Turkey)</i>
	9:45	Discussion

SEQ#: 6	SYMPOSIUM	AUDITORIUM - LEVEL 0
10:30 - 12:30		

THE SCIENTIFIC EVIDENCE FOR THE USE OF HYDRAULIC CEMENTS IN CLINICAL ENDODONTICS (SUPPORTED BY SEPTODONT)		
Chairperson: J. Camilleri		

Q007	10:30	Physical Properties and Characterization. A. ATMEH* (MBRU, Dubai, United Arab Emirates)
Q008	11:05	Biological Evaluations. J. CAMILLERI* (University of Birmingham, Birmingham, United Kingdom)
Q009	11:40	Clinical Evaluation. N. MESCHI* (KU Leuven, Leuven, Belgium)
	12:15	Discussion



SEQ#: 7		
SYMPOSIUM		
10:30 - 12:30		HALL MAJOR - LEVEL 2
CROSS-LINKED HYALURONIC ACID IN ORAL RECONSTRUCTIVE SURGERY (SUPPORTED BY REGEDENT)		
Chairperson: V. Monnet-Corti		
Q010	10:30	Cross-Linked Hyaluronic Acid: Biologic Background and Clinical Outlook in Periodontal Therapy. A. SCULEAN* (<i>University of Bern, Bern, Switzerland</i>)
Q011	11:05	Periodontal Regeneration in Intrabony Defects with Combined Approach of Cross-Linked Hyaluronic Acid and Xenograft. D. BOZIC* (<i>University of Zagreb, Zagreb, Croatia</i>)
Q012	11:40	Is Cross-Linked Hyaluronic Acid a Successful Molecule for a Successful GBR? G. KHOURY* (<i>Hôpital Rotshild, Paris, France</i>)
	12:15	Discussion
SEQ#: 8		
ORAL SESSION		
10:30 - 12:30		SALLE 120 - LEVEL 0
BIOACTIVE RESTORATIVE MATERIALS		
Chairpersons: A. Baysan and D. Marovic		
O025	10:30	Ion-Release and Antibacterial Properties of Copper-Doped Bioactive Glass Containing Composites. D. MAROVIC*, R. SIMM, A. MUNIR, K. ZHENG, M. PAR, A. BOCCACCINI, Z. TARLE, H. HAUGEN (<i>Department of Endodontics and Restorative Dental Medicine, University of Zagreb, School of Dental Medicine, Zagreb, Croatia</i>)
SO026	10:45	Anti-Bacterial Composite Inhibits Growth of Salivary Bacteria: an Ex-Vivo Study. O. ENOCH*, E. WEISS, S. MATALON, M. DEKEL-STEINKELLER (<i>Tel-Aviv University, Beit-Zait, Israel</i>)
SO027	11:00	Effect of Particle Size on Bioactivity of Novel Dental Composite. H. KHALID*, F. WONG, S. SHAHID, R. HILL (<i>Physical Sciences Unit, Queen Mary University of London, Hornchurch, United Kingdom</i>)
SO028	11:15	Essential Role of HEMA in Remineralisation of Resin-Based Cements. B. ALSHEHRI*, M. PATEL, N. KARPUKHINA (<i>Queen Mary University of London, London, United Kingdom</i>)
O029	11:30	Mechanical Properties of Experimental Composites with a Customized Bioactive Glass. M. PAR*, L. PLANCAK, L. RATKOVSKI, T.T. TAUBÖCK, D. MAROVIC, T. ATTIN, Z. TARLE (<i>University of Zagreb, School of Dental Medicine, Zagreb, Croatia</i>)

SO030	11:45	Effect of Ion-Releasing Materials on Dentine Surface Microhardness and Appearance. I. ŠALINOVIĆ*, F. SCHWENDICKE, H. ASKAR, J. YASSINE, I. MILETIC (<i>University of Zagreb, School of Dental Medicine, Zagreb, Croatia</i>)
O031	12:00	The Remineralizing Effects of Fissure Sealants Containing Bioactive Glass. G.A. BAYRAKTAR, S. YÜCEL, A.C. ÖZARSLAN, P. KINAY TARAN* (<i>Pediatric Dentistry, Bezmialem Vakif University, Faculty of Dentistry, Istanbul, Turkey</i>)
O032	12:15	Qualification of Ion-Exchanges with Bioactive GIC Restoration on Root Caries. G. DAVIS, H. CHEN, D. MILLS, A. BAYSAN* (<i>Oral Bioengineering, Barts and the London School of Medicine and Dentistry, London, United Kingdom</i>)

SEQ#: 9**ORAL SESSION****10:30 - 12:30****JOLIETTE - LEVEL 1****GERIATRIC ORAL RESEARCH & DIAGNOSTIC SCIENCES****Chairpersons:** E. Alexakou, and R. Richert

SO033	10:30	“Inflammageing” on Human Oral Cells: Correlation With Age-Related Diseases? E. ALEXAKOU*, A. BAKOPOULOU, D.A. APATZIDOU, A. KRITIS, A. MALOUI, V. ANASTASSIADOU (<i>Dental School, Aristotle University of Thessaloniki (A.U.TH.), Thessaloniki, Greece</i>)
SO034	10:45	Periapical and Endodontic Status Among 65-Year-Olds in Oslo, Norway. M. DIEP*, L. HOVE, D. ØRSTAVIK, A.T. SØDAL, R. SKUDUTYTE-RYSSTAD, P. SUNDE (<i>University of Oslo, Oslo, Norway</i>)
O035	11:00	Effects of Experimental Nanohydroxyapatite and Er:YAG Laser on Dentin Hypersensitivity. D. SAHIN*, C. DEĞER, B. OGLAKCI, M. DEMIRKOL, B.O. KUCUKYILDIRIM, M. GÜRSEL, E. DAOU (<i>Department of Periodontology, Bezmialem Vakif University, Istanbul, Fatih, Turkey</i>)
SO036	11:15	Occlusion: a Key Parameter in the Construction of Patient-Specific Models. R. RICHERT*, S. VALETTE, J.-C. FARGES, J. MOLIMARD, P. BOISSE, M. DUCRET (<i>Restorative Dentistry & Endodontics, Lyon Dental Hospital, Lyon, France</i>)
SO037	11:30	Artificial Intelligence for the Prediction of Oral Health From Breath. M. HAIEK*, Y. HOURI-HADDAD, E. WEISS, H. HAICK, D. MAHAJNA, I. COHEN, S. MASARWI (<i>Prosthodontics, The Hebrew University of Jerusalem, Shefaram, Israel</i>)



0038	11:45	Annotation Accuracy and Calculus Detection on Radiographs Using Deep Learning. M. DUCHRAU*, J. KROIS, F. SCHWENDICKE <i>(Oral Diagnostics, Digital Health, Health Services Research, Charite - Universitaetsmedizin Berlin, Berlin, Germany)</i>
SO039	12:00	DMFT Index Evaluation Using Deep Learning on Panoramic Radiographs. P. RASKEVIČIUS*, I. STANKEVICIENE, D. PADVELSKIS, L. STANGVALTAITE - MOUHAT, L. NAKTINIS, G. KLIMANTAVICIUTE, A. PURIENE <i>(Institute of Dentistry, Vilnius University, Vilnius, Lithuania)</i>
0040	12:15	Individualized Application of AI Combined with Micro-Invasive Caries Treatment Was Cost-Effective. F. SCHWENDICKE*, J. CEJUDO DE GRANO DE ORO, A. GARCIA CANTU, H. MEYER-LUECKEL, A. CHAURASIA, J. KROIS <i>(Oral Diagnostics, Digital Health, Health Services Research, Charite - Universitaetsmedizin Berlin, Berlin, Germany)</i>
SEQ#: 10		
ORAL SESSION		
10:30 - 12:30		ESTAQUE - LEVEL 1
PERIODONTOLOGY AND PHARMACOLOGY		
Chairpersons: A. Dhariwal and C. Sfeir		
0041	10:30	Local Delivery to Modulate Host Response as Potential Periodontitis Treatment. M. SHEHABELDIN, Y. KI, J. GAO, C. SFEIR* <i>(Periodontics and Preventive Dentistry, University of Pittsburgh, Pittsburgh, Pennsylvania, USA)</i>
SO042	10:45	Age Related Attenuation of Apical-Periodontitis Development in Mice and Humans. E. GOLDMAN*, R. SHIMON, E. REICH, B. ROSHIHOTZKI, M. SAKETKHO, S. WALD, A. GOLDSTEIN, Y. KLEIN, I. ABRAMOVITZ, M. KLUTSTEIN <i>(Institution of Dental Sciences, Hebrew University, Jerusalem, Israel)</i>
0043	11:00	Correlation Between Clinical Variables and Subgingival Microbiota. A. ARREDONDO*, G. ÁLVAREZ, S. ISABAL, C. MOR, J. NART, V. BLANC, R. LEÓN <i>(Department of Microbiology, Dentaid Research Center, Cerdanyola del Vallès, Spain)</i>
SO044	11:15	A Large-Scale Meta-Omics Analysis of Plaque Microbiome for Periodontal Diagnosis. A. REGUEIRA IGLESIAS*, T. BLANCO-PINTOS, M. RELVAS, M. ALONSO-SAMPEDRO, C. Balsa-CASTRO, I. TOMÁS <i>(Oral Sciences Research Group, Department of Surgery and Medical-Surgical Specialties, Universidade de Santiago de Compostela, Health Research Institute Foundation of Santiago (FIDIS), Santiago de Compostela, A Coruña, Spain)</i>



SO045	11:30	<p>The Salivary Microbiome for Discriminating Periodontal Conditions: a Meta-Omics Analysis.</p> <p>T. BLANCO-PINTOS*, A. REGUEIRA IGLESIAS, M. RELVAS, M. ALONSO-SAMPEDRO, C. BALSACASTRO, I. TOMÁS</p> <p><i>(Oral Sciences Research Group, Department of Surgery and Medical-Surgical Specialties, Universidade de Santiago de Compostela, Health Research Institute Foundation of Santiago (FIDIS), Santiago de Compostela, A Coruña, Spain)</i></p>
SO046	11:45	<p>Parabiotic Generation Using Ultrasound From <i>L. Rhamnosus</i> and <i>L. Reuteri</i> Probiotics.</p> <p>C. FARRUGIA*, A. ANDREOU, V. VALDRAMIDIS</p> <p><i>(Bristol Dental School, University of Bristol, Bristol, United Kingdom)</i></p>
SO047	12:00	<p>Impact of Long-Term Amoxicillin Treatment on the Gut Microbiome and Resistome.</p> <p>A. DHARIWAL*, F. PETERSEN</p> <p><i>(Dentistry, Oral Biology, Oslo, Norway)</i></p>
SO048	12:15	<p>The Impact of Ampicillin on the Oral Microbiome and Resistome.</p> <p>N.K. BRAR*, A. DHARIWAL, H.A. ÅMDAL, R. JUNGES, G. SALVADORI, F. PETERSEN,</p> <p><i>(Institute of Oral Biology of Oslo University, Oslo, Norway)</i></p>

SEQ#: 11

ORAL SESSION

10:30 - 12:30

GRAND LARGE - LEVEL 1

ORTHODONTICS RESEARCH

Chairpersons: A. Mesaros and C. Zong

O049	10:30	<p>Assessment of Early Orthodontic Treatment Need Indicators on Transylvanian Children.</p> <p>A. MESAROS*, A. MUNTEAN</p> <p><i>(Dental Propaedeutics and Aesthetics, Iuliu Hatieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania)</i></p>
SO050	10:45	<p>Biomimetic Calcium Phosphate Coating on Medical Grade Stainless Steel.</p> <p>M. LI*, M. WANG, L. WEI, A. WERNER, Y. LIU</p> <p><i>(Department of Oral Cell Biology, Academic Center for Dentistry Amsterdam, Amstelveen, Netherlands)</i></p>
SO051	11:00	<p>Periodontal Ligament Stem Cells Protected Alveolar Bone During Tooth Movement.</p> <p>C. ZONG*, A. BRONCKAERS, G. WILLEMS, M. CADENAS DE LLANO PÉRULA <i>(KU Leuven, Leuven, Belgium)</i></p>
SO052	11:15	<p>Genetic Variants of American-European Families with Class-III Phenotype: an Update.</p> <p>A. DEHESA-SANTOS*, R. YAÑEZ-VICO, P. IBER-DIAZ, A. IGLESIAS-LINARES</p> <p><i>(Complutense University of Madrid, Madrid, Madrid, Spain)</i></p>



SO053	11:30	Age-Related Changes in Facial Soft Tissues and Muscle Pressure. A. RAJBHOJ*, H. MATTHEWS, K. DOUCET, P. CLAES, G. BEGNONI, G. WILLEMS, M. CADENAS DE LLANO PÉRULA <i>(Orthodontics, KU Leuven, Leuven, Belgium)</i>
SO054	11:45	The Molecular Mechanism Underlying Orthodontic Relapse. Y. KHOURY*, N. PINTO, G. MIZRAHI, Y. KLEIN, S. CHAUSHU <i>(Orthodontics, The Hebrew University- Hadassah School of Dental Medicine, Jerusalem, Israel)</i>
SO055	12:00	The Unrecognized Mechanism of B-Cells Activation in Response to Orthodontic Forces. Y. KLEIN*, G. MIZRAHI, N. PINTO, Y. KHOURY, O. FLEISSIG, S. CHAUSHU <i>(Orthodontics, The Hebrew University - Hadassah school of Dental Medicine, Jerusalem, Israel)</i>
O056	12:15	Retentive Strength of Orthodontic Brackets Bonded to 3D-Printed vs. Milled Materials. A. BIADSEE, M. ADAWI*, M. BARHUM, J. BARBRA, S. LEVARTOVSKY <i>(Tel Aviv University, Turaan, Israel)</i>



SEQ#: 12

POSTER SESSION

12:00 - 13:00

POSTER HALL - LEVEL 0

PRESENTER AT POSTER

Free poster viewing from 8:30 - 17:30

BEHAVIORAL, EPIDEMIOLOGIC AND HEALTH SERVICES RESEARCH

P100	<p>Life-Threatening Reactions Related to Polyethylene Glycol in Dental Biomaterials.</p> <p>L. BJÖRKMAN*, T.L.L. BERGE, K. HATLEBERG, B. LUNDEKVAM, A. BERGSTØ <i>(Dental Biomaterials Adverse Reaction Unit, NORCE, Bergen, Norway)</i></p>
P102	<p>Correlation Between Phobia of Vomiting, Gag-Reflex, and Dental Anxiety.</p> <p>E. GILON*, I. BAR, N. EDRI, I. ELI, N. UZIEL <i>(Department of Oral Rehabilitation, Unit of Behavioral Sciences, Tel-Aviv University, Mazkeret Batya, Israel)</i></p>
SP103	<p>Persistent COVID-19 Oral Manifestations and Oral-Health Quality of Life.</p> <p>P. TERCEÑO*, N. ESCRIBANO, M.V. FUENTES, L. CEBALLOS GARCÍA, P. MORO-LOPEZ-MENCHERO, I. CANCELA-CILLERUELO, J. RODRIGUEZ-JIMENEZ, C. FERNÁNDEZ DE LAS PEÑAS <i>(Rey Juan Carlos University, Madrid, Spain)</i></p>
P104	<p>Immigrant Parents' Knowledge and Attitudes Related to Children's Sugar Snacking.</p> <p>A. NORDREHAUG ÅSTRØM*, L. HASSELGREN, M. MUSTAFA <i>(Clinical Dentistry, University of Bergen, Bergen, Norway)</i></p>
P105	<p>Development of a Gum-Related Quality of Life Measure.</p> <p>T. BROOMHEAD*, B. GIBSON, C. PARKINSON, M. VETTORE, S. BAKER <i>(The University of Sheffield, Sheffield, United Kingdom)</i></p>
SP106	<p>Access to Orthodontic Treatment Among Children by Household-Income in Norway.</p> <p>N. JIANG*, I. SKAU, J. GRYTEN, J. KINGE <i>(Faculty of Dentistry, Community dentistry, Oslo, Norway)</i></p>
P107	<p>Interest in Oral Cancer on Internet in Europe.</p> <p>R. LAN*, D. TARDIVO, F. CAMPANA, J.-N. VERGNES, J.-H. CATHERINE, M. HADJ-SAID <i>(Oral surgery, Aix-Marseille University, Marseille, France)</i></p>



DENTAL MATERIALS: CERAMIC-BASED MATERIALS	
SP108	Biocompatibility, Physical and Chemical Analysis of Calcium Silicate-Based Endodontic Sealers. A. JANINI, J. BOLDIERI, L. PELEPENKO*, T. FRANCATI, V. DOS SANTOS, B. GOMES, M. MARCIANO <i>(Endodontics, Piracicaba Dental School - FOP-Unicamp, Piracicaba, Brazil)</i>
SP109	Fracture Resistance of CAD/CAM Ceramic Restorations with Different Cementation Strategies. N. PONGAM*, P. PONGPRUEKSA, K. SUPUTTAMONGKOL <i>(Operative Dentistry and Endodontics, Mahidol university, Bangkok, Thailand)</i>
SP110	Mirco-Tensile Bond-Strength of Zirconia and Lithiumdisilicate Manufactured by Printing and Milling. A. KESSLER*, T. REICHERT, A. LIEBERMANN, D. KAISARLY <i>(Department of Conservative Dentistry and Periodontology, University Hospital, LMU Munich, Munich, Germany)</i>
P111	Effect of Firing Process on Accuracy of Machinable LDS Blocks. Y. HOKII*, K. YAMAMOTO, F. FUSEJIMA <i>(Research & Development Dept., GC Corporation, Itabashi-ku, Tokyo, Japan)</i>
P113	Effects of Different UV-C Irradiations on Dental Zirconia. J.K.-H. TSOI*, F. PAN <i>(The University of Hong Kong, Sai Ying Pun, Hong Kong)</i>
SP193	Low-Temperature Degradation of Surface-Treated 3Y, 4Y and 5Y Zirconia Ceramics. T. TRAVNŠEK*, T. MIRT, A. KOCJAN, P. JEVNIKAR <i>(Faculty of Medicine, University of Ljubljana, Ljubljana, Slovenia)</i>
DENTAL MATERIALS: METAL-BASED MATERIALS AND OTHER MATERIALS	
P114	Fracture Patterns of NiTi Endodontic Files After Clinical Use. B. OZEL*, P. ANDERSON <i>(Endodontics, Yeditepe University, Istanbul, Turkey)</i>
SP115	Characterization of the new Titanium Alloy Ti-20Zr-3Mo-3Sn for Dental Implants. E. LEFRANÇOIS*, Y. BÉDOUIN, T. GLORIAN, D. GORDIN <i>(Univ Rennes, INSA Rennes, CNRS, ISCR UMR 6226,, Rennes, France)</i>



DENTAL MATERIALS: BIOCOMPATIBILITY, BIOENGINEERING AND BIOLOGIC EFFECTS OF MATERIALS

P116	<p>The Ex-Vivo Study of Bioactive Glasses in Different Carriers. A. TRAN, P. SENAWONGSE, H. SRITANAUDOMCHAI, N. RUANGSAWASDI, P. LAPHANASUPKUL, N. KITKUMTHORN, N. MONMATURAPOJ, P. PONGPRUEKSA* <i>(Department of Operative Dentistry and Endodontics, Mahidol University, Faculty of Dentistry, Bangkok, Thailand)</i></p>
SP117	<p>Promising Pro-Osteogenic Effect of a Novel Nanoemulsion Loaded with Hesperitin. M.J. MANCINI IMBRIANI*, P. MAQUERA HUACHO, J. DUARTE, M. CHORILLI, D. PALOMARI SPOLIDORIO <i>(School of Dentistry, São Paulo State University (Unesp), Araraquara, Brazil)</i></p>
SP119	<p>Cytotoxicity, Debris and Smear Layer Removal Efficacy of Super-Oxidized Water. G. BILVINAITE*, S. DRUKTEINIS, V. BUKELSKIENE <i>(Institute of Dentistry, Faculty of Medicine, Vilnius University, Vilnius, Lithuania)</i></p>
SP120	<p>Hesperitin-Loaded Nanofibers Suppresses Inflammatory Response of Macrophages and Keratinocytes. P. MAQUERA HUACHO*, M.J. MANCINI IMBRIANI, D. PALOMARI SPOLIDORIO, D. GRENIER <i>(Department of Physiology and Pathology, School of Dentistry, São Paulo State University (UNESP), Araraquara, Sao Paulo, Brazil)</i></p>
P121	<p>Strategies to Optimize Bone Regeneration in 3D Printed Scaffolds. S. RAYMOND, M. BONANY, C. LEHMANN, E. THOREL, R. BENITEZ, J. FRANCH, M. ESPANOL, X. SOLÉ-MARTÍ, A. RIVEIRO, J. POU, M.-C. MANZANARES-CÉSPEDAS*, C. CANAL, M.-P. GINEBRA <i>(Human Anatomy and Embryology Unit. Experimental Pathology and Therapeutics Department, University of Barcelona, Hospitalet, Barcelona, Spain)</i></p>
SP124	<p>Characteristics and Biological Considerations of Newly Developed NanoFA-Based Dental Composite. W. AL-OMAIRI*, A. WERNER, M. GERMAN, A. AL-TAIE, D. WOOD <i>(Faculty of medical science, Newcastle Upon Tyne University, Bioscience, Newcastle Upon Tyne, United Kingdom)</i></p>
SP192	<p>Endodontics Sealers Modulate the Periodontal Ligament Pro-Inflammatory Activity. J.-H. CATHERINE*, T. GIRAUD, C. JEANNEAU, I. ABOUT <i>(Aix Marseille Université, Centre National de la Recherche Scientifique, Institut des Sciences du Mouvement, Marseille, France)</i></p>
P193	<p>Rapid 3s Curing: Effect on Mechanical Properties of Bulk-Fill Composites. M. MACAN, V. NEGOVETIC MANDIC*, M. PAR, Š. LUKA, Š. BRUNO, Z. TARLE, A. MAROŠEVIĆ, D. MAROVIĆ <i>(Department of Endodontics and Restorative Dentistry, School of Dental Medicine, University of Zagreb, Zagreb, Croatia)</i></p>



DENTAL MATERIALS: INSTRUMENTS AND EQUIPMENT	
SP126	<p>SWEEPS in Removing Bioceramic Sealer Remnants From Oval Root Canals. G. KAPETANOVIC PETRICEVIC*, M. KATIĆ, I. ANIĆ, I. BAGO <i>(Department of Endodontics and Restorative Dental Medicine, School of Dental Medicine University of Zagreb, Zagreb, Croatia)</i></p>
CARIOLOGY RESEARCH-CLINICAL & EPIDEMIOLOGICAL STUDIES	
SP127	<p>The Use of Bulk-Fill Composites Until 2019 in Oulu, Finland. H. APPEL, M. KONTTIJÄRVI, K. LEINONEN, H. VÄHÄNIKKILÄ, M.-L. LAITALA, J. LEINONEN, T. TANNER* <i>(Research Unit of Oral health Sciences, University of Oulu, Oulu, Finland)</i></p>
SP128	<p>Dental Staff's Experiences of Patients' Successful Behavioral Changes in Caries Prevention. A. ALVENFORS*, P. LINGSTRÖM, C. MILTON, E. OSKARSSON, J. BERNSON <i>(Department of Cariology, University of Gothenburg, The Sahlgrenska Academy, Institute of Odontology, Göteborg, Sweden)</i></p>
SP129	<p>Health-Associated Factors Against Caries in Caries Free Adults - an Interview Study. C. FABRICIUS*, A. ALVENFORS, A. ALMSTÅHL, P. LINGSTRÖM <i>(Department of Cariology, University of Gothenburg, The Sahlgrenska Academy, Institute of Odontology, Gothenburg, Sweden)</i></p>
CARIOLOGY RESEARCH-DEMINERALIZATION/REMINERALIZATION	
SP131	<p>Effects of Self-Assembling Peptide P11-4, CPP-ACP, 58S5 Bioactive Glass and Fluoride on Artificial Enamel Caries Lesions <i>in Vitro</i>. Ç. YELOĞLU*, E. MUHTAR, A. SARIALIOGLU GUNGOR <i>(Dentistry, Bezmialem Vakif University, Istanbul, Turkey)</i></p>
SP133	<p>Cannabinoids as a Natural Non-Invasive Alternative for Decay-Intervention. A. WOLFOVIZ ZILBERMAN*, Y. HOURI-HADDAD, N. BEYTH <i>(Faculty of Dental Sciences, Hebrew University-Hadassah School of Dental Medicine, Ness-Ziona, Israel)</i></p>
CARIOLOGY RESEARCH-FLUORIDE & CA-BASED PRODUCTS	
SP134	<p>Impact of Different Toothpaste-Formulations on Salivary Fluoride and Calcium Concentrations. A. ALSHABEEB*, U. ALMHÖJD, Y. ICHIZUKA, P. LINGSTRÖM <i>(Department of Cariology, Institute of Odontology, Gothenburg, Sweden)</i></p>

CARIOLOGY RESEARCH-MICROBIOLOGICAL STUDIES/BIOFILM

SP135	Antimicrobial Activity of Topical Potassium Iodide and Silver Solutions. M. KAUR*, A. STEPHEN, F. WONG, P. ANDERSON, S. SHAHID <i>(Institute of Dentistry, Queen Mary University of London, London, United Kingdom)</i>
SP138	The Influence of Sucrose on a Multi-Kingdom Cariogenic Biofilm. K. ALMANSOUR*, D. MOYES, A. BANERJEE <i>(Centre for Oral, Clinical and Translational Sciences, King's College London, London, United Kingdom)</i>
SP140	EPS-Rich Biofilm Does not Modify Chlorhexidine Antimicrobial Effect. L. PAGOTTO*, A.P. RICOMINI FILHO, J. CURY <i>(Department of Biosciences, Piracicaba Dental School, FOP-UNICAMP, Piracicaba, Brazil)</i>
SP141	Analyses of Herbal Toothpaste's Antimicrobial Efficacy: in Vitro Study. S. MESELI*, B. AKSU, E. ALKAN, N. KORKMAZ, D. TAĞTEKIN, F. YANIKOGLU <i>(Department of Restorative Dentistry, Marmara University Faculty of Dentistry, Istanbul, Turkey)</i>

CLINICAL CASE REPORTS (ALL DISCIPLINES)

P142	Treatment of an Endo-Periodontal Lesion in an Uncontrolled Diabetic Patient. C. SADOWSKI*, A. ANTEZACK, R. OHANESSIAN, M. FAURE-BRAC, A. BRINCAT, V. MONNET-CORTI <i>(Periodontology, Aix Marseille University, Marseille, France)</i>
SP143	Recalcitrant Sinusitis of Odontogenic Origin. A. RAKAUSKAITE*, R. RAUBAITE, D. RAUBA, D. SUKYTE-RAUBE, D. MATKEVIČIUS <i>(Faculty of Medicine, Vilnius University, Vilnius, Lithuania)</i>
SP144	Multidisciplinary Management of Anterior Polydiastema: a Case Report. S. ÖZMEN*, Ç. DOĞAN, P. YILMAZ ATALI, L. KURU <i>(Restorative Dentistry, Marmara University Faculty of Dentistry, Istanbul, Turkey)</i>
SP145	The Third Molar Autotransplantation: 4 Case Series. A. AKTI, S. KOYUNCU*, G. GURSES, A. ATASEVEN, E. DURMUS <i>(Oral and Maxillofacial Surgery, Selcuk university faculty of dentistry, Konya, Turkey)</i>
SP146	Molar-Incisor-Hypomineralization (MIH) Conservative Treatment of Affected Teeth: a Case Report. K. HANSCHO*, L. KQUIKU-BIBLEKAJ, A. BEHLAU, K. GLOCKNER <i>(Medical University of Graz, Graz, Austria)</i>
SP148	The Use of Direct Composites in Repair of Broken Teeth. A.K. OZKAN*, A.R. CETIN, E.R. DURAK <i>(Restorative Dentistry, Selcuk University, Konya, Turkey)</i>
SP199	Treatment of Tongue Arterio-Venous Malformation (AVM) with Dye-Laser: 36-Month Follow-up. L. ESPOSITO*, N.G. ARMOGIDA, M. CERNERA, E. CALABRIA, F. IACULLI, G. SPAGNUOLO <i>(University of Naples "Federico II", Naples, Italy)</i>



DIAGNOSTIC SCIENCES	
SP150	<p>Confirmation Bias of Dentists Using Artificial Intelligence for Caries Detection.</p> <p>J. WIESNER, L. ARSIWALA-SCHEPPACH, A. KRASOWSKI*, J. KROIS, F. SCHWENDICKE</p> <p><i>(Department of Oral Diagnostics, Digital Health and Health Services Research, Charité - Universitätsmedizin Berlin, Berlin, Germany)</i></p>
EDUCATION RESEARCH	
P152	<p>Influencing Factors on Students' Performance Using a Preclinical Endodontic Analytic Rubric.</p> <p>N. ESCRIBANO*, M.V. FUENTES, V. BELLIARD, D. DA SILVA, B. BARACCO, L. CEBALLOS</p> <p><i>(IDIBO Research group, Rey Juan Carlos University, Alcorcón, Madrid, Spain)</i></p>
E-ORAL HEALTH NETWORK	
P154	<p>Web-Based Program Reduced Dental Anxiety in Lithuanian and Norwegian Adults.</p> <p>L. STANGVALTAITE-MOUHAT*, I. STANKEVICIENE, S.S. MARTINUSSEN, V. SABATAITIS, C. SANDJORD, I. TORESEN, M. STOLTENBERG TRYGGESTAD, A. PURIENE, J.-A. JOHNSEN</p> <p><i>(Oral Health Center of Expertise in Eastern Norway, Oslo, Norway)</i></p>
PULP BIOLOGY & REGENERATION RESEARCH	
SP155	<p>45kHz Ultrasound Influences Endothelial Cell Growth and Gene Expression.</p> <p>L. SHRIANE*, B. SCHEVEN, R. SHELTON, A. WALMSLEY</p> <p><i>(University of Birmingham, Birmingham, United Kingdom)</i></p>
SP156	<p>Structural Characterization of Human Dental Pulp Tissue Using Multiphoton Microscopy.</p> <p>S. GARRABÉ*, S. PIGLIONICO, T. CLOITRE, B. LEVALLOIS, C. GERGELY, F. CUISINIER, I. PANAYOTOV</p> <p><i>(Université de Montpellier, Montpellier, Hérault, France)</i></p>
P157	<p>The Isolation and Characterisation of Ovine Dental Pulp Stromal Cells.</p> <p>I. LAMBRICHTS*, M. EZELDEEN, T. VANGANSEWINKEL, M. LO MONACO, P. GERVOIS, F. HONTOIR, J.-M. VANDEWEERD, R. JACOBS, E. WOLFS, A. BRONCKAERS</p> <p><i>(Cardio & Organ Systems, BIOMED, Faculty of Medicine and Life Sciences, Hasselt University, Hasselt, Belgium)</i></p>
SP158	<p>Morphometric Study of Incisors Dental Pulp of Ovine Preclinical Model.</p> <p>G. EMS, L. SEVERINO*, J.-F. NISOLLE, C. NICAISE, J.-M. VANDEWEERD, I. LAMBRICHTS, A. BRONCKAERS, M. LO MONACO, F. HONTOIR</p> <p><i>(URVI-OASIS-Narilis, University of Namur, Namur, Namur, Belgium)</i></p>



SP159	Vital Pulp Treatment (VPT) Application – Commonality Across Clinician Groups? S. CUSHLEY*, F. LUNDY, M. CLARKE, H. DUNCAN, P. TOMSON, I. EL-KARIM (<i>Queen's University, Belfast, United Kingdom</i>)
SP160	Multicomponent Peptide Hydrogel Culture of DPSCs to Assess Anti-Inflammatory Properties. A. MORWOOD*, I. EL-KARIM, S. CLARKE, I. ABOUT, F. LUNDY (<i>Wellcome Wolfson Institute for Experimental Medicine, School of Medicine, Dentistry and Biomedical Sciences, Queen's University, Belfast, United Kingdom</i>)
P161	Effect of Restoration on Electric Pulp Tester Stimulus in Pulpotomized Tooth. V. KUMAR*, A. CHOPRA, S. SHARMA, A. CHAWLA, S. JAIN, A. LOGANI (<i>Conservative Dentistry and Endodontics, All India Institute of Medical Sciences, New Delhi, Delhi, India</i>)
P162	Human Dental Pulp Cells Release the Alarmin Adenosine Triphosphate (ATP). O. DUNNE*, L. MCGARVEY, I. EL KARIM, S. MARTIN, G. SERGEANT, I. ABOUT, F. LUNDY (<i>Wellcome-Wolfson Institute for Experimental Medicine, School of Medicine, Dentistry and Biomedical Sciences, Queen's University Belfast, Belfast, United Kingdom</i>)
SP195	Osteogenic Differentiation Potential of Diabetic Human Dental Pulp Stem Cells. H. ALHARBI*, J. MEADE, T. LI, H. PANDIT, E. JONES, R. EL-GENDY (<i>Division of Oral Biology, School of Dentistry, Faculty of Health & Medicine,, University of Leeds, Leeds, United Kingdom</i>)
SALIVARY RESEARCH	
P163	Saliva Composition in Dental Caries and Oral Cancer Using (FT-IR) Spectroscopy. U. ALMHÖJD*, A. ALMSTÅHL (<i>Cariology, Odontology, Gothenburg, Sweden</i>)
P164	Saliva Improves in Vitro Protein Digestibility of Buriti-Containing Yoghurt. Y. SANTOS, F. VANIN, S. LE FEUNTEUN, M. MORZEL* (<i>STLO, INRAE, Institut Agro Rennes-Angers, Rennes, France</i>)



ORAL MEDICINE & PATHOLOGY RESEARCH	
SP165	<p>Evaluation of Mandibular Bone Density in Bruxers on Panoramic Radiographs. E. CASAZZA*, B. BALLESTER, C. PHILIP-ALLIEZ, A. RASKIN <i>(School of Dentistry, Aix-Marseille University, Marseille, France)</i></p>
P166	<p>Association Between EBV Infection and Risk Factors in OSCC Patients. D. RUNGRAUNGRAYABKUL*, P. LAPTHANASUPKUL, N. KITKUMTHORN, S.-O. PIBOONNIYOM KHOVIDHUNKIT <i>(Oral Medicine and Periodontology, Faculty of Dentistry, Mahidol University, Bangkok, Thailand)</i></p>
SP167	<p>Salivary Mucoepidermoid Carcinoma: a Clinicopathological Study of 38 Cases. M.E. PÉREZ-DE-OLIVEIRA*, V. WAGNER, V. ZANELLA, P. ALEIXO, L. BINGLE, M. MARTINS, P. VARGAS <i>(Department of Oral Diagnosis, State University of Campinas, Piracicaba, São Paulo, Brazil)</i></p>
SP168	<p>Delayed Post-Extraction Healing in Mice Lacking Initial Oral Mucosal Lymphatics. A. VIRTEJ*, L. MARTI, M. WAGNER, H. WIIG, Y. XUE, A. BLETSÅ, E. BERGGREEN <i>(Oral Surgery, University of Bergen, Haukeland University Hospital, Bergen, Norway)</i></p>
P169	<p>Salivary Opiorphin Levels After Capsaicin Stimulation in Orofacial Pain Patients and Controls. I. ALAJBEG*, Y. BOUCHER, I. ORABOVIĆ, K. NAKA, A. MRLA, E. VRBANOVIĆ, I. ALAJBEG <i>(School of Dental Medicine, University of Zagreb, Zagreb, Croatia)</i></p>
SP170	<p>COVID-19 Infection Does not Worsen Symptoms of Temporomandibular Disorders. E. VRBANOVIĆ*, I. ALAJBEG, M. ZLENDIĆ, I. ALAJBEG <i>(Department of Removable Prosthodontics, School of Dental Medicine, University of Zagreb, Zagreb, Croatia)</i></p>
SP171	<p>Gene Polymorphisms Associated with Increased Hypervigilance in Temporomandibular Disorders Patients. M. ZLENDIĆ*, M. TOMLJANOVIĆ, K. GALL TROŠELJ, E. VRBANOVIĆ, I. ALAJBEG <i>(University of Zagreb, School of Dental Medicine, Zagreb, Croatia)</i></p>
P173	<p>Expression of DAPK1 in Oral Leukoplakia and Oral Cancer. A. POULOPOULOS*, P. PAPAPOPOULOS, A. CHATZIVASILEIOU, D. PARLITSIS, E. ANAGNOSTOU, P. ANASTASIADOU, K. VAXTSEVANOS, M. BOLON <i>(Oral Medicine & Oral Pathology, Aristotle University of Thessaloniki, Thessaloniki, Greece)</i></p>
SP174	<p>Identification of Globular Protein Structures in Human Whole and Parotid Saliva. B. HAMULIC*, J. JACOBSEN, D. BAR-SHALOM, A.M. LYNGE PEDERSEN <i>(Department of Odontology/Section of Oral Biology and Immunopathology, University of Copenhagen, Copenhagen, Denmark)</i></p>
SP175	<p>Osteomas of the Jaws: Predictive Sign of Gardner's Syndrome? S. D'AGOSTINO*, L. LIMONGELLI, G. FAVIA, M. DOLCI <i>(Medical, Oral and Biotechnological Sciences, University of Chieti Pescara, Chieti, Italy)</i></p>

PERIODONTAL RESEARCH-DIAGNOSIS/EPIDEMIOLOGY

SP177	<p>Smile Evaluation on Videographs: an Intra and Inter-Rater Agreement Study. M. FAURE-BRAC*, A. ANTEZACK, S. MELLOUL, M. SAÏD, A. RASKIN, V. MONNET-CORTI <i>(Periodontology, Aix-Marseille University, Marseille, France)</i></p>
P178	<p>Intra-Oral Scan Plaque Score Study Comparing Operators and Indices. N. WEST, J. SEONG, N. HELLIN, R. NEWCOMBE, C. PARKINSON, N. WEST* <i>(University of Bristol, Bristol, United Kingdom)</i></p>
P179	<p>Clinical Gingival Health Improvement From Behavior Modification and Anti-Gingivitis Toothpaste. J. SEONG*, S. DALY, N. HELLIN, R. NEWCOMBE, C. PARKINSON, N. WEST <i>(University of Bristol, Bristol, United Kingdom)</i></p>
SP180	<p>Endotoxin Activity in Subgingival Plaque Matches Periodontal Diagnoses. A. DONG*, P. PUSSINEN, S. PAJU, J. LESKELA, G. PROCTOR, S. ZARIC <i>(King's College London, London, United Kingdom)</i></p>
SP181	<p>Efficacy of Different Periodontal Prognostic Systems in Predicting Tooth Loss. S. SAYDZAI*, L. NIBALI, Z. BUONTEMPO, P. PATEL, H. FATEMAH, S. CHUANMING, A. AKCALI, N. DONOS, G.-H. LIN <i>(Faculty of Dentistry, Oral & Craniofacial Sciences, King's College London, London, United Kingdom)</i></p>
SP182	<p>Evaluation of Pain after Periodontal Surgery. S. GENNAI*, M. NISI, R. IZZETTI, F. GRAZIANI <i>(University of Pisa, Pisa, Italy)</i></p>
SP193	<p>Implication of Gremlin 1 in Periodontitis. C. STUTZ*, P.-Y. GEGOUT, O. HUCK <i>(INSERM UMR1260 Regenerative medicine, Strasbourg, France)</i></p>

PERIODONTAL RESEARCH-THERAPY

SP183	<p>Is Air-Polishing Clinically Relevant in Periodontal Active and/or Supportive Treatments? S. TEYSSIER*, D. CHACUN, V. SZÖNYI, B. GROSGOGEAT, K. GRITSCH <i>(Faculté d'Odontologie, Université Lyon 1, Université de Lyon, Lyon, France)</i></p>
SP184	<p>Fronodoside a Promotes Periodontal Healing after Delayed Tooth Replantation. S. PARK*, L. HERR, Y.K. CHAE, K.E. LEE, H.-S. LEE, S.C. CHOI, O.H. NAM <i>(Department of Pediatric Dentistry, School of Dentistry, Kyung Hee University, Seoul, Korea (the Republic of))</i></p>
SP185	<p>Citrus-Derived Eriocitrin Has Beneficial Effects on Inflammation and Oxidative Stress. J. CARVALHO*, P. MAQUERA HUACHO, D. SPOLIDORIO, L. SPOLIDORIO <i>(Department of Diagnosis and Surgery, School of Dentistry, São Paulo State University (Unesp), Araraquara, São Paulo, Brazil, Araraquara, Brazil)</i></p>



SP187	<p>Blue Light Irradiation Influences Reparative Responses in Gingival Fibroblasts.</p> <p>E. GAIT-CARR*, P. HORSTMAN, M. STOFFELS, R. MOSELEY, M. BORN, R. WADDINGTON <i>(Cardiff University, Cardiff, United Kingdom)</i></p>
SP188	<p>Retrospective Study of Minimally Invasive non-Surgical Treatment of Infralosseous Defects.</p> <p>R. OHANESSIAN*, A. BRINCAT, C. SADOWSKI, M. FAURE-BRAC, A. ANTEZACK, V. MONNET-CORTI <i>(Periodontology, Aix Marseille University, Marseille, France)</i></p>
SP190	<p>Sci-Ab Influences Periodontal Tissues of Ovariectomized Rats During Orthodontic Movement.</p> <p>M.E. SCORDAMAIA LOPES*, C. CHIERICI MARCANTONIO, G. PERLES, J. CIRELLI <i>(School of Dentistry at Araraquara, Sao Paulo State University - UNESP, Araraquara, São Paulo, Brazil)</i></p>
P191	<p>Randomised Clinical Trial on the Short-Term Anti-Plaque Effect of Cymenol.</p> <p>B. SUÁREZ-RODRÍGUEZ, C. BALSA-CASTRO, R. FIEL-OZORES, N. VILA-BLANCO, M.J. CARREIRA, I. TOMÁS* <i>(Oral Sciences Research Group, Department of Surgery and Medical-Surgical Specialties, Universidade de Santiago de Compostela, Health Research Institute Foundation of Santiago (FIDIS), Santiago de Compostela, A Coruña, Spain)</i></p>



SEQ#: 13**SYMPOSIUM****13:30 - 15:30****AUDITORIUM - LEVEL 0****DUAL-PHASE SUBSTITUTES: THE ADDED VALUE IN BONE REGENERATION
(SUPPORTED BY OSTEOBIOL BY TECNOSS)****Chairperson:** I. About

Q013	13:30	Collagen Sets the Foundation for Bone Vascularization and Regeneration. I. ABOUT* (<i>Aix-Marseille University, Marseille, France</i>)
Q014	14:05	Ridge Preservation with Collagenated Biomaterials. A. BARONE* (<i>School of Dental Medicine, Department of Surgical, Medical, Molecular Pathologies and of Critical Needs, University of Pisa, Pisa, Italy</i>)
Q015	14:40	Immediate Implant Restorations With the Multi-Layer-Technique-5y Results. H. WACHTEL* (<i>Implaneo Dental Clinic, München, Germany</i>)
	15:15	Discussion

SEQ#: 14**SYMPOSIUM****13:30 - 15:30****HALL MAJOR - LEVEL 2****SYMPOSIUM: WHAT HAS DENTISTRY LEARNED FROM THE PANDEMIC?
(SUPPORTED BY DENTAID RESEARCH CENTER)****Chairperson:** D. Herrera

Q016	13:30	Oral and Systemic Health - is there a "new" Link with COVID-19? D. HERRERA* (<i>Complutense University of Madrid, Madrid, Spain</i>)
Q017	13:55	Aerosols in the Dental Setting: a Misty Topic. F. VAN DER WEIJDEN* (<i>ACTA, Amsterdam, Netherlands</i>)
Q018	14:20	The Role of the Oral Cavity in SARS-CoV-2- and Other Viral Infections. D. HOFFMANN* (<i>Institute for Virology, Munich, Germany</i>)
Q019	14:45	Preprocedural Mouthwashes for Infection Control - an Update. F. CIEPLIK* (<i>University Hospital Regensburg, Regensburg, Germany</i>)
	15:10	Discussion



SEQ#: 15 ORAL SESSION 13:30 - 15:30		SALLE 120 - LEVEL 0
RESTORATIVE MATERIALS: CLINICAL TRIALS		
Chairpersons: N. Opdam and M. Peumans		
SO057	13:30	3-Year-Survival of CAD/CAM Resin-Based Composite Restorations in Severe Tooth-Wear Patients. E. MAIER*, L. D'ANIELLO, E. BRONKHORST, H. BRONKHORST, N. OPDAM, B. LOOMANS <i>(Dental Clinic 1, Friedrich-Alexander Universität Erlangen-Nürnberg, Erlangen, Germany)</i>
O058	13:45	Three-Year Clinical Performance of a Universal Adhesive in non-Carious Cervical Lesions. M. PEUMANS*, S. VANDORMAEL, I. DE COSTER, J. DE MUNCK, B. VAN MEERBEEK <i>(Oral Health Sciences, KU Leuven, Leuven, Belgium)</i>
O059	14:00	20-Year Follow up of 'Open Sandwich' and Total-Etch Posterior Composite Restorations. N. OPDAM*, B. LOOMANS, T. PEREIRA-CENCI, V. VANBEEK, M. CENCI, M. LASKE <i>(Dentistry, Radboud University Nijmegen, Nijmegen, Netherlands)</i>
O061	14:15	Direct Class-V Restoration Survival, a Practice-Based Prospective Cohort Study. M. LASKE*, N. OPDAM, M. CENCI, T. PEREIRA-CENCI, E. BRONKHORST, M.-C. HUYSMANS <i>(Dentistry, Radboud University Medical Center, Nijmegen, Netherlands)</i>
SO062	14:30	A Ten-Year Clinical Evaluation of Direct and Indirect Composite Restorations. A.R. CETIN, E.C. SIMSEK BALABAN*, E.R. DURAK, N. OZOGLU <i>(Selcuk University Faculty of Dentistry, Konya, Selçuklu, Turkey)</i>
SO063	14:45	Clinical Evaluation of Universal Bonding Agents: 3 Years Result. E.R. DURAK*, A.K. OZKAN, A.R. CETIN <i>(Restorative Dentistry, Selcuk University, Konya, Turkey)</i>
	15:00	Discussion

SEQ#: 16

ORAL SESSION

13:30 - 15:30

JOLIETTE - LEVEL 1

STEM CELL BIOLOGY, PULP BIOLOGY & REGENERATION RESEARCH

Chairpersons: N. Abd Elhamed and M. Pedano De Piero

SO065	13:30	3D-Inspired Bioengineered Tissue Flaps for Tissue Regeneration. I. REDENSKI*, S. SROUJI <i>(Oral & Maxillofacial Surgery, Galilee College of Dental Sciences, Nahariya, Israel)</i>
SO066	13:45	Role of Dental Pulp Stem Cell-Derived Neurotrophic Factors. N. ABD ELHAMED*, L. AMIN, A. ZAHER, M. GRAWISH, B. SCHEVEN <i>(Oral cell biology department, Faculty of dentistry, Mansoura University, Mansoura, Egypt)</i>
SO067	14:00	The Immunomodulatory Properties of Dental Pulp Stem Cells. M. VERMA*, N. JAKUBOVICS, C. NILE <i>(Dentistry (Oral Biology), Newcastle University, Newcastle, United Kingdom)</i>
SO069	14:15	Neuronal Differentiation of SCAPs Through 3D Sphere Formation. M. BASABRAIN*, J. ZHONG, C. ZHANG <i>(The University of Hong Kong, Ma Wan, Hong Kong)</i>
O070	14:30	Link Between Ageing and Autophagy in Human Pulpal Odontoblasts. N. MANCHOROVA-VELEVA*, M. GUENOVA, D. KESKINOVA <i>(Operative Dentistry and Endodontics, Medical University-Plovdiv, Plovdiv, Bulgaria)</i>
O071	14:45	Cell-Homing Versus Cell-Transplantation Approach for Dental-Pulp Regeneration: a Systematic Review. E. TIREZ, M.S. PEDANO DE PIERO* <i>(Oral Health Sciences - BIOMAT, KU Leuven, Leuven, Belgium)</i>
O072	15:00	Immunohistochemical Study of Inflammatory and Angiogenic Response of Dental Pulp. A. SOTIROVSKA IVKOVSKA*, E. ZABOKOVA BILBILOVA, Z. GEORGIEV <i>(Faculty of Dentistry, Skopje, Macedonia (the former Yugoslav Republic of))</i>
	15:15	Discussion



SEQ#: 17 ORAL SESSION 13:30 - 15:30		ESTAQUE - LEVEL 1
INSTRUMENTS AND EQUIPMENT/COLOR AND APPEARANCE OF POLYMERS		
Chairpersons: S. Belli and L. Turkun		
O073	13:30	Debridement of Root Canal Isthmus by Laser Activated Photoacoustic Streaming. I. BAGO*, A. DURIN, D. KANIZAJ, L. BATELJA-VULETIĆ, I. ANIĆ (Department of Endodontics and Restorative Dentistry, School of Dental Medicine University of Zagreb, Zagreb, Croatia)
O074	13:45	Should Separated-Files be Removed? a Stress-Analysis Study About Profit-Loss. A. AHADOV, S. BELLI* (Endodontics, Selçuk University, Konya, Turkey)
O075	14:00	Mechanisms and Loss Rates of Enamel Using Air-Abrasion and Nanoimpact. B. MANSOUR, N. NANTAKUMAR, B. HARDING, R. COOK* (Mechanical Engineering, University Of Southampton, Southampton, Hampshire, United Kingdom)
O076	14:15	Sterility Level Over Time of Multi-Used Sterilization Pouches. A. LIVNY*, E. BARON (Prosthodontics, Hebrew University School of Dental Medicine, Sarigim, Israel)
SO077	14:30	Effects of Different Whitening Agents on Resin Composites' Esthetic Properties. U. KOC VURAL, C. ATALAY*, S. GURGAN (Restorative Dentistry, Hacettepe University, Ankara, Turkey)
SO078	14:45	Effect of Bleaching on Microhardness and Color-Change of Resin-Infiltrated Lesions. A. TUNC*, Z. OZDUMAN, E. ELIGUZELOGLU DALKILIC (Restorative Dentistry, Bezmialem Vakif University, Istanbul, Turkey)
SO079	15:00	Heating Effect Upon the Color Coordinates of Composite Resins. C. PRODAN*, C. GASPARIK, B. VARVARA, A. BOITOR, D. DUDEA (Prosthodontics and Esthetics, Iuliu Hatieganu University of Medicine and Pharmacy, Cluj-Napoca, Cluj, Romania)
O080	15:15	Can We Repolish Discolored Single-Shaded Composite Resins with Different Wheel-Polishers? L.S. TURKUN*, C. CANEVI, H. BOYACIOGLU (Restorative Dentistry, Ege University School of Dentistry, Izmir, Turkey)

SEQ#: 18

ORAL SESSION

13:30 - 15:30

GRAND LARGE - LEVEL 1

ORAL & MAXILLOFACIAL SURGERY RESEARCH

Chairpersons: N. Armogida and P. Lahoud

SO081	13:30	<p>Surgical Results of Immature Third Molar Autotransplantation Using Printed Replicas.</p> <p>M. LEJNIEKS*, I. AKOTA, G. JAKOBSONE, L. NEIMANE, O. RADZINS <i>(Maxillofacial surgery, Riga Stradins University, Babite, Latvia)</i></p>
SO082	13:45	<p>CBCT-Based Biomechanical Models for the Study of Tooth Auto-Transplantation Outcomes.</p> <p>P. LAHOUD*, W. LAUWERS, J. WYATT, M. DUCRET, S. VALETTE, M. QUIRYNEN, H. VAN LENTHE, R. JACOBS, R. RICHERT, M. EZELDEEN <i>(Periodontology and Oral Microbiology, Department of Oral Health Sciences - University Hospitals Leuven, KU Leuven, Leuven, Belgium)</i></p>
O083	14:00	<p>DFDBA Allograft to Accelerate the Healing in Lefort's Osteotomy Sites.</p> <p>P. SOLTANI, I. MOHAMMADI, H. NAVAEI, G. SPAGNUOLO, N.G. ARMOGIDA* <i>(University of Naples "Federico II", Napoli, Naples, Italy)</i></p>
SO084	14:15	<p>Refined rat Model for Mandibular Osteoradionecrosis Study and Treatment.</p> <p>B. CHOUAIB*, M. DOS SANTOS, C. DEMARQUAY, P. GUIHARD, P. BLÉRY, F. MILLIAT, P. WEISS, N. MATHIEU <i>(Human Health Department, PSE-SANTE, SERAMED, LRMed, Institute for Radioprotection and Nuclear Safety, Fontenay-aux-Roses, France)</i></p>
SO085	14:30	<p>Odontogenic and Non-Odontogenic Maxillofacial Infections During COVID-19 Lockdown: Retrospective Analysis.</p> <p>R. RAUBAITE*, L. ZALECKAS, R. RASTENIENE <i>(Institute of Odontology, Faculty of Medicine, Vilnius University, Vilnius, Lithuania)</i></p>
SO086	14:45	<p>Evaluation of Three Different Suture Materials with Thermal Aging Technique.</p> <p>G. GÜRSES, I. AYDOĞAN*, A. AKTI <i>(Selçuk University, Konya, Turkey)</i></p>
SO087	15:00	<p>Comparison of 1-Stage and 2-Stage Palatoplasty: a Systematic Review and Meta-Analysis.</p> <p>A. SCHULZE WENNING*, B. GOLZIO NAVARRO CAVALCANTE, L. MÁRK CZUMBEL, B. SZABÓ, P. HEGYI, M. ACS, K. NAGY, G. GERBER, G. VARGA <i>(Center for translational Medicine, Semmelweis University, Budapest, Hungary)</i></p>
SO088	15:15	<p>The Effect of Consent Form on Anxiety in Oral Surgery.</p> <p>M. BEDER, M.S. AKKOÇ*, A. AKTI, E. DURMUS <i>(Selçuk University, Konya, Turkey)</i></p>



SEQ#: 19		
SYMPOSIUM		
16:00 - 18:00		AUDITORIUM - LEVEL 0
SYMPOSIUM YOUNG CED-IADR: NOVEL CHEMICAL MODIFICATIONS AND TREATMENTS TO CREATE EASY, SMART AND DURABLE POLYMERS AND INTERFACES (SUPPORTED BY COLGATE)		
Chairperson: M. Pedano De Piero		
Q020	16:00	Commercial and Experimental Self-Adhesive Composites: Where are we at Today? A. DELGADO* (<i>Centro de Investigação Interdisciplinar Egas Moniz (CiiEM), Monte de Caparica, Almada, Portugal</i>)
Q021	16:35	Single Versus Multi-Bottle Dental Adhesives: How Big Is The In-Between Gap? M. AHMED (<i>Department of Dental Biomaterials, Tanta University, Egypt</i>)
Q022	17:10	The Future of the ART Technique in Light of Novel Remineralising Dental Restorative Materials. M. TISKAYA* (<i>Queen Mary UoL, London, United Kingdom</i>)
	17:45	Discussion
SEQ#: 20		
SYMPOSIUM		
16:00 - 18:00		HALL MAJOR - LEVEL 2
SYMPOSIUM: CLINICAL EVIDENCE AND RESULTS ON NOVEL SOFT TISSUE ENGINEERED ACELLULAR DERMAL MATRIX AND IMMEDIATE LOADING PERFORMANCE IN IMPLANT DENTISTRY (SUPPORTED BY BIOHORIZONS CAMLOG)		
Chairperson: A. Sculean		
Q023	16:00	Tissue Thickening with an Acellular, Porcine Dermal Matrix Over Dental Implants and Around Teeth - Clinical and Immunohistological Results. T. FRETWURST* (<i>Regenerative Oral Medicine Section, Dept. of Dentistry, Oral and Maxillofacial Medicine, University of Freiburg, Freiburg, Germany</i>)
Q024	16:35	Effects of Three-Dimensional Collagen-Based Matrices on the Regenerative Potential of Primary Human Oral Fibroblasts, Primary Human Periodontal Ligament Cells, and pre-Osteoblasts. M. ASPARUHOVA*, A. SCULEAN (<i>Laboratory Cell Biology, School of Dental Medicine, University of Bern, Bern, Switzerland</i>)
Q025	17:10	Clinical Performance of Immediately Placed Progressive-Line Implants: Results of a Prospective Clinical Study. G. TRIMPOU* (<i>Polyclinic for Dental Surgery and Implantology, Department of Medicine, Goethe University, Frankfurt, Germany</i>)
	17:45	Discussion



SEQ#: 21

ORAL SESSION

16:00 - 18:00

JOLIETTE - LEVEL 1

PHARMACOLOGY, ORAL MEDICINE AND PATHOLOGY RESEARCH

Chairpersons: D. Adamo and T. Berg

SO089	16:00	<p>Mucoadhesive Patches Containing Antibody Derivatives Reduce Inflammation in Oral Lesions.</p> <p>J. EDMANS*, B. OLLINGTON, C. MURDOCH, S. SPAIN, P. HATTON, H. COLLEY</p> <p><i>(School of Clinical Dentistry, University of Sheffield, Sheffield, United Kingdom)</i></p>
SO090	16:15	<p>Effects of Children's Toothpastes and Detergent Contents on Zebrafish Embryos.</p> <p>G.E. KARAMAN*, I. UNAL, E. EMEKLI-ALTURFAN, S. AKYÜZ</p> <p><i>(Department of Pediatric Dentistry, Faculty of Dentistry, Marmara University, Istanbul, Turkey)</i></p>
SO091	16:30	<p>White Matter Hyperintensities in Burning Mouth Syndrome.</p> <p>D. ADAMO*, F. CANFORA, E. CAN, N. COPPOLA, S. LEUCI, G. PECORARO, R. CUOCOLO, L. UGGA, L. D'ANIELLO, M. ARIA, M.D. MIGNOGNA</p> <p><i>(Neuroscience, Reproductive Sciences and Dentistry, University of Naples Federico II, Naples, Italy, University of Naples Federico II, Naples, Italy)</i></p>
O092	16:45	<p>Poor Oral Hygiene and Infective Endocarditis: a Case Control Study.</p> <p>P. LOCKHART, V. CHU, J. ZHAO, F. GOSH, M. THORNHILL*, B. PIHLSTROM, F. BAHRANI-MOUGEOT, G. ROSE, Y.-P. SUN, J. NAPENAS, S. MUNZ, P. FARREHI, T. SOLLECITO, V. SANKAR, P. O'GARA</p> <p><i>(Oral & Maxillofacial Medicine, Surgery and Pathology, University of Sheffield, School of Clinical Dentistry, Sheffield, United Kingdom)</i></p>
SO093	17:00	<p>Oral Fibroblast's Critical Role in Prevention and Treatment of MRONJ.</p> <p>T. BERG*, H. ZIGDON GILADI</p> <p><i>(Technion Israel Institute of Technology, Rakefet, Israel)</i></p>
SO094	17:15	<p>Quantitative Histological Feature Analysis in Oral Epithelial Dysplasia.</p> <p>H. MAHMOOD*, N. RAJPOOT, A. KHURRAM</p> <p><i>(Oral Surgery, School of Clinical Dentistry, University of Sheffield, Sheffield, United Kingdom)</i></p>



O095	17:30	Intraductal Irrigations and Sialoendoscopies Dual Treatment for Oral Dryness Relief. D. AFRAMIAN*, O. BAR, N. CHEN, A. WILENSKY, G. ALMOZNINO (<i>Sjogren's Syndrome Center, Department of Oral Medicine, Sedation & Maxillofacial Imaging, Faculty of Dental Medicine, Hebrew University of Jerusalem Hadassah Medical Center, Jerusalem, Israel, Israel</i>)
SO096	17:45	Multidimensional Pain Evaluation Correlated with Psychological Profile and QoL in BMS. F. CANFORA*, E. CAN, G. PECORARO, L. D'ANIELLO, M. ARIA, G. MARENZI, P. SAMMARTINO, M.D. MIGNOGNA, M. BOLON (<i>Neurosciences, Reproductive and Odontostomatological Sciences, Oral Medicine Unit, University of Naples Federico II, San Giuseppe Vesuviano, Naples, Italy</i>)
SEQ#: 22		
ORAL SESSION		
16:00 - 18:00		ESTAQUE - LEVEL 1
MICROBIOLOGY/IMMUNOLOGY		
Chairpersons: R. Allaker and S. Niazi		
O097	16:00	Endodontic Microbiome and its Association With Systemic Inflammatory Burden. S. NIAZI*, A. BAKHSH, F. MANNOCCI, D. MOYES (<i>Endodontics, King's College London, London, United Kingdom</i>)
SO098	16:15	Effect of Sterilisation Techniques on Endodontic Sealers. S. BHANDARI*, W. PALIN, S. KUEHNE, J. CAMILLERI (<i>School Of Dentistry ,Institute Of Clinical Sciences,, University of Birmingham, Birmingham, United Kingdom</i>)
SO099	16:30	Endodontic Operative Field Asepsis in General Dental Care. L. MALMBERG*, C. BENAVENTE-HANSSON, M. BRUNDIN, A. BJÖRKNER (<i>Faculty of Odontology, Malmö University, Malmö, Sweden</i>)
SO100	16:45	Langerhans Cells Orchestrate Initial Establishment of Oral Mucosal Immunity Postnatally. Y. JABER*, A.-H. HOVAV (<i>Institute of Biomedical and Oral Research, Faculty of Dental Medicine, Hebrew University, Jerusalem, Israel</i>)
SO101	17:00	Microbial and Osteoblast Responses to Copper-Containing Titanium Implant Material. J. KHALID*, A. STEPHEN, S. RAWLINSON, R. ALLAKER (<i>Queen Mary University of London, London, United Kingdom</i>)
SO102	17:15	Cryotherapy for Managing Oral Biofilms: Beyond Biofilms Removal. N. ZAYED*, N.H.N. KAMARUDIN, A. BRAEM, N. BOON, K. BERNAERTS, W. VAN HOLM, W. TEUGHELS (<i>Oral health sciences, KU Leuven, Leuven, Vlaams-Brabant, Belgium</i>)
SO103	17:30	Harnessing Natural Competence in <i>Streptococcus Ferus</i> for Oral Health. B. RUED*, M. FEDERLE (<i>Chicago, University of Illinois, Chicago, Illinois, USA</i>)
	17:45	Discussion



SEQ#: 23

KEYNOTE LECTURE

16:00 - 17:00

GRAND LARGE - LEVEL 1

SILVER AGERS, BUT SILVER GONE: ARE DEMOGRAPHICS, EPIDEMIOLOGY AND DENTAL RESTORATIVE CARE APPROACHES IN SYNC? (SUPPORTED BY DMG)**Introduction by** L. Ceballos

Q001	16:00	Silver Agers, but Silver Gone: are Demographics, Epidemiology and Dental Restorative Care Approaches in Sync? F. SCHWENDICKE* (<i>Oral Diagnostics, Digital Health, Health Services Research, Charite - Universitaetsmedizin Berlin, Berlin, Germany</i>)
	16:45	Discussion

SEQ#: 24

KEYNOTE LECTURE

16:00 - 17:00

SALLE 120 - LEVEL 0

BSODR PRESIDENT'S LECTURE: CLINICALLY-INSPIRED TRANSLATIONAL MICROBIOLOGY: FROM STANDARDISATION TO MOLECULAR MECHANISMS

Q055	16:00	Clinically-Inspired Translational Microbiology: From Standardisation to Molecular Mechanisms. C. FARRUGIA* (<i>Bristol Dental School, University of Bristol, Bristol, United Kingdom</i>)
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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	Effects of Poly-Gamma-Glutamic Acid Produced From Different Sources on Demineralisation Inhibition of Hydroxyapatite. M. PARATI, R. HILL, I. RADECKA, M. STANLEY, D. MCGEE, P. ANDERSON* <i>(Institute of Dentistry, Queen Mary University of London, London, United Kingdom)</i>
O112	8:45	Systematic Review and Meta-Analysis on Physical Barriers to Prevent Dentin Demineralization. R. WIERICHS, T. MÜLLER, G. CAMPUS, T. CARVALHO, S. NIEMEYER* <i>(Department of Restorative, Preventive and Pediatric Dentistry, University of Bern, Bern, Switzerland)</i>
SO113	9:00	Efficacy of CPP-ACP on Early Caries Lesions Remineralization: a Meta-Analysis. B. GOLZIO NAVARRO CAVALCANTE*, A. SCHULZE WENNING, B. SZABÓ, L. MÁRK CZUMBEL, P. HEGYI, G. GERBER, G. VARGA <i>(Oral Biology, Semmelweis University, Budapest, Hungary)</i>
O114	9:15	Synergistic Influence of Strontium and Fluoride on Hydroxyapatite Demineralisation. R. HILL*, P. ANDERSON, S. SHAHID, A. ALSAQABI <i>(Dentistry, QMUL, Maidenhead, Berkshire, United Kingdom)</i>
SO115	9:30	Determination of the Remineralizing Effectiveness of Bioactive Dental Varnishes. E. DURMUS, T. KOLUS, E. ÇOBAN, H. YALCINKAYA*, H.E. ÜLKER, I. CELIK <i>(Selcuk University, Konya, Turkey)</i>
SO116	9:45	Efficacy of Silver-Fluoride Application on Root Caries Using High-Contrast XMT. M. BQAIN*, H. CHEN, S. SHAHID, A. BAYSAN <i>(Barts and the London, School of Dentistry, QMUL, London, United Kingdom)</i>

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>(Bezmi Alem 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	5-Year Tooth-Wear Progression in Severe Tooth-Wear Patients Using 3D-Measurements. H. BRONKHORST*, E. BRONKHORST, M.-C. HUYSMANS, S. KALAYKOVA, B. LOOMANS <i>(Dentistry, Radboudumc, Nijmegen, Netherlands)</i>
SO140	10:45	Subsurface Characteristics of Erosive Tooth Wear on Natural Human Enamel. 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>
O141	11:00	Remineralisation and Protection of Human Enamel by Fluoride-Containing Dentifrice. B. MAHMOODI*, U. MCDONNELL, L. D'ANIELLO, C. FOWLER <i>(Research and Development Oral Health, GlaxoSmithKline, Weybridge, United Kingdom)</i>
SO142	11:15	Characterization of Non-Carious Cervical Lesions. M. DASSA*, R. SARIG <i>(Department of Oral Biology, School of Dental Medicine, Sackler Faculty of Medicine, Tel-Aviv university, Tel Aviv, Israel)</i>
SO143	11:30	Comparative Study of Toothpastes for Dentin Tubule Occlusion. 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>
	11:45	Discussion



SEQ#: 36		
ORAL SESSION		
10:30 - 12:30		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. ESCLASSAN, 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	<p>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></p>
P246	<p>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></p>

ORTHODONTICS RESEARCH

SP247	<p>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></p>
SP248	<p>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></p>
SP250	<p>Relationships Between Dental Calcification and Vertebral Maturation in Mp3cap Stage. H.M. ERSEN*, Z. ILERI <i>(Selcuk University Faculty of Dentistry, Konya, Turkey)</i></p>

STEM CELL BIOLOGY RESEARCH

SP251	<p>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></p>
P252	<p>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></p>
SP253	<p>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></p>



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 P&G)****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>)
	14:45	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	Bonding Hydrophobic 2-Step Universal Adhesives to Low C-Factor Flat Dentin. 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>
SO196	16:15	Ionic Bonding Potential of New Methacrylamide Functional Monomers. 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>
O197	16:30	Dentin/Enamel Shear-Strengths and Failure-Modes of Self-Etch and Universal Bonding Agents. A. SCHEDLE*, S. LETTNER, A. FRANZ <i>(University Clinic of Dentistry, Medical University of Vienna, Vienna, Austria)</i>
O198	16:45	Bonding Performance of Universal Adhesives to Caries-Affected Dentin. Z. BATU EKEN*, N. SIRINSUKAN, E. CAN <i>(Yeditepe University Faculty of Dentistry, Istanbul, Turkey)</i>
SO199	17:00	Enamel Microtensile Bond-Strength Characterization of an Experimental-Adhesive Containing a Dendrimer. 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>
O200	17:15	Surface Pretreatments/Proximal Box Elevation on Adhesion of CAD/CAM Materials. M. FILDISI, E. DALKILIC*, B. OGLAKCI, Z. OZDUMAN <i>(Restorative Dentistry, Bezmialem Vakif University, Istanbul, Turkey)</i>
SO201	17:30	Does Composite Repair Time Affect Repair Protocol, Immediate or Delayed? M.C. ERSEN*, B. SADIOGLU, N. ALNAFTACHI, N. COBANOGLU <i>(Selcuk University Faculty of Dentistry, Konya, Turkey)</i>
SO202	17:45	Composite Cements Containing 10-MDP Bond to Zirconia without Separate Primer. 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>

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



SCIENTIFIC PROGRAMME

Saturday - SEPTEMBER 17, 2022

SEQ#: 50		
ORAL SESSION		
8:30 - 10:00		SALLE 120 - LEVEL 0
SALIVARY RESEARCH		
Chairpersons: I. Alsanie and R. Izzetti		
SO203	8:30	Minor Salivary Glands Ultrasonography in Establishing Sjögren's Syndrome Prognosis. R. IZZETTI*, G. FULVIO, M. NISI, S. GENNAI, C. BALDINI, F. GRAZIANI <i>(Department of Surgical, Medical and Molecular Pathology and Critical Care Medicine, University of Pisa, Pisa, Italy)</i>
SO204	8:45	Women Salivary Metabolome in Aging. P. BOSMAN*, L. LE POTTIER, A.C. ACEVEDO, V. PICHON, J.-O. PERS, H. CHARDIN, A. COMBES <i>(CBI-LSABM, ESPCI, Paris, France)</i>
SO205	9:00	Artificial Intelligence for Analysis of Salivary Gland Tumours. I. ALSANIE*, N. AZARMEHR, A. SHEPHARD, N. RAJPOOT, A. KHURRAM <i>(Oral and Maxillofacial Pathology, University of Sheffield, Sheffield, South Yorkshire, United Kingdom)</i>
O206	9:15	Salivary Proteome in Patients with or without Ulcerative Oral-Mucositis. S. LEEUWEN*, G. PROCTOR, A. STAES, A. LAHEIJ, C. POTTING, M. BRENNAN, I. VON BÜLTZINGSLÖWEN, F. ROZEMA, M. HAZENBERG, N. BLIJLEVENS, J. RABER-DURLACHER, M.-C. HUYSMANS <i>(Radboudumc, Nijmegen, Netherlands)</i>
SO207	9:30	Majority of Hematopoietic Stem Cell Transplantation Recipients Develops Hyposalivation. M. BULTHUIS*, L. VAN GENNIP, R. THOMAS, A. LAHEIJ, J. RABER-DURLACHER, F. ROZEMA, M. BRENNAN, I. VON BÜLTZINGSLÖWEN, N. BLIJLEVENS, M.-C. HUYSMANS, S. LEEUWEN <i>(Radboud University Medical Center, Zaandam, Netherlands)</i>
	9:45	Discussion



SEQ#: 51

ORAL SESSION

8:30 - 10:00

JOLIETTE - LEVEL 1

E-ORAL HEALTH NETWORK

Chairpersons: G. Almoznino and A. Laheij

O209	8:30	<p>Body Mass Index and Caries: Statistical and Machine Learning Analytics.</p> <p>G. ALMOZNINO*, S. SIRI, D. ZUR, O. BAR, O. BEN ASSULI <i>(Head, Big Biomedical Data Research Laboratory, Faculty of Dental Medicine, Hebrew University of Jerusalem, Hadassah Medical Center, Jerusalem, Israel)</i></p>
SO210	8:45	<p>Automated Deep-Learning-Based Arrangement of Periapical Radiographs.</p> <p>L. PFÄNDER*, J. KROIS, F. SCHWENDICKE <i>(Department of Oral Diagnostics, Digital Health and Health Services Research, Charité - Universitätsmedizin Berlin, Berlin, Germany)</i></p>
SO211	9:00	<p>Pilot Online Health Program Improved Mouth Dryness.</p> <p>I. STANKEVICIENE*, L. STANGVALTAITE- MOUHAT, V. KULVIETIS, E. MAZGELYTE, A. RIMKEVICIUS, D. MIELIAUSKAITE, A. PURIENE <i>(Vilnius University, Vilnius, Lithuania)</i></p>
O212	9:15	<p>Automatic Hyperparameter Tuning and Image Augmentation for Improving Angle Classification.</p> <p>J.E. CEJUDO GRANO DE ORO*, P.J. KOCH, F. SCHWENDICKE, J. KROIS <i>(Oral Diagnostics, Digital Health, Health Services Research, Charite - Universitaetsmedizin Berlin, Berlin, Germany)</i></p>
SO213	9:30	<p>Towards Privacy-Preserving AI in Dentistry with Federated Learning.</p> <p>L. SCHNEIDER*, J. KROIS, F. SCHWENDICKE <i>(Department of Oral Diagnostics, Digital Health and Health Services Research, Charité - Universitätsmedizin, Berlin, Germany, Berlin, Germany)</i></p>
SO214	9:45	<p>Analysis of YouTube Videos Related to Bichectomy.</p> <p>A. AKTI, D. KAYA, Z. CENGIZ*, G. GÜRSES <i>(Selcuk University, Konya, Turkey)</i></p>



SEQ#: 52 ORAL SESSION 8:30 - 10:00		ESTAQUE - LEVEL 1
E-ORAL HEALTH NETWORK Chairpersons: M. O'Sullivan and R. Singhal		
SO215	8:30	Do Medicated Psychiatric Patients Differ From Other Dry Mouth Patients? J. FRIGAARD*, H. HYNNE, J. JENSEN, A. VIK, L. HOVE, M. RYKKE <i>(University of Oslo, Oslo, Norway)</i>
SO216	8:45	Oral Health of Cameroonian Children: Pilot Study in Rural Areas. G. AIMOND*, T.-P. BÉATRICE, C. BERNARD-GRANGER, C. GISLE, T. CARON, A.V. JIOKENG, S. MAJOLI, J.-C. MAURIN, M. DUCRET, L. LAFOREST <i>(Faculté d'Odontologie, Université Claude Bernard Lyon 1, Lyon, France)</i>
SO217	9:00	Dental Caries in Irish Children: a Systematic Review. V. SHARMA*, M. CROWE, L. WINNING, A. O'SULLIVAN, O. CASSETTI, M. O'SULLIVAN <i>(Division of Restorative Dentistry & Periodontology, Dublin Dental University Hospital, Dublin, Ireland)</i>
SO218	9:15	GRK5 as a Functional Bridge Between Periodontitis and Neurodegeneration. D. LICCARDO*, A. CANNAVO, C. RENGO, C. DEL GIUDICE, A. VALLETTA, G. SPAGNUOLO, S. RENGO <i>(University of Naples Federico II, Naples, Italy)</i>
SO219	9:30	Is the way Researchers are Evaluated Appropriate? a Pilot Study. J. CENCI*, M. FRANCO, T. PEREIRA-CENCI, M. CORREA, A. CURY, D. MOHER, L. BOUTER, M.-C. HUYSMANS, M. CENCI <i>(Dentistry, Radboudumc, Cascavel, Paraná, Brazil)</i>
O220	9:45	Open Science Practices for Reproducible Data Analysis of Dental Research. M. CROWE*, L. WINNING, O. CASSETTI, A. O'SULLIVAN, M. O'SULLIVAN <i>(Dublin Dental University Hospital, Trinity College Dublin, Dublin, Ireland)</i>



SEQ#: 53		
ORAL SESSION		
8:30 - 10:00		GRAND LARGE - LEVEL 1
CARIOLOGY RESEARCH; DIAGNOSIS, PREVENTION AND TREATMENT		
Chairpersons: C. Bonifacio and M. Malik		
SO221	8:30	Automatic Caries Detection in Bitewing Radiographs Using Convolutional Neural Networks. A. TICHY*, L. KUNT, J. KYBIC <i>(Institute of Dental Medicine, General University Hospital in Prague, Prague, Czechia)</i>
SO223	8:45	Preparation and Characterization of a Radiopaque Infiltrant for Early Enamel Carious Lesions. M. HASAN*, A. KHATOON, S. ARSENIYADIS, M. PATEL, F. WONG <i>(Dental Physics Science Unit, QMUL, Center of Oral Bioengineering, London, United Kingdom)</i>
SO225	9:00	Investigation of Effects Produced by Fluoride Releasing Glass Ionomer Cements. M. MALIK*, G. DAVIS, R. HILL, D. MILLS <i>(Dental Physical Sciences Unit, Queen Mary University of London, London, United Kingdom)</i>
SO226	9:15	S. Mutans Biofilm Removal by α-(1\rightarrow3) Glucanase and DNase. M. QUEIROZ*, A. CORTEZ, V. PELLEGRINI, J. CURY, I. POLIKARPOV, A.P. RICOMINI FILHO <i>(Biosciences, UNICAMP, Piracicaba, Sao Paulo, Brazil)</i>
	9:30	Discussion
SEQ#: 54		
SYMPOSIUM		
10:30 - 12:30		AUDITORIUM - LEVEL 0
SYMPOSIUM: PATHOGENESIS, CLINICAL FEATURES AND MANAGEMENT OF SMELL AND TASTE DISTURBANCE IN COVID-19 (SUPPORTED BY NOF-IADR, SUPPORTED BY UNILEVER ZENDIUM)		
Chairperson: A. Lynge Pedersen		
Q052	10:30	Pathogenic Mechanisms Underlying Smell and Taste Disturbances with Focus on COVID-19. A. FJÆLDSTAD* <i>(Flavour Institute, Aarhus University, Aarhus, Denmark)</i>
Q053	11:05	Long COVID-19 and Olfactory Disorders. T. OVESEN* <i>(ENT Department, University Clinic for Flavour, Balance and Sleep, Herning, Denmark)</i>
Q054	11:40	Management of Smell, Taste and Trigeminal Disturbances in Patients with Long Covid-19. P. SINGH* <i>(Institute of Clinical Odontology, University of Oslo, Oslo, Norway)</i>
	12:15	Discussion



SEQ#: 55		
ORAL SESSION		
10:30 - 12:30		HALL MAJOR - LEVEL 2
ORAL MEDICINE & PATHOLOGY RESEARCH		
Chairpersons: E. Calabria and V. Petersen Wagner		
SO227	10:30	Vimentin Mediated Downregulation of Intercellular Associations Augments Cancer Cell Migration. S. USMAN*, M.-T. TEH, A. WASEEM <i>(Dentistry COIRM, Queen Mary University of London, London, United Kingdom)</i>
SO228	10:45	Investigation of Oral Cancer Microenvironment by Synchrotron Phase Contrast μ-CT. L. TOGNI*, M. FURLANI, N. RIBERTI, A. GIULIANI, A. SANTARELLI, M. MASCITTI <i>(Clinical Specialistic and Dental Sciences, Marche Polytechnic University, Ancona, Italy)</i>
SO229	11:00	Tumor-Associated Collagen Signatures by Multiphoton Microscopy in Oral Cancer. R. O'FLYNN*, T. CLOITRE, D. TARDIVO, A. SLIMANI, F. CUISINIER, H. TASSERY, C. GERGELY, R. LAN <i>(Ecole de médecine dentaire, Aix-Marseille University, Marseille, France)</i>
SO230	11:15	Alcohol Consumption may Enhance Oral Carcinogenesis by Modulating Aldehyde Dehydrogenases. I. O'GRADY*, J. OSULLIVAN <i>(Dublin Dental University Hospital, Dublin, Ireland)</i>
O231	11:30	Proteomic Comparison of Pleomorphic Adenoma and Carcinoma Ex-Pleomorphic Adenoma. V. PETERSEN WAGNER*, V. ZANELLA, S. COSTA, L. BINGLE, P. VARGAS, E. PILAR, F. FONSECA, M. MARTINS <i>(University of Sheffield, Sheffield, United Kingdom)</i>
SO232	11:45	Treatments' Outcomes in Pemphigus Vulgaris Patients: a Long-Term Comparative Study. E. CALABRIA*, S. LEUCI, D. ADAMO, E. RUOPPO, N. COPPOLA, F. CANFORA, M.D. MIGNOGNA <i>(Neuroscience, Reproductive Sciences and Dentistry, University of Naples Federico II, Naples, Italy, University of Naples Federico II, Naples, Italy)</i>
SO233	12:00	Development of a Multi-Cellular Tissue-Engineered Model of Oral Lichen Planus (OLP). A. EL-HOWATI*, H. COLLEY, C. MURDOCH <i>(Oral and Maxillofacial Pathology, University of Sheffield, Sheffield, United Kingdom)</i>
	12:15	Discussion



SEQ#: 56		
ORAL SESSION		
10:30 - 12:30		SALLE 120 - LEVEL O
ORAL SESSION: MINERALIZED TISSUE		
Chairpersons: Y. Jamil and S. Srouji		
SO236	10:30	<p>Effervescence: an Innovation in Porous Hydrogel Preparation for Bone Regeneration.</p> <p>S. ROUMANI*, C. JEANNEAU, G. LOUISE, S. JÉRÔME, M. PITHIOUX, I. ABOUT</p> <p><i>(Aix Marseille University, Centre National de la Recherche Scientifique, Institut des Sciences du Mouvement, Marseille, France)</i></p>
SO237	10:45	<p>Apatite Formation Under Extreme Acidic Conditions Using Solely Inorganic Approaches.</p> <p>A.KHALIQ*, O. ADDISON, M. ROSCOE, S. ELSHARKAWY</p> <p><i>(Centre of Oral, Clinical and Translational Sciences, Faculty of Dentistry, Oral and Craniofacial Sciences, King's College London, London, United Kingdom)</i></p>
SO238	11:00	<p>Morphological and Chemical Analysis of Dentin Affected by Radiation-Related Caries.</p> <p>B. NASCIMENTO*, P. SOARES JUNIOR, R. NUNES RACHED, I. ADAD FORNAZARI, E. MACHADO SOUZA</p> <p><i>(Graduate Program in Dentistry, Pontifícia Universidade Católica do Paraná, Curitiba, Paraná, Brazil)</i></p>
SO239	11:15	<p>Human Dentine Tubule and Microbranch Variations with Quantitative Serial-Block-Face Scanning-Electron-Microscopy.</p> <p>B. HARDING*, P. SCHNEIDER, K. RANKIN, L. D'ANIELLO</p> <p><i>(Mechanical Engineering, University of Southampton, Southampton, United Kingdom)</i></p>
SO240	11:30	<p>Identifying Internal Changes in the Teeth in Response to Enamel Cracks Using X-ray Microtomography.</p> <p>Y. JAMIL*, G. DAVIS, R. HILL, D.G. GILLAM</p> <p><i>(Centre For Oral Bioengineering, Institute of Dentistry, Queen Mary University Of London, London, United Kingdom)</i></p>
	11:45	Discussion



SEQ#: 57

ORAL SESSION

10:30 - 12:30

JOLIETTE - LEVEL 1

PERIODONTAL RESEARCH: PATHOGENESIS & THERAPY

Chairpersons: O. Huck and S. Karram

SO243	10:30	<p>High Fat Diet Induced Periodontitis and Diabetes in Mice.</p> <p>S. KARRAM*, A. GHANAIM, R. TZACH, A. KATZ, S. KAMINER, A. SCHAEFER, Y. HOURI-HADDAD, F. IRAQI, A. MELHEM, L. KARKAR, H. HASTURK, A. KANTARCI</p> <p><i>(Department of Prosthodontics, Dental School, The Hebrew University of Jerusalem, Jerusalem, Israel)</i></p>
SO244	10:45	<p>SARS-CoV-2 Infection Causes Periodontal Fibrotic Pathogenesis Through Deregulating Mitochondrial Beta-Oxidation.</p> <p>Y. GAO*, W.L. KOK, J. CARRÉ, C. ILLSLEY, S. HANKS, C. AFFOURTIT, C. TREDWIN, B. HU</p> <p><i>(Peninsula Dental School, Faculty of Health, University of Plymouth, Plymouth, Devon, United Kingdom)</i></p>
SO246	11:00	<p>P. Gingivalis Promotes the Secretion of Pro-Inflammatory Extracellular Vesicles by Oral Keratinocytes.</p> <p>P.-Y. GEGOUT*, B. MARY, C. STUTZ, V. HYENNE, H. ZIGDON GILADI, O. HUCK</p> <p><i>(Dental Faculty, Strasbourg, France)</i></p>
O247	11:15	<p>Predictive Role of Periodontitis as Risk Factor for Oral Cancer.</p> <p>R. SINGHAL*</p> <p><i>(Periodontology, King George's Medical University, Lucknow, Lucknow, Uttar Pradesh, India)</i></p>
O248	11:30	<p>The Clinical and Radiological Comparison of NIPSA and MIST: a Retrospective Study.</p> <p>A. OZTIN*, H. GÜNDOĞAR, M. ÖZALPAY</p> <p><i>(Gaziantep University, Kilis, Turkey)</i></p>
SO249	11:45	<p>Endo-Periodontal Treatment: Trans-Radicular Release of Active Components by Intracanal Medications.</p> <p>K. SY*, C. CHEVALIER, E. DEVEAUX, B. GROSGOGEAT, K. AGOSSA, K. GRISTCH</p> <p><i>(U1008-Controlled Drug Delivery Systems and Biomaterials, Inserm, CHU Lille, University of Lille, Lille, France)</i></p>
	12:00	Discussion



SEQ#: 58

ORAL SESSION

10:30 - 12:30

ESTAQUE - LEVEL 1

PROSTHODONTICS RESEARCH

Chairpersons: A. Biadsee and S. Levartovsky

SO251	10:30	<p>Temporomandibular Joint Involvement in Patients with Epilepsy. A. VASS*, K. KÁROLYHÁZY, K. MÁRTON <i>(Department of General Dental Preclinical Practice, Semmelweis University, Budapest, Budapest, Hungary)</i></p>
SO252	10:45	<p>Effect of CAD-CAM Abutment Height on Monolithic Zirconia Crown Esthetics. A. BIADSEE*, L. MASARWA, S. MASARWA, V. PERLIS, Z. ORMIANER <i>(Oral rehabilitation , Tel-Aviv University, Baka El Garbia, Israel)</i></p>
O253	11:00	<p>Fatigue Analysis of PEEK - Zirconia Hybrid Abutments for Ceramic Implants. W. GRIMM*, N. GROSSE, T. FRITSCH <i>(Periodontology, Witten/Herdecke University, Witten, NRW, Germany)</i></p>
O254	11:15	<p>Fit of Thin-Walled Zirconia Veneers Fabricated by 3D-Printing. S. RUES*, N. ZEHENDER, C. TREBING, P. RAMMELSBERG, A. ZENTHÖFER, F. SCHWINDLING <i>(Department of Prosthodontics, University Hospital Heidelberg, Heidelberg, Germany)</i></p>
O255	11:30	<p>Retrospective Follow-Up Study of Monolithic Zirconia Restorations in Bruxer Patients. S. LEVARTOVSKY*, H. HELLER, I. BEITLITUM, A. EMODI-PERLMAN, S. MATALON <i>(Department of Oral Rehabilitation,, the Maurice and Gabriela Goldschleger School of Dental Medicine, Tel Aviv University, Tel Aviv 6997801, Israel;, Tel-Aviv, ISRAEL, Israel)</i></p>
SO256	11:45	<p>Depth Measuring Accuracy of a Cusp-to-Arch Intraoral Scanning Workflow. P. CHARALAMBOUS*, R. AUSTIN, D. BARTLETT <i>(Faculty of Dentistry, Oral and Craniofacial Sciences, King's College London, London, Greater London, United Kingdom)</i></p>
SO257	12:00	<p>Evaluation of an Increased Occlusal Vertical Dimension in a RCT. L. CRINS*, N. OPDAM, C. KREULEN, E. BRONKHORST, M.-C. HUYSMANS, B. LOOMANS <i>(Department of Dentistry, Radboudumc, Nijmegen, Gelderland, Netherlands)</i></p>
SO258	12:15	<p>Bi-Directional Association Between Oral Health and Cognitive Function. C. GAO*, H. LARVIN, T. BISHOP, D. BUNCE, S. PAVITT, J. WU, J. KANG <i>(School of Dentistry, University of Leeds, Leeds, United Kingdom)</i></p>



SEQ#: 59

KEYNOTE LECTURE

10:30 - 11:30

GRAND LARGE - LEVEL 1

KEYNOTE LECTURE: ADHESION TO CERAMIC SURFACES: DOES 10-MDP PRIMER PERFORM BETTER INCORPORATED OR SEPARATED FROM THE RESIN CEMENT? (SUPPORTED BY KURARAY NORITA)

Introduction by J. Farges

Q004	10:30	Adhesion to Ceramic Surfaces: Does 10-MDP Primer Performs Better Incorporated or Separated From the Resin Cement? O. ETIENNE* (<i>University of Strassbourg, Strassbourg, France</i>)
	11:15	Discussion



SEQ#: 60

POSTER SESSION

11:30 - 12:30

POSTER HALL - LEVEL 0

PRESENTER AT POSTER*(Free poster viewing from 8:30 - 13:00)***DENTAL MATERIALS: CERAMIC-BASED MATERIALS**

- SP307** **Dentinal Tubules Penetration of Bioceramic and Conventional Sealers: SEM Analysis.**
V. BIFERI*, F. DE ANGELIS, M. VADINI, A. PIATTELLI, G. IEZZI, C. D'ARCANGELO
(Department of Medical, Oral and Biotechnological Sciences, University of Chieti-Pescara, Chieti, Italy)

DENTAL MATERIALS: ADHESION

- SP300** **Numerical Simulation of Debonding During Composite Polymerization.**
P.-C. TSENG*, D. KAISARLY, K.-H. KUNZELMANN
(Department of Conservative Dentistry and Periodontology, Ludwig Maximilian University of Munich, München, Germany)
- P301** **Immediate Bonding Property of Dual-Cure Resin Cement in Light-Cure Mode.**
K. SATO*, K. HIRANO, F. FUSEJIMA
(GC CORPORATION, Tokyo, Japan)
- SP302** **Inlay Cavity Design and Bonding Effect on Tooth Fracture Load.**
T. YLI-URPO*, L. LASSILA, P. VALLITTU, T. NÄRHI
(University of Turku, Turku, Finland)
- P303** **Aesthetic Properties of Newly Developed 2-Step Self-Etch Adhesive "G2-BOND Universal".**
T. SHOJI, K. HIRANO, F. FUSEJIMA, S. HIGASHI*
(R&D, GC corporation, Tokyo, Japan)
- P304** **Evaluation of Bonding Performance of Self-Adhesive Composite Resin.**
Y. KASAI*, K. HIRANO, F. FUSEJIMA
(Research & Development Dept., GC Corporation, Itabashi-ku, Tokyo, Japan)
- P305** **Bond Strength of Glass-Hybrid and Glass-Ionomer Materials to Primary Dentine.**
T. PERIC*, J. VULOVIC, J. NICHOLSON, M. BELOICA, J. KUZMANOVIC, PFICER, A. RACIC, B. PETROVIC, I. MILETIC, D. MARKOVIC
(University of Belgrade, School of Dental Medicine, Belgrade, Serbia)
- SP306** **Bonding a Universal Adhesive to Silver Diamine Fluoride Treated Dentin.**
M. UCTASLI*, T. STAPE, A. TEZVERGIL-MUTLUAY
(Department of Restorative Dentistry and Cariology, Adhesive Dentistry Research Group, Institute of Dentistry, University of Turku, Turku, Finland)



SP308	<p>Bonding of Composite to Fiber-Reinforced Resin - Effect of Fiber Orientation.</p> <p>S. RAETHER*, A. TASAKA, F. SCHWINDLING, P. RAMMELSBERG, S. YAMASHITA, A. ZENTHÖFER, S. RUES</p> <p><i>(Department of Prosthodontics, University Hospital Heidelberg, Heidelberg, Germany)</i></p>
SP309	<p>Short-Term and Aged Dentin-Bonding Effectiveness of Self-Cured Universal Composite Cements.</p> <p>B. MERCELIS*, K. VAN LANDUYT, M. PEUMANS, B. VAN MEERBEEK</p> <p><i>(Department of Oral Health Sciences, KULeuven-BIOMAT, Leuven, Flemish Brabant, Belgium)</i></p>
P310	<p>Bond Strength of Fiber Posts: Universal Versus Self-Adhesive Resin Cements.</p> <p>E. BAENA*, C. NUTI, D. ROSSITTO, N. ESCRIBANO, M.V. FUENTES, L. CEBALLOS</p> <p><i>(Stomatology , Alfonso X El Sabio University, Villanueva de la Cañada , Madrid, Spain)</i></p>
SP312	<p>Comparison of Different Universal Adhesive Systems on Dentin Bond Strength.</p> <p>S. BRKANOVIC*, J. VUKELJA, E. KLARIC, I. MILETIC, S. JUKIC KRMEK</p> <p><i>(School of Dental Medicine, University of Zagreb, Zagreb, Croatia)</i></p>
P313	<p>Universal Adhesives Silane Content Influences Bond Strength to Glass-Ceramic.</p> <p>M. AWAD*, F. ALHALABI, A. ALQAHTANI, A. ALSHEHRI, A. ALRAHLAH, A. TEZVERGIL-MUTLUAY</p> <p><i>(Department of Restorative Dentistry and Cariology, Adhesive Dentistry Research Group, Institute of Dentistry, University of Turku, Turku, Finland)</i></p>
SP347	<p>Bonding Hydrophobic-Rich Resins to Demineralized-Dry Dentin Using DMSO.</p> <p>O. ISMAIL*, T. STAPE, A. TEZVERGIL-MUTLUAY</p> <p><i>(Cariology and Restorative Dentistry, The University of Turku, Turku, Finland)</i></p>
<p>DENTAL MATERIALS: BIOCOMPATIBILITY, BIOENGINEERING AND BIOLOGIC EFFECTS OF MATERIALS</p>	
SP311	<p>In Vitro Response of Human Dental Pulp Stem Cells to Dental Composite.</p> <p>C. DEL GIUDICE*, M. MAGLITTO, C. MENALE, A. VALLETTA, S. RENGO, G. SPAGNUOLO</p> <p><i>(Department of Neurosciences, Reproductive and Odontostomatological Sciences, Federico II, University of Naples Federico II, Naples, Italy)</i></p>



DENTAL MATERIALS: COLOR AND APPEARANCE (ESTHETICS)	
P314	Impact of Colour-Vision Deficits on Shade Selection Among Dental Students. A. MONTEIRO*, A. DELGADO, H. VALENTE, A. AZUL <i>(Centro de Investigação Interdisciplinar Egas Moniz (CiiEM), LISBON, Portugal)</i>
SP315	Efficacy of Three Different Bleaching Techniques - Randomized Controlled Trial. S. DIAS*, R. PEREIRA, J. SILVEIRA, A. CARDOSO, P. FERNANDES, A. MATA, D. MARQUES <i>(Faculty of Dental Medicine of Universidade de Lisboa, Lisboa, Portugal)</i>
P316	Color Change of Universal Composites After Polishing. M.V. FUENTES*, P. TERCEÑO, A. NAVARRO, S. DE LA TORRE, I. GIRALDEZ, L. CEBALLOS <i>(IDIBO Research Group, Rey Juan Carlos University, Alcorcón, Madrid, Spain)</i>
P317	Color Stability of One-Sade Resin Composites After Immersion in Beverages. I. GIRALDEZ*, P. TERCEÑO, S. DE LA TORRE, A. NAVARRO, L. CEBALLOS, M.V. FUENTES <i>(IDIBO Research Group, Rey Juan Carlos University, ALCORCÓN, Spain)</i>
SP349	Translucency and Value of CAD/CAM Glass-Ceramic Veneers After Hydrothermal Aging. T. UNAL*, E. CAN SAY <i>(Restorative Dentistry, Yeditepe University, Faculty of Dentistry, Istanbul, Turkey)</i>
DENTAL MATERIALS: CLINICAL TRIALS	
P319	Sixty-Month Follow-up of a Glass Hybrid in NCCLs. S. GURGAN*, U. KOC VURAL, E. MERAL, E. ERGIN <i>(Restorative Dentistry, Hacettepe University, Ankara, Turkey)</i>
P320	Clinical Evaluations of a Capsuled Glass-Ionomer-Cement Containing BioUnion Filler. A.ASANO, M. NODA*, Y. NISHITANI, H. SHIGA, M. ITO, Y. CHIDA, A. KATSUMATA, S. SHIMIZU, T. NISHITANI, T. HOSHIKA <i>(School of Dentistry, Iwate Medical University, Morioka, Iwate, Japan)</i>
P322	Gingival Displacement Systems Efficacy Before Impression: Multicenter Randomized Clinical Trial. H. COLOMBEL, M. J. DAUTEL, F. BASLE, J. RUBIN, D. BASLE, H. ABGRALL, F. DELANOUE, V. BAR, M. THEVENIAU, N. DONMEZ, F. BENABDALLAH* <i>(MEDICAL AFFAIRS DEPARTMENT, SEPTODONT, Paris, Ile de France, France)</i>
P350	4-Years Clinical Performance of Glass-Hybrid and Composite in Multi-Center Trial. I. MILETIC*, A. BARABA, M. BASSO, M.G. PULCINI, T. PERIC, D. MARKOVIC, C. OZKAYA, L.S. TURKUN <i>(Department of Endodontics and Restorative Dentistry, School of Dental Medicine, University of Zagreb, Zagreb, Croatia)</i>

MINERALIZED TISSUE	
SP323	The Importance of Dental Cement in Determining Dental age. M. BIRIMIŠA, J. DUMANČIĆ, M. VODANOVIĆ, S. ANIĆ MILOŠEVIĆ, H. BRKIC* <i>(Department of Dental Anthropology, University of Zagreb, Zagreb, Croatia)</i>
SP325	Evaluating Buccal and Occlusal Polished Enamel Surfaces Following Erosion. A. ALMANSOUR*, D. BARTLETT, O. ADDISON <i>(King's College London, London, United Kingdom)</i>
SP326	Angiogenic and Osteogenic Potentials of an Injectable Lysine Dendrigrft Hydrogel. A. COTTEN*, S. ROUMANI, M. PITHIOUX, C. JEANNEAU, I. ABOUT <i>(Aix-Marseille Université, Centre National de la Recherche Scientifique, Institut des Sciences du Mouvement, Marseille, France)</i>
SP327	Comparison of Cell Detachment and Counting Procedures of Osteoblasts Cultured on Titanium Surfaces. O. YEVLASHEVSKAYA*, B. SCHEVEN, A. WALMSLEY, R. SHELTON <i>(School of Dentistry, University of Birmingham, Birmingham, United Kingdom)</i>
SP328	Structure of Human Tooth Enamel Tuft Revealed by Microtomography. A. DESOUTTER*, I. PANAYOTOV, F. CUISINIER, D. CARAYON <i>(LBN, Univ. Montpellier, Montpellier, France)</i>
SP329	Impact of Passive Ultrasonic Irrigation on Radicular Dentin. M. BARÓN*, V. PEREZ, M. SERRANO, N. ESCRIBANO, L. CEBALLOS <i>(IDIBO RESEARCH GROUP, Chemical and Environmental Technology, Rey Juan Carlos University, Madrid, Spain)</i>
NETWORK FOR PRACTICE-BASED RESEARCH	
SP331	Minimal Intervention Dentistry for Children with Caries - a Feasibility Study. B. DAWETT*, D. PAPAIOANNOU, A. BANERJEE, C. DEERY, Z. MARSHMAN <i>(School of Clinical Dentistry, University of Sheffield, Sheffield, United Kingdom)</i>



ORAL & MAXILLOFACIAL SURGERY RESEARCH

SP333	<p>A Novel TGF-β3-Derived Chondroinductive Peptide to Promote Chondrogenesis.</p> <p>M. ZHU*, W. ZHONG, S. JIANG, X. LI, W. CAO, T. FOROUZANFAR, Q. ZHANG, G. WU</p> <p><i>(Oral and Maxillofacial Surgery/Pathology, Amsterdam UMC and Academic Center for Dentistry Amsterdam (ACTA), Vrije Universiteit Amsterdam (VU), Amsterdam Movement Science (AMS), Amsterdam, Netherlands)</i></p>
P334	<p>Measuring Quality-of-Life After Customized TMD-Treatment; What Affects It Most?</p> <p>H.H. LEE*, V. BULL</p> <p><i>(Tannhelsetjenestens Kompetansesenter Rogalad, Stavanger, Norway)</i></p>
P337	<p>Anti-Fungal Effects of CMFs on MRONJ and Diabetic Foot.</p> <p>A. CIPOLLINA*, M. PETRINI, M. TUMEDEI, A. PIATTELLI, E. DAOU</p> <p><i>(Private practice, Sciacca, Agrigento, Italy)</i></p>
SP338	<p>Impact of COVID-19 on Head and Neck Cancer Presentation.</p> <p>M. MCALLISTER*, N. MARKEY, C. MOORE, G. MCKENNA</p> <p><i>(Centre for Dentistry, Queen's University Belfast, Belfast, United Kingdom)</i></p>
SP351	<p>Antimicrobial CHX-CaCl₂ Particle Coatings for use on Maxillofacial Fixation Devices.</p> <p>H. ALOSTATH*, S. HOLMES, D. GOULD, G. SUKHORUKOV, M. CATTELL</p> <p><i>(Centre for Oral Bioengineering, Queen Mary University of London, London, United Kingdom)</i></p>

PHARMACOLOGY/THERAPEUTICS/TOXICOLOGY

P341	<p>How did Containment Measures Affect Dental Prescribing Patterns During COVID-19?</p> <p>I. SUTEJ*, K. PEROŠ, K. BAŠIĆ</p> <p><i>(Pharmacology, School of Dental medicine University in Zagreb, Zagreb, Croatia)</i></p>
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PROSTHODONTICS RESEARCH

SP342	<p>Trueness and eco-Efficiency Analysis of the Support Structure Reduction for SLA Printed Maxillary Denture.</p> <p>S. NAMANO*, K. MANABU, A. KATHENG, B. TRANG, H. TAMAKI, Y. KOMAGAMINE, M. IWAKI, S. MINAKUCHI</p> <p><i>(Gerodontology and Oral Rehabilitation, Tokyo Medical and Dental University, Tokyo, Tokyo, Japan)</i></p>
P343	<p>Comparison of Algorithm-Based Occlusion Method with Classical Occlusion Alignment Method.</p> <p>J.-P. LUYCKX*, C. PARISE GRÉ, F.-X. COCH</p> <p><i>(GC Manufacturing Europe N.V., Leuven, Belgium)</i></p>



SP344	<p>Evaluation of the Shape Accuracy of Pre-Sintered Co-Cr Alloy Clasps. Y. KATO*, A. TASAKA, S. UZAWA, S. YAMASHITA <i>(Department of Removable Partial Prosthodontics, Tokyo Dental College, Chiyoda, Japan)</i></p>
P345	<p>Differents Direction on Precision of Temporary Bridges Using 3D Printers. C. IBAÑEZ*, J. ATALA, M. FUENTES, D. NOROÑA, J. CACCIAMANO, M. JUAREZ PEÑALBA, M. MAGLIONE <i>(Oral Rehabilitation, National University of Cordoba, Cordoba, Cordoba, Argentina)</i></p>
SP346	<p>Digital Evaluation of the Fit of Screw-Retained Implant-Supported Prosthesis. D. KULES*, V. RUTKUNAS, J. DIRSE, I. MISCHITZ, C. LARSSON, M. JANDA <i>(Institute of Dentistry, Vilnius University, Faculty of Medicine, Vilnius, Lithuania)</i></p>
SP348	<p>Accuracy of Pure Titanium RPD Frameworks Using Various CAD/CAM Techniques. K. ITO*, A. TASAKA, H. KOBAYASHI, S. NAKATA, S. YAMASHITA <i>(Department of Removable Partial Prosthodontics, Tokyo Dental College, Chiyoda, Tokyo, Japan)</i></p>
SP352	<p>Clinical Outcomes of 3D-Printed Bridges on Immediately Loaded Implants. M. SMEBY-LERSTAD*, C. SCHRIWER, E. SALVESEN <i>(University of Bergen, Bergen, Norway)</i></p>
CARIOLOGY RESEARCH-MICROBIOLOGICAL STUDIES/BIOFILM	
SP353	<p>Enamel Demineralization Caused by Various Carbohydrates Challenges - in Vitro Evaluation. Y. LOUZON*, A. WOLFOVIZ ZILBERMAN, Y. HOURI-HADDAD, N. BEYTH <i>(Department of Prosthodontics, The Hebrew University - Faculty of Dental Medicine, Nir israel, HOF ASHQELON, Israel)</i></p>
SP354	<p>The Effect of Coca-Cola Zero® and S. Mutans on Enamel Demineralization- in Vitro Evaluation. I. VAKNIN*, A. WOLFOVIZ ZILBERMAN, Y. HOURI-HADDAD, N. BEYTH <i>(Department of Prosthodontics, The Hebrew University- Faculty of Dental Medicine, Ramat Yishay, Israel)</i></p>
ORAL MEDICINE & PATHOLOGY RESEARCH	
SP355	<p>Oral Squamous Cell Carcinoma Diagnosis From Salivary Amino Acid Profile. D. MOJUMDER*, M. AKHTER, M. HASAN, M. HASAN, M. KHAN <i>(Oral and Maxillofacial Surgery, Bangabandhu Sheikh Mujib Medical University, Dhaka, Dhaka, Bangladesh)</i></p>

