



ORCA2022

*69th Congress of the European
Organisation for Caries Research*
Cagliari, Sardinia, Italy

June 29 - July 2

Sa Manifattura - Viale Regina Margherita, 33





Dear colleagues and attendees, my dear friends,

It is with great pleasure that I welcome you to the 69th ORCA Congress.

You have no idea what a pleasure it is for me to finally welcome you live in Cagliari!!!

After two years where we were restricted due to the pandemic to organise events online only, finally the ORCA family to welcome its members again. My first thought goes to the gratitude of all those who over the two years have done their utmost to keep our organisation alive, and I thank again my colleagues and friends for supporting the preparation of this event.

The program for the congress includes more than 120 original research presentations from more than 30 Countries.

With a warm thank you to all submitting authors, and to the scientific committee members Carolina Ganss (Editor in Chief) and Margherita Fontana (Vice- president of ORCA), who helped to review the contributions, I am happy and proud to present to you the scientific overview of ORCA 2022.

Guglielmo Campus,
Congress Chair and Co-President of 69th ORCA Congress, Cagliari



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Wednesday 29th, June, 2022

“Sa Manifattura” Viale Regina Margherita, 33, Cagliari, Italia

ORCA Education Platform

The Core Curriculum for Cariology: Fiction or Reality? Challenges About Implementation

TIME	TIME SPAN	TOPIC	LECTURER
16.00	10 min	Welcome Address from the Vice- and Past-President of ORCA and opening presentation.	<ul style="list-style-type: none">• Margherita Fontana (University of Michigan, USA)• Christian H. Splieth (University of Greifswald, Germany)
16.10	10 min each	The Core Curriculum for Cariology: Fiction or Reality?	<ul style="list-style-type: none">• Stefania Martignon (U. El Bosque, Colombia)• Marisa Maltz (Federal University of Rio Grande do Sul, Brazil)• Justine Kolker (University of Iowa, USA)• Nigel Pitts (King's College London's, UK)• Livia Ottolenghi (Sapienza University of Rome, Italy)
		Challenges About Implementation	<ul style="list-style-type: none">• Irina Kuzmina (Moscow State University, Russia)• Krithika Datta (Saveetha Dental College, India)• Renata Chalas (Medical University of Lublin, Poland)
17.30	ca.30 min	Round-table discussion with the participants.	Margherita Fontana & Christian Splieth
18.25	5 min	Closing of the meeting	Ruth Santamaría (University of Greifswald, Germany)

19:00 Welcome Cocktail Venue: Sa Manifattura, Viale Regina Margherita 33, Cagliari



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Thursday, 30th, June, 2022

“Sa Manifattura” Viale Regina Margherita, 33, Cagliari, Italia

9.00 Opening Ceremony

10.00 Prize winner lecture

Keynote Speaker **Prof. Annika Frahsa** (University of Bern, Switzerland)

“Participatory approaches in Health promotion programs”

11.00 Coffee break

Nathan Cochrane Junior Scientist Award

Chair *Fontana Margherita, Klaus Neuhaus, Juan Sebastian Lara*

12.00	Investigating the bioactive properties of a fluoride containing bioactive glass composite for preventing secondary caries <i>Tiskaya Melissa, Hill Robert, Shahid Saroash</i> <i>Dental Physical Sciences Unit, Institute of Dentistry, Queen Mary University of London, London, United Kingdom</i>
12.10	The effect of considering marginal defects in the diagnosis of secondary caries – the CaCIA Randomized Controlled Trial Clinical studies <i>Romero VHD, Signori C, Uehara JLS, Mendes FM, Cenci MS</i> <i>Department of Pediatric Dentistry and Orthodontics, School of Dentistry, University of São Paulo, São Paulo, SP, Brazil.</i>
12.20	Development of a novel and newly designed pH cycling model to study caries in vitro <i>Khan Z. S., Ablal M. Komarov, G. Burnside G., Cooper L., Flannigan N. L.</i> <i>Orthodontic Department, School of Dentistry, University of Liverpool, Liverpool, England, United Kingdom</i>
12.30	Comparison of Clinical and Digital Assessment of Erosive- abrasive Tooth Wear <i>Al-Seelawi Zahra, Benetti Ana Raquel, Baram Sara, Bakke Merete, Sonnesen Liselotte, Hermann Nuno Vibe</i> <i>Department of Odontology, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark</i>
12.40	Caries assessments on young adults using conventional techniques, 3D-intraoral scanner and near-infrared transillumination. Second report. <i>Riis M. K., Ekstrand K. R., Michou S.</i> <i>Department of Odontology, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark</i>
12.50	Assessment of different toothpaste applications without rinsing on artificial root caries <i>Chen Haoran, Hill Robert, Baysan Aylin</i> <i>Institute of Dentistry, Barts and the London School of Medicine and Dentistry, Queen Mary University of London, London, United Kingdom</i>

Clinical Studies 1

Chair *San-Martin Magdalena and Balian Araxi*

12.00	TiF4 varnish in the prevention and remineralization of white spot lesions during orthodontic treatment <i>Mascarenhas Moraes Samanta, Ayumi Koshino Larissa, de Souza Carvalho Thamyris, Martines de Souza, Beatriz, Marques Honório Heitor, Gamba Garib Daniela, Magalhães Ana Carolina Afonso Rabelo, Buzalaf Marília</i> <i>Department of Biological Sciences, Bauru School of Dentistry - University of São Paulo, Bauru, Brazil; Department of Pediatric Dentistry, Orthodontics and Public Health Department of Pediatric Dentistry, Orthodontics and Public Health Department of Biological Sciences, Bauru School of Dentistry - University of São Paulo, Bauru, Brazil</i>
12.10	Prevalence, severity and risk indicators for erosive tooth wear in Belgian adults. <i>Kanaan Mireille, Brabant Alain, Eckert George, Hara Anderson, Carvalho Joana</i> <i>Faculty of Medicine and Dentistry, UCLouvain, Brussels, Belgium; School of Dentistry, Indiana University, Indianapolis, United States of America</i>
12.20	Long-term caries prevention of sealants and NaF varnish in ASD children <i>Balian Araxi, Campus Guglielmo, Bontà Giuliana, Salerno Claudia, Cirio Silvia, Cagetti Maria Grazia</i> <i>Department of Biomedical, Surgical and Dental Sciences, University of Milan, Milan, Italy; Department of Restorative, Preventive and Pediatric Dentistry, University of Bern, Bern, Switzerland; Department of Surgery, Microsurgery and Medicine Sciences, School of Dentistry, University of Sassari, Sassari, Italy</i>



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12.30	<p>How entrenched are brushing movement frequencies? <i>Ressel Elisa-Maria, Giese-Kraft Katja, Ganss Carolina</i> <i>Department of Conservative and Preventive Dentistry, Dental Clinic of the Justus Liebig University Giessen, Giessen, Germany</i></p>
12.40	<p>Caries-OUT study in children with CariesCare International adapted for the pandemic: Uruguay Centre 1-year follow-up <i>San-Martin Magdalena, Beltrán Edgar O., Hermida Laura, Cortes Andrea, Douglas Gail V.A., Newton J. Timothy, Pitts Nigel B., Avila Viviana, Úsuga-Vacca Margarita, Gamboa Luis F., Deery Christopher, Martignon Stefania</i> <i>UNICA – Caries Research Unit, Research Department, Universidad El Bosque, Bogotá, Colombia; Department of Health, Universidad Católica del Uruguay, Montevideo, Uruguay; Dental Public Health, Leeds Dental Institute, University of Leeds, Leeds, United Kingdom; Dental Innovation and Impact, Faculty of Dentistry, Oral and Craniofacial Sciences, King's College London, London, United Kingdom; The University of Sheffield, Sheffield, UK UNICA – Caries Research Unit, Research Department, Universidad El Bosque, Bogotá, Colombia</i></p>
12.50	<p>CariesOUT single-group interventional multicentre study: 5- month caries control follow-up. <i>Martignon Stefania, Cortes Andrea, Douglas Gail V. A., Newton J. Timothy, Pitts Nigel .B, Avila Viviana, Usuga-Vacca Margarita, Gamboa, Luis F., Deery Christopher, Abreu-Placeres Ninoska, Bonifacio Clarisa, Braga, Mariana M, Carletto-Körber Fabiana, Castro Patricia, Cerezo María P, Chavarría Nathaly, Cifuentes Olga L., Echeverri Beatriz, Sofía Jácome-Liévano, Kuzmina Irina, Lara J. Sebastián, Martínez-Mier, E. Angeles, Manton David, Melo, Paulo Muller-Bolla, Michèle Ochoa, Emilia Osorio, Jesús R Ramos, Ketty Sanabria, Angie F Sanjuán, Johanna San-Martín Magdalena, Squassi Aldo, Velasco A. Karina, Villena Rita Ferreira, Zandona Andrea, Beltrán Edgar O.</i> <i>UNICA – Caries Research Unit, Research Department, Universidad El Bosque, Bogotá, Colombia; Dental Public Health, School of Dentistry, University of Leeds, Leeds, United Kingdom; Dental Innovation and Impact, Faculty of Dentistry, Oral and Craniofacial Sciences, King's College London, London, United Kingdom; Dental Innovation and Impact, Faculty of Dentistry, Oral and Craniofacial Sciences, King's College London, London, United Kingdom; School of Clinical Dentistry, The University of Sheffield, Sheffield, United Kingdom; Biomaterials and Dentistry Research Center (CIBO-UNIBE), Academic Research Department, Universidad Iberoamericana UNIBE, Santo Domingo, Dominican Republic; Department of Pediatric Dentistry, Academic Center for Dentistry Amsterdam, Amsterdam, The Netherlands; Department of Paediatric Dentistry, School of Dentistry, University of São Paulo, São Paulo, Brazil; Comprehensive Children and Adolescents Clinic, Paediatric Dentistry, Universidad Nacional de Córdoba, Córdoba, Argentina; School of Dentistry, Corporación Universitaria Rafael Nuñez, Cartagena, Colombia; School of Dentistry, Universidad Autónoma de Manizales, Manizales, Colombia; School of Dentistry, Universidad Cooperativa de Colombia, Envigado, Colombia; Department of Preventive Dentistry, Moscow State University of Medicine and Dentistry, Moscow, Russia. Department of Cariology, Operative Dentistry and Dental Public Health, Indiana University School of Dentistry, Indianapolis, IN, United States of America. Centrum Voor Tandheelkunde en Mondzorgkunde, UMCG, University of Groningen, Groningen, The Netherlands; EpiUnit, Faculty of Dental Medicine, Institute of Public Health, University of Porto, Porto, Portugal; Department of Paediatric Dentistry, Côte D'Azur University, Nice, France; Viva 1A IPS Health Provider, Barranquilla, Colombia; School of Dentistry, Universidad de Cartagena, Cartagena, Colombia; Paediatric Dentistry Department, Fundación Universitaria de Colegios de Colombia (UNICOC), Bogotá, Colombia; School of Dentistry, Universidad Católica de Uruguay, Montevideo, Uruguay; School of Dentistry, Universidad de Buenos Aires, Buenos Aires, Argentina; Paediatric Dentistry Department, Universidad San Martín de Porres, Lima, Peru. Department of Comprehensive Care, School of Dental Medicine, Tufts University, Boston, MA, United States of America.</i></p>

13.00 Lunch

Thursday, 30th, June, 2022

Nathan Cochrane Junior Scientist Award
 Chair *Fontana Margherita, Klaus Neuhaus, Juan Sebastian Lara*

14.30	<p>What does a plaque index say about the true plaque coverage of a tooth? <i>Jung Katja, Ganss Carolina, Schlueter Nadine, Giese-Kraft Katja</i> <i>Department of Conservative and Preventive Dentistry, Dental Clinic of the Justus Liebig University Giessen, Giessen, Germany; Center for Dental Medicine, University Medical Center, Albert-Ludwigs-University, Freiburg, Germany</i></p>
14.40	<p>The novel calibration method for the oral health survey in preschool children <i>Markovic Dejan, Vukovic Ana, Soldatovic Ivan, Peric Tamara, Kilibarda Biljana, Sava-Rosianu Ruxandra, Campus Guglielmo</i> <i>Department of Pediatric and Preventive Dentistry, School of Dental Medicine, University of Belgrade, Belgrade, Serbia; Department of Statistics and Bioinformatics, School of Medicine, University of Belgrade, Belgrade, Serbia; Institute of Public Health of Serbia "Dr Milovan Jovanovic Batut", Belgrade, Serbia; Department of Preventive, Community Dentistry and Oral Health, Faculty of Dentistry, University of Medicine and Pharmacy "Victor Babes", Timisoara, Romania; Department of Restorative, Pediatric and Preventive Dentistry, Dental Clinic, University of Bern, Bern, Switzerland</i></p>
14.50	<p>The antimicrobial activity of Curcuma xanthorrhiza oil nanoemulsion <i>Mu-Yeol Cho, Eun-Song Lee, Hoiin Jung, Baek-il Kim</i> <i>Department of Preventive Dentistry and Public Oral Health, BK 21 FOUR Project, Yonsei University College of Dentistry, Seoul, Republic of Korea</i></p>
15.00	<p>Study Protocol for a Randomized Controlled Clinical Trial on the efficacy and reliability of non-operative treatment amongst toddlers <i>Maklennan Anastasia</i> <i>Department of Restorative, Preventive and Pediatric Dentistry, University of Bern, Switzerland</i></p>
15.10	<p>Effectiveness of adhesive containing MDPB: a practice-based clinical trial <i>Hollanders Audrey</i> <i>Department of Dentistry, Radboudumc, Nijmegen, The Netherlands</i></p>



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15.20	<p>Dental caries status among subjects with type 2 Diabetes Mellitus (T2DM) in an urban Indian population.</p> <p><i>M. C. V. Ashritha, Krithikadatta Jogikalmat., Arul Buvaneshwari, Vishwanathan Mohan, Vishwanatha Vijay, Campus Guglielmo</i></p> <p><i>Private Practitioner, Royal Pearl dental clinic, Thillai nagar east, Trichy, Tamilnadu, India; Department of Cariology, Saveetha Dental College and Hospitals, Chennai, India; Department of Conservative Dentistry and Endodontics, Faculty of Dentistry, Meenakshi Academy of Higher Education and Research, Chennai, India; Madras Diabetes Research Foundation, Chennai, India; Prof. M Vishwanathan Diabetes Research Centre, Chennai, India; Department of Restorative, Preventive and Pediatric Dentistry, University of Bern, Switzerland.</i></p>
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De-Remineralization studies 1

Chair Mailart M. C. and Cury Jaime

14.30	<p>The effects of different surface treatment methods for orthodontic interproximal reduction on the development of caries</p> <p><i>Alfajfi Waleed Ahmed, Hassan Ali Habiballah, Bakry Ahmed Samir</i></p> <p><i>Department of Orthodontics, Faculty of Dentistry, King Abdulaziz University, Jeddah, Saudi Arabia; Department of Orthodontics, Alnoor Specialist Hospital, Ministry of Health, Makkah, Saudi Arabia; Operative Dentistry Department, Faculty of Dentistry, King Abdulaziz University, Jeddah, Saudi Arabia</i></p>
14.40	<p>Ion release evaluation of experimental resin composites containing dicalcium phosphate dihydrate (DCPD)</p> <p><i>Cardoso Cristiane, Galvão Renato, Naves Paula, Rodrigues Marcela, Braga Roberto</i></p> <p><i>Dentistry, Cruzeiro do Sul University, São Paulo, Brazil; Dentistry, Municipal University of São Caetano do Sul (USCS), São Caetano do Sul, Brazil; Department of Biomaterials and Oral Biology, University of São Paulo School of Dentistry, São Paulo, Brazil</i></p>
14.50	<p>Influence of radiation and different artificial saliva on root caries development in vitro</p> <p><i>Braga Aline Silva, Sassaki Susan, Araujo Tamara Teodoro, Vertuan Mariele, Buzalaf Marília Afonso Rabelo, Santos Paulo Sergio da Silva, Magalhães Ana Carolina</i></p> <p><i>Department of Biological Sciences, Bauru School of Dentistry, University of São Paulo, Bauru, Brazil; Department of Surgery, Stomatology, Pathology and Radiology, Bauru School of Dentistry, University of São Paulo, Bauru, Brazil</i></p>
15.00	<p>Fluoride uptake by enamel by APF (1.23% F) and change after different pH-cycling De-Re regimens</p> <p><i>Benedito Larissa, Ricomini-Filho Antônio, Tabchoury Cinthia, Cury Jaime</i></p> <p><i>Piracicaba Dental School, UNICAMP, Piracicaba, SP, Brazil</i></p>
15.10	<p>Effects of poly-gamma-glutamic acid of different concentrations and molecular weights on demineralisation inhibition of hydroxyapatite</p> <p><i>Clarke Louisa, Hill Robert, Anderson Paul</i></p> <p><i>Dental Physical Sciences Unit, Institute of Dentistry, Queen Mary University of London, London, United Kingdom</i></p>
15.20	<p>Effect of peroxide-based products containing fluoride on white spot lesion</p> <p><i>Mailart M. C., Borges A. B., Wierichs R. J., Torres C. R. G., Carvalho T. S.</i></p> <p><i>Department of Restorative Dentistry, Institute of Science and Technology, Sao Paulo State University, Sao José dos Campos, Brazil; Department of Restorative, Preventive and Pediatric Dentistry, School of Dental Medicine, University of Bern, Bern, Switzerland; Department of Restorative Dentistry, Institute of Science and Technology, Sao Paulo State University, Sao José dos Campos, Brazil</i></p>
15.30	<p>Chemical stability of CaF₂-like products formed in sound and carious enamel</p> <p><i>Rocha Déborah, Ferreira Robson, Tabchoury Cinthia, Ricomini Filho Antônio Pedro, Cury Jaime</i></p> <p><i>Piracicaba Dental School, UNICAMP, Piracicaba, Brazil</i></p>
15.40	<p>A pH-cycling model to evaluate the potential of fluoride varnishes to reduce enamel demineralization</p> <p><i>Tabchoury Cinthia, Ferreira Robson, Cury Jaime</i></p> <p><i>Department of Biosciences, Piracicaba Dental School, Piracicaba, Brazil</i></p>
15.50	<p>45S5 bioglass remineralizes and protects enamel against simulated cariogenic attack</p> <p><i>Abbassy Mona Aly, Hassan Aly Habiballah</i></p> <p><i>Department of Orthodontics, Faculty of Dentistry, King Abdulaziz University, Jeddah, Saudi Arabia</i></p>
16.00	<p>Energy dispersive X-ray spectroscopy to detect and analyze fluorides, peptides and cerium-salt on dental enamel</p> <p><i>Scholz Konstantin J., Hiller Karl-Anton, Ebensberger Helga, Ferstl Gerlinde, Tauböck Tobias T., Becker Klaus, Buchalla Wolfgang</i></p> <p><i>Department of Conservative Dentistry and Periodontology, University Hospital Regensburg; Clinic of Conservative and Preventive Dentistry, University of Zurich, Zürich, Switzerland</i></p>

16.00 Coffee break



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Fluoride studies 1

Chair Staun Larsen Line and Salerno Claudia

16.30	<p>Silver diamine fluoride efficacy in arresting caries in primary molars: a systematic review and meta-analysis</p> <p>Salerno Claudia, Campus Guglielmo, Balian Araxi, Cirio Silvia, D'avola Valeria, Cagetti Maria Grazia <i>Department of Biomedical, Surgical and Dental Sciences, University of Milan, Milan, Italy; Department of Restorative, Preventive and Pediatric Dentistry, University of Bern, Bern, Switzerland; Department of Surgery, Microsurgery and Medicine Sciences, School of Dentistry, University of Sassari, Sassari, Italy</i></p>
16.40	<p>Mineral release from toothpaste containing S-PRG fillers during toothbrushing and subsequent oral retention</p> <p>Kato Kazuo, Shimazaki Yoshihiro <i>School of Dentistry, Aichi Gakuin University, Nagoya, Japan, School of Dentistry, Aichi Gakuin University, Nagoya, Japan</i></p>
16.50	<p>Fluoride varnish reduces the lower resistance of fluorotic enamel to demineralization</p> <p>Almeida Luma Fabiane, Tabchoury Cinthia Pereira Machado, Valdivia-Tapia Astrid Carolina, Martínez-Mier Esperanza Angeles, Villamarim Rodrigo Soares, Cury Jaime Aparecido <i>Pontifical Catholic University of Minas Gerais, Belo Horizonte, MG, Brazil; Piracicaba Dental School, UNICAMP, Piracicaba, SP, Department of Cariology, Indiana University School of Dentistry, United States of America</i></p>
17.00	<p>Fluoride and silver ion concentrations and pH in silver diamine fluoride solutions from Argentina</p> <p>Rossi Glenda, De Santis Miguel, Valadas Lidia, Audrey Rocha, Squassi Aldo <i>Cátedra de Odontología Preventiva y Comunitaria, Facultad de Odontología, Universidad de Buenos Aires, Buenos Aires, Argentina</i></p>
17.10	<p>Effect of pH of fluoride mouthrinse on reduction of enamel demineralization</p> <p>Valdivia-Tapia Astrid Carolina, Ricomini-Filho Antônio Pedro, Tabchoury Cinthia Pereira Machado, Cury Jaime Aparecido <i>Piracicaba Dental School, UNICAMP, Piracicaba, SP, Brazil</i></p>
17.20	<p>Effect of 5,000 ppm fluoride toothpaste on salivary fluoride: a randomized, controlled clinical trial</p> <p>Staun Larsen Line, Nyvad Bente, Baelum Vibeke <i>Department of Dentistry and Oral Health, Aarhus University, Aarhus, Denmark</i></p>
17.30	<p>Do toothpastes in Santo Domingo have the recommended minimum of 1000-ppm total soluble fluoride?</p> <p>Abreu-Placeres Ninoska, Lippert Frank, Buckley Chris, Tamayo-Cabeza Guillermo, Garrido Luis Eduardo, Ekstrand Kim Rud, Martignon Stefania, Martinez Mier Esperanza Angeles <i>Faculty of Health and Medical Sciences, Section of Cariology and Endodontics, University of Copenhagen, Copenhagen, Denmark; Biomaterials and Dentistry Research Center (CIBO-UNIBE), Universidad Iberoamericana, Santo Domingo, Dominican Republic; Department of Cariology, Operative Dentistry and Dental Public Health, Indiana University School of Dentistry, Indianapolis, Indiana, United States of America; School of Psychology, Pontificia Universidad Católica Madre y Maestra, Santo Domingo, Dominican Republic; Universidad El Bosque, Bogotá, Colombia, Department of Cariology, Operative Dentistry and Dental Public Health, Indiana University School of Dentistry, Indianapolis, Indiana, United States of America</i></p>

Epidemiology 1

Chair Schmoeckel Julian and Sava-Rosianu Ruxandra

16.30	<p>The impact of DMF-T and PUFA on quality of life</p> <p>Reis Patricia, Jorge Roberta, Guerra Bianca, Peres Ana, Oliveira Aline, Pontes Norma, Soviero Vera <i>Department of Pediatric Dentistry, Universidade do Estado do Rio de Janeiro, Rio de Janeiro, RJ, Brazil; Dentistry School, Centro Universitario Arthur Sá Earp Neto, Petrópolis, Brazil</i></p>
16.40	<p>Standardizing the DMFT of 12 year-old 6th-graders in the federal states of Germany in National Oral Health Survey in Children 2016 by weighting with national distribution of school types</p> <p>Wahl Goetz, Schmoeckel Julian, Splieth Christian Heinz <i>Landesamt für Verbraucherschutz Sachsen-Anhalt (LAV), Department of Preventive and Pediatric Dentistry, University of Greifswald, Greifswald, Germany</i></p>
16.50	<p>Oral health behaviour among the population in Russia</p> <p>Kuzmina Irina, Janushevich Oleg, Kuzmina Edith, Ravinskaya Alla, Kuznetsov Pavel <i>Preventive Dentistry Department, Moscow State University of Medicine and Dentistry, Moscow, Russia; Periodontology Department, Moscow State University of Medicine and Dentistry, Moscow, Russia</i></p>
17.00	<p>Oral health behaviours, living conditions and caries experience of 6-year olds in Romania</p> <p>Sava-Rosianu Ruxandra, Campus Guglielmo, Dumitrescu Ramona, Maricutoiu Laurentiu, Galuscan Atena <i>Department of Preventive, Community Dentistry and Oral Health, Faculty of Dentistry, University of Medicine and Pharmacy Timisoara Romania; Department of Restorative, Preventive and Pediatric Dentistry, University of Bern, Bern, Switzerland; Department of Surgery, Microsurgery and Medicine Sciences, School of</i></p>



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	<i>Dentistry, University of Sassari, Sassari, Italy Department of Preventive, Community Dentistry and Oral Health, Faculty of Dentistry, University of Medicine and Pharmacy Timisoara Romania, West University Timisoara, Romania</i>
17.10	Dental health in a Viking population from Varnhem, Sweden <i>Bertilsson Carolina, Vretemark Maria, Lund Henrik, Lingström Peter</i> <i>Department of Cariology, Institute of Odontology, Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden; Skara Museum, Skara, Sweden, Department of Oral & Maxillofacial Radiology, Institute of Odontology, Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden</i>
17.20	Oral health related dietary habits among the population in Russia <i>Said Daria, Kuzmina Edith, Lapatina Alla, Borchalinskaya Karina, Kuzmina Irina</i> <i>Preventive Dentistry Department, Moscow State University of Medicine and Dentistry, Moscow, Russia</i>
17.30	Caries trajectories decline in children 7-10 years old in the city of Greifswald in Germany <i>Mourad Mhd Said, Al Masri Ahmad, Basner Roger, Vielhauer Annina, Splieth Christian Heinz</i> <i>Department of Preventive and Pediatric Dentistry, University of Greifswald, Greifswald, Germany; Department of Orthodontics, University of Greifswald, Greifswald, Germany</i>
17.40	Caries trajectories decline in adolescents 14-18 years old in the city of Greifswald in Germany <i>Al Masri Ahmad, Mourad Mhd Said, Basner Roger, Vielhauer Annina, Splieth Christian Heinz</i> <i>Department of Preventive and Pediatric Dentistry, University of Greifswald, Greifswald, Germany; Department of Orthodontics, University of Greifswald, Greifswald, Germany</i>

17.45 General Assembly

20.00 (tbc) Informal dinner: Bastione San Remy (walking distance from Convention Center 200 meters)



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Friday, 1st, July, 2022

"Sa Manifattura" Viale Regina Margherita, 33, Cagliari, Italia

08.30 Keynote Speaker **Prof. Stefania Martignon** (Universidad El Bosque, Colombia)
 "ICCMS/CCI caries management system in public health and the practice"

Microbiology

Chair *Lehrkinder Anna and Tennert Christian*

9.30	Regulation of Streptococcus mutans virulence characteristics by probiotic Lactobacillus reuteri metabolites <i>Lehrkinder Anna, Alforaidi Sahal, Lingström Peter</i> <i>Department of Cariology, Institute of Odontology/Sahlgrenska Academy, University of Gothenburg, Sweden</i>
9.40	Effect of different atmospheres on microcosm biofilm formation and tooth demineralization <i>Braga Aline Silva, Kim Ricci Kim, Magalhães Ana Carolina</i> <i>Department of Biological Sciences, Bauru School of Dentistry, University of São Paulo, Bauru, Brazil.</i>
9.50	Development of multi-particulate systems for natural compound release and oral biofilm control. <i>Sales Luciana Solera, Meneguín Andréia Bagliotti, Barud Hernane da Silva, Brighenti Fernanda Lourenção</i> <i>Department of Morphology, Genetics, Orthodontics and Pediatric Dentistry, São Paulo State University (Unesp), School of Dentistry, Araraquara, São Paulo, Brazil; Department of pharmaceuticals and medicines, São Paulo State University (Unesp), School of Pharmaceutical Sciences, Araraquara, São Paulo, Brazil University of Araraquara (UNIARA), Araraquara, São Paulo, Brazil.</i>
10.00	Bacteriome analysis of biofilm from root surfaces in Colombian elderlies <i>Usuga-Vacca Margarita, Márquez-Ortiz Ricaurte Alejandro, Castellanos Jaime Eduardo, Martignon Stefania</i> <i>UNICA - Caries Research Unit, Research Department, Universidad El Bosque, Bogotá, Colombia; Bacterial Molecular Genetics Laboratory, Research Department, Universidad El Bosque, Bogotá, Colombia; Grupo de Virología, Vicerrectoría de Investigación, Universidad El Bosque, Bogotá, Colombia.</i>
10.10	Bacterial composition of dental biofilm from adolescents with Erosive Tooth Wear, Cavitated Caries or Sound <i>Avila Viviana, Beltran, Edgar O, Castellanos, Jaime, Martignon Stefania</i> <i>UNICA - Caries Research Unit, Research Department, Universidad El Bosque, Bogotá, Colombia</i>
10.20	Antimicrobial photodynamic therapy mediated by Senna macranthera plant extract against Candida albicans suspensions and biofilm <i>Barbosa E. R. O. Oliveira, A. B. Fontana, C. R. Annunzio, S. R. Ferrisse, T. M. Franca, M. G. A. Silva, M. G. V. Cavalheiro, A. J. Brighenti</i> <i>School of Dentistry, São Paulo State University (UNESP), Araraquara, São Paulo, Brazil</i>
10.30	Antimicrobial effects of photodynamic therapy in artificial carious lesions in human teeth in vitro <i>Tennert Christian, Kriett Sonja, Altenburger Markus Jörg, Al-Ahmad Ali</i> <i>University of Bern, Department of Restorative, Preventive and Pediatric Dentistry, School of Dental Medicine, Bern, Switzerland; Department of Operative Dentistry and Periodontology, Faculty of Medicine, University of Freiburg, Freiburg, Germany</i>
10.40	Anti-caries and antibiofilm capacity of a prebiotic in association with fluoride <i>Miranda Marina Danelon, Marcelle Nunes, Gabriel Delbem, Alberto Brighenti Fernanda</i> <i>School of Dentistry, Araraquara, São Paulo State University (UNESP), Brazil</i>
10.50	Anti-biofilm activity of chlorhexidine-releasing elastomerics against dental microcosm biofilms <i>Choi Jun-Hyeok, Jung Eun-Ha, Lee Eun-Song, Jung Hoi-In, Kim Baek-II</i> <i>Department of Preventive Dentistry and Public Oral Health, BK 21 FOUR Project, Yonsei University College of Dentistry, Seoul, Republic of Korea; Department of Dental Hygiene, Yonsei University College of Software and Digital Healthcare Convergence, Wonju, Republic of Korea</i>

Erosion Studies 1

Chair *Luka Benedikt and Magalhães Ana Carolina*

9.30	Salivary pellicle modification with film-forming polymers and fluoride for the protection of enamel erosion <i>Sakae Leticia, Scaramucci Taís, Niemeyer Samira, Borges Alessandra, Carvalho Thiago</i> <i>Department of Restorative Dentistry, University of São Paulo, São Paulo, Brazil; Institute of Science and Technology, São Paulo State University, São Paulo, Brazil Department of Restorative, Preventive and Pediatric Dentistry, School of Dental Medicine, University of Bern, Bern, Switzerland</i>
9.40	Protease-inhibitors added to saliva increase the erosion protective effect of in vitro pellicles <i>Baumann Tommy, Beyeler Barbara, Niemeyer Samira Helena, Buzalaf Marília Afonso Rabelo,</i>



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	<i>Carvalho Thiago Saads</i> <i>Department of Restorative, Preventive and Pediatric Dentistry, School of Dental Medicine, University of Bern, Bern, Switzerland; Bauru School of Dentistry, University of São Paulo, Bauru, Brazil</i>
9.50	Phosphoric acid modified with polyphenol-rich plant extracts: effect on bond strength to non-eroded/eroded dentine <i>Zayed Mohamed, Hug Isabel, Stiebritz Michael, Peutzfeldt Anne, Flury Simon, Baumann Tommy, Saads Carvalho Thiago, Niemeyer Samira Helena</i> <i>Department of Restorative, Preventive and Pediatric Dentistry, School of Dental Medicine, University of Bern, Bern, Switzerland</i>
10.00	Impact of sodium-hexametaphosphate on the anti- erosive/anti-abrasive effect of fluoride or fluoride-stannous- combinations in enamel in vitro <i>Luka Benedikt, Duerrschnebel Andrea, Neumaier Sina, Schlueter Nadine</i> <i>Division for Cariology, Department of Operative Dentistry and Periodontology, Center for Dental Medicine, Medical Center - University of Freiburg, Faculty of Medicine, University of Freiburg, Freiburg im Breisgau, Germany</i>
10.10	Effect of the experimental TiF4 and chitosan toothpastes on erosive-abrasive dentin wear in vitro <i>Vertuan Mariele, Francese Monique Malta, Gonçalves Isabela Vieira Bolzan, Souza Beatriz Martines, Magalhães Ana Carolina</i> <i>Department of Biological Sciences, Bauru School of Dentistry - University of São Paulo, Bauru-SP, Brazil</i>
10.20	Effect of the experimental TiF4 and chitosan toothpastes on enamel tooth wear in vitro <i>Magalhães Ana Carolina, Francese Monique M., Gonçalves Isabela V. B., Vertuan Mariele, Souza Beatriz Martines</i> <i>Department of Biological Sciences, Bauru School of Dentistry, University of São Paulo. Bauru, Brazil</i>
10.30	Control of erosive/abrasive dentin wear using aminomethacrylate copolymer/fluoride solutions <i>Borges Alessandra, Lotto Giovanna, Wrzesinski Taiana, Santos Tamires, Augusto Marina, Scaramucci Tais, Torres Carlos</i> <i>Department of Restorative Dentistry, Sao Paulo State University- UNESP, Sao Jose dos Campos, Brazil</i>
10.40	Cellular proteins immobilized within the acquired pellicle protect gastroesophageal reflux disease patients against erosive wear <i>Martini Tatiana, Rios Daniela, Dionizio Aline, Taira Even, Ventura Talita, Araújo Tamara, Magalhães Ana Carolina, Carvalho Thiago, Baumann Tommy, Lussi Adrian, Palma-Dibb Regina</i> <i>Department of Biological Sciences, Bauru School of Dentistry, University of São Paulo, Bauru, Brazil; Department of Pediatric Dentistry, Bauru School of Dentistry, University of São Paulo, Bauru, Brazil; Department of Preventive, Restorative and Pediatric Dentistry, University of Bern, Bern, Switzerland; Ribeirão Preto School of Dentistry, University of São Paulo, Ribeirão Preto, Brazil</i>
10.50	Addition of plant extract to acids can reduce their erosive potential <i>Unteregger Sara, Furrer Samuel, Niemeyer Samira Helena, Baumann Tommy, Carvalho Thiago Saads</i> <i>Department of Preventive, Restorative and Pediatric Dentistry, University of Bern, Bern, Switzerland</i>

11.00 Coffee break

De-Remineralization studies 2

Chair Juric Hrvoje and Marcella Esteves-Oliveira

11.30	Remineralization by experimental toothpastes containing S-PRG fillers <i>Inaba Daisuke, Nakatsuka Toshiyuk, J de Josselin de Jong Elbert, Jiro Hitomi</i> <i>Division of Human Embryology, Department of Anatomy, Iwate Medical University, Yahaba, Iwate, Japan; Marketing Department, Shofu Inc., Kyoto, Japan; Inspektor Research Systems BV, Bussum, The Netherlands; Division of Human Embryology, Department of Anatomy, Iwate Medical University, Yahaba, Iwate, Japan</i>
11.40	Effect of surface polishing protocols on roughness and in situ bacterial growth of resin infiltrated lesions <i>Esteves-Oliveira M., Zaranza T., Raomon A., Passos V., Meyer-Lueckel H., Lima J.</i> <i>Department of Restorative, Preventive & Pediatric Dentistry, University of Bern, Bern, Switzerland; Christus University Center, Fortaleza, Ceara, Brazil</i>
11.50	Monitoring enamel and root surface modifications using 3D surface texture analysis (3DST) – a new approach in cariology <i>Schulz-Kornas Ellen, Ziebolz Dirk, Kreher Deborah, Haak Rainer</i> <i>Department of Cariology, Endodontology and Periodontology, University of Leipzig, Leipzig, Germany</i>
12.00	Kinetics of Silver Diammine Fluoride (SDF) in demineralising and remineralising solutions <i>Kaur Mandeep Anderson, Paul Wong, Ferranti Shahid Saroash</i> <i>Centre of oral bioengineering, Institute of dentistry, Queen Mary University of London, London, United Kingdom</i>



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12.10	<p>Release of bioactive ions by fluoride containing dental composite to enhance remineralization and prevent secondary caries</p> <p><i>Khalid Hina, Hill Robert, Paul Wong, Ferranti Shahid Saroash</i> <i>Dental physical science unit, Barts and the London school of medicine and dentistry, Queen Mary University of London, London, United Kingdom; Center for Oral Bio-engineering, Barts and the London school of medicine and dentistry, Queen Mary University of London, London, United Kingdom</i></p>
12.20	<p>Microleakage of self-adhesive resin-based sealant material – in vitro study</p> <p><i>Gorseta Kristina, Skrinjaric Tomislav, Juric Hrvoje, Glavina Domagoj</i> <i>Department of Pediatric Dentistry, School of dental Medicine, Univesity of Zagreb, Zagreb, Croatia</i></p>
12.30	<p>Enamel pretreatment with Er:YAG laser: effects on bond strength of fissure sealant</p> <p><i>Doberdoli Dafina, Juric Hrvoje</i> <i>Department of Pediatric Dentistry and Prevention University of Zagreb School of Dentistry Zagreb, Croatia</i></p>

Clinical studies 2

Chair Braga Mariana Minatel, and Wierichs Richard Johannes

11.30	<p>Salivary caries risk factors in patients with chronic graft versus host disease</p> <p><i>Vovk Nina, Urek Manca, Cankar Ksenija, Novak Polona, Nemeth Lidija</i> <i>Orthos, Institute for Orthodontics and Maxillofacial Orthopedics, Ljubljana, Slovenia; Ljubljana Implantology Centre - Oblak Dentistry, Ljubljana, Slovenia; Institute of Physiology, Faculty of Medicine, University of Ljubljana, Ljubljana, Slovenia; Division of Haematology, University Medical Centre Ljubljana, Ljubljana, Slovenia; Department of Dental Diseases and Normal Dental Morphology, Faculty of Medicine, University of Ljubljana, Ljubljana, Slovenia</i></p>
11.40	<p>Modification of the plaque pH, and cariogenic bacteria in a 2- year RCT using a H.A.F. Toothpastes</p> <p><i>Cocco Fabio, Cagetti Maria Grazia, Bontà Giuliana, Wolf Thomas Gerhard, Campus Guglielmo</i> <i>Department of Surgery, Microsurgery and Medicine Sciences, School of Dentistry, University of Sassari, Sassari, Italy; Department of Biomedical, Surgical and Dental Sciences, University of Milan, Milan, Italy; Department of Restorative, Preventive and Pediatric Dentistry, School of Dental Medicine, University of Bern, Bern, Switzerland; Department of Periodontology and Operative Dentistry, University Medical Center of the Johannes Gutenberg-University Mainz, Mainz, Germany</i></p>
11.50	<p>Effectiveness of H.A.F. Toothpastes on modifying caries activity lesions in a 2-years triple-blind Randomized Clinical Trials.</p> <p><i>Cocco Fabio, Cagetti Maria Grazia, Wolf Thomas Gerhard, Wierichs Richard Johannes, Salerno Claudia, Arghittu Antonella, Campus Guglielmo</i> <i>Department of Surgery, Microsurgery and Medicine Sciences, School of Dentistry, University of Sassari, Sassari, Italy; Department of Biomedical, Surgical and Dental Sciences, University of Milan, Milan, Italy; Department of Restorative, Preventive and Pediatric Dentistry, School of Dental Medicine, University of Bern, Bern, Switzerland. Department of Periodontology and Operative Dentistry, University Medical Center of the Johannes Gutenberg-University Mainz, Mainz, Germany</i></p>
12.00	<p>A 2-years triple-blind Randomized Clinical Trial on the efficacy of H.A.F. Toothpastes in primary and permanent dentitions</p> <p><i>Cagetti Maria Grazia, Cocco Fabio, Cirio Silvia, Wierichs Richard Johannes, Wolf Thomas Gerhard, Salerno Claudia, Arghittu Antonella, Campus, Guglielmo</i> <i>Department of Biomedical, Surgical and Dental Sciences, University of Milan, Milan, Italy; Department of Surgery, Microsurgery and Medicine Sciences, School of Dentistry, University of Sassari, Sassari, Italy; Department of Restorative, Preventive and Pediatric Dentistry, School of Dental Medicine, University of Bern, Bern, Switzerland; Department of Periodontology and Operative Dentistry, University Medical Center of the Johannes Gutenberg-University Mainz, Mainz, Germany; Direzione Igiene e Controllo delle Infezioni Ospedaliere, University Hospital of Sassari, Sassari, Italy</i></p>
12.10	<p>Is detecting initial caries lesions and activity assessment mandatory to avoid new operative treatment in primary teeth? Cardec-02 RCT</p> <p><i>Braga Mariana Minatel, Florian Isabela, Machado Thais Oliveira, Freitas Raiza Dias, Rocha Elizabeth Souza, Tedesco Tamara Kerber, Machado Gabriela Manco, Gomes Renata Antonangelo, Imparato José Carlos, Raggio Daniela Procida, Mendes Fausto Medeiros</i> <i>Pediatric Dentistry, Dental School, University of São Paulo, Brazil</i></p>
12.20	<p>Dental practitioners treatment choices for replacement of restorations</p> <p><i>Bottenberg Peter, Jacquet Wolfgang, Vanwing Tom, Hamouchi Mimoun, Vandenabeele, Astrid</i> <i>School for Oral Health Sciences, Universite Libre de Bruxelles, Brussels, Belgium; Oral Health Research Group, Vrije Universiteit Brussel, Brussels, Belgium; Brussels research center for Innovation in Learning and Diversity, Vrije Universiteit Brussel, Brussels, Belgium</i></p>
12.30	<p>Dental caries lesion distribution in a US population from age 1 to age 8</p> <p><i>Keels Martha Ann, Fontana Margherita, Eckert George J., Benavides Erika, Clements Dennis, Hara Anderson T., Katz Barry, Levy Barcey T., Levy Steven M.</i> <i>Caries Risk Study Group Department of Pediatrics, Duke University School of Medicine, Durham, NC, United States of America; Department of Cariology, Restorative Sciences and Endodontics, University of Michigan School of Dentistry, Ann Arbor, MI, United States of America; Department of Biostatistics, Indiana University Schools of Dentistry and Medicine, Indianapolis, IN, United States of America; Department of Periodontics and Oral Medicine, University of Michigan School of Dentistry, Ann Arbor, MI, United States of America; Department of Cariology, Operative Dentistry and Dental Public Health, Indiana University Schools of Dentistry and Medicine, Indianapolis, IN, USA; Department of Family Medicine, The University of Iowa, College of Medicine, Iowa City, IA, United States of America; Department of Preventive and Community Dentistry, The University Of Iowa, College of Dentistry, Iowa City, IA, United States of America</i></p>



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12.40	<p>Caries preventive measures during orthodontic treatment with fixed appliances <i>Zabokova Bilbilova Efka, Sotirovska Ivkovska Ana, Georgiev Zlatko, Ambarkova Vesna, Stavreva Natasha</i> <i>Department of Pediatric and Preventive Dentistry, Faculty of Dental Medicine, Cyril and Methodius University, Skopje, R. Macedonia</i></p>
12.50	<p>Evaluation of the masking efficacy of post-orthodontic initial caries lesions after caries infiltration: 1-year follow-up <i>Wierichs Richard Johannes, Djouiai Bedram, KobbeCéline, Esteves-Oliveira Marcella, Wolf Michael, Knaup Isabel, Meyer-Lueckel Hendrik</i> <i>Department of Restorative, Preventive and Pediatric Dentistry, School of Dental Medicine, University of Bern, Switzerland; Department of Orthodontics, University Hospital RWTH Aachen, Aachen, Germany</i></p>

13.00 Lunch

Friday, 1st, July, 2022

14.30 Keynote Speaker *Prof. Nicola Innes* (Cardiff University, UK)

“Treatment Planning for Primary Molars; Using Evidence to Make Difficult Decisions Easier”

Diagnosis studies

Chair *Lippert Frank and Yaysa Vásquez Andrea*

15.30	<p>Validation of visual and radiographic criteria of caries associated to restorations with ICDAS-merged CARS <i>Yaysa Vásquez Andrea, Cortés Margarita Úsuga, Stefania Martignon</i> <i>Bogotá, D.C. Universidad El Bosque UNICA-Caries Research Unit, UEB, Colombia</i></p>
15.40	<p>Staging non-cavitated caries in fissures of varying width with optical coherence tomography <i>Zain Erum, Zakian Christian, Chew HooiPin</i> <i>Faculty of Dentistry, SEGI University, Kuala Lumpur, Malaysia; Faculty of Dentistry, University of Malaya, Kuala Lumpur, Malaysia; Kevork Instruments, R&D Department, Mexico; Department of Restorative Sciences, School of Dentistry, University of Minnesota, Minnesota, United States of America</i></p>
15.50	<p>Saliva proteomics from caries-free and caries-affected children: longitudinal study in early childhood <i>Rodrigues Lidiany Karla Azevedo, Guedes Sarah Florindo Figueiredo, Amaral Regiane Cristina, Neves Beatriz Gonçalves Lima-Neto Abelardo Barbosa Moreira, Guedes Maria Izabel Florindo, Duarte Simone</i> <i>Faculty of Pharmacy, Dentistry and Nursing, Postgraduate Program in Dentistry, Federal University of Ceara, Fortaleza, Brazil; Department, Federal University of Sergipe, Aracaju, Sergipe, Brazil; School of Dentistry, Federal University of Ceara, Sobral, Brazil Laboratory of Biotechnology and Molecular Biology, State University of Ceara, Fortaleza, Brazil; Laboratory of Biotechnology and Molecular Biology, State University of Ceara, Fortaleza, Brazil; Department of Cariology, Operative Dentistry and Dental Public Health, School of Dentistry, Indiana University – Purdue University Indianapolis, Indianapolis, IN, United States of America</i></p>
16.00	<p>Lesion activity assessment of early enamel caries using Dye- enhanced Quantitative light-induced fluorescence (DEQLF) <i>Park Seok-Woo, Lee Hyung-Suk, Lee Eun-Song, Kim Sang-Kyeom, Jung Hoi-In, de Josselin de Jong Elbert, Kim Baek-II</i> <i>R&D center, AIOBIO corp., Seoul, Republic of Korea; Department of Preventive Dentistry & Public Oral Health, BK21 FOUR Project, Yonsei University College of Dentistry, Seoul, Republic of Korea; Department of Health Service Research, University of Liverpool, Liverpool, United Kingdom; Inspektor Research System BV, Bussum, The Netherlands</i></p>
16.10	<p>Investigating the ability of a blue dye to selectively stain early enamel caries lesions <i>Lippert Frank, Eder Jennifer, Hegarty Kerry, Jonathan Mangum</i> <i>Oral Health Research Institute, Indiana University, Indianapolis, United States of America; Incisive Technologies, Melbourne, Australia</i></p>
16.20	<p>In-vitro performance of BlueCheck liquid as a novel technology for detection of initial enamel demineralization <i>Jablonski-Momeni Anahita, Müller Mara, Bottenberg Peter, Korbmacher-Steiner Heike</i> <i>Department of Orthodontics, Dental School, Philipps University, Marburg, Germany; Department of Oral Health Care, Université Libre de Bruxelles (ULB), Belgium</i></p>
16.30	<p>Correlation between MMPs expression and caries surface appearance <i>El Sharkasi Lamis, Bingle Lynne, Deery Christopher</i> <i>School of Clinical Dentistry, The University of Sheffield, Sheffield, United Kingdom</i></p>

Epidemiology Studies 2 and dental education



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Chair *Rahiotis Chris and Lara J. Sebastian*

15.30	<p>Comparison of dental student'perception on preclinical coursework in India and Republic of North Macedonia</p> <p><i>Ambarkova Vesna, Batra Manu, Gijwani Deeksha, Popli Hansika, Ivanovski Kiro, Apostolska Sonja, Jankulovska Mira, Stavreva Natasha, Narang Niharika, Mutneja Tamanna, Zabokova Bilbilova Efka</i> <i>Department of Paediatric and Preventive Dentistry University St. Cyril and Methodius, Faculty of Dental Medicine, Skopje, Republic of North Macedonia; Department of Public Health Dentistry Surendera Dental College and Research Institute, Rajasthan, India; Department of Periodontology and Oral pathology, Faculty of Dental Medicine, Saints Cyril and Methodius University, Skopje, the Republic of North Macedonia; Dental and Endodontic Diseases Department, Faculty of Dental Medicine, Saints Cyril and Methodius University, Skopje, the Republic of North Macedonia; Department of Dental Prosthetics, Faculty of Dental Medicine, Saints Cyril and Methodius University, Skopje, Republic of North Macedonia</i></p>
15.40	<p>The application of video-presentation teaching method in cariology education</p> <p><i>Rahiotis Chris, Mazinis Manos, Kakaboura Afrodite</i> <i>Operative Dentistry, National and Kapodistrian University of Athens, Greece</i></p>
15.50	<p>Self-reported oral health behaviors and mask use during the COVID-19 pandemic in Chile</p> <p><i>Fernández Constanz E., Arqueros Camila, Escobar Victor, Gambette-Tessini Karla</i> <i>Cariology Unit, Department of Oral Rehabilitation, Faculty of Health Sciences, University of Talca, Chile</i></p>
16.00	<p>Performance of dental students in the detection of caries lesions. A 7-year experience at IUSD</p> <p><i>Yampa-Vargas Jhandira Daibelis, Soto-Rojas Armando E., Braga Mariana M., Riley Naomi, Ando Masatoshi, Zandona, Andrea G., Lara J. Sebastian</i> <i>Department of Cariology, Operative Dentistry and Dental Public Health, Indiana University School of Dentistry, Indianapolis IN, United States; Department of Orthodontics and Pediatric Dentistry, School of Dentistry, University of Sao Paulo. Sao Paulo, Brazil; Department of Comprehensive Care, School of Dental Medicine, Tufts University, Boston, MA, United States of America</i></p>
16.10	<p>Determination of carious outcomes (DMFT/DMFS) within two-years of Sjögren's Syndrome diagnosis</p> <p><i>Felix Gomez G., Soto-Rojas A. E., Capin O. R., Wang M., Eckert G. J., Zero D., Thyvalikakath T. P.</i> <i>Department of Cariology, Operative Dentistry and Dental Public Health, Indiana University School of Dentistry, Indianapolis, IN, United States</i></p>
16.20	<p>Dental care services among Parkinson's patients in Denmark</p> <p><i>Baram Sara, Rosing Kasper, Bakke Merete, Øzhayat Esben Boeskov</i> <i>Department of Odontology, Faculty of Health and Medical Sciences, University of Copenhagen, Denmark</i></p>
16.30	<p>Association between underlying dentin lesion shadows (ICDAS 4) and oral health-related quality of life among adolescents from southern Brazil</p> <p><i>Marquezan P. K., Comim L. D., Dalla Nora A. , Racki D. N. O., Alves L. S., Zenkner J. E. A.</i> <i>Department of Stomatology, School of Dentistry, Federal University of Santa Maria, Santa Maria, Brazil</i></p>

16.40 Coffee break

20.00 Social dinner Venue: Convento San Giuseppe, Via Paracelso, Cagliari (buses will leave from convention centre and hotels at 19.30)

Saturday, 2nd, July, 2022

"Sa Manifattura" Viale Regina Margherita, 33, Cagliari, Italia

08.30 Keynote Speaker **Prof. Denis Bourgeois** (University Claude Bernard Lyon 1, France)

"Using risk indicators to plan public dentistry interventions against caries"

Erosion 2

Chair *Niemeyer Samira Helena and Bartlett David*

9.30	<p>The effect of tea on surface loss of the dental enamel under erosive challenge in vitro</p> <p><i>Al Shezawi Maryam, Malinowski Marina, Strafford Simon Mark, O'Sullivan Elizabeth, Toumba Kyriacos Jack</i> <i>Department of Paediatric Dentistry, School of Dentistry, University of Leeds, United Kingdom</i></p>
9.40	<p>Protective effect of chitosan gel containing CaneCPI-5 against erosion/abrasion in situ</p> <p><i>Brito Leonardo, Taira Even, Henrique-Silva Flávio, Pieretti Joana, Seabra Amedea, Cardoso Cristiane, de Souza Eduardo, Groisman Sônia, Rodrigues Marcela, Lussi Adrian, Carvalho Thiago, Buzalaf Marília</i></p>



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	<i>Department of Biological Sciences, Bauru School of Dentistry, University of São Paulo, Bauru, São Paulo, Brazil. Department of Biological Sciences, Bauru School of Dentistry, University of São Paulo, Bauru, São Paulo, Brazil. Department of Genetics and Evolution, São Carlos Federal University, São Carlos, São Paulo, Brazil. Center for Natural and Human Sciences, Federal University of ABC, Santo André, São Paulo, Brazil. Postgraduate Department, Cruzeiro do Sul University, São Paulo, São Paulo, Brazil; Federal University of Rio de Janeiro, Rio de Janeiro, Brazil; Municipal University of São Caetano do Sul (USCS), São Caetano do Sul, São Paulo, Brazil; Department of Operative Dentistry and Periodontology, University Medical Centre, Freiburg, Germany; Department of Restorative, Preventive and Pediatric Dentistry, School of Dental Medicine, University of Bern, Bern, Switzerland</i>
9.50	Immunohistochemical study on the immune and antigen- presenting cells of the dental pulp <i>Sotirovska Ivkovska Ana, Zabokova Bilbilova Efka, Georgiev Zlatko, Stavreva Natasha, Mijoska Aneta</i> <i>Department of Pediatric and Preventive Dentistry, Faculty of Dentistry, Skopje, Republic of Macedonia; Department of Pediatric and Preventive Dentistry, Faculty of Dentistry, Skopje, Republic of Macedonia; Department of Pediatric and Preventive Dentistry, Faculty of Dentistry, Skopje, Republic of Macedonia; Department of Prosthodontics, Faculty of Dentistry, Skopje, Republic of Macedonia; Department of Prosthodontics, Faculty of Dentistry, Skopje, Republic of Macedonia</i>
10.00	Effect of three (bio)polymers on the protection of enamel against dental erosion <i>Niemeyer Samira Helena, Oba Sakae Leticia, Hug Isabel, Baumann Tommy, Scaramucci Taís, Saads Carvalho Thiago</i> <i>Department of Restorative, Preventive and Pediatric Dentistry, School of Dental Medicine, University of Bern, Bern, Switzerland; Department of Restorative Dentistry, University of São Paulo, São Paulo, Brazil</i>
10.10	Analysing early erosive lesions produced by silicone impressions of unpolished enamel <i>Jadeja Sagar, O'Toole Saoirse, Austin Rupert, Bartlett David</i> <i>Faculty of Dentistry, Oral & Craniofacial Sciences, King's College London, London, United Kingdom</i>
10.20	Acquired pellicle proteomics after exposure to citric or hydrochloric acid in different formation times <i>Ventura Talita, Cardoso Marina, Taira Even, Ribeiro Nathalia, Teodoro Tamara, Carvalho Thamyris, Buzalaf Marília</i> <i>Department of Biological Science - Laboratory of Biochemistry, Bauru School of Dentistry - University of São Paulo, Bauru, Brazil</i>

Clinical Studies 3

Chair Ekstrand KR and Schlafer Sebastian

9.30	The Complex Relationship between Salivation, Oral Health, and Speech <i>Taraboanta Ionut, Teodorescu Mike H. M., Ghiorghe Angela Cristina, Andrian Sorin</i> <i>Restorative Dentistry Department, "Grigore T. Popa" University of Medicine and Pharmacy, Iasi, Romania; Information Systems Department, Boston College, Chestnut Hill, MA 021467, United States; Restorative Dentistry Department, "Grigore T. Popa" University of Medicine and Pharmacy, Iasi, Romania; Restorative Dentistry Department, "Grigore T. Popa" University of Medicine and Pharmacy, Iasi, Romania</i>
9.40	Quantification of undisclosed and disclosed dental plaque using light-induced fluorescence <i>Chokyu Del Rey Yumi, Thestrup Rikvold Pernille, Kambourakis Johnsen Karina, Schlafer Sebastian</i> <i>Department of Dentistry and Oral Health, Section for Oral Ecology and Caries Control, Aarhus University, Aarhus, Denmark</i>
9.50	Photobiomodulation treatment increases salivary flow in patients with xerostomia: A systematic review <i>Golez Aljaz, Nemeth Lidija, Cankar Ksenija</i> <i>Institute of Physiology, Faculty of Medicine, University of Ljubljana, Ljubljana, Republic of Slovenia; Department of Endodontics, Faculty of Medicine, University of Ljubljana, Ljubljana, Slovenia; Institute of Physiology, Faculty of Medicine, University of Ljubljana, Ljubljana, Republic of Slovenia</i>
10.00	Percentage of increased transitions in ICDAS scores in early childhood in a US population <i>Fontana Margherita, Eckert George J., Benavides, Erika Clements, Dennis Hara Anderson T., Katz Barry, Keels Martha Ann Levy, Barcey T. Levy, Steven M.</i> <i>University of Michigan, Ann Arbor, United States of America; Indiana University Schools of Dentistry and of Medicine, Indianapolis, United States of America; Duke University, Durham, United States of America; University of Iowa, Iowa City, United States of America</i>
10.10	Influence of the circadian rhythm on pH, protein and inorganic composition of unstimulated saliva, a clinical study <i>Giacaman Rodrigo A., Albornoz-Bravo María Antonieta, Sobarzo-Vergara Albert, Reyes-Parraguez Juan Francisco, Valenzuela-Aravena María Elisa, García-Manríquez Natalia, Muñoz-Morales Felipe, Gambetta-Tessini Karla</i> <i>Cariology Unit, Department of Oral Rehabilitation, Faculty of Health Sciences, University of Talca, Talca, Chile</i>
10.20	Evaluation of Caries experience and background factors Among 8 to 11-Year-Old Students in Mashhad Schools <i>Banihashem Rad Seyed Ahmad, Sharifi Mahsa, Partovi Simin, Banihashem Rad Seyed Ali, Javan Rashid Abdollah, Campus Guglielmo</i> <i>Department of Restorative, Preventive and Pediatric Dentistry, School of Dental Medicine, University of Bern, Switzerland. Student Research Committee, School of Dentistry, Mashhad University of Medical Sciences, Mashhad, Iran; General Dentist, Mashhad, Iran; Pediatric Gastrointestinal Department, Ghaem Hospital, Mashhad University of Medical Science, Mashhad, Iran.; Department of Periodontics, School of Dentistry, Mashhad University of Medical Science, Mashhad, Iran; Department of Biostatistics, School of Dentistry, Mashhad University of Medical Science, Mashhad, Iran</i>
10.30	Caries assessments on young adults using clinical and radiographic ICDAS. First report. <i>Ekstrand K. R., Riis M. K., Michou S.</i> <i>Department of Odontology, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark; 3Shape TRIOS A/S, Copenhagen, Denmark</i>
10.40	Association study on nutrition in the first year of life and molar-incisor hypomineralization (MIH) – Results from the GINI-plus and LISA birth cohort studies



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	<p><i>Khazaei Yeganeh, Kuehnisch Jan, Standl Marie, Harris Carla P., Heinrich Joachim</i> <i>Department of Conservative Dentistry and Periodontology, University Hospital, Ludwig-Maximilians University of Munich, Munich, Germany;</i></p> <p><i>Helmholtz Centre Munich- German Research Center for Environmental Health, Institute of Epidemiology, Neuherberg/Munich, Germany; Institute and Clinic for Occupational, Social and Environmental Medicine, University Hospital, Ludwig-Maximilians University of Munich, Munich, Germany</i></p>
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11.00 Coffee break

Epidemiology 3

Chair *Beltran Edgar and Camoni Nicole*

11.30	<p>Oral health in adults and elders a global survey on tooth loss and caries <i>Roberta Borg-Bartolo, Andrea Rocuzzo, Pedro Molinero-Mourelle, Christian Tennert, Karla Gambetta Tessini, Rodrigo Giacaman Sarah, Revan Birke Koca-Ünsal, Akhilanand Chaurasia, Martin Schimmel, Guglielmo Campus</i> <i>Department of Restorative, Preventive and Pediatric Dentistry, School of Dental Medicine, University of Bern, Bern, Switzerland; Department of Reconstructive Dentistry and Gerodontology, School of Dental Medicine, University of Bern, Bern, Switzerland; Cariology and Gerodontology Units, Department of Oral Rehabilitation, Faculty of Health Sciences, University of Talca, Talca, Chile; Department of Periodontology, Faculty of Dentistry, University of Kyrenia, Cyprus; Department of Oral Medicine and Radiology, Faculty of Dental Sciences, King George's Medical University, India</i></p>
11.40	<p>Impact of the Covid-19 epidemic on access to e-care by patients affected by Autistic Spectrum Disorder <i>Corridore Denise, Corvino Ida, Zumbo Giulia, Di Giorgio Gianni, Voza Iole, Ottolenghi Livia, Polimeni Antonella, Bossù Maurizio, Trottini Mario, Campus Guglielmo</i> <i>Dept of Oral and maxillofacial Sciences Sapienza University of Rome; Universidad de Alicante; Department of Restorative, Pediatric and Preventive Dentistry, School of Dental Medicine, University of Bern, Bern, Switzerland</i></p>
11.50	<p>Does vaping influence oral bacteria growth and cariogenic promoting factors? An in vitro review <i>Camoni Nicole, Campus Guglielmo, Cagetti Maria Grazia, Esteves Oliveira Marcella</i> <i>Department of Restorative, Preventive and Pediatric Dentistry, School of Dental Medicine, University of Bern, Bern, Switzerland; Department of Biomedical, Surgical and Dental Sciences, University of Milan, Milan, Italy</i></p>
12.00	<p>Dentists' involvement in applying early childhood preventive procedures <i>Alkilzy Mohammad, Takriti Abdullah, Geiken Antje, Graetz Christian, Mourad Mhd. Said, Qadri Ghalib, Splieth Christian Heinz</i> <i>Department of Preventive and Pediatric Dentistry, University of Greifswald, Germany; Clinic for Conservative Dentistry and Periodontology, University of Schleswig-Holstein, Kiel, Germany; Department of Pediatric Dentistry, Arab American University, Jenen, Palestine</i></p>
12.10	<p>Dental caries in young children attending WIC clinics in North Florida USA <i>Gold Jaana</i> <i>University of Florida, College of Dentistry, Gainesville, FL, United States of America</i></p>
12.20	<p>Best practice and guidelines on caries treatment in global oral health: a scoping review <i>Lamloum Demetrio, Odone Anna, Gaeta Maddalena, Arghittu Antonella, Campus Guglielmo</i> <i>Department of Restorative, Pediatric and Preventive Dentistry, School of Dental Medicine, University of Bern, Switzerland. Department of Public Health, Experimental and Forensic Medicine University of Pavia, Italy; Department of Surgery, Microsurgery and Medicine Sciences, School of Dentistry, University of Sassari, Sassari, Italy</i></p>
12.30	<p>Assessment of PhiX174 bacteriophage in simulated tooth-preserving-operative care aerosol-generating procedures (AGPs) in natural anterior/posterior teeth <i>Beltran Edgar, Corredor Zayda, Morgado Wendy, Cortes Andrea, Avila Viviana, Castellanos Jaime, Martignon Stefania</i> <i>UNICA - Caries Research Unit, Research Department, Universidad El Bosque, Bogotá, Colombia; Bacterial Molecular Genetics Group, Research Department, Universidad El Bosque, Bogotá, Colombia; Department of Exact and Natural Sciences, Universidad de la Costa, Barranquilla, Colombia. Virology Group, Research Department, Universidad El Bosque, Bogotá, Colombia</i></p>

Clinical studies 4

Chair *Pagotto Leonardo Libardi and Ottolenghi Livia*

11.30	<p>Streptococcus oligofermentans inhibits Streptococcus mutans metabolic activity and aciduric properties. <i>Farrell Anna, Liu Chuwen, Cho Hunyong, Arnold Roland, Divaris Kimon, Wu Di, Ribeiro Apoena</i> <i>Division of Diagnostic Sciences, University of North Carolina at Chapel Hill, North Carolina, USA; Department of Biostatistics, University of North Carolina at Chapel Hill, North Carolina, United States of America; Division of Pediatric and Public Health, University of North Carolina at Chapel Hill, North Carolina, United States of America</i></p>
11.40	<p>Radiographic progression of underlying dentin shadows in the occlusal surfaces of permanent teeth: 1-2-year results <i>Marquezan P. K., Alves L. S., Comim L. D., Zenkner J. E. A.</i></p>



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	<i>Department of Stomatology, School of Dentistry, Federal University of Santa Maria, Santa Maria, Brazil; Department of Restorative Dentistry, School of Dentistry, Federal University of Santa Maria, Santa Maria, Brazil</i>
11.50	<p>Long-term treatment of dentin hypersensitivity with Bifluorid 10 and Futurabond U: a Randomized Clinical Trial</p> <p><i>Mazur Marta, Ndokaj Artnora, Jedlinski Maciej, Janiszewska-Olszowska Joanna, Corridore Denise, Nardi Gianna Maria, Campus Guglielmo, Guerra Fabrizio, Ottolenghi Livia</i></p> <p><i>Dept. of Oral and Maxillo Facial Sciences, Sapienza University of Rome, Italy; Dept. of Oral and Maxillo Facial Sciences, Sapienza University of Rome, Italy; Department of Interdisciplinary Dentistry, Pomeranian Medical University in Szczecin, Szczecin, Poland; Department of Restorative, Pediatric and Preventive Dentistry, School of Dental Medicine, University of Bern, Switzerland</i></p>
12.00	<p>Investigation of the effect of Diabetes Mellitus Type 2 on supragingival plaque microbiota.</p> <p><i>Goel R., Alkahtani A., Stephen A.</i></p> <p><i>Barts and the London, School of Dentistry, QMUL, London, UK; School of Dentistry, QMUL, London, United Kingdom</i></p>
12.10	<p>Extracellular polysaccharide rich biofilm reduces the effect of chlorhexidine on enamel demineralization: a pilot in situ study</p> <p><i>Pagotto Leonardo Libardi, Cury Jaime Aparecido, Ricomini-Filho Antônio Pedro</i></p> <p><i>Department of Biosciences, Piracicaba Dental School FOP-UNICAMP, Piracicaba, São Paulo, Brazil; Department of Biosciences, Piracicaba Dental School FOP-UNICAMP, Piracicaba, São Paulo, Brazil; Department of Biosciences, Piracicaba Dental School FOP-UNICAMP, Piracicaba, São Paulo, Brazil</i></p>
12.20	<p>Chlorhexidine exposure does not change EPS concentration in the matrix of early S. mutans biofilm</p> <p><i>Ricomini Filho Antonio Pedro, Queiroz Mateus Xavier, Assunção Costa Bárbara Jéssica, Cury Jaime Aparecido</i></p> <p><i>Piracicaba Dental School, UNICAMP, São Paolo, Brazil</i></p>
12.30	<p>Approximal sealing during operative treatment in the neighbor tooth. Initial findings based on cases</p> <p><i>Cartagena Alvaro, Bakhshandeh Azam, Ekstrand Kim</i></p> <p><i>Pulpal biology and Endodontics Department, Dental Faculty, Finis Terrae University, Santiago, Chile; Department of Odontology, University of Copenhagen, Copenhagen, Denmark</i></p>

13.00 Closing Ceremony

13.30 Lunch



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RESEARCH



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