2023 PROGRAM

14-17 OCT

Shanghai · China

The 20th Biennial Meeting of the International College of Prosthodontists

2023 年上海国际口腔修复大会

The 20th Biennial Meeting of the International College of Prosthodontists

https://www.icp-org.com/

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Welcome Letters

Dear colleagues,

We hope you are keeping well and joining us at ICP in Shanghai. We deliberated for a long time on where was best to meet and we are keeping China as our main official biennial meeting site. The ICP Shanghai meeting will be held on October 14-17, 2023.

The plan for ICP 2023 Shanghai is well underway. Our theme is Innovation and Trends in Prosthetic Dentistry. We are excited to have a stellar speaker line up that represents established leaders in prosthodontics as well as future legends who are transforming prosthodontics around the globe.

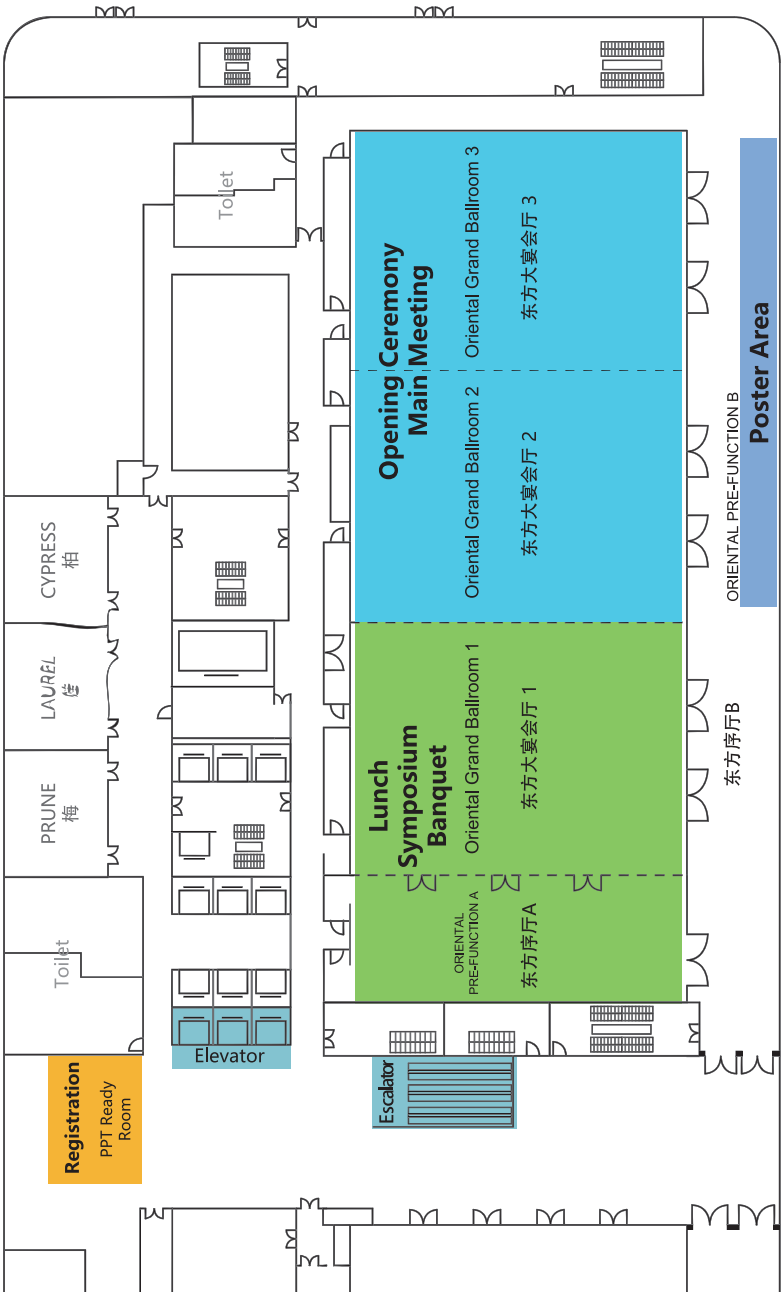
We both look forward to seeing you in Shanghai**!** We truly value your contribution to the field of prosthodontics and your dedication to ICP 2023 Shanghai. Together, let us make ICP 2023 an exceptional conference that promotes excellence, fosters collaborations, and inspires future breakthroughs.

Sincerely,
Co-presidents of ICP

Dr. Xinquan Jiang
Shanghai Jiao Tong University, China

Dr. David Bartlett
King's College London, UK

Conference Area : The 3rd Floor of Shangri-La Qiantan



Program

DATE	TIME	AGENDA	LOCATION
2023/10/14	13:00 - 17:00	Registration	The 3rd Floor of Venue
	09:00 - 17:00	ICP Board Meeting	LAUREL, 3rd Floor of Venue
	13:00 - 17:00	PPT Ready Room Open	PRUNE, 3rd Floor of Venue
2023/10/15	08:00 - 09:30	Openning Ceremony	Oriental Grand Ballroom 2+3
	09:30 - 11:45	Innovation and Trends in Prosthetic Dentistry：Keynote lecture	Oriental Grand Ballroom 2+3
	11:45 - 13:30	Conference Luncheon	Oriental Grand Ballroom 1
	12:15 - 13:30	Poster Session	Oriental Pre-function B
	13:30 - 17:05	Digital Technology/Artificial Intelligence I/II	Oriental Grand Ballroom 2
	13:30 - 17:05	ICP Graduate Student Case Presentations/ Digital Technology/Artificial Intelligence III	Oriental Grand Ballroom 3
	17:05 - 19:00	Poster Session	Oriental Pre-function B
	14:45 - 17:00	International Symposium on Dental Education	Oriental Grand Ballroom 1
	08:00 - 17:00	PPT Ready Room Open	PRUNE, 3rd Floor of Venue
2023/10/16	08:20 - 12:10	Advanced Biomaterials/Biology I/II	Oriental Grand Ballroom 2
	08:20 - 12:10	Maxillofacial Reconstruction/ Occlusion I/II	Oriental Grand Ballroom 3
	12:10 - 13:00	Conference Luncheon	Oriental Grand Ballroom 1
	13:00 - 13:50	ICP Business Meeting	Oriental Grand Ballroom 1
	13:50 - 17:50	Multidisciplinary Therapy I/II	Oriental Grand Ballroom 2
	13:30 - 17:05	Esthetic Dentistry/Implant Prosthodontics I/II	Oriental Grand Ballroom 3
	14:00 - 16:00	International Dean's Symposium on Dentistry	Oriental Grand Ballroom 1
	16:00 -16:30	The third General Meeting of the Prosthodontic Committee of the Shanghai Stomatological Association	Oriental Grand Ballroom 1
	19:00 - 21:00	Banquet	Oriental Grand Ballroom 1
2023/10/17	07:00 - 08:30	ICP Board Meeting	QT Kitchen (1F cafeteria)
	09:00 - 12:30	Innovation and Trends in Prosthetic Dentistry：Keynote lecture Closing Ceremony	Oriental Grand Ballroom 2+3
	12:30 - 13:30	Conference Luncheon	Oriental Grand Ballroom 1

The 20th Biennial Meeting of the International College of Prosthodontists

Saturday, October 14th

09:00 - 17:00	**ICP Board Meeting** (Councilors Only)	LOCATION: LAUREL, 3rd Floor of Venue
13:00 - 17:00	**Registration Check-In Foyer**	LOCATION: 3rd Floor of Venue

Sunday, October 15th

LOCATION	Oriental Grand Ballroom 2+3, 3rd Floor of Venue	
08:00 - 09:30	**Opening Ceremony**	
09:30 - 11:45	Innovation and Trends in Prosthetic Dentistry Moderator: Xinquan Jiang & David Bartlett	
09:30 - 10:00	Keynote Lecture Sreenivas Koka: What Really Matters in Life	
10:00 - 10:30	Keynote Lecture Yimin Zhao: Development and Clinical Application of an Autonomous Dental Implant Robot	
10:30 - 10:45	**AM Break**	
10:45 - 11:45	Moderator: Haiyang Yu & Yongsheng Zhou	
10:45 - 11:15	Keynote Lecture David Bartlett: Scanning and Measuring Tooth Wear in the Laboratory - Limitations and Findings	
11:15 - 11:45	Keynote Lecture Xinquan Jiang: Digital Technology and Regenerative Medicine Promote a New Era of Prosthodontics	
11:45 - 13:30	**Conference Luncheon**	LOCATION: Oriental Grand Ballroom 1
12:15 - 13:25	**Poster Session**	LOCATION: Oriental Pre-function B
LOCATION	Oriental Grand Ballroom 2	Oriental Grand Ballroom 3
13:30 - 15:30	Digital Technology/Artificial Intelligence I Moderator: Izchak Barzilay & Yuelian Liu & Cui Huang	Clinical Case Presentations Moderator: Sheng Yang & Zhe Wu
13:30 - 13:50	Invited Lecture Kazuyoshi Baba: Model-free Fully Digital Workflow - its impact on Prosthodontic Treatment	Zhe Wu: Digital Complete Dentures Treatment Based on an Existing Denture: A Dental Technique
		Jie Wang: A Digital Workflow for Occlusal and Aesthetic Reconstruction in Dentinogenesis Imperfecta Type II

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13:50 - 14:10	Invited Lecture Yongsheng Zhou: Practical Researches and Application on Fully Digital Process in Prosthodontics	Mario Dawud: Synergy of Artificial and Human Intelligence - The Key for Erosive Tooth Wear Prevention, Prognosis, and Successful Treatment
		Wanrong Wang: Novel Digital Mouth Preparation Technique for Fabricating Implant - Retained Removable Partial Dentures with Distal Extension
14:10 - 14:30	Lina Niu: The Role of Neutrophil Extracellular Traps in Ectopic Mineralisation of Dental Calculus	Yue Feng: A novel Digital Workflow for Jaw Relationship Registration in Edentulous Patients Using 3D-printed Individual Baseplates and Jaw Motion Tracking System
		Xinchao Miao: Digitally Printed Custom Trays Assembled with Occlusion Rims and Gothic Arch Tracing Devices for Biofunctional Complete Dentures: A Dental Technique
14:30 - 14:40	Longwei Lv: Establishment of a 3D Esthetic Analysis Workflow and Preliminary Evaluation	Naksitt Jittrong: Digital Workflow for an Esthetic Fixed Detachable Provisional Prosthesis: A Case Report
14:40 - 14:50	Ping Li: Accuracy of Robotic Computer - assisted Implant Surgery for Dental Implant Placement in Fully Edentulous Patients	Ruikai Ba: The Application of Digital Functional Aesthetic Prosthetic Design in the Patient with Tight Anterior Teeth Occlusion and Scattered Gaps
14:50 - 15:00	Lianyi Xu: Qualitative Comparison of Professional Face Scanners and Smartphone	Zhen Wang: Immediate Reconstruction of Defects after a Bilateral Subtotal Maxillectomy with a Zygomatic Implant Supported, Digitally Planned, Prefabricated, Esthetic Obturator Prosthesis

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15:00 - 15:10	Zidi Zhai: Mechanical Property, Fatigue Property, and Fractography of Zirconia Specimens Printed by Vat Photopolymerization	Guangna Yue: A Case of Tilted Implants in the All-on- 4 Implant Surgery Assisted by Autonomous Dental Implant Robotic System
15:10 - 15:20	Ziang Wu: Safety Control of Tooth Extraction Surgical Robot Based on Force Feedback and Tactile Perception: An In-Vitro Study	
15:20 - 15:30	Zhihong Feng: A Novel Method to Improve Positioning of Denture Teeth on Denture Bases for CAD-CAM Complete Dentures	
15:30 - 15:45	**PM Break**	
15:45 - 17:00	Digital Technology/Artificial Intelligence II Moderator:Arzu Tezvergil - Mutluay & Yan Wang & Jianfeng Ma	Digital Technology/Artificial Intelligence III Moderator: Lan Liao & Hongbing Liao
15:45 - 16:05	Invited Lecture Arzu Tezvergil - Mutluay: Adhesion of Restorations in the Digital Era: What Has Changed?	Invited Lecture Bart Van Meerbeek: Bonding without Compromise
16:05 - 16:20	Jiefei Shen: A Novel Deep Learning-based System for Highly Personalized Tooth Morphology Recovery and Reconstruction	Ting Jiang: Occlusal Rehabilitation by Digital Design and Virtual Occlusal Pre-adjustment under Heavy Bite State
16:20 - 16:30	Konstantinos Kountouras: The 4D Concept_ Adding the Missing Link to the All-on-X Digital Workflow	Tingting Zhang: A Newly Designed Scan Body with Arcuate Extensional Structure Improved Digital Scanning Accuracy for Complete-arch Implant Rehabilitation
16:30 - 16:40	Yumin Wu: Evaluation of Custom Posts and Cores Fabricated by Two Digital Technologies in Core and Post Space Dimensions	Jaafar Abduo: Effect of Prefabricated Immediate Interim Prosthesis Design and Insertion Workflow on Seating Accuracy on Implants Placed via Static Computer-assisted Surgery

16:40 - 16:50	Xiaoting Jin: Spatial Deviation of Mandible under Tapping Tooth Force and Heavy Bite Force	Sungwoo Ju: Evaluating the Accuracy of Automatic Finish Line Detection in Various Dental CAD Software
16:50 - 17:00	Xi Cheng: Research on Microbial Characteristics in the Inflammatory State around Implants Based on Machine Learning	
17:00 - 19:00	**Poster Session**	LOCATION: Oriental Pre-function B

International Symposium on Dental Education

Sunday, October 15th

Venue**:** Oriental Grand Ballroom 1, 3rd floor of the Venue Hotel

Sunday, 15 October, 2023	
11:00 – 14:45	Registration
	Moderator: Prof. Sangwan Shin & Lina Niu & Jiefei Shen
14:45 – 15:15	Prof. Adrien Naveau: Leadership Education in Dentistry : A Systematic Review
15:15 – 15:45	Prof. David Chvartszaid: The Challenge of Complex Care Delivery within a Learning Environment
15:45 – 16:00	PM Break
16:00 – 16:30	Prof. Sangwan Shin: Reconstructive Prosthodontics (Implantology and Prosthetic Restoration)
16:30 – 17:00	Discussion

The 20th Biennial Meeting of the International College of Prosthodontists

Monday, October 16th

LOCATION	Oriental Grand Ballroom 2	Oriental Grand Ballroom 3
08:20 - 10:00	Advanced Biomaterials/Biology I Moderator: Adrien Naveau & Hiroshi Egusa & Xiaoping Luo	Maxillofacial Reconstruction/Occlusion I Moderator: Limor Avivi-Arber & Baiping Fu & Chun Xu
08:20 - 08:40	Invited Lecture Adrien Naveau: Maxillofacial Rehabilitation: the Miracle of Additive Manufacturing	Invited Lecture Limor Avivi-Arber: Diversity, Equity and Inclusion Matter in Oral Rehabilitation Research
08:40 - 08:55	Yunsong Liu: Formulation and Characterization of Photocrosslinkable Composite Membranes for Guided Bone Regeneration	Ziyuan Zhu: Restoration-driven Orthodontic-prosthodontic Multidisciplinary Treatment of Tooth Malformation
08:55 - 09:10	Hongye Yang: Extrafibrillarly-demineralized Dentin Matrix for Bone Regeneration	Ting Jiao: Digital Maxillofacial Rehabilitation - Experience from Shanghai 9th People's Hospital
09:10 - 09:20	Hongming Zhang: MOF-miR-27a Coated Microporous Implants Regulate Macrophage Repolarization by Targeting Immunometabolism and Mitochondrial Function to Prevent Peri-implantitis	Yue Feng: A Fully Digital Workflow to Register Maxillomandibular Relation Using a Jaw Motion Tracer for Fixed Prosthetic Rehabilitation: A 3D Principle
09:20 - 09:30	Ruixue Jiang: Spermine Alleviates Prednisolone-Induced Osteoporosis in Zebrafish Larvae through the Upregulation of Rac1 Expression	Yue Guo: miR-124-3p Increases in High Glucose Induced Osteocyte-derived Exosomes and Regulates Galectin-3 Expression
09:30 - 09:40	Chenyu Wang: imRNA-based Biomimetically Mineralized Material Facilitating Bone Regeneration by Immunomodulation	Shaobo Ou-yang: Great Truths are Always Simple - Dahl Occlusal Splint was Used to Solve the Problem of Insufficient Space for Anterior

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09:40 - 09:50	Zhe Li: Coactivator MED1 Ablation Promotes Oral-Mucosal Wound Healing via JNK (c-Jun N-terminal kinase) Signaling Pathway	Balendra PratapSingh: Effectiveness of Anterior Repositioning Splint versus Other Splints in the Management of Temporomandibular Joint Disc Displacement with Reduction: A Meta-analysis
09:50 - 10:00	Jiacheng Liu: N-acetylcysteine through PI3K-AKT-COL6A1 Axis to Maintain Redox Homeostasis and Promote Osteogenesis of Dental Stem Cells and Alveolar Bone	Cheuk Fung Hau: The Impact of Dentures on Masticatory Function, Cognition, Speech and Quality of Life among Elderly Adults in Hong Kong
10:00 - 10:15	**AM Break**	
10:15 - 12:10	Advanced Biomaterials/Biology II Moderator: Guang Hong & Yumei Zhang	Maxillofacial Reconstruction/Occlusion II Moderator: Robert Carmichael & Shizhu Bai & Fuming He
10:15 - 10:35	Invited Lecture Guang Hong: Denture Care for Elderly Person	Invited Lecture Yuelian Liu: A randomized, Controlled, Proof-of-concept Clinical Trial for Evaluation of the Efficacy and Safety of BioBone Using Tooth-extraction-socket-healing Model
10:35 - 10:55	Xiaoping Luo: Application of Additive Manufacturing Pure Titanium in Prosthodontics	Invited Lecture Robert Carmichael: Multidisciplinary Management of Oligodontia in Adolescents and Young Adults: Clinical Workflow, Impact on Quality of Life and Long-Term Follow-Up
10:55 - 11:10	Jinsong Liu: Analysis of Mechanical and Adhesive Properties of Multilayer Precolored Zirconia after Multiple Low-temperature Sintering	Fuming He: Clinical and Patient-centered Outcomes Following Rehabilitation of Atrophic Edentulous Maxilla by Six Implants with Simultaneous Bilateral Maxillary Sinus Augmentation: A Retrospective Study

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11:10 - 11:20	Jun Wang: The Influence of Erbium Laser Pretreatment on Dentin Bond Strength and Bond Failure Types: A Systematic Review and Network Meta-analysis.	Jin Wen: Salivary Signatures of Oral-brain Communication in Sleep Bruxers
11:20 - 11:30	Jiahui Du: BRD9-mediated Chromatin Remodeling Suppresses Osteoclastogenesis through Negative Feedback Mechanism	Hao Gu: Biomimetic Polyetherketoneketone Scaffolds Simulate Regenerative Signals and Mobilize Anti-inflammatory Reserves for Boosted Osseointegration
11:30 - 11:40	Sijia Li: An Efficient Constructing Strategy of CircHIPK3-enriched Engineered Exosomes for Promoting Osteogenesis of BMSCs	Xingting Han: Zinc-modified Mesoporous Bioactive Glass Nanoparticles for Enhanced Osteogenesis and Immunomodulatory Function of Polyetheretherketone
11:40 - 11:50	Kang Yu: Structural Insights into Pathogenic Mechanism of Hypohidrotic Ectodermal Dysplasia Caused by EDA Variants	Lisha Pan: Promoting Rapid Osseointegration of Polyetheretherketone through the Synergistic Effect of Si and Sr
11:50 - 12:00	MirzaRustum Baig: Effect of Connector Height and Occlusal Thickness on the Fracture Resistance of 4-unit Monolithic Zirconia Fixed Dental Prostheses after Aging	Kehui Xu: Association of Tooth Loss and Diet Quality with Acceleration of Aging: Evidence from NHANES
12:00 - 12:10		Lei Jin: Nano Zirconia System Modification and its Role in the Repair of Oral-maxillofacial Hard Tissue Defects
12:10 - 13:00	**Conference Luncheon**	LOCATION: Oriental Grand Ballroom 1
13:00 - 13:50	**ICP Business Meeting**	LOCATION: Oriental Grand Ballroom 1

Program

LOCATION	Oriental Grand Ballroom 2	Oriental Grand Ballroom 3
13:50 - 15:30	Multidisciplinary Therapy I Moderator:Ting Jiang & Raelene Sambrook	Esthetic Dentistry/Implant Prosthodontics I Moderator: David Chvartszaid & Ting Jiao
13:50 - 14:10	Invited Lecture Raelene Sambrook: Smile design: How an Art is Being Transformed by Science and Technology	Invited Lecture Carlos R. Parra Atala: Treatment Planning of the Esthetically Compromised Patient a Novel Approach
14:10 - 14:30	Invited Lecture Haiyang Yu: Significance and Protocol of Intraoperative Physical-measurement for Implant Prosthodontics in Limited Space of Missing Teeth	Invited Lecture David Chvartszaid: Prosthodontic Care in the Frail and Dependent Elderly
14:30 - 14:45	Feng Yao: Cross-cultural Adaptation and Psychometric Properties of the Mainland Chinese version of the Manchester Orofacial Pain Disability Scale among College Students	Yan Wang: Practical Tips Affecting the Accuracy of Data Collection and Registration of Oral-facial Scanning Images
	Zeyue Ouyang: Development, Validation and Psychometric Evaluation of the Chinese Version of the Biopsychosocial Impact Scale in Orofacial Pain Patients	
14:45 - 15:00	Weijia Zhao: Indirect Adhesive Restorations Treatment of Cracked Tooth Syndrome: A 16.3 Months Follow-up Prospective Clinical Trial	Chun Xu: The Applicability of Angulated Screw Channel in Early and Delayed Implantation in Maxillary Incisor Site: A CBCT Analysis
	Qi Zhong: Maxillary First Molar Restored with Ceramic Endocrown versus Zirconia Crown with FRC Posts: 3-dimensional Finite Element Analysis and Weibull Analysis	
15:00 - 15:10	Guangzheng Yang: Research and Application of Remote Magnetic Field Control Technology Based on Magnetic Nanoparticles in Microtissue Construction and Regulation	Cui Cui: A Mixed Methods Study of Dental Implant Treatment Outcome and Impact on Patients with Oligodontia

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15:10 - 15:20	Yihan Li To be determined	Yun Zhang: Aesthetic Changes and Correlation Analysis in the Labial Region following Full-Arch Implant-Supported Fixed Prosthesis Rehabilitation
15:20 - 15:30		Yutian Wu: A Survey on Dentists' Knowledge of Various Brands and Models of Bur
15:30 - 15:45	**PM Break**	
15:45 - 17:30	Multidisciplinary Therapy II Moderator: Kung-Rock Kwon & Qianbing Wan	Esthetic Dentistry/Implant Prosthodontics II Moderator: Carlo Ercoli & Longquan Shao
15:45 - 16:05	Invited Lecture Frank Spitznagel: Failure Load and Fatigue Behavior of Minimally Invasive All-ceramic Crowns and Partial-Coverage Restorations	Invited Lecture Carlo Ercoli: Anterior Implants: The intersection of Esthetics, Biology, Biomaterials and Technology
16:05 - 16:25	Invited Lecture Cui Huang: Infection Control of Post-and-core Crown Restoration	Invited Lecture Izchak Barzilay: Innovative Implant Designs……Customize Your Implant Selection
16:25 - 16:40	Baiping Fu: Effects of Storage Time and 3D Printing Systems on Accuracy of 3D Printed Resin Casts	Yi Zhou: Implant Prosthodontics Handling of the Mechanical Complication of the Implant Screw
16:40 - 16:50	Zhennan Deng: Patterned Nanotube/tantalum Copper Coating Structure Loaded with LL37 on Titanium Surface for Antibacterial, Angiogenesis and Osteogenesis	Gul Bahar ISIK-OZKOL: Comparison of Chewing Performance and Oral Health Related Quality of Life between Patients with Implant Overdenture and Conventional Complete Denture
16:50 - 17:00	Jingyi Xu: Bioactive-storage Microneedle Patch with Rejuvenescent Intermediaries for Aged Nonhealing Dermal Wound	Zeqian Xu: Is Soft Tissue Management “The Icing on The Cake” for Pink/White Esthetics in the Anterior Region?

17:00 - 17:10	Jing Gao: Accuracy of the Preparation Depth in Mixed Targeted Restorative Space Type Veneers Assisted by Different Guides: An in Vitro Study	Jin-Hong Park: Narrow-Diameter Implants for Mandibular Overdentures: A Meta-Analysis
17:10 - 17:20	Hengyan Liu: CAD/CAM PEEK Periodontal Splint Can be a Promising Treatment Option for Stabilizing Periodontal Compromised Teeth: A Preliminary Clinical Observation	Yuqiong Wu: Starting from the End, Digitalization Assists Multi-disciplinary Aesthetic Restoration of Anterior Teeth
17:20 - 17:30	Adell Naidoo: Prosthetic Rehabilitation of a Unilateral Orbital Defect with an Implant-retained Orbital Prosthesis and a Non-functional Ocular Prosthesis	Jingjing Bian: Silane-coupled Chitosan-cyclodextrin/rosmarinic Acid-zinc Complex Coating Improves the Osseointegration of Titanium Implants in High-glucose Environments
17:30 - 19:00	**Session Adjourns**	

International Dean's Symposium on Dentistry

Monday, October 16th

Venue**:** Oriental Grand Ballroom 1, 3rd floor of the Venue Hotel

Time	Schedule
11:00 – 14:00	Registration
14:00 – 14:05	Opening Ceremony
	Moderator: Sreenivas Koka & Xinquan Jiang & Yongsheng Zhou
14:05 – 14:40	Dr. Sreenivas Koka: Leadership in the Age of Technological Advancement
14:40 – 15:15	Prof. Xinquan Jiang: Charting the Course: The Evolution and Future of Stomatology in China and SJTU
15:15 – 15:50	Dr. Guang Hong: Digital Transformation (DX) in Educational Settings
15:50 – 16:00	Discussion

The third General Meeting of the Prosthodontic Committee of the Shanghai Stomatological Association

Monday, October 16th , 16:00 - 16:30

Venue**:** Oriental Grand Ballroom 1, 3rd floor of the Venue Hotel

The 20th Biennial Meeting of the International College of Prosthodontists

Tuesday, October 17th

07:00 - 08:30	**ICP Board Meeting** (Councilors only)	LOCATION:QT Kitchen (1F cafeteria)
LOCATION	Oriental Grand Ballroom 2+3	
09:00 - 12:30	Innovation and Trends in Prosthetic Dentistry	
	Moderator: Sreenivas Koka & Limor Avivi-Arber & Dean Morton	
09:00 - 09:30	Keynote Lecture David Felton:Does Tooth Loss Affect Your Health and Longevity?	
09:30 - 10:00	Keynote Lecture Dale Howes:Implant Supported Rehabilitation of the Head and Neck Cancer Patient	
10:00 - 10:30	Keynote Lecture Hiroshi Egusa:Stem Cell/Nanotechnology-based Strategies in Regenerative Prosthodontics	
10:30 - 10:45	**AM Break**	
10:45 - 11:15	Keynote Lecture Kung-Rock Kwon:Prosthodontics for the Elderly: Innovation of Therapy for Fully Edentulous Patients	
11:15 - 11:45	Keynote Lecture Murali Srinivasan:Complete Dentures 2023: Mill or Print?	
11:45 - 12:15	Keynote Lecture Dean Morton:Avoiding and Managing Complications for Completely and Partially Edentulous Patients	
12:15 - 12:30	**Discussion**	
12:30 - 12:45	**Conference Announcements and Awards**	
12:45	**Meeting Adjourns**	
14:00	**Networking Social Outing** (Elective- registration required)	

Keynote Speakers

Dr. Sreenivas Koka

University of Mississippi, USA

- Past President of the International College of Prosthodontists (ICP)
- Dean of the University of Mississippi Medical Center School of Dentistry
- Co-founder of the Future Leaders in Prosthodontics (FLIP), Shaping the Future of Implant Dentistry (SHIFT) workshop series

The days are long, but the years are short. This quote embodies many of our challenges–the hullaballoo of the daily grind combined with looking back and asking where all the time went. How can we look back with no regrets? Let's face it, we get little training in dental school or other venues for the challenges of being a business owner, leader, parent or friend, even though they are the most stressful parts of our days and lives. This presentation will focus on how contented people think and behave so they can prioritize their time to bring themselves and others joy and a sense of purpose. These people are the ones who look back on their life and say they have no regrets.

Dr. Yimin Zhao

State Key Laboratory of Oral & Maxillofacial Reconstruction and Regeneration, China

- Academician of the Chinese Academy of Engineering
- Director of the State Key Laboratory of Oral & Maxillofacial Reconstruction and Regeneration Curator of the International Museum of Stomatology
- Curator of the International Museum of Stomatology
- Honorary Chairman of the International Society of Maxillofacial Prosthodontics
- Chairman of Section of Defense Forces Dental Service of FDI
- Honorary President of the Chinese Dental Association

Implant-supported prosthesis is currently the preferred way to restore missing teeth. The accuracy of implant placement determines the restoration effect and long-term success rate. Free-hand implantation requires the rich surgical experience of the surgeon. Because the accuracy of template-guided and navigation-assisted implantation surgery is affected by many factors, sometimes the results are not ideal to meet clinical needs, especially for edentulous patients. Since 2013, our team has developed the world's first autonomous dental implant robot, controlled by an infrared vision system with force feedback. After ethical approval, model tests and animal experiments were conducted, which confirmed the feasibility and safety of the autonomous dental implant robot. The average coronal and apical deviation of implantation by the robot is less than 0.3 mm, and the average angular deviation is less than 1 degree, higher than that of the template-guided surgery and navigation-assisted surgery. Due to the high accuracy of the autonomous dental implant robot, the immediate postoperative restoration of edentulous patients can be efficiently completed with the implants placed in the ideal position. The robot has been successfully applied in more than 100 dental institutions in China, and more than 5,000 cases of implant surgery have been completed, indicating the rapid development and high-recognition of this dental robot device.

Keynote Speakers

Dr. David Bartlett

King's College London, UK

- Co-President of the International College of Prosthodontists (ICP)
- Head of the Centre for Oral, Clinical & Translational Science and Prosthodontics, King's College London
- Distinguished Scientist award in Prosthodontics
- Leads Prosthodontics at King's (the largest department for this specialty in Europe)

This presentation will briefly overview erosive tooth wear and the describe how progression can be measured using profilometers and intra oral scanners. It will explain how they work and how software is used to measure change. The presentation will explain the challenges of how complex free form surfaces can be measured and how the digital maps can be exported and then analysed. It will show from publications the method we use and over view the challenges associated with analysis. It will explain the limitations of intra oral scanners.
The objectives are: A brief review of erosive tooth wear, Measurement of surface change, An over view of profilometers and scanner, Challenges and limitations.

Dr. Xinquan Jiang

College of Stomatology, Shanghai Jiao Tong University, China

- Co-President of the International College of Prosthodontists (ICP)
- President-designate of the Chinese Prosthodontics Society
- Vice President of the Chinese Stomatological Association
- Discipline Leader of the Prosthodontics Department, Shanghai Ninth People's Hospital, Shanghai JiaoTong University School of Medicine
- Executive Dean of the College of Stomatology, Shanghai Jiao Tong University

In recent years, the importance on precision and personalization of the restoration has gradually increased. However, traditional methods are hard to deal with the irregular structure of oro-maxillofacial region, resulting in limited repair effects. With the development of medical technology, digital technology, including computer-aided design and computer-aided manufacturing (CAD/CAM), digital smile design, cone beam CT (CBCT) technology, has gradually become important and common methods for prosthodontics. The transition from traditional methods to digital technology-based therapy allows dentists to perform restorations more accurately and easily, which greatly shortens the operation time and improves the efficiency. Moreover, our ultimate goal is to replace artificial devices with regenerated tissues. With the rapid development of regenerative medicine and tissue engineering, regenerative medicine-based oral therapy brings a new concept for the repair of soft and hard tissues defects. Combined with multidisciplinary cooperation and progress in advanced manufacturing technology, we believe digital technology and regenerative medicine will promote a new era of prosthodontics.

Keynote Speakers

Dr. David Felton

University of North Carolina Adams School of Dentistry, USA

- Co-vice president of the International College of Prosthodontists (ICP)
- Dean of the West Virginia University School of Dentistry
- Chair of the Department of Prosthodontics, UNC Adams School of Dentistry
- Past Dean of the University of Mississippi Medical Center School of Dentistry
- Editor-in-Chief of the Journal of Prosthodontics
- Past Presidents of the American College of Prosthodontists and the Academy of Prosthodontics
- Past President and Diplomate of the American Board of Prosthodontics

Tooth loss resulting in partial or complete edentulism can significantly reduce one's quality of life. Recent data has revealed that a minimum of 20 opposing teeth are required to maintain a healthy diet. Dental caries is the leading cause of tooth loss in individuals below the age of 50 years, while periodontal disease is the leading cause in those over the age of 50. The relationship between periodontal disease, inflammation, and systemic diseases is well known. Loss of teeth can result in poor dietary intake, resulting in a multitude of systemic disease entities, including reduction in longevity. This presentation will focus on the current literature related to tooth loss, complete edentulism and systemic co-morbid diseases. In addition, it will focus on whether replacement of missing teeth improves systemic health, or not.

Dr. Dale Howes

University of Sydney, Australia

- Co-vice president of the International College of Prosthodontists (ICP)
- Associate Professor, School of Dentistry, Faculty of Medicine and Health, University of Sydney, Australia
- Past president of the ISMR (International Society for Maxillofacial Rehabilitation)
- Invited fellow of the International Academy for Oral and Facial Rehabilitation (IAOFR)
- Past President of the Academy of Prosthodontics of South Africa
- Founder member of the P-I Brånemark Institute of South Africa as well as the Face Value Foundation Trust, a Public Benefit Organisation (PBO)

WHO statistics show that Head and Neck tumours carry similar incidence but greater mortality than breast cancer. In addition, it can be argued that these tumours carry the greatest morbidity as they easily affect swallowing and the five senses of touch, taste, smell, speech and sight that define human quality of life. Surgery is often considered the mainstay of management for head and neck cancer, but nearly 75% of head and neck cancer patients offered radiotherapy with or without associated chemotherapy with curative for palliative intent. Osseointegration and implant technology is documented to improve the quality of life through implant supported rehabilitation of craniofacial imputation or pre-treatment dentectomy.
Compromised wound healing and biomechanics as a result of radiation therapy, chemotherapy and surgical ablation violates the very recommendations for success in implant supported rehabilitation. This presentation will evaluate the effects of the treatments for head and neck malignancy on the principles of osseointegration and attempt to offer protocols in maxillary and mandibular ablation for implants supported rehabilitation in compromised native bone as well as in free flap tissue transfer.

Keynote Speakers

Dr. Hiroshi Egusa

Tohoku University, Japan

- Professor, Graduate School of Dentistry, Tohoku University
- Director, Liaison Center for Innovative Dentistry Director, Tohoku University Graduate School of Dentistry
- (Concurrent) General Vice-Director, Tohoku University Hospital
- Chair, Dental Safety and System Management, Tohoku University Hospital
- Chief, Dental Laboratory Unit, Tohoku University Hospital
- Director, Center for Advanced Stem Cell and Regenerative Research, Tohoku University Graduate School of Dentistry

The conventional concept in prosthodontics, i.e., replacement treatment by artificial materials, is partly shifting to a new paradigm of regenerative treatment as "regenerative prosthodontics". We have successfully fabricated 3-D bioengineered bone grafts using stem cells, which possess high bone/cartilage regeneration capacity. We also found that titanium implants with nano-modified surfaces, mimicking properties of tooth cementum, generated periodontal ligament around the implant, which would provide a future alternative to current osseointegrated implants. In this presentation, I will talk about strategies toward the next generation prosthodontics, by introducing our research approaches using stem cells and nanotechnologies.

Dr. Kung-Rock Kwon

Kyung Hee University, Republic of Korea

- Member of the Board of Councilors of the International College of Prosthodontists (ICP)
- Professor of Department of Prosthodontics, School of Dentistry, Kyung Hee University
- Past Dean, School of Dentistry, Kyung Hee University, Seoul
- Past President, The Koran Academy of Prosthodontics
- Immediate President, The Korean Academy of Implant Dentistry
- President, Korean Academy of Dental Sciences

As the number of edentulous patients increases due to the aging population, dentists and technicians who are interested in full dentures as well as complete dentures are increasing in proportion. Most edentulous patients use dentures without much difficulty, but there are often patients who have difficulty using dentures. They suffer from many problems, and moreover, there are many cases where it is difficult to obtain maintenance and stability from normal dentures, despite the faithful denture manufacturing process. These discomforts of dentures, which mostly occur in the lower jaw, can be overcome by overdentures using implants. Implant-supported overdentures improve stability, support, and retention of dentures, and can also improve masticatory power. Furthermore, if the economic and anatomical conditions are met, fixed prosthetic treatment using implants will be the first treatment option for all edentulous patients. In all types of prosthetic procedures (including manual and digital) for edentulous patients, the use of state-of-the-art technology and materials is important, but more basic procedures such as impression taking, intermaxillary relationship recording, artificial tooth arrangement, etc. I think understanding is the most important thing.

Keynote Speakers

Dr. Murali Srinivasan

University of Zurich, Switzerland

- Chair of the Clinic of Special Care and Geriatric Dentistry, Center of Dental Medicine, University of Zurich
- President of the Swiss Society of Geriatric and Special Care Dentistry
- Vice-president of the Geriatric Oral Research Group of the International Association of Dental Research (IADR-GORG)

The advent of CAD/CAM technology in prosthodontics has greatly modified the existing clinical protocols in reducing the treatment burden on the elderly patient, with respects to clinical procedures, number of visits, treatment time, and costs. The current lecture aims to provide a brief overview of the current status of CAD/CAM removable complete dentures. The lecture will elucidate the differences between the milled and 3D-printed complete dentures, as well as provide an insight on the advantages and shortcomings of both types of dentures.

Goals and Objectives:

- provide a brief overview of the current status of CAD/CAM removable complete dentures.
- elucidate the differences between the milled and 3D-printed complete dentures.
- provide an insight on the advantages and shortcomings of both types of dentures.

Dr. Dean Morton

Indiana University School of Dentistry, USA

- Member of the Board of Councilors of the International College of Prosthodontists (ICP)
- Indiana Dental Association (IDA) Distinguished Professor in the Department of Prosthodontics at the Indiana University School of Dentistry (IUSD)
- Director of the Center for Implant, Esthetic, and Innovative Dentistry
- Chairman of the ITI Center of Excellence and Scholarship program at IUSD
- President of the American Board of Prosthodontics
- Honorary Fellow of the International Team for Implantology (ITI)
- ITI Scholarship Center Chair (Universities of Florida, Louisville and Indiana)
- Fellow of the Royal College of Surgeons (Edinburgh)

Conventional and contemporary treatments can improve patient function, esthetics, and self-esteem. The complexity of therapy varies greatly, and clinicians are challenged to avoid complications, and when this is not possible manage less than satisfying outcomes. Evidence-based protocols and sound principles, irrespective of workflow, minimize complications and can help simplify management. This presentation will focus on protocols and workflows associated with both successful and unsuccessful outcomes for completely and partially edentulous patients, and how they provide the foundation for prevention or management of complications. Discussion will include patient examples to illustrate treatments and how to enhance outcomes predictability.

Invited Speakers

Dr. Adrien Naveau

University of Bordeaux, France

- Associate Professor, Faculty of Dentistry, University of Bordeaux
- Head of the Dental Clinic at Saint André Hospital, Bordeaux
- Principal Investigator at INSERM U1026 BioTis

Advances in 3D printing have resulted in new tools available for medical applications. More specifically, the recent accuracy and accessibility of 3D printing technologies have increased the maxillofacial surgical and prosthodontic applications, making the fabrication of custom medical instruments possible at an affordable cost. In this lecture, we will discuss the different objects that can be obtained through additive manufacturing and used for maxillofacial resections and surgical/prosthetic reconstructions. Participants will receive an overview of anatomical models, guides, custom tools, and tissue engineering applications of 3D printing in maxillofacial rehabilitation.

Dr. Yongsheng Zhou

School and Hospital of Stomatology, PKU, China

- President of School and Hospital of Stomatology, PKU
- Co-president of Consultation Board for Stomatological Development in China
- Vice President of China Oral Health Foundation
- Standing Committee member of the Chinese Stomatological Society (CSA)
- Past President of the Chinese Society for Oral Maxillofacial Rehabilitation
- Fellow of International College of Dentist (ICD) and ITI
- Co-chair of ITI Scholarship Center-Beijing
- Board Councilor of IADDM

Fully digital workflows for the design and manufacture of prostheses in Fixed Prosthondontics, Removable Prosthodontics, and Maxillofacial Rehabilitation were introduced in this presentation. Take the rehabilitation of maxillectomy defects as an example: Three-dimensional images from spiral computed tomography and intraoral scanning were used to generate a three-dimensional digital cast of a maxillectomy defect. The obturator prosthesis was then designed on the digital cast by combining dental computer-aided design and reverse engineering software programs. The prosthesis was subsequently milled from polyetheretherketone or three-dimensional-printed from polylactic acid. The prostheses achieve good fit during the try-in. Through these clinical trials, fully digital workflows were established for esthetic restoration of anterior teeth, removable partial denture, single tooth implantation of posterior tooth, and so on.

Invited Speakers

Dr. Arzu Tezvergil-Mutluay

University of Turku, Finland

- Member of the Board of Councilors of the International College of Prosthodontists (ICP)
- FADM, Specialist in Prosthodontics and Clinical Dentistry
- Professor and Chair, Department of Restorative Dentistry and Cariology
- Adhesive Dentistry Research Group Leader, Institute of Dentistry, University of Turku
- Senior Consultant, Turku University Hospital

The adhesive techniques in conjunction with esthetic restorative materials has profoundly transformed treatment paradigms within prosthodontics, presenting a minimal invasive alternative to traditional techniques. The primary objective of adhesive procedures is to establish a strong and long-lasting bond between dental restorations and tooth structures. This involves successful integration of restorative materials with dental hard tissues resulting in the formation of a complex biomechanical entity. In contemporary prosthodontics, dental practitioners are privileged to wield a diverse array of materials that are tailored for various modes of dental restorations, spanning from direct applications to chairside (semi-direct) or indirect techniques. This presentation focuses on distinct clinical strategies encompassing adhesive restorative procedures, offering insights into the key factors in achieving successful outcomes.

Dr. Kazuyoshi Baba

Showa University, Japan

- Member of the Board of Councilors of the International College of Prosthodontists (ICP)
- Chair and Professor of the Department of Prosthodontics at Showa University
- Dean of Dental School
- Past President of Japan Prosthodontic Society

One of the significant changes in dentistry that happened in this century was the introduction of digital technology into dental treatment, the so-called ‘Digital Dentistry’. Advancements in digital dentistry have been closely associated with not only the advancement of digital technologies but also the development of new dental materials, such as Zirconia. Because of these two driving forces, the traditional metal-based manual workflow is now being replaced by the metal-free digital workflow. For example, CAD/CAM-based fabrication of the restorations have already become indispensable for prosthetic treatments and the digital oral scanning technology has been expanding the popularity in the market due to its advantages over traditional method. The lecture will cover the latest advancements of digital dentistry as well as related newly developed dental materials and discuss their impact on the prosthetic treatment workflow and future prospective of digital dentistry by introducing the concept called ‘Database-driven Prosthodontic Treatment’.

Invited Speakers

Dr. Bart Van Meerbeek

University of Leuven, Belgium

- Professor, Department of Oral Health Sciences, Faculty of Medicine, KU Leuven (University of Leuven)
- Chair of the Department of Oral Health Sciences
- Founder and Head of BIOMAT – Biomaterials Research Group

This lecture aims to provide an update on modern adhesive technology to directly restore teeth. An overview of the current state-of-the-art regarding dental adhesive technology and their adhesion performance to dentin (and enamel) will be presented. The two main bond-degradation pathways, being water sorption with subsequent hydrolysis and enzymatic biodegradation will be discussed on their (clinical) relevance, while solutions to counteract bond degradation will be proposed. Special attention will be given to the newest generation of 'universal' adhesives that enable us to choose for either an 'etch-and-rinse' or 'self-etch' bonding approach, hereby also introducing new two-step/bottle universal adhesive technology. Potential future adhesive technology with additional therapeutic effects will be presented, while so-called 'bioactive' adhesive technology should be warned for not losing its primary bonding efficiency. Achieving tight adhesive sealing should always remain the primary function of dental adhesives.

Dr. Limor Avivi-Arber

University of Toronto, Canada

- Secretary of the International College of Prosthodontists (ICP)
- Associate Professor at the Faculty of Dentistry, University of Toronto
- Guest Editor in Frontiers in Neuroscience for a special research topic issue on "Orofacial Functions: From Neural Mechanisms to Rehabilitation"
- Member of the Editorial Board of the International Journal of Prosthodontics and the Journal of Oral Rehabilitation

We make clinical decisions and treatment recommendations based on the evidence, thus, failure to considerand incorporate principles of equity, diversity and inclusion (EDI) in dental research may impact patients'adaptations to an altered occlusion and even harms patients since the available evidence may not be directly relevant to a particular patient's characteristics and circumstances. This presentation will highlight the significance of considering EDI in dental research. It will then discuss how EDI can be incorporated into dental research. Although principles of EDI are applicable to all areas of dental research, this presentation will focus on research related to the dental occlusion.

Invited Speakers

Dr. Guang Hong

Tohoku University, Japan

- Vice Dean & Professor, Graduate School of Dentistry Dentistry Liaison Center for Innovative Dentistry, Tohoku University
- Director of International Affairs, Graduate School of Dentistry, Tohoku University
- Professor, Division for Globalization Initiative, Tohoku University Graduate School of Dentistry
- Associate Editor, Dental Materials Journal
- Chairperson, Committee for Guideline Development of ADEAP
- Guest Professor, School and Hospital of Stomatology, Wuhan University

The number of people wearing dentures is increasing due to the progress of the super-aging society, and denture care, including relining the denture, cleaning dentures, managing dentures, and using denture adhesive becomes more critical for those elderly persons who wear dentures to improve oral-related QOL. Denture lining materials have several types and also have different mechanical properties. When we focus on the development of new dental materials we should understand the properties of materials. The denture adhesives are roughly classified into denture adhesives and home reliner. Furthermore, denture adhesives are classified into three types: cream type, powder type, and sheet (tape) type. Denture cleansers also have several types such as Hypochlorite, Peroxide, Enzyme, and so on. Correct use of those materials and correctly introduction of those materials to patients is a critical issue. Otherwise, these materials can make some side effects. In this lecture, I will introduce the basics of denture lining materials, denture adhesives and denture cleansers, how to use them, and patient guidance.

Dr. Robert Carmichael

University of Toronto, Canada

- Chief of Dentistry, Holland Bloorview Kids Rehabilitation Hospital
- Director, Ontario Cleft Lip and Palate/Craniofacial Dental Programme
- Coordinator of Prosthodontics, Toronto Hospital for Sick Children
- Assistant Professor, University of Toronto
- Chairman of the ITI Center of Excellence and Scholarship Program at Holland Bloorview/University of Toronto
- Senior Fellow, the International Team for Implantology
- Fellow of the Royal College of Dentists of Canada

This lecture will review the prevalence, etiology and consequences of congenital absence of teeth, and explore the evidence base supporting the use of dental implants in the treatment of young adults and, in some cases, children. A holistic, multidisciplinary approach is advocated involving multiple clinical disciplines. General guiding principles will be reviewed that govern decision-making around: pediatric dental care, orthodontic treatment goals, determination of skeletal maturity, consent to treat, surgical management, prosthodontic habilitation and aftercare. Numerous clinical cases will be reviewed, and the clinical learnings from up to 35 years of follow-up will be reviewed. It is hoped that this presentation will help specialist practitioners to organize their thoughts when dealing with congenital absence of teeth superimposed on the dynamic framework of growth and development, and how to deal with the complications that inevitably arise.

Invited Speakers

Dr. Yuelian Liu

**Academic Centre for Dentistry Amsterdam (ACTA),
VU University and University of Amsterdam, Netherland**

- Associate Professor in Oral Implantology (2006 up to May 2021) and Oral Cell Biology (June 2021-present), Department of Oral Implantology and Prosthetic Dentistry, Academic Centre for Dentistry Amsterdam (ACTA), VU University and University of Amsterdam
- Head of Research Group

Aim: This clinical trial aims to prove that BioReBone ® (low dosage rhBMP-2 incorporated β-TCP) is a safe and effective bone substitute.
Material and methods: Forty patients with single extraction sockets were enrolled and randomized to receive BioReBone ® (the investigational medical device, 15 subjects), β-TCP (15 subjects) or no bone grafts (10 subjects) at the extraction socket. The sockets were covered by collagen membranes and healed for six weeks. The samples were taken while the dental implants were placed. The volume density of the new bone formation in the center part of the sockets were measured; the adverse events, the soft tissue healing score, and the rate of rhBMP-2 positive in serum were measured.
Results: All subjects completed the trial with none lost to follow-up or discontinued intervention. The histomorphological results demonstrated that the new bone volume density in the biopsies of BioReBone ® group was significantly larger than that of the β-TCP filled sockets. Moreover, the BioReBone ® also maintained the alveolar ridge contour in both the vertical height and horizontal width and achieved alveolar ridge preservation effectively. No subject exhibited rhBMP-2 positive in serum after the treatment.
Conclusion: This clinical trial demonstrated that BioReBone® could be an ideal bone substitute.

Dr. Carlos R. Parra Atala

Andrés Bello University, Chile

- Member of the Board of Councilors of the International College of Prosthodontists (ICP)
- Assistant Professor & Director of the graduate Implant Dentistry program of the Andrés Bello University, Santiago Chile
- Chilean Board certified as Prosthodontist and Implantologist
- Past president of the Chilean Prosthodontic Society SPROCh (2016/2019)

Traditionally, restorative dental treatment plan has been performed with the clear objective to eliminate acute infections, restore lost structures and function, However, the focus in dentistry has gradually shifted towards achieving a dentofacial aesthetic goal and patients' satisfaction. Analysis of aesthetic parameters within an interdisciplinary team, should be the first step in complex prosthetic rehabilitation. This presentation proposes a novel approach of analysis in the elaboration of the treatment plan starting from the desired esthetic outcome and then defining and analyzing the function, structure, strategy and biology accordingly. This sequence enhances the interdisciplinary team to have the best approach in treatment planning complex cases based on an accurate diagnosis to deliver the highest level of dental care.

Invited Speakers

Dr. Raelene Sambrook

Eastman Dental Institute, UK

- Associate Professor in Prosthodontics at the Eastman Dental Institute (London)
- Programme director for the MSc Conservative Dentistry programme
- Deputy programme director for the MClinDent Prosthodontics (advanced training) programme
- Honorary consultant at the Eastman Dental Hospital

Creating beautiful smiles is what prosthodontists do. It requires an artistic approach harmonising the teeth with the face, person, and their expectations. Our appreciation of smiles has continued to evolve and in addition to defining smile design principles, our understanding of the perception of a smile has improved. Furthermore, we have greater insight into how a smile can both positively and negatively impact a patient's wellbeing. The immersion of dentistry into the digital age has led to significant technological advancements integrating into our treatment workflows. Included in this is smile design technology, which continues to gain momentum in the field of aesthetic dentistry. It is crucial to examine the role this technology has had on smile design, how it integrates with our design principles, and how this technology is being used to commodify a perfect smile. Whilst science and technology have improved our capability to assess, diagnose and treat, we should also consider the responsible and ethical implementation of these concepts and technologies to mitigate some of these negative aspects and promote a more balance approach to aesthetic dentistry.

Dr. Haiyang Yu

Stomatology Technology Faculty in Sichuan University, China

- Chairman of the Prosthodontics Committee of the Chinese Stomatological Association
- Head of the Department of Prosthodontics (State Key Clinical Department) of West China Hospital of Stomatology
- Head of Stomatology Technology Faculty in Sichuan University
- PI of State Key Laboratory of Oral Disease

When the limited space of missing teeth requires the implant to have linear error at entry point and apex point less than 1.2mm and 1.5mm respectively, angle error less than 3.5°, which exceeds the average precision of static guides, it is of significance to determine the correct implant site and adopt the appropriate guiding method so as to achieve such high-accuracy of implant placement in limited space of missing teeth. This presentation introduces the concept of limited missing space and target restoration space (TRS), points out the difficulties in achieving numerical requirements of virtual implant site during surgery by reviewing the characteristics and problems of current guided implant surgery, and elucidates the importance of intraoperative real-time measurement to obtaining high-precision implant site in limited space of missing teeth. Combined with the design and application of the measurable iTRS guide, the lecturer provides a new protocol for high-precision implant placement surgery.

Invited Speakers

Dr. David Chvartszaid

University of Toronto, Canada

- Assistant Professor, Faculty of Dentistry, University of Toronto
- Dentist-in-Chief at Baycrest Hospital in Toronto
- Past President of the Association of Prosthodontists of Canada
- Past Director of the Graduate Prosthodontics Program, University of Toronto

Older adults are a heterogeneous group with diverse dental, medical and psychosocial needs. With advanced aging, oral care needs and general health care needs increase while the abilities to maintain independence in decision making, mobility and self-care decrease. Prevalence of dental diseases in frail and dependent older adults is high especially in the absence of regular home care and frequent dental assessments. This presentation will examine the prosthodontic management across the spectrum of aging including maintenance of implant-based restorations. Provision of dental care is a balance between achieving clinical objectives and not inducing undue stress in the vulnerable population. Hence, it is critical to focus on prevention and ensuring comfort. Frail and dependent older adults can benefit from a variety of prosthodontic interventions as long as the interventions are appropriately chosen. Implant-based restorations need to be designed to ensure that they can be easily maintained by the patient, their caregiver and the oral health team even when the patient's ability to maintain the prostheses diminishes.

Dr. Frank Spitznagel

University Hospital Düsseldorf and Heinrich-Heine-University Düsseldorf, Germany

- Associate Professor at Department of Prosthodontics, University Hospital Düsseldorf and Heinrich-Heine-University Düsseldorf
- The 2022-2023 recipient of Ivoclar Vivadent/ICP Research Fellowship in Dental Restorative Materials
- The 1st prize Winner of "Young Esthetics" from the Germany Academy of Esthetic Dentistry (DGÄZ) (2019): "Failure Load and Fatigue Behavior of Minimally Invasive Gradient Multilayer Zirconia Crowns and Partial-Coverage Restorations"

In this lecture, the 2022-2023 recipient of the Ivoclar/ICP Research Fellowship Dental Restorative Materials will present the results of his laboratory research.
The in-vitro research dealt with minimally invasive all-ceramic crowns and partial-coverage restorations in different ceramic layer thickness (1.5/1.0/0.5 mm). Specimens were exposed to cyclic mechanical loading with simultaneous thermocycling in a mouth-motion fatigue simulator and afterwards subjected to single-load to failure testing. Failure analysis was performed via light-microscope and scanning electron microscopy.

Invited Speakers

Dr. Carlo Ercoli

University of Rochester, USA

- Professor of Prosthodontics, Periodontics and Implant Surgery and Chairman of the Prosthodontics Postgraduate Training Program at EIOH, University of Rochester
- Diplomate of the American Board of Prosthodontics
- Past president of the American Prosthodontic Society
- ITI Fellow

Peri-implant soft tissue are the ultimate area where biology meets technology. It is in this anatomical and functional area that most processes of health and disease are actually initiated, maintained or compromised with short- and long-term effect on the prognosis of the dental implant and its surrounding hard and soft tissues. It is in this area where implant and prosthetic restoration design, biomaterials, technology, and hard and soft phenotype interact and become relevant for long-term biomimetic behavior of our restorations. This presentation will review how technology, biomaterial, prosthodontic restoration design and esthetics interact with peri-implant tissues and how to efficiently and judiciously apply these concepts from single implants to full-arch prostheses. The relevance of prosthetic design, soft and hard tissue grafting and the interaction between biomaterials and prosthetic workflows will be highlighted and assessed within a framework of efficient, evidence-based care delivery.

Dr. Cui Huang

School of Stomatology, Wuhan University, China

- Professor & Director, Prosthodontics Department, School of Stomatology, Wuhan University
- Committee member of IADR General Session Committee（2019-2022）
- Vice Chairman, Prosthodontics Division of Chinese Stomatological Association
- Chairman-Elect, Esthetic Dentistry Association of Chinese Stomatological Association
- Cross-appointment Professor, Tohoku University
- Honorary Professor, Faculty of Dentistry, The University of Hongkong
- Editor of the Journal of Dentistry, and Journal of Prosthodontic Research

Post-and-core crown is one of the most common indirect restorations after root canal therapy (RCT). Mechanical and biological factors are the two major factors determining the success and survival of post-and-core crown restoration, while the latter is often overlooked by many prosthodontists. Infection control is the core objective of RCT, which is usually well realized by endodontists. However, during the treatment process of post-and-core restoration, many prosthodontists often neglect the infection control of teeth and the maintenance of RCT efficacy, which might result in higher risks of failure for the final restoration. This presentation will stress on the efficient management of infection control before and during root preparation. Moreover, we classify the appropriate timing for the post-and-core restoration based on the infection state and healing time of root canal system and periapical tissues. We hope this topic will provide an overview of practice guidelines about the post-and-core crown restoration to decrease the biological risks.

Invited Speakers

Dr. Izchak Barzilay

Division of Prosthodontics and Restorative Dentistry at Mt. Sinai Hospita, Canada

- Head of the Division of Prosthodontics and Restorative Dentistry at Mt. Sinai Hospital
- Professor, George Brown College of Applied Arts and Technology
- Adjunct Professor, Eastman Institute for Oral Health, University of Rochester
- Vice Chair Board of Directors of the Royal College of Dentists of Canada
- Past President of the Ontario Study Club for Osseointegration
- Advisory Board of the International Society for Digital Dentistry
- Publication reviewer for the Journal of Esthetic and Restorative Dentistry

Implant Dentistry started off with a limited number of implant designs and sizes. Over the years new designs and shapes have been introduced so that one need not make the patient fit the implant, but one may use specific implant designs to fit the patient. One may use these novel designs to correct for difficulties in bone availability, spacing, angulation issues, occlusal clearance and screw retaining issues. This presentation will focus on the use of some of these specialized implants to correct for surgical and prosthetic difficulties.

Dr. Sang Wan Shin

Korea University, Republic of Korea

- Professor Emeritus of the Korea University
- Past-president of the Korean (and Asian) Academy of Prosthodontics
- Past-president of the International College of Prosthodontists (ICP)
- Past-president of the Implant Research Group (IRG) of IADR
- Past-president of the Asian Academy of Osseointegration

Osseointegration by P-I Branemark was defined as direct bone anchorage to an implant fixture which can be a foundation to support a prosthesis. This means an increase in prosthetic abutments and better prosthetic support for fixed and removable prostheses. Osseointegrated implants supporting fixed and removable prostheses brought a revolution since 1965.
Nowadays, a reduced treatment goal up to maximum solutions with osseointegrated implants and digital technologies are possible, but both case analysis and clinical procedures should be carried out following a treatment plan based on the Top-Down concept by Prosthodontists as the construction of buildings is carried out by following a blueprint planned by architects.
The lecture will outline these aspects from Diagnosis and Tx planning, extraction and ridge preservation including some perspectives on the biological healing process after extraction, and digital technologies on implant fixture installation and final prosthetic rehabilitation with clinical cases.
In 2003, George Zarb suggested four prosthodontic interfaces - the discipline's mandate for the management of patients' oral rehabilitative needs; between materials paced in both teeth and supporting host tissues, occlusal surfaces of teeth, and patients & dentists. For a better prosthodontic treatment goal with implant supported prostheses, we have to understand and manage tooth extraction and ridge preservation, digital technologies for treatment planning, implantation, final prosthetic rehabilitation, and follow-up maintenance care.
Therefore, Reconstructive Prosthodontic Research, Practice, and Education should include four interfaces between graft materials & implants and bone-supporting tissues, restorative materials and tooth tissues, both occlusal surfaces of teeth and patients & dentists, and digital technologies with Top-Down concept.

Moderators

Name	Country	Affiliation
Adrien Naveau	France	University of Bordeaux
Arzu Tezvergil-Mutluay	Finland	University of Turku
Baiping Fu	China	Zhejiang University School of Medicine
Bart Van Meerbeek	Belgium	University of Leuven
Carlo Ercoli	USA	Professor of Prosthodontics, Periodontics and Implant Surgery and Chairman of the Prosthodontic Department, the University of Rochester Diplomate of the American Board of Prosthodontics Past president of the American Prosth -odontic Society ITI Fellow
Chun Xu	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University
Cui Huang	China	School of Stomatology, Wuhan University
David Bartlett	UK	The Centre for Oral, Clinical & Translational Science and Prosthodontics, King 's College London
David Chvartszaid	Canada	University of Toronto
Dean Morton	USA	The Indiana University School of Dentistry
Fuming He	China	Zhejiang University School of Medicine
Guang Hong	Japan	Tohoku University
Haiyang Yu	China	Stomatology Technology Faculty in Sichuan University
Hiroshi Egusa	Japan	Tohoku University
Hongbing Liao	China	Guangxi Medical University
Izchak Barzilay	Canada	Division of Prosthodontics and Restorative Dentistry at Mt. Sinai Hospital
Kung-Rock Kown	Korea	Kyung Hee University
Lan Liao	China	Jinggangshan University
Limor Avivi-Arber	Canada	University of Toronto
Longquan Shao	China	Second-level professor, Chief physician, doctoral supervisor, postdoctoral co-supervisor
Qianbing Wan	China	West China Hospital of Stomatology
Raelene Sambrook	Britain	Eastman Dental Institute (London)
Robert Carmichael	Canada	University of Toronto
Sheng Yang	China	Stomatological Hospital of Chongqing Medical University
Sreenivas Koka	USA	University of Mississippi Medical Center School of Dentistry

Moderators

Name	Country	Affiliation
Ting Jiang	China	Peking University School of Stomatology
Ting Jiao	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University
Xiaoping Luo	China	Nanjing Stomatological Hospital, Nanjing University
Xinquan Jiang	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University
Yan Wang	China	Guanghua School of Stomatology & Hospital of Stomatology
Yongsheng Zhou	China	Peking University School and Hospital of Stomatology
Yuelian Liu	Netherland	Academic Centre for Dentistry Amsterdam (ACTA), VU University and University of Amsterdam
Yumei Zhang	China	The Fourth Military Medical University
Zhe Wu	China	Department of Prosthodontics, Affiliated Stomatology Hospital of Guangzhou Medical University

Oral Presentations

Selected Oral Presenter

Name	Country	Affiliation
Baiping Fu	China	Zhejiang University School of Medicine
Chun Xu	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University
Fuming He	China	Zhejiang University School of Medicine
Jiefei Shen	China	West China School of Stomatology,Sichuan University
Lina Niu	China	Air Force Medical University
Ting Jiang	China	Peking University School of Stomatology
Ting Jiao	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University
Xiaoping Luo	China	Nanjing Stomatological Hospital, Nanjing University
Yan Wang	China	Guanghua School of Stomatology & Hospital of Stomatology
Yi Zhou	China	School of Stomatology, Wuhan University
Yunsong Liu	China	Peking University Hospital of Stomatology
Ziyuan Zhu	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine

Oral Presenter

Name	Country	Affiliation
Adell Naidoo	South Africa	University of the Western Cape, Cape Town, South Africa
Balendra PratapSingh	India	King George's Medical University
Chenyu Wang	China	Air Force Medical University
Cheuk Fung Hau	China	The University of Hong Kong
Cui Cui	Canada	University of Toronto
Feng Yao	China	Department of Stomatology, The Second Xiangya Hospital of Central South University
Guangna Yue	China	Department of Stomatology, Shanghai East Hospital of Tongji University
Guangzheng Yang	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University
Gul Bahar ISIK-OZKOL	Turkey	Istanbul University, Dental Faculty, Department of Prosthodonti
Hao Gu	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University
Hengyan Liu	China	State Key Laboratory of Oral & Maxillofacial Reconstruction and Regeneration
Hongming Zhang	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University
Hongye Yang	China	Wuhan University
Jaafar Abduo	Australia	Melbourne Dental School, Melbourne University
Jiacheng Liu	China	Department of Prosthodontics, Tianjin Medical University School and Hospital of Stomatology
Jiahui Du	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University
Jie Wang	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University
Jin Wen	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University
Jing Gao	China	State Key Laboratory of Oral Diseases, National Clinical Research Center for Oral Disease, West China Hospital of Stomatology, Sichuan University
Jingjing Bian	China	Affiliated Stomatology Hospital of Nanjing Medical University
Jingyi Xu	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University

Oral Presentations

Name	Country	Affiliation
Jin-Hong Park	Republic of Korea	Department of Prosthodontics, Korea University Guro Hospital
Jinsong Liu	China	Wenzhou Medical University
Jun Wang	China	School and Hospital of Stomatology, Wenzhou Medical University
Kehui Xu	China	Air Force Medical University
Konstantinos Kountouras	Austrilia	Dental Implants & Aesthetics
Lei Jin	China	First Affiliated Hospital of Nanjing Medical University
Lianyi Xu	China	Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology
Lisha Pan	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University
Long wei Lv	China	Peking University School and Hospital of Stomatology
Mario Dawud	Israel	Tel aviv University
MirzaRustum Baig	Kuwait	Ministry of Health
Naksitt Jittrong	Thailand	Institute of Dentistry, Department of Medical Services, Ministry of Public Health, Thailand
Ping Li	China	Affiliated Stomatology Hospital of Guangzhou Medical University
Qi Zhong	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University
Ruikai Ba	China	State Key Laboratory of Military Stomatology, National Clinical Research Center for Oral Diseases
Ruixue Jiang	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University
Shaobo Ou-yang	China	The Affiliated Stomatological Hospital of Nanchang University
Sijia Li	China	College of Stomatology, Xi'an Jiaotong University
Sungwoo Ju	Republic of Korea	Kyung Hee University
Tingting Zhang	China	Guanghua School of Stomatology, Sun Yat-sen University
Wanrong Wang	China	National Clinical Research Center for Oral Diseases State Key Laboratory of Military Stomatology Shaanxi Key Laboratory of Stomatology Department of Prosthodontics School of Stomatology The Fourth Military Medical University
Weijia Zhao	China	Stomatology Hospital, School of Stomatology, Zhejiang University School of Medicine
Xi Cheng	China	Stomatology Hospital, School of Stomatology, Zhejiang University School of Medicine

Oral Presentations

Name	Country	Affiliation
Xiaoting Jin	China	Stomatology Hospital, School of Stomatology, Zhejiang University School of Medicine
Xinchao Miao	China	Department of Prosthodontics, Affiliated Stomatology Hospital of Guangzhou Medical University
Xingting Han	China	Peking University School and Hospital of Stomatology
Yue Feng	China	National Clinical Research Center for Oral Diseases State Key Laboratory of Military Stomatology Shaanxi Key Laboratory of Stomatology Department of Prosthodontics School of Stomatology The Fourth Military Medical University
Yue Feng	China	Department of Prosthodontics, School & Hospital of Stomatology, TongjiUniversity, Shanghai Engineering Research Center of Tooth Restoration and Regeneration
Yue Guo	China	The Second Xiangya Hospital, Central South University
Yumin Wu	China	Department of Prosthodontics, The Affiliated Stomatological Hospital of Nanjing Medical University
Yunsong Zhang	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine
Yuqiong Wu	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University
Yutian Wu	China	Institute of Stomatology, School and Hospital of Stomatology, Wenzhou Medical University
Zeqian Xu	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University
Zeyue Ouyang	China	Department of Stomatology, The Second Xiangya Hospital of Central South University
Zhe Wu	China	Department of Prosthodontics, Affiliated Stomatology Hospital of Guangzhou Medical University
Zhe Li	China	Department of Prosthodontics, Tianjin Medical University School and Hospital of Stomatology
Zhen Wang	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University
Zhennan Deng	China	School and Hospital of Stomatology Wenzhou Medical University
Zhihong Feng	China	Department of Prosthodontics, School of Stomatology, The Fourth Military Medical University
Ziang Wu	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University
Zidi Zhai	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University

Poster Presentations

Name	Country	Affiliation	Presentation Title
Ao Zheng	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Study on high strength porous cryogel based on gelatin/sodium alginate/nano-hydroxyapatite composite and its application
Ayisen Saimi	China	Nanjing Stomatological Hospital, Affiliated Hospital of Medical School, Nanjing University	Effect of heat-treatment on microstructure and mechanical properties of SLM-ed pure Titanium
Bo Gao	China	The second affiliated hospital of Zhejiang University School of Medicine	Special design of removable partial denture restoration following surgical resection of the mouth floor neoplasm
Chaoqian Lou	China	Stomatology Hospital, School of Stomatology, Zhejiang University School of Medicine, Zhejiang Provincial Clinical Research Center for Oral Diseases, Key Laboratory of Oral Biomedical Research of Zhejiang Province, Cancer Center of Zhejiang University	Injectable PEG-based hydrogel for cranio-maxillofacial bone regeneration
Chen Liu	China	The Third Affiliated Hospital of Air Force Military Medical University	Complete digital workflow for retreatment of ceramic laminate veneers
Chenghao Jiang	China	Nanjing Medical University	Mn-doped silica nanoparticles with Bisphosphonate and Curcumin for Periodontal Regeneration
Chenyuan Zhu	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Clinical case of double curve-layered resin disc applied for CAD/CAM monolithic complete dentures
Chuchu Xu	China	Zhejiang Provincial Clinical Research Center for Oral Diseases, Key Laboratory of Oral Biomedical Research of Zhejiang Province, Cancer Center of Zhejiang University, Stomatology Hospital, School of Stomatology, Zhejiang University School of Medicine	3D Printed CSi-Mg6-Sr5-Zn8 Scaffolds for Guided Bone Regeneration
Congrui Zhao	China	Department of Prosthodontics, Stomatology Hospital, School of Stomatology, Zhejiang University School of Medicine, Zhejiang Provincial Clinical Research Center for Oral Diseases, Key Laboratory of Oral Biomedical Research of Zhejiang Province, Cancer Center of Zhejiang University	Strontium-incorporated titanium implants alleviate inflammation via downregulation of TRPM2-mediated signaling axis in monocytes
Dan Ma	China	The Third Affiliated Hospital of Air Force Military Medical University	Fabrication of hollow obturator prosthesis supported by the metal framework using digital altered cast and cast-free assembly technique
Diwen Shi	China	Department of Prosthodontics, School of Stomatology , China Medical University	Yth m6A RNA-Binding Protein 1 Regulates Osteogenesis of MC3T3-E1 Cells under Hypoxia via Translational Control of Thrombospondin-1
Feng Yao	China	Department of Stomatology, The Second Xiangya Hospital of Central South University	The Chinese version of the Oral Health Impact Profle-14 questionnaire among college students: factor structure and measurement invariance across genders

Poster Presentations

Name	Country	Affiliation	Presentation Title
Feng Yao	China	Department of Stomatology, The Second Xiangya Hospital of Central South University	Comparison of EASYDO ACTIVATOR, passive ultrasonic, and needle irrigation techniques on the treatment of apical periodontitis: a study in rats
Feng Yao	China	Second Xiangya Hospital, Central South University	HSA/Chitosan Nanoparticles for Sustained Release of Metformin and its Derived Synthetic Biopolymer for Bone Regeneration
Hao Gu	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Biomimetic Polyetherketoneketone Scaffolds Simulate Regenerative Signals and Mobilize Anti-inflammatory Reserves for Boosted Osseointegration
Hao Yu	China	Fujian Medical University	Influence of ambient light conditions on intraoral scanning: A systematic review
Huiwen Chen	China	Department of Periodontology, Shanghai Ninth People's Hospital	Crown lengthening combined with DSD for the treatment of short clinical crowns on upper anterior teeth
Hyung jun KIM	Repub -lic of Korea	Department of Prosthodontics, School of Dentistry, Chonnam National University	Neutral zone and alveolar relation consideration for fabricating complete denture in a patient with severe alveolar bone resorption
Jia Yongna	China	Dept.Prosthodontics,School of Stomatology,Fourth Military Medical University	A case of immediate implantation in the aesthetic area of anterior teeth.
Jiakang Zhu	China	State Key Laboratory of Oral & Maxillofacial Reconstruction and Regeneration, Key Laboratory of Oral Biomedicine Ministry of Education, Hubei Key Laboratory of Stomatology, School & Hospital of Stomatology, Wuhan University	Effects of material type, background color and restoration depth on color adjustment potential of resin composites
Jian Xie	China	Department of Prosthodontics, Stomatological Hospital and Dental School of Tongji University, Shanghai Engineering Research Center of Tooth Restoration and Regeneration	Aligned electrospun poly(L-lactide) nanofibers facilitate wound healing by inhibiting macrophage M1 polarization via the JAK-STAT and NF-κB pathways
Jiani Xu	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Association between exposure to tobacco metabolites and dental caries in U.S. adults
Jiani Xu	China	Department of Prosthodontics, Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine	Association between healthy lifestyle combinations and periodontitis in NHANES
Jiayao Zhang	China	Department of Prosthodontics, Stomatological Hospital and Dental School of Tongji University, Shanghai Engineering Research Center of Tooth Restoration and Regeneration	Mechanism of norepinephrine NE/AR receptors in psychological stress-induced bone metabolism disorder in mice

Poster Presentations

Name	Country	Affiliation	Presentation Title
Jie Wang	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Effect of Various Defect Dimensions and Material Types on Stress Distribution in Indirect Restorations for Posterior Tooth.
Jie Zhang	China	Department of Prosthodontics, The Fifth Clinical Medical College of Shanxi Medical University	Treatment of Maxillary Dentition Defect after Soft Tissue Flap Reconstruction with Digital Techniques: A Case Report
Jimin Jiang	China	The Affiliated Hospital of Stomatology, Zhejiang University School of Medicine	Clinical efficacy of On-one abutment with non-submerged healing workflow in the posterior region: A 1-year prospective study
Jin Wen	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Salivary signatures of oral-brain communication in sleep bruxers
Jingyi Xu	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Bioactive-Storage Microneedle Patch with Rejuvenescent Intermediaries for Aged Nonhealing Dermal Wound
Jinjing Zhang	China	Beijing Hospital	A digital workflow case of esthetic rehabilitation in a patient with Sjogren Syndrome and enamel hypoplasia
Kai Tang	China	The Fourth Military Medical University	Enhanced bonding to caries-affected dentin using an isocyanate-based primer
Kai Zhang	China	Stomatology Hospital, School of Stomatology, Zhejiang University School of Medicine, Zhejiang Provincial Clinical Research Center for Oral Diseases, Key Laboratory of Oral Biomedical Research of Zhejiang Province, Engineering Research Center of Oral Biomaterials and Devices of Zhejiang Province, Cancer Center of Zhejiang University, Engineering Research Center of Oral Biomaterials and Devices of Zhejiang Province	Analysis of Enamel Thickness in the First Permanent Molar and its Clinical Application
Kaiyuan Cheng	China	Department of Prosthodontics, Peking University School and Hospital of Stomatology; National Clinical Research Center for Oral Diseases; National Engineering Laboratory for Digital and Material Technology of Stomatology; Beijing Key Laboratory of Digital Stomatology	Effects of Inferior Alveolar Nerve Transection on miRNA Expression Profiles of Rat Trigeminal Ganglions
Le Ren	China	Department of Prosthodontics, School and Hospital of Stomatology, Tongji University	Personalized Design combined with Multiple Methods for An Elderly Patient with Severely Worn Dentition: A Case Report
Le Ren	China	Department of Prosthodontics, School and Hospital of Stomatology, Tongji University	A case of overlay restorations for posterior teeth with massive loss of dental structure

Poster Presentations

Name	Country	Affiliation	Presentation Title
Li Yue	China	Department of Prosthodontics, Nanjing Stomatological Hospital, Affiliated Hospital of Medical School, Nanjing University	3D-printed complete dentures for the restoration of an edentulous patient with severe alveolar bone resorption: A clinical report
Longwei Lv	China	Department of Prosthodontics, Peking University School and Hospital of Stomatology	3D-printed NIR-light-responsive scaffold for programmed drug delivery and bone regeneration
Meizi Zhang	China	Department of Prosthodontics, Peking University School and Hospital of Stomatology; National Clinical Research Center for Oral Diseases; National Engineering Laboratory for Digital and Material Technology of Stomatology; Beijing Key Laboratory of Digital StomatologyPeking University School and Hospital of Stomatology	Full-mouth rehabilitation of severe tooth wear by digital design and virtual occlusal pre-adjustment technique
Meng Li	China	Department of Prosthodontics, School of Stomatology, The Fourth Military Medical University	Preservation and Promotion of Aesthetic Factors in Patients with Immediate Implant Restoration Assisted by Digital Technology
Miao Liu	China	Department of Prosthodontics, Shanxi Provincial People's Hospital & The Fifth Clinical Medical College of Shanxi Medical University	Sectional impression combined with digital techniques for the rehabilitation of maxillary defects with limited mouth opening
Ming Zhou	China	State Key Laboratory of Military Stomatology & National Clinical Research Center for Oral Diseases, Department of Prosthodontics, School of Stomatology, The Fourth Military Medical University	Effect of thermal matching on the structural stability of zirconia-veneering porcelain
Minyue Bao	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	RNA sequencing analysis decoding periodontitis in Type 2 diabetes mellitus: systematically and locally
Na Wang	China	Dalian Stomatological Hospital	The clinical study of immediate implant and restoration with digital workflow in mandibular anterior region
Nan Hu	China	Department of Endodontics, Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine; College of Stomatology, Shanghai Jiao Tong University; National Center for Stomatology; National Clinical Research Center for Oral Diseases; Shanghai Key Laboratory of Stomatology; Shanghai Research Institute of Stomatology.	Study on the application of decellularized extracellular matrix from periapical lesion in dental pulp regeneration
Qianju Wu	China	Stomatological Hospital of Xiamen Medical College, Xiamen Key Laboratory of Stomatological Disease Diagnosis and Treatment	Comparison of digital and conventional impression techniques: Restoration rework rate
Qingfu Zhang	China	Department of Stomatology,Shanghai 411 hospital	Comparison of digital and conventional impression techniques: Restoration rework rate

Poster Presentations

Name	Country	Affiliation	Presentation Title
Qingli Zhou	China	Department of Stomatology, The First Affiliated Hospital of Anhui Medical University	The behavior of chelators for dentin demineralization and dentin bonding
Rongpu Liu	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Promoting Oral Mucosal Wound Healing with a Hydrogel Adhesive Based on a Phototriggered S-Nitrosylation Coupling Reaction
Seoung-Jin Hong	Republic of Korea	Department of Prosthodontics, College of Dentistry, Kyung Hee University	Assessment of the fit of lithium disilicate crowns at various locations fabricated by three different methods using the triple-scan protocol
Shanshan Liang	China	School & Hospital of Stomatology, Wuhan University	Multiple diastemas closure in tetracycline-stained teeth using digital interdisciplinary management: a case report
Shaojie Dong	China	College of Stomatology, Xi'an Jiaotong University	A Novel Approach of Calcium Peroxide Loaded Injectable Hydrogel for Periodontitis Treatment
Shiqi Dai	China	National Clinical Research Center for Oral Diseases & State Key Laboratory of Military Stomatology & Shaanxi Key Laboratory of Stomatology, The Fourth Military Medical University	Synthesis and Characterization of a Rigid–Flexible Star-Shaped Monomer for Dental Resin Materials
Shiwei Song	China	The Third Affiliated Hospital of Air Force Medical University	Digital duplication technique for hollow maxillary obturator
Shuning Zhang	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Black phosphorus and E7-Functionalized Sulfonated Poly(etheretherketone) with Effective Osteogenicity and Remotely Repeatable Photodisinfection
Shuomin Chen	China	School and Hospital of Stomatology, Wenzhou Medical University	Stress distribution in teeth with periapical periodontitis after root canal treatment and post-crown restorations: A finite element analysis
Sijia Fan	China	Hokkaido University	Debinding processes for different composite resins produced by additive manufacturing.
Su Wu	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Adaptation and Accuracy of Major Connector in PEEK Removable Partial Denture Framework
Tingmin Zhang	China	The Third Affiliated Hospital of Air Force Medical University	Digital maxillary complete denture obturator with a gingival patch: A simple, precise technique using additive manufacturing
Tingshu Su	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Study on the osteogenic properties of a novel calcium silicophosphate in the type II diabetes rat tooth extraction sockets
Wanni Fu	China	Affiliated Stomatological Hospital of Kunming Medical University	Effect of different silane coupling agents on bond strength of resin-matrix ceramics

Poster Presentations

Name	Country	Affiliation	Presentation Title
Wanrong Wang	China	National Clinical Research Center for Oral Diseases State Key Laboratory of Military Stomatology Shaanxi Key Laboratory of Stomatology Department of Prosthodontics School of Stomatology The Fourth Military Medical University	Optimization of Lactoferrin-Derived Amyloid Coating for Enhancing Soft Tissue Seal and Antibacterial Activity of Titanium Implants
Wei Zhou	China	Department of Prosthodontics, School of Stomatology, The Fourth Military Medical University	Observation of the auto-fluorescence emitted from dentin-adhesive interfaces
Wei Zhou	China	State Key Laboratory of Oral & Maxillofacial Reconstruction and Regeneration & National Clinical Research Center for Oral Diseases & Shaanxi Key Laboratory of Stomatology School of Stomatology The Fourth Military Medical University	Minimally invasive repair of dentition defects in xerostomia with Sjögren syndrome
Wenjuan Song	China	Department of Prosthodontics of Hospital of Stomatology of Wuhan University	Immediate Implant Placement and Immediate Restoration Restored Anterior Teeth Drifting Caused by Stage IV Periodontitis: A Case Report
Wenya Tang	China	Nanjing Stomatological Hospital, Medical School of Nanjing University	Study on the cross-linking and protective effect of artemisinin and its derivatives on demineralized dentin surface collagen fibers
Xianglin Dai	China	The Affiliated Stomatological Hospital, Nanchang University	An ultrasound-responsive calcium titanate electroactive coating on titanium implant surfaces with bone immunomodulation and antimicrobial properties
Xiangning Liu	China	The First Affiliated Hospital of Jinan University, School of Stomatology, Clinical Research Platform for Interdiscipline of Stomatology, Jinan University	Pericyte derived exosomes inhibit bone resorption by blocking non-classical NF-κB pathway
Xianzhen Xin	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Multidisciplinary joint treatment of aesthetic restoration of anterior teeth
Xiao Wang	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Construction of nano-functionalized surface of carbon-fiber-reinforced polyetheretherketone implant and study on its osseointegration properties
Xiayue Jin	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Types and colors of 1372 chair-side CAD/CAM all-ceramic restorations
Ximeng Cao	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Hypoxia preconditioning enhances the angiogenic and proliferative functions of extracellular vesicles derived from bone marrow mesenchymal stem cells
Xin Wang	China	The Third Affiliated Hospital of Air Force Military Medical University	A fully digital workflow for designing and manufacturing removable partial dentures

Poster Presentations

Name	Country	Affiliation	Presentation Title
Xinbo Yu	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Accuracy assessment of dynamic navigation during implant placement: A systematic review and meta-analysis of studies in the last 10 years
Xingxing Li	China	Affiliated stomatology hospital of Kunming Medical University	Computer color matching of 3D printed polyetheretherketone composites
Xinru Cai	China	Hospital of Stomatology, Sun Yat-sen University	The use of prosthetically guided orthodontics (PGO) for digital space management for aesthetic rehabilitation of maxillary anterior teeth
Xintong Liu	China	Department of Prosthodontics, The second affiliated hospital Zhejiang University School of Medicine	Apigenin alleviates Xerostomia via upregulation of AQP5 Activation.
Xuanqi Wang	China	Department of Prosthodontics, Shanxi Provincial People's Hospital & The Fifth Clinical Medical College of Shanxi Medical University	Fully digital workflow to fabricate a hollow interim obturator for partial maxillary defects
Xuanyu Qi	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Temporally Regulating Microenvironmental Immuno-Neural Signals to enhance Bone Regeneration Efficiency
Yangbo Xu	China	Stomatology Hospital, School of Stomatology, Zhejiang University School of Medicine; Zhejiang Provincial Clinical Research Center for Oral Disease; Key Laboratory of Oral Biomedical Research of Zhejiang Province	Antioxidant and Osteogenic Properties of Strontium-incorporated Titanium Surfaces in Hyperglycemia
Yanqiu Huang	China	Shanghai Jiao Tong University	Association between tobacco metabolites, including ETS and BTEXS, and periodontitis: Comparison of four statistical models
Ying Chen	China	Department of Prosthodontics, Peking University School and Hospital of Stomatology & National Center of Stomatology & National Clinical Research Center for Oral Diseases & National Engineering Laboratory for Digital and Material Technology of Stomatology & Beijing Key Laboratory of Digital Stomatology & Research Center of Engineering and Technology for Computerized Dentistry Ministry of Health & NMPA Key Laboratory for Dental Materials	Caspase-1/GSDMD-mediated pyroptosis regulates biological behaviors of gingival fibroblasts from patients with chronic periodontitis on polished zirconia surface
Yingyi Shen	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Cone-beam CT Evaluation of Post-extraction Alveolar Bone Changes at the Maxillary Incisor Sites in an East Asian Population

Poster Presentations

Name	Country	Affiliation	Presentation Title
Yinlin Wang	China	Stomatology Hospital, School of Stomatology, Zhejiang University School of Medicine, Zhejiang Provincial Clinical Research Center for Oral Diseases, Key Laboratory of Oral Biomedical Research of Zhejiang Province, Cancer Center of Zhejiang University, Engineering Research Center of Oral Biomaterials and Devices of Zhejiang Province	Cerium oxide biomimetic mineralization system construction and its antibacterial properties
Yue Guo	China	The Second Xiangya Hospital of Central South University	Spheroid co-culture of BMSCs with osteocytes yields ring-shaped bone-like tissue that enhances alveolar bone regeneration
Yue Guo	China	The Second Xiangya Hospital of Central South University	Kangfuxin accelerates extraction socket healing by promoting angiogenesis via upregulation of CCL2 in stem cells
Yujie Wang	China	The Affiliated Hospital of Stomatology, School of Stomatology, Zhejiang University School of Medicine	Accuracy and fitness of advanced additively manufactured and CAD/CAM milled Zirconia 3-unit fixed dental prostheses
Yulan Liu	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	High-throughput screening of natural compounds with osteogenic bioactivity in a molecular docking approach
Yun Yuan	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Accuracy of 3D-printed aluminum alloy Implant Surgical guides: An In Vitro Study
Yun Zhu	China	Stomatology Hospital, School of Stomatology, Zhejiang University School of Medicine; Zhejiang Provincial Clinical Research Center for Oral Disease	The biofilm removal effect and influences on surface characteristics and osteogenic potential on Ti surfaces by electrolytic cleaning
Yuwei Deng	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Transcriptome Landscape Comparison of Periodontium in Developmental and Renewal Stages
Zeqian Xu	China	Shanghai Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, College of Stomatology, Shanghai Jiao Tong University	Biomineralization Inspired 3D Printed Nanocomposite Scaffold Boosting Diabetic Bone Regeneration through Remodeling of Microenvironment
Zeyue Ouyang	China	Department of Stomatology, The Second Xiangya Hospital, Central South University	Endoplasmic Reticulum Stress Remodels Alveolar Bone formation After Tooth Extraction
Zeyue Ouyang	China	Department of Stomatology, The Second Xiangya Hospital, Central South University	Oral Health-related Quality of Life in Chinese Chronic Orofacial Pain Patients with Psychological Health Problems: A Moderated Mediation Model
Zeyue Ouyang	China	Department of Stomatology, The Second Xiangya Hospital of Central South University	Role of NOD2 and hepcidin in inflammatory periapical periodontitis

Poster Presentations

Name	Country	Affiliation	Presentation Title
Zhe Zhao	China	State Key Laboratory of Military Stomatology & National Clinical Research Center for Oral Diseases, Department of Prosthodontics, School of Stomatology, The Fourth Military Medical University	Application of digital techniques in tooth movement and occlusal analysis for patients with food impaction
Zhiqiang Wang	China	Dental Technology Center, Dalian Stomatological Hospital	A clinical trial comparing the wear and occlusal parameters between lingualized occlusal and anatomical occlusal complete dentures
Zhixiang Zhang	China	School of Stomatology, Tongji Medical College, Huazhong University of Science and Technology	Hedgehog Signaling Promote PDGFRA-mediated Myofibroblast Transformation of Gli1+-MSC
Zhixiao Wu	China	Department of Prosthodontics, Peking University School and Hospital of Stomatology & National Center of Stomatology & National Clinical Research Center for Oral Diseases & National Engineering Laboratory for Digital and Material Technology of Stomatology & Beijing Key Laboratory of Digital Stomatology & Research Center of Engineering and Technology for Computerized Dentistry Ministry of Health & NMPA Key Laboratory for Dental Materials	Caspase-3/GSDME mediated pyroptosis leads to osteogenic dysfunction of osteoblast-like cells on SLA titanium surface
Tianhong Zhou	China	Wenzhou Medical University	Aesthetic zirconia fabricated by additive manufacturing technology
Zhuqing Wan	China	Department of Prosthodontics, Peking University School and Hospital of Stomatology	A dual-responsive hydrogel composite for sequential regulation of bone regeneration
Zimu He	China	Department of Prosthodontics, Shanxi Provincial People's Hospital & The Fifth Clinical Medical College of Shanxi Medical University	Design and manufacture of oral stent for tongue cancer:a case report
ZIYI BAI	Japan	Tokyo Medical and Dental University	Predicting maximum occlusal force and tongue pressure in head and neck cancer patients using decision tree analysis
동현 김	Republic of Korea	Kyunghee University Dental Hospital	Comparison of surgical accuracy according to the height and design of the sleeve in implant surgery using a digital guide
수현 김	Republic of Korea	Chonnam national university dental hospital	Multiple implant prosthetic restoration using temporary denture and scannable healing abutment: A case report

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