

## 2022 IADR/APR General Session Virtual Experience

**IADR Academy: Reconstruction and Regeneration of Oral and Maxillofacial Hard Tissues**  
**June 21, 2022, 8:30 a.m.-2:30 p.m. China Standard Time (UTC +8)**

**Organizer(s):** Jie-Fei Shen (West China School of Stomatology, Sichuan University), Yongwen Guo (West China School of Stomatology, Sichuan University)

*Ticketed Event, Capacity Limited*

This academy will provide an in-depth view of contemporary cutting-edge issues in the reconstruction and regeneration of oral and maxillofacial hard tissues. There will be coverage of recent advances in approaches and the underlying cellular and molecular mechanisms for reconstruction and regeneration of enamel or crown, dentin, pulp-dentin complex, alveolar bone as well as the periodontal complex. What's more, the future prospective and the strategies for making discoveries and securing funding in this field will also be covered. In addition, there will be opportunity for thought sparks in contemporary topical areas through participation in the seminar that focus on the scientific research design, experiment planning as well as the data analysis and graphing. Participants will complete the academy with new insights and skills in future research and development of novel strategies for reconstruction and regeneration of oral and maxillofacial hard tissues.

**Learning Objective 1:** Understand the advances in approaches and the underlying mechanisms for reconstruction and regeneration of oral and maxillofacial hard tissues.

**Learning Objective 2:** Discuss the future prospective and the strategies for making discoveries and securing funding.

**Learning Objective 3:** Learn about scientific research design, experiment planning as well as the data analysis.

### **Speakers:**

**8:30 a.m.-8:45 a.m.**

#### ***Welcome and Introduction***

Ling Ye and Jiefei Shen (West China School of Stomatology, SCU, China)

**8:45 a.m.-9:15 a.m.**

#### ***Making Discoveries and Securing Funding by Asking Important Questions***

Cun-Yu Wang (University of California – Los Angeles, CA, USA)

**9:15 a.m.-9:45 a.m.**

#### ***Rebuilding Dentine***

Paul Sharpe (King's College London Dental Institute, London, UK)

**9:45 a.m.-10:15 a.m.**

#### ***Dental, Oral, and Craniofacial Tissue Regeneration – Translating Discovery into Therapy***

Yang Chai (Ostrow School of Dentistry, University of Southern California, Los Angeles, CA, USA)

10:15 a.m.-10:30 a.m. *Break*

**10:30 a.m.-11 a.m.**

***Potential Cellular and Regenerative Approaches for Prosthodontic Treatment***

Hiroshi Egusa (Tohoku University Graduate School of Dentistry, Sendai-city, Miyagi, Japan)

**11 a.m.-11:30 a.m.**

***iHuman for Rebuilding Syngeneic, Vascularized, Innervated Tissues and Organs***

Tong Cao (National University of Singapore, Singapore)

**11:30 am.-12 p.m.**

***Chronological and Replicative Aging and Human Dental Pulp Biology***

Ling Ye (Sichuan University, Chengdu, Sichuan, China)

12 p.m.-1 p.m. *Break*

**1 p.m.-2:30 p.m. Seminar Topics**

***Scientific Research Design***

Xiaodong Feng (West China School of Stomatology, SCU, China)

***Experiment Planning***

Yu Shi (West China School of Stomatology, SCU, China)

***Data Analysis and Graphing***

Hang Zhao (West China School of Stomatology, SCU, China)

**2:30 p.m.-3 p.m.**

***Wrap up and Closing***

Ling Ye and Jiefei Shen (West China School of Stomatology, SCU, China)