

## 5 February (Wednesday)

10:00 - 18:30 **Registration Think Tank**

12:30 - 19:00 **Biologic Association Think Tank (upon invitation only)**

*Judge/Shark: Bruder Scott (US) Judge/Shark: Higgins Larry (US) Judge/Shark: Pachuda Nicholas (US) Reporter/Analyst: French Kim (US) Reporter/Analyst: O'Reilly Sharon (US) Reporter/Analyst: Duffey Patrick (US) Reporter/Analyst: Young Robin (US) Judge/Shark: Shen Christopher (US)*

12:30 - 14:00 **Session 1**

*Moderator: Farr Jack (US)*

12:30 - 13:00 **Kimera: Chondrogenic Exosome Hydrogel for Articular Cartilage Regeneration**

*Sanders Jason (US)*

13:00 - 13:30 **Organogenesis: Amniotic Suspension Allograft Improves Pain and Function in Osteoarthritis - The Evidence**

*Mowry Katie (US)*

13:30 - 14:00 **Samumed: Lorecivivint: A First-in-Class, Disease-Modifying Drug Candidate for Knee Osteoarthritis.**

*Tambiah Jeyanesh (US)*

14:00 - 14:30 **Break**

14:30 - 16:00 **Session 2**

*Moderator: Farr Jack (US)*

14:30 - 15:00 **Lipogems: Micro-fragmented Adipose Tissue: Basic Science and Clinical Evidence**

*O'Connell Julie (US)*

15:00 - 15:30 **Orthopedic Stem Cell Research Lab, Regenerative Medicine Institute, Cedars-Sinai: Identification of Cell and Protein Biomarkers in PRP to Improve Individual Pain Outcomes in Knee OA**

*Sheyn Dmitriy (US)*

15:30 - 16:00 **Regenacell Therapy: Marrow Cellution Device And The CellFUSE - Bone Graft Substitute**

*Chabot Jeff (US)*

16:00 - 16:30 **Break**

16:30 - 18:00 **Session 3**

*Moderator: Farr Jack (US)*

16:30 - 17:00 **Keck School of Medicine of USC: Evaluation of Engraftable Human Pluripotent Stem Cell-Derived Chondrocytes in a Long-Term Preclinical Pig Model of Focal Cartilage Injury**

*Evseenko Denis (US)*

17:00 - 17:30 **Bioventus: Preclinical Characterization and Clinical Development Plans for PTP-001, a Novel Human Tissue Biologic in Development For The Treatment of Osteoarthritis.**

*Pavesio Alessandra (US)*

17:30 - 18:00 **Biorez: The First Look at BioBrace™, a New, Fully Resorbable, Bioactive Tissue Regeneration Scaffold For The Repair of Ligament and Tendons**

*Rocco Kevin (US)*

18:00 - 19:00 **Closing & Happy Hour**  
*Presenter: Farr Jack (US) Presenter: Mandelbaum Bert (US) Presenter: Dragoo Jason (US)*

## 6 February (Thursday)

6:30 - 18:00 **Registration Biologic Association Summit**

7:30 - 9:30 **Module 1 - Biologics: What is Currently Available?**

*Moderator: Frank Rachel (US) Moderator: Sherman Seth (US)*

07:30 - 07:45 **1.1 The Importance of the Biologic Association**  
*Mandelbaum Bert (US)*

07:45 - 08:00 **1.2 Platelet Rich Plasma**  
*Cole Brian (US)*

08:00 - 08:15 **1.3 Bone Marrow Concentrate**  
*Muschler George (US)*

08:15 - 08:30 **1.4 Adipose Cellular Therapy**  
*Dragoo Jason (US)*

08:30 - 08:45 **1.5 Amniotic Cellular Therapy**  
*Tokish John (US)*

08:45 - 09:00 **1.6 Short and Long Acting Cortisone: Are they Still Current?**  
*Sherman Seth (US)*

09:00 - 09:15 **1.7 Viscosupplementation**  
*McIntyre Louis F. (US)*

09:15 - 09:30 **Questions & Answers**

9:30 - 10:00 **Coffee Break**

10:00 - 12:00 **Module 2 - Regulatory Process and Ethical Implications**

*Moderator: PiuZZi Nicolas (US) Moderator: Vangsness, Jr. C. Thomas (US)*

10:00 - 10:15 **2.1 Overview of Regulatory Process**  
*Anz Adam (US)*

10:15 - 10:30 **2.2 Implications of Off-Label Promotion to Your Practice and Reputation: Staying Out of Trouble**  
*Bruder Scott (US)*

10:30 - 10:45 **2.3 Nomenclature Challenges**  
*Murray Iain (UK)*

10:45 - 11:00 **2.4 Rogue Stem Cell Clinics and Complications**  
*Halbrecht Joanne (US)*

11:00 - 11:15 **2.5 Expansion and Culture: What Does This Mean and Why Can't We Do It?**  
*Leucht Philipp (US)*

11:15 - 11:30 **2.6 Successes, Dead-Ends, and Open Questions in Biologics Research from the Basic Science Perspective**  
*Chubinskaya Susan (US)*

11:30 - 11:45 **2.7 Past Present and Future of "Stem Cells"**  
*Caplan Arnold (US)*

11:45 - 12:00 **Questions & Answers / Discussion**

12:00 - 13:00 **Lunch Break**

13:00 - 15:15

### **Module 3 - Clinical Applications**

*Moderator: Minas Tom (US) Moderator: Tokish John (US)*

- 13:00 - 13:15    **3.1 Tendonitis (LE, Patellar, Achilles)**  
*Dragoo Jason (US)*
- 13:15 - 13:30    **3.2 Osteoarthritis**  
*Chu Constance (US)*
- 13:30 - 13:45    **3.3 Tendon Tears (Hamstring, Elbow UCL)**  
*Tokish John (US)*
- 13:45 - 14:00    **3.4 Augmentation to Surgery - ACLR**  
*Mandelbaum Bert (US)*
- 14:00 - 14:15    **3.5 Augmentation to Surgery - Rotator Cuff**  
*Cole Brian (US)*
- 14:15 - 14:30    **3.6 Augmentation to Surgery - Cartilage Repair**  
*Minas Tom (US)*
- 14:30 - 14:45    **3.7 Augmentation to Surgery - Scaffolds**  
*Romeo Anthony (US)*
- 14:45 - 15:00    **3.8 Biologics in Athletes - What Should We Do In-Season?**  
*Jones Kristofer (US)*
- 15:00 - 15:15    **Questions & Answers / Discussion**

15:15 - 15:45

### **Coffee Break**

15:45 - 17:15

### **Module 4 - Office Logistics and Billing**

*Moderator: Dragoo Jason (US) Moderator: Zaslav Kenneth (US)*

- 15:45 - 16:00    **4.1 PRP in the Office - How I Do it & How I Code**  
*Cole Brian (US)*
- 16:00 - 16:15    **4.2 BMC in the Office - How I Do it & How I Code**  
*Saris Daniel BF (US)*
- 16:15 - 16:30    **4.3 Adipose in the Office - How I Do it & How I Code**  
*Halbrecht Joanne (US)*
- 16:30 - 16:45    **4.4 BMC in the OR - How I Do it and How I Code**  
*Gomoll Andreas (US)*
- 16:45 - 17:00    **4.5 Adipose in the OR - How I Do it and How I Code**  
*Dragoo Jason (US)*
- 17:00 - 17:15    **Questions & Answers / Discussion**

17:15 - 18:30

### **Module 5 - The Biologic Association**

*Moderator: Dragoo Jason (US) Moderator: Mandelbaum Bert (US)*

- 17:15 - 17:30    **5.1 BA Website Presentation**  
*Dragoo Jason (US)*
- 17:30 - 17:45    **5.2 Advocacy and Biologics**  
*Halbrecht Joanne (US)*
- 17:45 - 18:00    **5.3 Repository and Registry**  
*Tokish John (US)*
- 18:00 - 18:15    **5.4 Development of Best Practice (Real Time Dashboard, How do we Review Literature in Real Time)**  
*Frank Rachel (US)*
- 18:15 - 18:30    **5.5 Summary of the Think Tank**  
*Farr Jack (US)*

19:30 - 22:00 **BA Faculty/Course Dinner**

## **7 February (Friday)**

7:00 - 12:00 **Registration Biologic Association Summit**

7:30 - 9:30 **Module 6 - Presentations by the Biologic Association Summit**

*Moderator: Frank Rachel (US) Moderator: Sherman Seth (US)*

07:30 - 07:40 **6.1 Current Landscape in Orthobiologics**

*Dragoo Jason (US)*

07:40 - 07:50 **6.2 The Future of Orthobiologics**

*Mandelbaum Bert (US)*

07:50 - 08:00 **6.3 Orthobiologics Registry - Opportunity or Challenge?**

*Maloney William (US)*

08:00 - 08:15 **6.4 Orthobiologics in Tendon (RCR, LE Examples)**

*Cole Brian (US)*

08:15 - 08:30 **6.5 Orthobiologics in Muscle**

*Huard Johnny (US)*

08:30 - 08:45 **6.6 Orthobiologics in Cartilage Repair**

*Gobbi Alberto (IT)*

08:45 - 09:00 **6.7 Orthobiologics in Cartilage Repair**

*Zaslav Kenneth (US)*

09:00 - 09:15 **6.8 Orthobiologics in Bone**

*Anz Adam (US)*

09:15 - 09:30 **Questions & Answers / Discussion**

9:30 - 9:40 **Official BA Summit Adjourn / Break**

9:40 - 12:00 **Module 7 - Optional BA/ISMF Ultrasound & Orthobiologics Skills Workshop**

*Instructor: Batten Casey G. (US) Instructor: Malanga Gerard (US) Instructor: Roh Eugene (US) Instructor: Sampson Steven (US) Instructor: Yoon Steve (US)*

09:40 - 09:55 **Intro to Orthobiologics Skills Workshop & Ultrasound Overview**

*Batten Casey G. (US)*

09:55 - 10:00 **Transition to Workshop**

10:00 - 12:00 **Hands-On Workshop: Ultrasound and Orthobiologics Skills Workshop**