5 February (Wednesday)

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

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

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)*
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: Piuuzzi 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: Zaslav Kenneth (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**  
McIntyre Louis F. (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)
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 Early OA
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