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
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

Coffee Break

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

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