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)
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: 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