

**BIOLOGIC
ASSOCIATION**

1st Summit

February 5 - 7, 2020

20th

INTERNATIONAL
**SPORTS MEDICINE
FELLOWS CONFERENCE**

February 7-8, 2020
Carlsbad, California

20th

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SPORTS MEDICINE FELLOWS CONFERENCE

February 7 – 8, 2020 • Carlsbad, California



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Dear Colleagues,

On behalf of the Biologic Association and the International Sports Medicine Conference Chairs and Program Directors, we wish you a warm welcome to this exciting and novel 4-day interactive and educational event including the **1st Orthobiologics Summit and the 20th International Sports Medicine Fellows Conference (ISMF)**.

BIOLOGIC ASSOCIATION

Biologic Association Think Tank – Wednesday, February 5, 2020

The Think Tank for innovation incorporates forward thinking surgeons, scientists and industry partners. The presenters (“contestants”) are industry and academic researchers with new orthobiologics ideas, products and applications. They will appear before a panel of judges who will grade on both the potential impact on patient care and business success. (requires advance registration)

Biologic Association 1st Orthobiologics Summit – Thursday and Friday, February 6 & 7, 2020

A well renowned faculty will present state-of-the-art lectures on topics focused on orthobiologics including evidenced- based science, position reviews and management algorithms.

On Friday morning we offer an optional **Ultrasound and Orthobiologics Workshop** (tickets are required). This hands-on workshop will serve to enhance your educational experience with focus on diagnostic and injection techniques for all orthobiologics interventions.

Social events for the Biologic Association include a Course Dinner on Thursday, February 6 at 7:30. You may enquire about ticket purchases at the registration desk as space is limited.

20th INTERNATIONAL SPORTS MEDICINE FELLOWS CONFERENCE

In its 20th year, the mission of the ISMF Conference is to educate, train, and motivate sports medicine fellows on all state-of-the-art and innovative concepts, technology and techniques – including knee joint preservation, patellofemoral, and beyond. In these next few days, we hope you will take advantage of networking with your peers and the course faculty.

This year there are three workshops for all fellows, the Ultrasound and Orthobiologics Workshop (Friday morning); the Cartilage Restoration Workshop (Saturday) and the Patellofemoral Workshop (Saturday). You will participate as teams of two to three fellows at each workstation with the opportunity to perform cartilage restoration and patellofemoral procedures. Preceding the workshops, we will present Live Surgical Demonstrations.

The fellows and faculty of the ISMF are invited to an Annual Reception and Dinner in the Grand Pacific Ballroom following Friday’s program.

We hope you all take the time to enjoy the beautiful California coast, with its natural beauty and variety of activities. This will be an outstanding experience for all. We welcome attendees from all over the world hungry for information related to orthobiologics and cartilage repair and management.

Best Regards,

Biologic Alliance

Bert R. Mandelbaum, MD, DHL (hon)
Chair, 1st Orthobiologics Summit

Jason L. Dragoo, MD
Chair, 1st Orthobiologics Summit

Jack Farr, MD
Chair, Think Tank

Rachel M. Frank, MD
Seth L. Sherman, MD
Jorge Chahla, MD
Program Chairs

International Sports Medicine Fellows Conference

Bert R. Mandelbaum, MD, DHL (hon)
Chair, ISMF Conference

Ralph A. Gambardella, MD
Chair, ISMF Conference

Seth L. Sherman, MD
ISMF Program Chair

Wayne K. Gersoff, MD
ISMF Workshop Chair

BA Summit & Programme Chairs



BA Summit Chair
Bert R. Mandelbaum



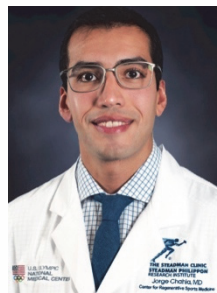
BA Summit Chair
Jason L. Dragoo



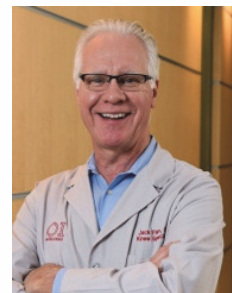
Programme Chair
Rachel M. Frank



Programme Chair
Seth L. Sherman



Programme Chair
Jorge Chahla



Think Tank Chair
Jack Farr

Faculty



Adam Anz



Scott Bruder



Arnold Caplan



Constance Chu



Susan Chubinskaya



Brian Cole



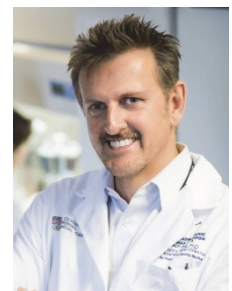
Alberto Gobbi



Andreas Gomoll



Joanne Halbrecht



Johnny Huard



Kristofer Jones



Philipp Leucht



William Maloney



Louis F. McIntyre



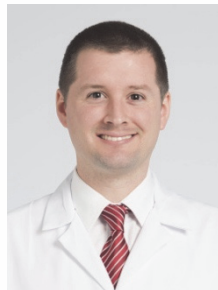
Tom Minas



Iain Murray



George Muschler



Nicolas Piuze



Daniel B.F. Saris



John Tokish



Thomas Vangness



Kenneth Zaslav

Ultrasound Workshop Faculty



Casey Batten



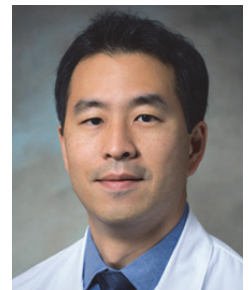
Gerard Malanga



Eugene Roh



Steven Sampson



Steve Yoon

THURSDAY, FEBRUARY 6, 2020

06:30 Registration

07:30 – 09:30 Module I: Biologics: What is Currently Available?

- 07:30 – 07:45 1.1 The Importance of the Biologic Association
- 07:45 – 08:00 1.2 Platelet Rich Plasma
- 08:00 – 08:15 1.3 Bone Marrow Concentrate
- 08:15 – 08:30 1.4 Adipose Cellular Therapy
- 08:30 – 08:45 1.5 Amniotic Cellular Therapy
- 08:45 – 09:00 1.6 Short and Long Acting Cortisone: Are they Still Current?
- 09:00 – 09:15 1.7 Viscosupplementation
- 09:15 – 09:30 Questions & Answers / Discussion

Moderator: Rachel Frank
Moderator: Seth Sherman
Bert Mandelbaum
Brian Cole
George Muschler
Jason Dragoo
John Tokish
Seth Sherman
Louis F. McIntyre

09:30 – 10:00 Exhibits & Coffee Break

10:00 – 12:00 Module 2: Regulatory Process and Ethical Implications

- 10:00 – 10:15 2.1 Overview of Regulatory Process
- 10:15 – 10:30 2.2 Implications of Off-Label Promotion to Your Practice and Reputation: Staying Out of Trouble
- 10:30 – 10:45 2.3 Nomenclature Challenges
- 10:45 – 11:00 2.4 Rogue Stem Cell Clinics and Complications
- 11:00 – 11:15 2.5 Expansion and Culture: What Does This Mean and Why Can't We Do It?
- 11:15 – 11:30 2.6 Successes, Dead-Ends, and Open Questions in Biologics Research from the Basic Science Perspective
- 11:30 – 11:45 2.7 Past Present and Future of "Stem Cells"
- 11:45 – 12:00 Questions & Answers / Discussion

Moderator: Nicolas Piuzzi
Moderator: Thomas C. Vangness, Jr.
Adam Anz
Scott Bruder

Iain Murray
Joanne Halbrecht
Philipp Leucht
Susan Chubinskaya

Arnold Caplan

12:00 – 13:00 Lunch Break

13:00 – 15:15 Module 3: Clinical Applications

- 13:00 – 13:15 3.1 Tendonitis (LE, Patellar, Achilles)
- 13:15 – 13:30 3.2 Osteoarthritis
- 13:30 – 13:45 3.3 Tendon Tears (Hamstring, Elbow UCL)
- 13:45 – 14:00 3.4 Augmentation to Surgery – ACLR
- 14:00 – 14:15 3.5 Augmentation to Surgery – Rotator Cuff
- 14:15 – 14:30 3.6 Augmentation to Surgery – Cartilage Repair
- 14:30 – 14:45 3.7 Augmentation to Surgery – Scaffolds
- 14:45 – 15:00 3.8 Biologics in Athletes – What Should We Do In-Season?
- 15:00 – 15:15 Questions & Answers / Discussion

Moderator: Tom Minas
Moderator: John Tokish
Jason Dragoo
Constance Chu
John Tokish
Bert Mandelbaum
Brian Cole
Tom Minas
TBD
Kristofer Jones

15:15 – 15:45 Coffee Break

15:45 – 17:15 Module 4: Office Logistics and Billing

- 15:45 – 16:00 4.1 PRP in the Office – How I Do it & How I Code
- 16:00 – 16:15 4.2 BMC in the Office – How I Do it & How I Code
- 16:15 – 16:30 4.3 Adipose in the Office – How I Do it & How I Code
- 16:30 – 16:45 4.4 BMC in the OR – How I Do it & How I Code
- 16:45 – 17:00 4.5 Adipose in the OR – How I Do it & How I Code
- 17:00 – 17:15 Questions & Answers / Discussion

Moderator: Jason Dragoo
Moderator: Kenneth Zaslav
Brian Cole
Daniel BF Saris
Joanne Halbrecht
Andreas Gomoll
Jason Dragoo



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THURSDAY, FEBRUARY 6, 2020 (Continued)

17:15 – 18:30	Module 5: The Biologic Association	Moderator: Jason Drago Moderator: Bert Mandelbaum
17:15 – 17:30	5.1 BA Website Presentation	Jason Drago
17:30 – 17:45	5.2 Advocacy and Biologics	Joanne Halbrecht
17:45 – 18:00	5.3 Repository and Registry	John Tokish
18:00 – 18:15	5.4 Development of Best Practice (Real Time Dashboard, How do we Review Literature in Real Time)	Rachel Frank
18:15 – 18:30	5.5 Summary of the Think Tank	Jack Farr
19:30 – 22:00	BA Faculty/Course Dinner	Ticket Required

FRIDAY, FEBRUARY 7, 2020

07:00	Registration	
07:30 – 09:30	Module 6: Presentations by the Biologic Association Summit	Moderator: Rachel Frank Moderator: Seth Sherman
07:30 – 07:40	6.1 Current Landscape in Orthobiologics	Jason Drago
07:40 – 07:50	6.2 The Future of Orthobiologics	Bert Mandelbaum
07:50 – 08:00	6.3 Orthobiologics Registry – Opportunity or Challenge?	William Maloney
08:00 – 08:15	6.4 Orthobiologics in Tendon (RCR, LE Examples)	Brian Cole
08:15 – 08:30	6.5 Orthobiologics in Muscle	Johnny Huard
08:30 – 08:45	6.6 Orthobiologics in Cartilage Repair	Alberto Gobbi
08:45 – 09:00	6.7 Orthobiologics in Early OA	Kenneth Zaslav
09:00 – 09:15	6.8 Orthobiologics in Bone	Adam Anz
09:15 – 09:30	Questions & Answers / Discussion	
09:30 – 09:45	Official BA Summit Adjourn / Break	
09:45 – 12:00	Module 7: Optional BA/ISMF Ultrasound and Orthobiologics Skills Workshop	
09:45 – 09:55	Intro to Orthobiologics Skills Workshop & Ultrasound Overview	Casey Batten
09:55 – 10:00	Transition to Workshop	
10:00 – 12:00	Hands-On Workshop: Ultrasound and Orthobiologics Skills Workshop	Casey Batten, Rachel Frank; Gerard Malanga; Eugene Roh; Steven Sampson; Seth Sherman; Steve Yoon

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Course Chairs and Program Directors



Course Chair
Bert R. Mandelbaum, MD,
DHL (hon)
UNITED STATES



Course Chair
Ralph A. Gambardella, MD
UNITED STATES



Program Director
Seth L. Sherman, MD
UNITED STATES



Workshop Director
Wayne K. Gersoff, MD
UNITED STATES

Course Faculty



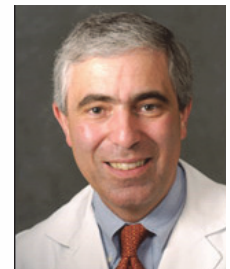
Stephen P. Abelow, MD
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Adam W. Anz, MD
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Michael Banffy, MD
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Art Bartolozzi, MD
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Casey G. Batten, MD
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William Bugbee, MD
UNITED STATES



Brian J. Cole, MD, MBA
UNITED STATES



Jason L. Drago, MD
UNITED STATES



Christoph Erggelet, MD, PhD
SWITZERLAND



Jack Farr, MD
UNITED STATES



Rachel M. Frank, MD
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John P. Fulkerson, MD
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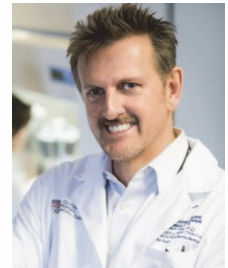
Alberto Gobbi, MD
ITALY



Andreas Gomoll, MD
UNITED STATES



Simon Görtz, MD
UNITED STATES



Johnny Huard, PhD
UNITED STATES



Kristofer Jones, MD
UNITED STATES



John G. Lane, MD
UNITED STATES



Christian Lattermann, MD
UNITED STATES



Gerard Malanga, MD
UNITED STATES



William J. Maloney, MD
UNITED STATES



Kai Mithoefer, MD
UNITED STATES



Eugene Roh, MD
UNITED STATES



Steven Sampson, DO
UNITED STATES



Daniel Saris, Prof., MD
UNITED STATES



Tim Spalding, FRCS(Orth)
UNITED KINGDOM



Sabrina M. Strickland, MD
UNITED STATES



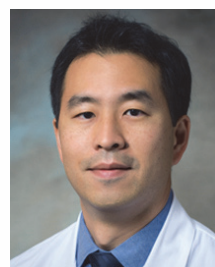
Marc Tompkins, MD
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Natasha Trentacosta, MD
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C. Thomas Vangsness, MD
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Steve Yoon, MD
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Ken R. Zaslav, MD
UNITED STATES



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FRIDAY, FEBRUARY 7, 2020

6:30 – 7:30	Breakfast	
7:30 – 9:30	Session I: Presentations by the Biologic Association Summit	Moderator: Rachel M. Frank, MD USA Moderator: Seth L. Sherman, MD USA
7:30 – 7:40	Current Landscape in Orthobiologics	Jason L. Dragoo, MD USA
7:40 – 7:50	The Future of Orthobiologics	Bert R. Mandelbaum, MD, DHL (hon) USA
7:50 – 8:00	Orthobiologics Registry - Opportunity or Challenge?	William J. Maloney, MD, USA
8:00 – 8:15	Orthobiologics in Tendon (RCR, LE Examples)	Brian J. Cole, MD, MBA USA
8:15 – 8:30	Orthobiologics in Muscle	Johnny Huard, PhD USA
8:30 – 8:45	Orthobiologics in Cartilage Repair	Alberto Gobbi, MD ITALY
8:45 – 9:00	Orthobiologics in Early OA	Ken R. Zaslav, MD USA
9:00 – 9:15	Orthobiologics in Bone	Adam W. Anz, MD USA
9:15 – 9:30	Questions & Answers / Discussion	
9:30 – 9:45	Exhibits Break	
9:45 – 12:00	Ultrasound and Orthobiologics Skills Workshop	
9:45 – 9:55	Intro to Orthobiologics Skills Workshop & Ultrasound Overview	Casey G. Batten, MD USA
9:55 – 10:00	Transition to Workshop	
10:00 – 12:00	Hands-On Workshop: Ultrasound & Orthobiologics	Casey G. Batten, MD USA; Rachel M. Frank, MD USA; Gerard Malanga, MD USA; Eugene Roh, MD USA; Steven Sampson, DO USA; Seth Sherman, MD USA; Steve Yoon, MD USA
12:00 – 13:00	Lunch	
13:00 – 13:45	Session II: Introduction to Cartilage Restoration	Moderator: Seth L. Sherman, MD USA
13:00 – 13:12	Overview: How to Build a Cartilage Practice	Bert R. Mandelbaum, MD, DHL (hon) USA
13:12 – 13:24	Clinical and Radiographic Evaluation of Cartilage Patients	Ken R. Zaslav, MD USA
13:24 – 13:36	Philosophy of Cartilage Repair: When to Treat and When Not to Treat	Brian J. Cole, MD, MBA USA
13:36 – 13:45	Discussion	
13:45 – 14:55	Session III: Treat the Joint as an Organ	Moderator: Jack Farr, MD USA
13:45 – 13:57	Management of Concomitant Pathology (Alignment, Meniscus, Stability)	Jack Farr, MD USA
13:57 – 14:09	Evolving ACL Concepts: Tibial Slope, Lateral Extra-Articular, Ramp Lesions	Kristofer Jones, MD USA
14:09 – 14:21	Meniscus Substitution (CMI) and Transplantation	Wayne K. Gersoff, MD USA
14:21 – 14:33	International Perspective on Meniscus Preservation and Replacement	Tim Spalding, FRCS(Orth) UK
14:33 – 14:45	Osteotomy in Cartilage Repair	Christoph Ergelet, MD, PhD SWITZERLAND
14:45 – 14:55	Discussion	
14:55 – 15:10	Exhibits Break	
15:10 – 16:08	Session IV: Clinical Approach to Joint Preservation	Moderator: William Bugbee, MD USA
15:10 – 15:22	My Algorithm for Small Cartilage Lesions	John G. Lane, MD USA
15:22 – 15:34	My Algorithm for Large Cartilage Lesions	Rachel M. Frank, MD USA
15:34 – 15:46	Management of Bipolar/Multifocal/Arthritis	William Bugbee, MD USA
15:46 – 15:58	Patellofemoral Joint Preservation	Seth L. Sherman, MD USA
15:58 – 16:08	Discussion	
16:08 – 17:42	Session V: Joint Preservation Surgical Techniques	Moderator: Art Bartolozzi, MD USA
16:08 – 16:20	Microfracture/Microfracture Plus/Cartiform	Kai Mithoefer, MD USA
16:20 – 16:32	OAT Autograft/Mosaicplasty	Ralph A. Gambardella, MD USA
16:32 – 16:44	MACI and Other Cell Based Strategies	Andreas Gomoll, MD USA
16:44 – 16:56	Osteochondral Allografts	William Bugbee, MD USA
16:56 – 17:08	Treatment of Subchondral Bone	Bert R. Mandelbaum, MD, DHL (hon) USA
17:08 – 17:20	Agili-C	Ken R. Zaslav, MD USA
17:20 – 17:32	Stem Cells and Scaffolds	Alberto Gobbi, MD ITALY
17:32 – 17:42	Discussion	
17:42 – 18:00	Exhibits Break	
18:00 – 18:55	Session VI: Think Like a Cartilage Surgeon: Case Presentations	Moderator: Brian J. Cole, MD, MBA USA
18:00 – 18:15	Small Defect	Brian J. Cole, MD, MBA USA
18:15 – 18:30	Large Defect	Simon Görtz, MD USA
18:30 – 18:45	Complex Reconstruction	Sabrina M. Strickland, MD USA
18:45 – 18:55	Discussion	
19:00 – 22:00	Annual ISMF Reception and Dinner	



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SATURDAY, FEBRUARY 8, 2020

6:30 – 7:30 Breakfast Session (Mandatory)

- 6:30 – 7:00 Breakfast
- 7:00 – 7:10 Surgical Exposures Lecture
- 7:10 – 7:30 Innovations in Osteochondral Grafting and All-Inside Meniscal Repair

7:30 – 8:16 Session VII: Special Considerations

- 7:30 – 7:42 Special Considerations: Cartilage Problems in Other Joints
- 7:42 – 7:54 Special Considerations: OCD Lesions
- 7:54 – 8:06 Cartilage Repair in Pediatric Population
- 8:06 – 8:16 Discussion

8:16 – 8:35 Exhibits Break

8:35 – 9:30 Session VIII: Keynote Presentation

- 8:35 – 9:20 Adventures in Biologic Joint Reconstruction
- 9:20 – 9:30 Discussion

9:30 – 11:10 Session IX: Surgical Demonstrations

- 9:30 – 9:45 Meniscus Allograft Transplantation
- 9:45 – 10:00 Meniscus Root Repair and Soft Tissue MAT
- 10:00 – 10:15 High Tibial Osteotomy/DFO
- 10:15 – 10:30 MACI
- 10:30 – 10:45 Osteochondral Allograft
- 10:45 – 11:00 Agili-C

11:00 – 12:00 Lunch

12:00 – 14:30 Cartilage Restoration Workshop

14:30 – 14:50 Exhibits Break

14:50 – 16:10 Session X: Patellofemoral Lectures

- 14:50 – 15:00 Where Have We Been and Where are We Going in PF Instability Treatment?
- 15:00 – 15:10 Clinical and Radiographic Work-up of PF Instability
- 15:10 – 15:20 Treatment Algorithm for Patellofemoral Instability: Surgical Indications and Which Procedure(s) to Choose
- 15:20 – 15:30 Getting It Right: Medial Anatomy and Soft Tissue Stabilization
- 15:30 – 15:40 Getting It Right: Lateral Anatomy and Soft Tissue Balancing
- 15:40 – 15:50 Getting It Right: When to Add Tibial Tubercle Osteotomy (TTO) and What Type?
- 15:50 – 16:00 Complications and How to Avoid Them
- 16:00 – 16:10 Discussion

16:10 – 16:50 Session XI: Patellofemoral Surgical Demonstrations

- 16:10 – 16:25 Tibial Tubercle Osteotomy (TTO) Medialization/Distalization
- 16:25 – 16:40 MQTFL Reconstruction
- 16:40 – 16:50 MPFL Recon/Lateral Retinacular Lengthening

16:50 – 17:00 Transition to Patellofemoral Workshop

17:00 – 18:30 Patellofemoral Workshop

William Bugbee, MD USA
 Ralph A. Gambardella, MD USA
Moderator: C. Thomas Vangsness, MD USA
 Michael Banffy, MD USA
 Marc Tompkins, MD USA
 Natasha Trentacosta, MD USA

Moderator: Seth L. Sherman, MD USA
 Daniel Saris, Prof., MD USA

Moderator: Simon Görtz, MD USA
Moderator: Brian J. Cole, MD, MBA USA

Wayne K. Gersoff, MD USA
 Tim Spalding, FRCS(Orth) UK
 Daniel Saris, Prof., MD USA
 Ken R. Zaslav, MD USA
 Bert R. Mandelbaum, MD, DHL (hon) USA
 Seth L. Sherman, MD USA

Moderator: Wayne K. Gersoff, MD USA

Chair: Jack Farr, MD USA
Chair: John P. Fulkerson, MD USA

Jack Farr, MD USA
 Christian Lattermann, MD USA
 Marc Tompkins, MD USA

Seth L. Sherman, MD USA
 Andreas Gomoll, MD USA
 Sabrina M. Strickland, MD USA
 John P. Fulkerson, MD USA

Moderator: Andreas Gomoll, MD USA
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 Christian Lattermann, MD USA

Moderator: Wayne K. Gersoff, MD USA



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INTERNATIONAL SPORTS MEDICINE FELLOWS CONFERENCE

February 7 – 8, 2020 • Carlsbad, California

Workshops

FRIDAY, FEBRUARY 7, 2020

9:40 – 12:00 **Ultrasound and Orthobiologics Skills Workshop**

9:40 – 9:55 Intro to Orthobiologics Skills Workshop &
Ultrasound Overview

Faculty: Casey G. Batten, MD USA

9:55 – 10:00 Transition to Workshop

10:00 – 12:00 Hands-On Workshop:
Stations where fellows learn ultrasound procedures on each other for shoulder, elbow, knee, and ankle (dress casual).
Cadaver Stations to include injections, harvesting, process and injection of adipose, bone marrow aspirate and processing of PRP and A2M.

Faculty: Casey Batten, MD USA; Rachel M. Frank, MD USA; Gerard Malanga, MD USA; Eugene Roh, MD; Steven Sampson, DO USA; Seth L. Sherman, MD USA; Steve Yoon, MD USA

SATURDAY, FEBRUARY 8, 2020

12:00 – 14:30 **Cartilage Restoration Workshop**

Meniscal Repair
Microfracture
MACI
Osteochondral Autograft
Osteochondral Allograft
Meniscal Transplant
HTO/DFO

Moderator: Wayne K. Gersoff, MD USA

Faculty: ISMF Faculty will be lab instructors.
Fellows will be assigned to a station. (dress casual).
Protective wear provided; scrubs will not be provided.

17:00 – 18:30 **Patellofemoral Workshop**

Tibial Tubercle Osteotomy
MPFL
Lateral Retinaculum Lengthening

Moderator: Wayne K. Gersoff, MD USA

Faculty: ISMF Faculty will be lab instructors. Fellows will be assigned to a station (dress casual).
Protective wear provided; scrubs will not be provided.

Surgical Demonstrations

SATURDAY, FEBRUARY 8, 2020

9:30 – 11:10 **Session IX: Surgical Demonstrations**

Moderator: Simon Görtz, MD USA

Moderator: Brian J. Cole, MD, MBA USA

Faculty: Wayne K. Gersoff, MD USA

Faculty: Tim Spalding, FRCS(Orth) UK

Faculty: Daniel Saris, Prof., MD USA

Faculty: Ken R. Zaslav, MD USA

Faculty: Bert R. Mandelbaum, MD, DHL (hon) USA

Faculty: Seth L. Sherman, MD USA

Moderator: Andreas Gomoll, MD USA

Faculty: Jack Farr, MD USA

Faculty: John P. Fulkerson, MD USA

Faculty: Christian Lattermann, MD USA

9:30 – 9:45 Meniscus Allograft Transplantation
9:45 – 10:00 Meniscus Root Repair and Soft Tissue MAT
10:00 – 10:15 High Tibial Osteotomy/DFO
10:15 – 10:30 MACI
10:30 – 10:45 Osteochondral Allograft
10:45 – 11:00 Agili-C

16:10 – 16:50 **Session XI: Patellofemoral Surgical Demonstrations**

16:10 – 16:25 Tibial Tubercle Osteotomy (TTO) Medialization/Distalization
16:25 – 16:40 MQTFL Reconstruction
16:40 – 16:50 MPFL Recon/Lateral Retinacular Lengthening

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Stanford University
UNITED STATES

Jon-Michael Caldwell, MD
Cedars-Sinai Kerlan-Jobe Institute
UNITED STATES

Abigail Campbell, MD
Cedars-Sinai Kerlan-Jobe Institute
UNITED STATES

Tyler CarlLee, MD
OrthoCarolina Sports Medicine –
Shoulder & Elbow Fellowship
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Kristofer Chenard, MD
Lenox Hill Hospital
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Jacob Connelly, MD
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References: 1. Farr J, Gomoll AH, Yanke AB, Strauss EJ, Mowry KC, ASA Study Group. A Randomized Controlled Single-Blind Study Demonstrating Superiority of Amniotic Suspension Allograft Injection Over Hyaluronic Acid and Saline Control for Modification of Knee Osteoarthritis Symptoms. J Knee Surg. 2019;32(11):1143-1154.

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