Stimulates Muscle Growth
Supports Faster Recovery
Promotes Wound Healing
Vegan/ Lactose Free

TARGETED AMINO ACID SUPPLEMENTATION

- Evidence Based Peri-Operative Recovery Programs
- Designed for Orthopaedic Surgery
- Reduce Complications
- Improve Patient Outcomes

XRSCIENCE.ORG
Dear Orthopaedic Sports Medicine Fellows,

Welcome to the 24th International Sports Medicine Fellows Conference, March 22-23, 2024 in Carlsbad, California. The mission of the ISMF Conference is to educate, train, and motivate sports medicine fellows on complex and innovative concepts, technology, and techniques.

We sincerely appreciate the international experts who comprise the faculty, for giving their time to this conference. The ratio of fellows to faculty in the hands-on workshop is intended to provide each fellow with the opportunity to get personal instruction and experience.

Over the next few days, we hope you will take advantage of the opportunity to forge new relationships with your peers, the course faculty, and our industry partners.

We would like to recognize and thank our Platinum Sponsors, Vericel and Enovis, for their commitment to education. Please be sure to visit the exhibit booths and utilize the support of the industry representatives in the workshop.

Please join us for the Annual ISMF Conference Reception on Friday evening.

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.

Best Regards,

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

Ralph A. Gambardella, MD
*ISMF Conference Director*

Seth L. Sherman, MD
*ISMF Program Chair*

Wayne K. Gersoff, MD
*ISMF Workshop Chair*

Rachel M. Frank, MD
*ISMF Program Vice Chair*
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Seth Sherman, MD
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Program Chair

Wayne Gersoff, MD
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Rachel Frank, MD
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Conference Faculty

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Don Buford, MD
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William Bugbee, MD
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Thomas Carter, MD
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Brian Cole, MD, MBA
UNITED STATES

John Fulkerson, MD
UNITED STATES

Simon Goertz, MD
UNITED STATES

Reza Jazayeri, MD
UNITED STATES

Kristofer Jones, MD
UNITED STATES

John Lane, MD
UNITED STATES

Christian Lattermann, MD
UNITED STATES

Cassandra Lee, MD
UNITED STATES

Stephen Nicholas, MD
UNITED STATES

Jason M. Scopp, MD
UNITED STATES

Miho Tanaka, MD, PhD
UNITED STATES

Natasha Trentacosta, MD
UNITED STATES

Tim Wang, MD
UNITED STATES

Riley J. Williams, MD
UNITED STATES

Kenneth Zaslav, MD
UNITED STATES
### On-Demand Pre-Course Lectures

#### TREAT THE JOINT AS AN ORGAN

**Management of Concomitant Pathology**
- Jack Farr, MD

**Evolving ACL Concepts: Tibial Slope, Lateral Extra-Articular, Ramp Lesions**
- Kristofer Jones, MD

**Complex Meniscus Tears: Roots and Radials**
- Adam Yanke, MD

**Meniscus Restoration: Transplantation, Scaffolds, and Implants**
- Wayne K. Gersoff, MD

**Osteotomy in Cartilage Repair**
- Alan Getgood, MD, FRCS(Tr&Orth), DipSEM

#### JOINT PRESERVATION SURGICAL TECHNIQUES

**Joint Preservation Surgical Techniques: Microfracture, Microfracture Plus, Cartiform**
- Kai Mithoefer, MD

**Osteochondral Grafting - Who, When, Where, Why and How**
- Ralph A. Gambardella, MD

**Cell Based Cartilage Repair**
- Andreas Gomoll, MD

**Fresh Osteochondral Allografts for Cartilage Lesions in the Knee**
- William Bugbee, MD

**Understanding the Context, Causes, Treatment of Bone Marrow Lesions**
- Bert R. Mandelbaum, MD, DHL (hon)

**Cartiheal Agili-C Implant for Chondral and Osteochondral Defects**
- Kenneth R Zaslav, MD

**Stem Cells and Scaffolds**
- Alberto Gobbi, MD

#### SPECIAL CONSIDERATIONS

**Patellofemoral Cartilage Restoration**
- Seth L. Sherman, MD

**Articular Cartilage Lesions of the Hip - Assessment and Management Options**
- Michael Banffy, MD

**Special Considerations: Osteochondritis Dissecans**
- Marc Tompkins, MD

**Cartilage Repair in the Pediatric Population**
- Natasha Trentacosta, MD

**Orthobiologics for Knee Joint Preservation**
- Rachel M. Frank, MD

#### PATELLOFEMORAL INSTABILITY

**Newer Evidence in First Time Patellar Dislocation: Nonoperative vs Repair vs Reconstruction**
- Jack Farr, MD

**Clinical and Radiological Workup of Patellofemoral Instability**
- Christian Lattermann, MD

**Getting it Right: Medial Anatomy and Soft Tissue Stabilization**
- Seth L. Sherman, MD

**Getting it Right: Lateral Anatomy and Soft Tissue Balancing**
- Andreas Gomoll, MD

**Getting it Right: When to Add TTO and What Type**
- Sabrina M. Strickland, MD
Friday, March 22 · Grand Pacific Ballroom B

6:00 AM – 7:00 AM Badge Pick-Up & Breakfast

7:00 AM – 7:05 AM Welcome & Introductions

**Chairs:** Bert R. Mandelbaum, MD, DHL (hon)
Ralph A. Gambardella, MD
Seth L. Sherman, MD
Rachel M. Frank, MD
Wayne K. Gersoff, MD

7:05 AM – 8:00 AM Session I: Cartilage Restoration Lectures

7:05 AM – 7:15 AM Overview: How to Build a Cartilage Practice
*Bert R. Mandelbaum, MD, DHL (hon)*

7:15 AM – 7:25 AM Clinical and Radiographic Evaluation of Cartilage Patients
*Rachel M. Frank, MD*

7:25 AM – 7:35 AM Arthroplasty vs. Cartilage (Save vs. Replace)
*William Bugbee, MD*

7:35 AM – 7:45 AM Philosophy of Cartilage Repair: Determining How and When to Treat
*Christian Lattermann, MD*

7:45 AM – 7:55 AM Biologics for Knee Surgery & Osteoarthritis
*Don Buford, MD*

7:55 AM – 8:00 AM Discussion

8:00 AM – 10:40 AM Session II: Live Surgical Demonstrations

8:00 AM – 8:15 AM Meniscus All-Inside and Root Repair with FastFix 360 and NOVOSTITCH Pro
**Surgeon:** Kristofer Jones, MD
**Moderator:** Natasha Trentacosta, MD

8:15 AM – 8:30 AM Meniscus All-Inside Repair with SuperBall
**Surgeon:** Wayne K. Gersoff, MD
**Moderator:** Christian Lattermann, MD

8:30 AM – 8:45 AM Meniscus All-Inside Repair with Sutureloc and Fiberstitch 1.5
**Surgeon:** Rachel M. Frank, MD
**Moderator:** Tom Carter, MD

8:45 AM – 9:05 AM Meniscus Transplant with All-Inside Repair with Air(+) and Microfracture with MicroFX OCD
**Surgeon:** Wayne K. Gersoff, MD and Tom Carter, MD
**Moderator:** John Lane, MD

9:05 AM – 9:25 AM Osteochondral Autograft Transfer (OAT) with COR and Meniscus All-Inside Repair with TRUSPAN
**Surgeon:** Ralph A. Gambardella, MD
**Moderator:** Don Buford, MD

9:25 AM – 9:45 AM Particulated Autograft and IntraOsseous BioPlasty (IOBP) Procedure
**Surgeon:** Jason M. Scopp, MD
**Moderator:** Bert R. Mandelbaum, MD, DHL (hon)

9:45 AM – 10:05 AM Particulated Juvenile Allograft Cartilage (PJAC) with DeNovo NT
**Surgeon:** Tim Wang, MD
**Moderator:** Michael Banffy, MD

10:05 AM – 10:25 AM Aragonite Scaffold with Agili-C
**Surgeon:** Christian Lattermann, MD
**Moderator:** Kenneth R Zaslav, MD

10:25 AM – 10:40 AM Biologics
**Surgeon:** Don Buford, MD
**Moderator:** Bert R. Mandelbaum, MD, DHL (hon)

10:40 AM – 11:10 AM Exhibits Break
**Friday, March 22 • Grand Pacific Ballroom B**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session III: Patellofemoral Lectures</th>
<th>Time</th>
<th>Session IV: Lectures</th>
<th>Time</th>
<th>Session IV: Live Surgical Demonstrations</th>
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</thead>
</table>
| 11:10 AM – 12:00 PM | **Treatment Algorithm for PF Instability: Surgical Indications and Procedure Choice(s)**  
Miho Tanaka, MD | 1:00 PM – 1:10 PM | **Focal Arthroplasty for the Treatment of Early Onset Knee Arthritis: Addressing the Treatment Gap**  
Riley J. Williams III, MD | 1:10 PM – 3:10 PM | **MACI**  
**Surgeon:** Michael Banffy, MD  
**Moderator:** Cassandra Lee, MD |
| 11:10 AM – 11:20 AM | **Patellofemoral Joint Preservation in 2024**  
Seth L. Sherman, MD | 1:00 PM – 1:05 PM | **Osteochondral Allograft (OCA)**  
**Surgeon:** Simon Görtz, MD  
**Moderator:** William Bugbee, MD | 1:05 PM – 1:30 PM | **Tibial Tubercle Osteotomy**  
**Surgeon:** Seth L. Sherman, MD and John P. Fulkerson, MD  
**Moderator:** Miho Tanaka, MD |
| 11:20 AM – 11:30 AM | **Complications and How to Avoid Them**  
John P. Fulkerson, MD | 1:05 PM – 1:10 PM | **Patella Stabilization (MPFL/MQTFL)**  
**Surgeon:** John P. Fulkerson, MD  
**Moderator:** Miho Tanaka, MD | 1:10 PM – 1:30 PM | **Distal Femoral Osteotomy**  
**Surgeon:** William Bugbee, MD  
**Moderator:** Tim Wang, MD |
| 11:30 AM – 11:40 AM | **Discussion**                                                                                                           | 1:30 PM – 1:50 PM | **Patellar Stabilization (MPFL/MQTFL)**  
**Surgeon:** John P. Fulkerson, MD  
**Moderator:** Miho Tanaka, MD | 1:30 PM – 1:50 PM | **High Tibial Osteotomy**  
**Surgeon:** Rachel M. Frank, MD  
**Moderator:** Seth L. Sherman, MD |
| 11:40 AM – 11:45 AM |                                                                                                                             | 1:50 PM – 2:10 PM |                                                                                                           | 2:10 PM – 2:30 PM |                                                                                                           |
| 11:45 AM – 1:00 PM |                                                                                                                             | 2:30 PM – 2:50 PM |                                                                                                           | 2:50 PM – 3:10 PM |                                                                                                           |
| 1:00 PM – 1:10 PM | **Lunch**                                                                                                                | 3:00 PM – 3:40 PM | **Exhibits Break**                                                                                       | 3:10 PM – 3:40 PM |                                                                                                           |
| 1:10 PM – 3:10 PM | **Session IV: Lectures**                                                                                                | 3:40 PM – 5:05 PM | **Session V: Case Presentations**                                                                         | 3:40 PM – 3:45 PM | **Introduction & Break into Teams**  
**Moderators:** Seth L. Sherman, MD and Rachel M. Frank, MD |
| 1:10 PM – 1:30 PM | **Focal Arthroplasty for the Treatment of Early Onset Knee Arthritis: Addressing the Treatment Gap**  
Riley J. Williams III, MD | 3:45 PM – 4:05 PM | **Case I: Small Defect**  
Simon Görtz, MD | 3:45 PM – 4:05 PM | **Thank You and Adjourn**  
**Case I: Small Defect**  
Simon Görtz, MD |
| 1:30 PM – 1:50 PM | **Osteochondral Allograft (OCA)**  
**Surgeon:** Simon Görtz, MD  
**Moderator:** William Bugbee, MD | 4:05 PM – 4:25 PM | **Case II: Large Defect**  
Cassandra Lee, MD | 4:05 PM – 4:25 PM | **Annual ISMF Conference Reception (Dinner on own)**  
**Case II: Large Defect**  
Cassandra Lee, MD |
| 1:50 PM – 2:10 PM | **Patella Stabilization (MPFL/MQTFL)**  
**Surgeon:** John P. Fulkerson, MD  
**Moderator:** Miho Tanaka, MD | 4:25 PM – 4:45 PM | **Case III: Complex Reconstruction**  
Jason M. Scopp, MD | 4:25 PM – 4:45 PM |                                                                                                           |
| 2:10 PM – 2:30 PM | **Tibial Tubercle Osteotomy**  
**Surgeon:** Seth L. Sherman, MD and John P. Fulkerson, MD  
**Moderator:** Miho Tanaka, MD | 4:45 PM – 5:05 PM | **Case IV: Patellofemoral Focal Defect**  
Kristofer Jones, MD | 4:45 PM – 5:05 PM |                                                                                                           |
| 2:30 PM – 2:50 PM | **Distal Femoral Osteotomy**  
**Surgeon:** William Bugbee, MD  
**Moderator:** Tim Wang, MD | 5:05 PM – 5:25 PM | **Case V: Recurrent Patellar Instability**  
Miho Tanaka, MD | 5:05 PM – 5:25 PM |                                                                                                           |
| 2:50 PM – 3:10 PM | **High Tibial Osteotomy**  
**Surgeon:** Rachel M. Frank, MD  
**Moderator:** Seth L. Sherman, MD | 5:25 PM – 5:45 PM | **Case VI: Patellofemoral Complex Reconstruction**  
Christian Lattermann, MD | 5:25 PM – 5:45 PM |                                                                                                           |

**Thank You and Adjourn**
Saturday, March 23 · Grand Pacific Ballroom B

7:00 AM – 8:00 AM  Breakfast
8:00 AM – 9:00 AM  Session VI: Keynote Presentation
  8:00 AM – 8:10 AM  Welcome and Introduction
    Bert R. Mandelbaum, MD, DHL (hon)
  8:10 AM – 8:45 AM  Keynote Lecture: My 25-Year Journey for Cartilage Restoration: Lessons Learned
    Brian J. Cole, MD, MBA
  8:45 AM – 8:55 AM  Discussion
  8:55 AM – 9:00 AM  Workshop Overview & Instructions
    Wayne Gersoff, MD

9:00 AM – 9:30 AM  Exhibit Break & Transition to Workshop

Saturday, March 23 · Grand Pacific Ballroom A

9:30 AM – 1:00 PM  Hands-on Lab: Cartilage Restoration and Patellofemoral PROCEDURES
  Meniscal Repair, Microfracture, Osteochondral Autograft and Allograft, Meniscal Transplant, MACI, Tibial Tubercle Osteotomy, Lateral Retinaculum Lengthening, PMFL, HTO/DFO
    Stephen P. Abelow, MD  Michael Banffy, MD  Don Buford, MD  William Bugbee, MD  Thomas Carter, MD  Brian J. Cole, MD, MBA  Rachel M. Frank, MD  John P. Fulkerson, MD  Ralph A. Gambardella, MD  Wayne K. Gersoff, MD  Simon Goertz, MD  Kristofer Jones, MD  John G. Lane, MD  Christian Lattermann, MD  Cassandra Lee, MD  Bert R. Mandelbaum, MD, DHL (hon)  Stephan Nicholas, MD  Jason M. Scopp, MD  Seth L Sherman, MD  Miho Tanaka, MD  Natasha Trentacosta, MD  Tim Wang, MD  Kenneth R Zaslav, MD

1:00 PM – 2:00 PM  Lunch and Adjourn
APEX Biologix
Arcuro Medical
Arthrex
Bodycad
ConMed
DePuy Synthes Mitek
Enovis
Geistlich Surgery
ICARUS Medical
JRF Ortho
Kinamed
Moximed
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- Patellofemoral Foundation
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<tr>
<th>REGISTERED FELLOWS</th>
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<td>Mohammadreza Abbasian, MD</td>
<td>Jefferson Health Northeast</td>
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<td>Mohammad Abdelaal, MD</td>
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<td>Abdulaziz Ahmed, MD</td>
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<td>Hamad Allah, MD</td>
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<td>Dane Barton, MD</td>
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<td>David Beaton Comulada, MD</td>
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<td>Stephanie Boden, MD</td>
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<td>Van Krueger, MD, MBA</td>
<td>San Diego Arthroscopy and Sports Medicine</td>
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An implantable shock absorber for medial knee osteoarthritis

✓ Reduces knee load¹
✓ Relieves pain and improves function²
✓ Minimally invasive
✓ FDA breakthrough device³

The Future of Autologous Biologics

PRP Targets Inflammation
- 80.1% recovery of platelets
- 44.1% recovery of key neutrophils

Plasma Proteins Target Degradation
- Concentrate PPP to help capture A2M and sTNF

Analysis of Concentrated PRP by 1mL
✓ Super Concentrated 2.5mL Buffy Coat
✓ Flexibility and Control with Benchtop Press

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