OrthoBiologics:
Integrating Biologics and Clinical Ultrasound into Your Practice

- Hands-on Tissue Harvesting and Processing
- Ultrasound Guided Injection Laboratory

October 12–13, 2018
OLC Education and Conference Center
Rosemont, IL

FINAL PROGRAM
CO-CHAIRS

Brian J. Cole MD, MBA  
Jason L. Dragoo MD  
Rachel M. Frank MD

FACULTY

Adam W. Anz MD  
Tariq M. Awan DO  
Arnold Caplan MD  
Jack Farr II, MD  
Andrew W. Gottschalk MD  
Kamran Hamid MD, MPH  
Sadiq Haque DO  
Douglas F. Hoffman MD  
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Kristin Oliver MD  
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Michael Swartzon MD  
C. Thomas Vangsness Jr., MD  
Adam B. Yanke MD, PhD  
Eugene Yousik Roh MD  
Kenneth R. Zaslav MD

GENERAL INFORMATION

COURSE DESCRIPTION

AOSSM’s OrthoBiologics: Integrating Biologics and Clinical Ultrasound into Your Practice is the first course of its kind offered by a subspecialty organization. We are thrilled to have co-chairs, Brian J. Cole MD, MBA, Jason L. Dragoo MD and Rachel M. Frank MD, along with renowned faculty who are thought leaders in the research and clinical use of orthobiologics and regenerative medicine techniques.

The aim of the course is to provide orthopaedic surgeons with resources on how to properly use currently available biologics for treating musculoskeletal disorders. Through didactic lectures, case discussions, live and video demonstrations and hands-on practice with cadavers, the course will provide attendees with clinical decision-making skills, an overview of available technologies and regulations along with the best and most up-to-date evidence and methods to implement orthobiologics into your practice.

REGISTRATION HOURS

Friday, October 12  
2:00pm – 8:00pm

Saturday, October 13  
6:30am – 4:00pm

COMPLIMENTARY MEALS

Complimentary continental breakfast is served at the Hampton Inn and Suites for those staying at that hotel. Continental breakfast will be available Saturday morning at the OLC Education & Conference Center for those staying at the Hyatt and Westin hotels.

Dinner is provided on Friday and lunch on Saturday in the OLC Education & Conference Center.

LEARNING OBJECTIVES

Upon completion of this educational activity, participants should be able to:

- Discuss current indications for orthobiologics based on the published evidence
- Discuss the proper selection of biologics for specific treatments
- Explain the role of MSK ultrasound in clinical practice
- Recognize normal and abnormal ultrasound anatomy of the shoulder, elbow, hip, knee, and ankle
- Utilize ultrasound guided techniques for MSK injections
AMERICANS WITH DISABILITIES ACT
The AOSSM wishes to take those steps to ensure that no individual with a disability is excluded, denied services, segregated, or otherwise treated differently than other individuals because of the absence of auxiliary aids and services. If you require any of the auxiliary aids or services identified in the Americans with Disabilities Act in order to attend this program, please contact AOSSM prior to arrival at info@aossm.org.

PROGRAM INDEPENDENCE
AOSSM attests that the people responsible for the development of this live activity did so independently and were not influenced in any way by commercial supporters.

CONTINUING MEDICAL EDUCATION CREDIT
The American Orthopaedic Society for Sports Medicine (AOSSM) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.
AOSSM designates this live activity for a maximum of 12.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity specifically those that are in the didactic only portion.

DISCLAIMER
The material presented in this continuing medical education program is being made available by the AOSSM for educational purposes only. This material is not intended to represent the only methods or procedures appropriate for the medical situation discussed, but rather it is intended to present an approach, view, statement, or opinion of the faculty, which may be helpful to others who face similar situations. Neither the content (whether written or oral) of any course, seminar or other presentation in the program, nor the use of a specific product in conjunction therewith, nor the exhibition of any materials by any parties coincident with the program, should be construed as indicating endorsement or approval of the views presented, the products used, or the materials exhibited by the AOSSM, or its Committees, Commissions, or Affiliates. The AOSSM makes no statements, representations or warranties (whether written or oral) regarding the Food and Drug Administration (FDA) status of any product used or referred to in conjunction with any course, seminar or other presentation being made available as part of this course. Faculty members shall have sole responsibility to inform attendees of the FDA status of each product that is used in conjunction with any course, seminar or presentation and whether such use of the product is in compliance with FDA regulations.

DISCLOSURE STATEMENT
In accordance with the guidelines of the ACCME, it is the policy of the AOSSM that faculty and planners disclose to the learners all financial relationships during the past twelve months with any commercial interest (any entity producing, marketing, reselling, or distributing health care goods and services consumed by, or used on, patients). Any and all disclosures will be provided in the final program that is distributed at the meeting. In accordance with AOSSM policy, faculty participation is predicated upon timely submission and review of AOSSM disclosures. Non-compliance results in faculty being stricken from the program.
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1370 Creekside Blvd.
Naples, FL 34108
P: (800) 933-7001
arthrex.com

Arthrex is a global medical device company and leader in new product development and medical education in orthopedics. With a corporate mission of Helping Surgeons Treat Their Patients Better™, Arthrex has pioneered the field of arthroscopy and develops more than 1,000 innovative products and procedures each year.

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20120 Milano, Italy
understandlipogems.com

Lipogems' vision is to bring responsible, effective medical technologies to physicians and patients—and to establish the Lipogems system as a mainstream solution. Lipogems strives to provide physicians and patients with adipose tissue solutions to help maintain or restore patient lifestyles and to improve quality of life and recovery times.

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P: (425) 951-1200
sonosite.com

We recognize the value of point-of-care ultrasound better than anyone else, because it's all we do. FUJIFILM SonoSite is an innovator and leader in point-of-care ultrasound. Headquartered near Seattle, our portable, compact systems are expanding the use of ultrasound across the clinical spectrum by bringing high-performance ultrasound to the point of patient care.
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The Complete Solution for Regenerative Medicine, BioRich Medical is a national distributor of a comprehensive line of premier biologic devices and tissue. Our high quality, efficient and customizable products, including the autologous scaffold, ProPlaz, offer improved options and solutions. The BioRich team, with 20 years of experience in biologics, provides personalized client education and training, technical and marketing support.

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JRF Ortho specializes in providing orthopedic surgeons with the highest viability, most widely available cartilage solutions in the industry, helping patients regain movement, and improve their quality of life.

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Marietta, GA 30062-2254
P: (770) 651-9100
mimedx.com

MiMedx® is a biopharmaceutical company developing, manufacturing and marketing regenerative biologics utilizing human placental allografts for multiple sectors of healthcare.

“Innovations in Regenerative Medicine” is the framework behind their mission to provide physicians with products and tissues to help the body heal itself.

**ON FOUNDATION**
Kapellplatz 1
CH-6004 Luzern
Switzerland
+ 41 76 582 91 05
on-foundation.org

The ON Orthoregeneration Network is an independent, international foundation in the field of orthopedic tissue regeneration driving the development and understanding of new treatment strategies for the well-being of the patients. They set quality standards, spread unbiased knowledge about orthoregeneration and link young professionals, experts and academic organizations all over the world. They believe that research is the engine of development and that linking and educating passionate young professionals is the way to advance the field of orthoregeneration significantly.

**REGENACELL THERAPY, INC**
2328 Saddleback Dr.
Castle Rock, CO 80104
P: (774) 281-2525
regenacelltherapy.com

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Providing Resources and Products Nationwide to expand the use of Autologous Cellular Biologics, Marrow Cellution™
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Reinvent Biologics is the home of the Genius Concentration System. The revolutionary vertical ‘cyclone’ design of the Genius Concentration System puts a new “spin” on the centrifuge. A 90-second-process delivers consistent benchmark results with a small footprint. In the rapidly advancing field of biologics and cell-based therapies, we invite you to review and consider the Genius Concentration System as an alternative to the complex and time consuming traditional centrifuge.

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Lakewood, CO 80215-4440
P: (303) 231-4691
terumobct/harvesttech.com

Terumo BCT is a global leader in blood component, therapeutic apheresis, cellular and autologous biologic technologies. They believe in the potential of cells to do even more for patients than they do today. This belief inspires them to share their expertise in cell separation and collaborate with customers to advance the practice of autologous biologic technologies together.

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Zimmer Biomet is a global leader in musculoskeletal healthcare and the design, manufacturing and marketing of orthopaedic reconstructive products.

PARTNERSHIP SUPPORT
AOSSM would like to gratefully acknowledge our foundation partner, ON Orthoregeneration Network for their support of this course.

IN-KIND SUPPORT
AOSSM gratefully acknowledges the following companies for providing in-kind support in the form of equipment and supplies for this course:

- Arthrex
- Lipogems
- FujiFilm Sonosite
- Terumo BCT
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<tr>
<td>2:45pm</td>
<td>Welcome / Opening Comments</td>
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<td>OrthoBiologics at 30,000 feet—What Are They?</td>
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<td>3:05pm</td>
<td>Overview of Regulatory Process</td>
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<td>3:20pm</td>
<td>The Inflammatory and Healing Process—Leveraging Biology with OrthoBiologics</td>
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<td>3:35pm</td>
<td>Implementing OrthoBiologics into Practice</td>
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<td>3:50pm</td>
<td>Question and Answer</td>
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<td>4:05pm</td>
<td>Near-term and Pharmacologic Options</td>
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<td>4:20pm</td>
<td>PRP</td>
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<td>Stem Cell Biology and Overview</td>
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<td>BMA / BMC</td>
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<td>Adjunct to ACL Management</td>
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<td>Adipose</td>
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<td>5:30pm</td>
<td>Amnionic</td>
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<td>5:45pm</td>
<td>Orthobiologics and Cartilage Repair: How Are They Used?</td>
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<td>6:00pm</td>
<td>Question and Answer</td>
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<td>6:10pm</td>
<td>Break with Pizza &amp; Beer</td>
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**ORTHOBIOLOGICS CASE DISCUSSIONS**

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<tr>
<th>TIME</th>
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<tbody>
<tr>
<td>6:40pm</td>
<td>Knee Osteoarthritis</td>
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<td>6:50pm</td>
<td>Lateral Epicondylitis</td>
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<td>7:00pm</td>
<td>Patellar Tendonitis</td>
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<td>7:10pm</td>
<td>Hamstring Strains and Muscle Injury: PRP, PPP, Resolving the Controversy</td>
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<td>Achilles Tendinitis</td>
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<td>7:50pm</td>
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SATURDAY, OCTOBER 13
7:00am–4:00pm

7:00am  Daily Schedule Overview
        Brian J. Cole MD, MBA
        Jason L. Dragoo MD

VIDEO TECHNIQUE CORNER (HOW YOU DO IT)
Moderator  Jack Farr II, MD
7:05am   PRP Techniques
        Allan Mishra MD
7:15am   PRP and Muscle Injection Technique
        Kristin Oliver MD
7:25am   BMA / BMC Technique: ASIS
        Brian J. Cole MD, MBA
7:35am   BMA / BMC Technique: PSIS
        Kristin Oliver MD
7:45am   Amniotic
        Kevin D. Plancher MD
7:55am   Treatment of Subchondral Bone: BMA / BMC vs. Subchondroplasty
        Jack Farr II, MD
8:05am   Question and Answer
        All Faculty
Moderator  Adam B. Yanke MD, PhD
8:15am   Live Demonstration: Arthroscopic Harvest of Adipose Tissue
        Jason L. Dragoo MD
8:30am   Video Technique: Adipose–Lipogems / Liposuction Harvest
        Claude T. Moorman III, MD
8:40am   Video Technique: Adipose–Syringe Emulsification
        Jason L. Dragoo MD
8:50am   Break

BIOLOGICS LAB
9:00–10:45am
Cadaver Lab:  Adipose Derived Harvest and Processing Techniques
        Claude T. Moorman III, MD
Lab Leader:  Technique 1: Lipospiration
        Technique 2: Adiprep / Syringe Emulsification / Lipospiration

Lab Leader:  Kristin Oliver MD
10:15am   Technique 3: BMA / BMC Aspiration Techniques of the Anterior and Posterior Iliac Crest
10:45am   Break (boxed lunches in auditorium)

ULTRASOUND LECTURES
Moderator  Kyle Pilz PA
11:15am   Ultrasound Theory and Technology
        Douglas F. Hoffman MD
11:30am   Ultrasound Techniques: Shoulder / Elbow / Knee / Ankle / Hip Injection Intra-articular
        Douglas F. Hoffman MD
12:20pm   Break

ULTRASOUND DIAGNOSTICS / ULTRASOUND GUIDED INJECTIONS LAB
12:30–4:00pm
The goal of this lab is to allow attendees to familiarize themselves with ultrasound guided injections in the following areas (as time permits):

Shoulder
- AC Joint
- Biceps
- Subacromial
- Intra-articular Shoulder Injections
  Live models available for imaging of the shoulder joint

Elbow
- Intra-articular
- Lateral Epicondyle

Hip
- Intra-articular (anterior recess)

Knee
- Intra-articular
- Infrapatellar

Ankle
- Intra-articular
FACULTY / PLANNER DISCLOSURE DECLARATION

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- Andrews Research and Education Foundation

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American Journal of Orthopedics
American Journal of Sports Medicine
Arthroscopy
Cartilage
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Journal of the American Academy of Orthopaedic Surgeons: Editor only
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- Beckman Dickenson
- Biomet
- Breg
- CONMED Linvatec
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- Genzyme
- Harvest Technologies
- Joint Restoration Foundation (JRF)
- KCRN Research
- Moximed
- Ossur
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- RNL Bio
- Sideline Sports Docs, LLC
- Zimmer
- CONMED Linvatec
- Linvatec
- Ossur
- RTI
- Zimmer
- Emcyte
- Harvest Technologies
- RTI
- American Journal of Sports Medicine
- AAOS
- American Orthopaedic Society for Sports Medicine
- Arthroscopy Association of North America
- PAC 12 Athletic Conference

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Sadiq Haque, DO
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Kristin Oliver, MD  
Arthrex, Inc.  
Arthrex, Inc.  
Arthrex, Inc.  
Smith & Nephew Orthopaedics  
Royalties  
Speakers Bureau/Paid  
Paid Consultant  
Unpaid Consultant

Alberto Panero, DO  
Arthrex, Inc.  
TENEX  
Arthrex, Inc.  
Other. Sports Review Journal  
Speakers Bureau/Paid  
Speakers Bureau/Paid  
Paid Consultant  
Editorial/Governing Board

Kyle Pilz, MMS, PA-C  
Nothing To Disclose
Kevin D. Plancher, MD, MPH

- Flexion
- Maine Orthopaedic Review
- Miller Orthopaedic Review
- Southern Orthopaedic Association
- Pacira
- Recro Pharma
- Smith & Nephew
- Anika Therapeutics
- Oxford Immunotec
- Sam Sport
- American Journal of Sports Medicine
- Arthroscopy: The Journal of Arthroscopic & Related Surgery
- Clinical Orthopaedics and Related Research
- DT Med Surg Ortho Cases
- Journal of Orthopaedic Surgery & Research
- Operative Techniques in Sports Medicine
- Techniques in Orthopaedics
- American Academy of Orthopaedic Surgeons
- American Association of Hip and Knee Surgeons
- American Orthopaedic Society for Sports Medicine
- American Shoulder and Elbow Surgeons
- Arthritis Foundation
- Arthroscopy Association of North America
- Eastern Orthopaedic Association
- International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine
- Medical Society of the State of New York
- NY County Medical Society
- Orthopaedic Foundation for Active Lifestyles
- Orthopaedic Research and Education Foundation
- Orthopaedic Summit Evolving Techniques

Eugene Yousik Roh
Nothing To Disclose

Seth L. Sherman, MD

- Arthrex, Inc
- Ceterix Orthopaedics
- CONMED Linvatec
- GLG Consulting
- Moximed
- Vericel
- Flexion Therapeutics
- Arthrex, Inc
- American Journal of Orthopedics
- Arthroscopy
- ACL Study Group
- American Orthopaedic Society for Sports Medicine
- Arthroscopy Association of North America
- International Cartilage Regeneration & Joint Preservation Society
- International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine

Michael Swartzon, MD

- Arthrex, Ultrasound
- Ossur
- Other. Wife works for a pathology lab called CRL.
- Arthrex, Inc. Ultrasound research and development.
- Other Florida Academy of Family Physicians
C. Thomas Vangsness, Jr., MD
   Keralink
   Carthronix
   Lipogems
   Journal of Knee Surgery

Adam Blair Yanke, MD, PhD
   JRF Ortho
   Arthrex, Inc
   NuTech

Kenneth R. Zaslav, MD
   Lifenet Inc.
   Vericel
   Cartiheal Inc.
   Lifenet
   Cartiheal Inc.
   Orthospace Inc.
   Active Implants
   Aesculap/B.Braun
   Organogenesis
   Zimmer
   International Cartilage Repair Society

   Paid Employee
   Stock
   Other Financial/Material Support
   Editorial/Governing Board

   Paid Consultant
   Research Support

   Speakers Bureau/Paid
   Paid Consultant
   Stock
   Speakers Bureau/Paid
   Paid Consultant
   Stock
   Research Support
   Research Support
   Research Support
   Board/Committee
### UPCOMING MEETINGS

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<tr>
<th>Event</th>
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<th>Location</th>
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<tr>
<td>Advanced Team Physician Course</td>
<td>November 29 – December 2, 2018</td>
<td>Charleston, SC</td>
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<tr>
<td>20th Annual AAOS / AOSSM / AANA Sports Medicine Course</td>
<td>January 30 – February 3, 2019</td>
<td>Park City, UT</td>
<td>Register at aaos.org</td>
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<tr>
<td>2019 Specialty Day</td>
<td>March 16, 2019</td>
<td>Las Vegas, NV</td>
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<td>AOSSM / ISAKOS Osteotomies Around the Knee: From Ligament Insufficiency to Cartilage / Meniscus Pathologies and Arthritis</td>
<td>April 12 – 13, 2019</td>
<td>OLC Education and Conference Center Rosemont, IL</td>
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<tr>
<td><strong>AOSSM UPCOMING ANNUAL MEETINGS</strong></td>
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<td><strong>2019</strong></td>
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<tr>
<td><strong>Annual Meeting</strong></td>
<td>July 11 – 14, 2019</td>
<td>Boston, MA</td>
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<td><strong>2020</strong></td>
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<td><strong>Annual Meeting</strong></td>
<td>July 9 – 12, 2020</td>
<td>Seattle, WA</td>
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<td><strong>2021</strong></td>
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<tr>
<td><strong>Annual Meeting</strong></td>
<td>July 8 – 11, 2021</td>
<td>Music City Center</td>
<td>Nashville, TN</td>
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Learn more at SportMed.org