**D-Day, September 26, 2018**

### COMBINED SESSION

**8:00 - 8:10**
**INTRODUCTION, Laura Bancroft, MD, FAcR**

**8:10 - 10:00**
Opening Session: Bone Marrow
**Moderators: Lawrence White, MD, Michael Tuite, MD**

**8:10 - 8:35**
Bone Marrow Changes Related to Injury: Anatomy, Pathophysiology, and Terminology
**Donald Resnick, MD**

**8:35 - 8:55**
Bone Marrow Histopathology, for Correlation with Radiology
**Julie Fanburg-Smith, MD**

**10:00 - 10:10**
**BREAK**

**10:10 - 12:00**
**Hot Topics**
**Moderators: Michael Recht, MD, Patrick Omoumi, MD, PhD**

**10:30 - 10:45**
AI and MSK Radiology: What is its Role?
**Michael Recht, MD**

**10:45 - 11:00**
**Garry Gold, MD**

**11:00 - 11:15**
MSK MR Imaging: Have We Gone Overboard with Resolution and Image Quality at the Expense of Cost and Speed?
**Naveen Subbas, MD**

**11:15 - 11:30**
3D Printing and vr/ar: Do They Have a Role in MSK Imaging?
**Benjamin Howe, MD**

**11:30 - 11:45**
Resurgence of MSK CT Imaging?
**Kambiz Motamedi, MD**

**11:45 - 12:00**
Will Metal Artifact Reduction, Low Dose and Dual Energy Imaging Lead to a Resurgence of MSK CT Imaging?
**Hugue Ouellette, MD**

**12:00 - 13:30**
**LUNCH**

**13:30 - 15:00**
Imaging Sports Injury of the Elbow
**Moderators: Victor Cassar-Pullicino, MD, Simon Ostlere, FRcR**

**13:30 - 13:50**
Mechanics and Injury of the Throwers Elbow
**Mark Anderson, MD**

**13:50 - 14:10**
Biceps and Triceps, Anatomy and Pathology, Does Knowing the Anatomy Matter?
**David Fessell, MD**

**14:10 - 14:30**
Elbow Ligament Anatomy, Injury Patterns and Lesion Visualization
**Lynne Steinbach, MD**

**14:30 - 14:45**
Epicondylitis, Imaging Guided Diagnosis and Treatment
**Philip O’Connor, MD**

**14:45 - 15:00**
Sports Injury of the Pediatric Elbow
**Kathryn Stevens, MD, BS (hons)**

**15:00 - 15:30**
**BREAK**

**15:30 - 17:00**
Wrist & Hand Sports Injuries: State of the Art Imaging
**Moderators: Hiroshi Yoshioka, MD, PhD, Jean-Denis Laredo, MD**

**15:30 - 15:45**
MRI: State of the Art Diagnosis of Sports Injuries
**Michael Tuite, MD**

**15:45 - 16:00**
Ultrasound in Hand and Wrist Sports Diagnosis: Advantages, Limitations and Intervention
**James Teh, MBBS, MRCP, FRcR**

**16:00 - 16:15**
Post-op Hand and Wrist MRI in Sports
**Robert Campbell, MD**

**16:15 - 16:30**
Sports Specific: Wrist Golf Injuries
**Bruce Forster, MD, MSc, FRcPC**

**16:30 - 16:45**
Sports Specific: Hand and Wrist Climbing Injuries
**Andrea Rosskamp, MD**

**16:45 - 17:00**
Sports Specific: Hand and Wrist Tennis Injuries
**Jenny Bencardino, MD**

### MUSCULOSKELETAL DISEASE

**10:00 - 10:30**
**BREAK**

**10:30 - 12:00**
**MSK Intervention**
**Moderators: Nicolas Amoretti, MD, Antonia Barile, MD**

**10:30 - 10:45**
PRP: What is it Good For?
**Jon Jacobson, MD**

**10:45 - 11:00**
Stem Cells: Ready for Prime Time?
**Stacy Smith, MD**

**11:00 - 11:15**
Can We Treat the Joint?
**Marnix Van Holsbeeck, MD**

**11:15 - 11:25**
US Guided Percutaneous Treatment for Trigger Finger and Carpal Tunnel Syndrome
**David Petrover, MD**

**11:25 - 11:35**
Joint and Soft Tissue Injections: US vs Fluoroscopic Guidance
**Georgina Allen, FRcR, MScSEM**

**11:35 - 11:45**
Spine Procedures: CT vs. Fluoro
**Luca Sconfienza, MD, PhD**

**11:45 - 12:00**
Palliative Cementplasty
**Peter Munk, MDCM, FRcPC, FSIR**

**12:00 - 13:30**
**LUNCH**

**13:30 - 15:00**
**MSK Imaging Dilemmas: Evidence-Based Recommendations**
**Moderators: Laura Bancroft, MD, FACR, Klaus Bohndorf, MD**

**13:30 - 13:45**
MSK Interventions for Tissue Healing: What Should We Be Injecting and When?
**Kenneth Lee, MD**

**13:45 - 14:00**
Subspecialty MSK Tele radiology: Who Does it Help and Hurt?
**Andrew Sonin, MD, FAcR**

**14:00 - 14:15**
Early Rheumatoid Arthritis: When to Use MR or US?
**Andrea Klauser, MD**

**14:15 - 14:30**
Screening for Osteoporosis: Who to Examine and How?
**Wilfred Peh, MD**

**14:30 - 14:45**
Follow-up After Treatment of Soft Tissue Sarcomas: How and How Often?
**Marc-André Weber, MD, MSc**

**14:45 - 15:00**
Suspected Diabetic Foot Infections: What Imaging Affects Management?
**Mark Schweitzer, MD**

**15:00 - 15:30**
**BREAK**

**15:30 - 17:00**
Metabolic and Systemic - (SAM)
**Moderators: Anastasios Fotiadou, MD, PhD, Alberto Bazzocchi, MD, PhD**

**15:30 - 15:45**
Osteoporosis: Pearls and Pitfalls
**Giuseppe Guglielmi, MD**

**15:45 - 16:00**
Sarcopenia: Past, Present, and Future
**Robert Boutin, MD**

**16:00 - 16:15**
Adiposity: Musculoskeletal Implications
**Miriam Bredella, MD**

**16:15 - 16:30**
Renal Disease of Bone
**Leon Lenchik, MD**

**16:30 - 16:45**
Drug Induced Musculoskeletal Disorders
**Michael Richardson, MD**

**16:45 - 17:00**
Atypical Infections
**Johnny Monu, MB, BS, MS**
SPORTS MEDICINE IMAGING

8:00 - 10:00  Shoulder: ISS Meets DGMSR
Moderators: Andreas Heuck, MD, Klaus Bohndorf, MD

8:00 – 8:15  Rotator Cuff: Current Concepts in Anatomy and Classification
Simone Waldt, MD
8:15 – 8:30  Biceps Pulley and Rotator Interval
Rainer Schmitt, MD, PhD
8:30 – 8:45  External and Internal Impingement Syndromes
Andreas Heuck, MD
8:45 – 9:00  Shoulder Instability
Karl-Friedrich Kreitner, MD
9:00 – 9:15  Calcific Tendinitis
Christian Glaser, MD
9:15 – 9:30  Pectoralis, Latissimus and Teres Major
Marco Zanetti, MD
9:30 – 9:45  Sick Scapula Syndrome, Scapular Impingement and Periscapular Bursitis
Christoph Schaefeller, MD
9:45 – 10:00  Post-Operative Shoulder
Reto Sutter, MD

10:00:10:30  BREAK

10:30 – 12:00  Trauma/Pressure Exposures (ARS)
Moderators: Howard Galloway, FRANZCR, Thomas Pope, Jr, MD, FACR

10:30 – 10:45  Upper Extremity Stress Injuries
Lionel Pesquer, MD
10:45 – 11:00  Axial Skeleton Stress Injuries
Radhesh Lalam, MBBS, MRCS, FRCR
11:00 – 11:15  Sacral Stress Fractures
Mary Hochman, MD
11:15 – 11:30  Hip and Knee Stress Injuries How Did I Break My Hip Running?
Mini N. Pathria, MD
11:30 – 11:45  Tibia Stress Injuries in Athletes and Military Recruits
Nogah Shabshin, MD, MBA, BSc
11:45 – 12:00  Ankle and Foot How Did I Break My Foot Sightseeing in Berlin?
Daniel M. Walz, MD

12:00 – 13:30  LUNCH

13:30 – 15:00  Muscle Injury, Edema and Beyond
Moderators: Atul Taneja, MD, PhD, Mini N. Pathria, MD

13:30 – 13:45  Patterns of Muscle Abnormalities on MR Imaging
Robert Boutilin, MD
13:45 – 14:00  Imaging of Muscle Trauma: Role of MR and US
Michel Crema, MD
14:00 – 14:15  Muscle Injuries of the Hip and Thigh
Marc-André Weber, MD, MSc
14:15 – 14:30  Grading of Muscle Injury: Current Concepts
Steven James, MB, ChB, FRCR
14:30 – 14:45  Skeletal Muscle Imaging in Children
Hee Kyung Kim, MD
14:45 – 15:00  Novel Imaging Techniques for Assessment of Muscle
Jim Wu, MD

15:00 – 15:30  BREAK

15:30 – 17:00  Core Curriculum: Sports Injuries in the Pelvis & Trunk
Moderators: David Rubin, MD, Antoine Moraux, MD

15:30 – 15:45  Groin and Trunk Muscle Injuries: Imaging Approach
Eugene McNally, MD
15:45 – 16:00  Acute Athletic Groin Injuries: Flexors and Adductors
James Linklater, MBBS
16:00 – 16:15  Lateral Pelvic and IT Band Injuries
Miriam Bredelho, MD
16:15 – 16:30  Pelvic Apophysal Injuries
Julia Crim, MD
16:30 – 16:45  Nerve Blocks & Injections for Pelvic Sports Injuries
Jan Fritz, MD
16:45 – 17:00  Thoracic & Abdominal Wall Muscle Injuries Outside the Groin
Lawrence White, MD

MUSCULOSKELETAL DISEASE

8:00 – 10:00  Arthritis for Residency and Beyond
Moderators: Anke Jurik, DMSc, Neils Egund, MD, DMSc

8:00 – 8:15  Hands and Feet Pitfalls for Diagnosis
Anne Cotten, MD
8:15 – 8:30  What Crystals Do and What They Look Like
George Herrmann, MD
8:30 – 8:45  What Does MRI Tell Us About the Pathophysiology of Rheumatoid Arthritis
Monique Reijners, MD, PhD
8:45 – 9:00  What Does MRI Tell Us About the Pathophysiology of Osteoarthritis
Ali Guermazi, MD, PhD
9:00 – 9:15  Synovial Masses Presenting as Monoarthritis
Iris-Melanie Noebauer-Huhmann, MD
9:15 – 9:30  CRMO, SAPHO and SCCH: Unravelling the Rheumatological Alphabet Soup
Robert Lambert, MB, FRCPC
9:30 – 9:45  MRI of the Axial Spine: When is it Spondyloarthritis and When is it Not?
Winston Rennie, MD, MSc(SEM), FRCR
9:45 – 10:00  Sacroiliac Joint: Degenerative Versus Inflammatory Arthritis
Jean-Denis Laredo, MD

10:00 – 10:30  BREAK

10:30 – 12:00  Spine Imaging (SAM)
Moderators: David Wilson, FRCP, FRCR, E. Remide Arkun, MD

10:30 – 10:45  CT Spine Imaging Pitfalls
Tudor Hughes, FRCR
10:45 – 11:00  MR Spine Imaging Pitfalls
Marcelo De Abreu, MD
11:00 – 11:15  Imaging of Spinal Trauma
Lee Bennett, MD, MA, MBA
11:15 – 11:30  Spine Infection
Suphaneevan Jaovisidha, MD
11:30 – 11:45  Osteoporotic Fractures
James Griffith, MB, BCh, BAQ, MD
11:45 – 12:00  Degenerative Disk Disease
Prudence Tyrrell, MD

12:00 – 13:30  LUNCH

13:30 – 15:00  Rapid Fire ST Tumors (ARS)
Moderators: Hassan Dous MD, MRCP, FRCR, Frederic LeCouvot, MD

13:30 – 13:40  What's New in the WHO Classification in Soft Tissue Tumors
Julie Fanburg-Smith, MD
13:40 – 13:50  High Water Content Masses: When Do I Need to Worry?
Mark J. Kransdorf, MD
13:50 – 14:00  Benign versus Malignant Peripheral Nerve Sheath Tumors:
Radiologic Rules of the Road
Laura Fayad, MD
14:00 – 14:15  Lipoma vs. Well-Differentiated Liposarcoma:
Imaging Distinction
Francesca D. Beaman, MD
14:15 – 14:30  Surgical Implications of Lipoma vs. Well-Differentiated Liposarcoma:
What are the Options?
Carol D. Morris, MD, MS
14:30 – 14:40  Biopsy Technique: Does it Matter Where I Biopsy?
Jeffrey Peterson, MD
14:40 – 14:50  Soft Tissue Tumor Local Recurrence: Tricks of the Trade
David M. Panicek, MD
14:50 – 15:00  Imaging of Synovial Neoplasms
Hillary W. Garner, MD

15:00 – 15:30  BREAK

15:30 – 17:00  Rapid Fire Bone Tumors (ARS)
Moderators: Violeta Vasilevska Nikodinovska MD, PhD, MSc, Paul O'Donnell, MBBS, FRCR, FRCR

15:30 – 15:40  What's New in the WHO Classification in Bone Tumors?
S. Fiona Bonar, MB, FRCPath, FRCPA
Leanne L. Seeger, MD, FACR
15:50 – 16:00  Whole Body MRI for Tumor Imaging
Koenraad Verstraete, MD
16:00 – 16:10  Enchondroma vs. Chondrosarcoma: Imaging Criteria
Hakan Ilaslan, MD
16:10 – 16:20  Enchondroma vs. Chondrosarcoma: Surgical Perspective
Violeta Vasilevska Nikodinovska MD, PhD
16:20 – 16:30  Update on Multiple Myeloma
Daniel Vanel, MD
16:30 – 16:40  Imaging of Surface Bone Tumors
Daniel Vanel, MD
16:40 – 16:50  Bone Tumor or Not That is the Dilemma
Rainer Erelmann, MD
16:50 – 17:00  Vertebral Bone Marrow: Metastasis or Mimicker
Andrea Baur-Melnyk, MD
### DAY 3  FRIDAY, SEPTEMBER 28, 2018

#### SPORTS MEDICINE IMAGING

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:00 - 10:00</td>
<td>Knee</td>
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<td>Moderators: Ian Beggs, FRCPE, FRCR</td>
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<td>Andrea Rosskopf, MD</td>
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<td>8:00 – 8:15</td>
<td>Bone/OCD Klaus Bohndorf, MD</td>
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<td>8:15 – 8:30</td>
<td>Cruciate Ligaments Nancy Major, MD</td>
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<td>8:30 – 8:45</td>
<td>Post-Op ACL Philip Robinson, FRCR</td>
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<td>8:45 – 9:00</td>
<td>Menisci Andrew Grainger, BM, BS, MRCP, FRCR</td>
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<td>9:00 – 9:15</td>
<td>Soft Tissue, Nerves, and Vascular Structures John Crues, MD, MS</td>
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<td>9:15 – 9:30</td>
<td>Extensor Mechanism David Rubin, MD</td>
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<td>9:45 – 10:00</td>
<td>Lesions About the Proximal Tibiofibular Joint Josef Kramer, MD</td>
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<td>10:00 - 10:30</td>
<td>BREAK</td>
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<td>10:30 - 12:00</td>
<td>Hip</td>
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<td>Moderators: Suzanne Anderson, MD, PhD</td>
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<td>Hema Choudur, MBBS, FRCPC</td>
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<td>10:30 – 10:45</td>
<td>Hip Joint MRI Assessment: Pitfalls, Variation and Myths Bruno Vande Berg, MD, PhD</td>
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<td>10:45 – 11:00</td>
<td>Pediatric Hip Imaging Filip Vanhoenacker, MD, PhD</td>
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<td>11:00 – 11:15</td>
<td>MRI of FAI: How to Assess and What to Report Donna Blankenbaker, MD</td>
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<td>11:30 – 11:45</td>
<td>Post-op Hip MRI: Differentiating Normal from Abnormal Tobias Dietrich, MD</td>
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<td>11:45 – 12:00</td>
<td>Hip Intervention: Its Role in Diagnosis and Treatment Luca Sconfienza, MD</td>
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<td>12:00 - 13:30</td>
<td>LUNCH</td>
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<td>13:30 - 15:00</td>
<td>Foot/Ankle: An MRI Alone Will Make the Diagnosis - Or Will It?</td>
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<td>Moderators: Joseph Craig, MB, ChB, Charles Bush, MD</td>
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<td>13:30 – 13:45</td>
<td>Lateral Ankle Ligament Anatomy and Injuries Maryam Shahabpour, MD</td>
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<td>13:45 – 14:00</td>
<td>Medial Sided Ankle Pain: Deltoid Ligament and Beyond Julia Crim, MD</td>
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<td>14:00 – 14:15</td>
<td>Midfoot Sprains - More than Just the Lisfranc Ligament Carolyn Sofka, MD</td>
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<td>14:15 – 14:30</td>
<td>Making a Break For It: Tendon Subluxation/Dislocation Ramy Mansour, MD</td>
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<td>14:30 – 14:50</td>
<td>Turf Toe - Not Just for American Football Players Hilary Umans, MD</td>
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<td>14:50 – 15:00</td>
<td>Ultrasound of Acute Foot and Ankle Sports Injuries Miha Taljanovic, MD, PhD</td>
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#### MUSCULOSKELETAL DISEASE

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<tr>
<th>Time</th>
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<tr>
<td>8:00 - 10:00</td>
<td>Imaging Orthopedic Hardware</td>
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<td>Moderators: Thomas LeCorroller, MD, PhD</td>
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<td>Theodore Miller, MD</td>
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<td>8:00 – 8:15</td>
<td>MR Imaging of Metal: How To Do It</td>
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<td>8:15 – 8:30</td>
<td>CT Scanning of Metal: How To Do It</td>
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<td>8:30 – 9:00</td>
<td>Multimodality Imaging of Hip and Knee Replacements Theodore Miller, MD, FACR</td>
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<td>9:00 – 9:20</td>
<td>Imaging of Shoulder Replacements Alice Ha, MD, MS</td>
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<td>9:20 – 9:40</td>
<td>Imaging of Ankle Replacements</td>
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<td>9:40 – 10:00</td>
<td>Plates and Screws - What Do They Do? Marcelo Bordalo-Rodrigues MD, PhD</td>
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<td>10:00 - 10:30</td>
<td>BREAK</td>
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<td>10:30 - 12:00</td>
<td>Imaging Peripheral Nerves with Detailed Anatomy and Lesion Characterization</td>
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<td>Moderators: Mario Maas, MD, PhD</td>
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<td>Avneesh Chhabra, MD</td>
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<td>10:30 – 10:55</td>
<td>Ultrasound of the Brachial Plexus, Pathology and Technique Made Easy Carlo Martinoli, MD</td>
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<td>11:05 – 11:20</td>
<td>Peripheral Nerve Anatomy and Lesions in the Ankle and Foot Jean Luc Drape, MD</td>
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<td>11:20 – 11:30</td>
<td>MR Neurography of Extra-Spinal Sciatica John Carrino, MD, MPH</td>
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<td>11:30 – 11:45</td>
<td>Imaging Nerve Entrapment Syndromes of the Elbow and Forearm Catherine Petchprapa MD</td>
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<td>11:45 – 12:00</td>
<td>Peripheral Nerve Lesions Around the Shoulder, How to Make the Imaging Diagnosis? Ronald Adler, MD, PhD</td>
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<td>12:00 - 13:30</td>
<td>LUNCH</td>
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<tr>
<td>13:30 - 15:00</td>
<td>Cartilage/Bone (SAM)</td>
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<td>Moderators: Garry Gold, MD, Jung-Ah Choi, MD</td>
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<td>13:30 – 13:45</td>
<td>Normal Cartilage Structure Richard Kijowski, MD</td>
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<td>13:45 – 13:55</td>
<td>Fast Imaging - 5 Minute Knee MRI Soterios Gyftopolous, MD</td>
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<td>13:55 – 14:05</td>
<td>Isotrophic 3D T2 Mapping Patrick Omouni, MD, PhD</td>
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<td>14:05 – 14:15</td>
<td>Identifying Hidden Zones of the Far Posterior Cartilage of the Femoral Condyles John Crues, MD, MS</td>
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<td>14:15 – 14:30</td>
<td>Cartilage Repair - Microfracture Thomas Link, MD, PhD</td>
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<td>14:30 – 14:45</td>
<td>Cartilage Repair – ACI Carl Winalski, MD</td>
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<td>14:45 – 15:00</td>
<td>Lesions at the Osteochondral Junction Christine Chung, MD</td>
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**COMBINED SESSION**

**FILM QUIZ PANEL**  15:30 – 17:00