



# BE A PART OF IT NEW YORK, NEW YORK

NEW YORK HILTON MIDTOWN

## ONE-DAY INTERDISCIPLINARY BONE COURSE

*Musculoskeletal Pathology, Radiology and Surgery - A Correlative Approach*

Orthopedic Pathology • Musculoskeletal Radiologic • Oncologic Orthopedic Surgery Correlation

REGISTER ONLINE

[internationalskeletalsociety.com](http://internationalskeletalsociety.com)

## COURSE DIRECTORS

**Dr. Julie C. Fanburg-Smith** Orthopedic and Soft Tissue Pathology

**Dr. Mark D. Murphey** Musculoskeletal Radiology **Dr. Franklin H. Sim** Orthopedic Oncologic Surgery

### PART 1

Benign Bone and Joints **MODERATORS** Dr. Julie C. Fanburg-Smith, Dr. S. Fiona Bonar and Dr. Edward DiCarlo

- 8:00 - 8:20 Healthy Bone Matrix and Cellular Milieu - **Dr. Julie C. Fanburg-Smith**
- 8:20 - 8:40 How Radiology Can Help the Pathologist in the Interpretation of Benign Conditions - **Dr. Mark D. Murphey**
- 8:40 - 9:00 Pathological Aspects of Common Bone Disorders - **Dr. S. Fiona Bonar**
- 9:00 - 9:25 Anatomy and Pathology of the Diarthrodial and Amphiarthrodial Joints - **Dr. Edward DiCarlo**
- 9:25 - 9:45 What Every Pathologist Should Know About Metabolic Bone Disease - **Dr. Edward McCarthy**
- 9:45 - 10:00 **COFFEE BREAK**

### PART 2

Benign versus Malignant Bone Forming Tumors **MODERATORS** Dr. Franklin H. Sims and Dr. Carrie Y. Inwards

- 10:00 - 10:30 Pathologic Pitfalls in the Diagnosis of Osteosarcoma - **Dr. Carrie Y. Inwards**
- 10:30 - 11:00 Imaging of Bone Forming Tumors: Tricks of the Trade - **Dr. Doris E. Wenger**
- 11:00 - 11:45 Update to the Surgical Approach of Osteosarcoma and its Mimics - **Dr. Franklin H. Sim**
- 11:45 - 12:45 **LUNCH BREAK**

### PART 3

Conventional Chondrosarcoma and Chordoma: Challenges Associated with Diagnosis and Treatment

**MODERATORS** Dr. Andrew E. Rosenberg, Dr. Franklin H. Sim, Dr. Mark D. Murphey

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|------------------|--|------------------|---|
| <b>Session 1</b> | <b>Enchondroma versus Conventional Chondrosarcoma</b>  | <b>Session 2</b> | <b>Benign Notochordal Cell Tumor versus Chordoma</b>  |
| 12:45 - 1:00     | Enchondroma versus Conventional Chondrosarcoma: The Pathologist's Dilemma. - <b>Dr. Andrew E. Rosenberg</b>            | 1:45 - 2:00      | Benign Notochordal Cell Tumor versus Chordoma: Is the Microscope Enough? - <b>Dr. G. Petur Nielsen</b>      |
| 1:00 - 1:15      | Enchondroma versus Conventional Chondrosarcoma: The Rules of Radiology. - <b>Dr. Mark D. Murphey</b>                   | 2:00 - 2:15      | Benign Notochordal Cell Tumor versus Chordoma: The Radiologist's Criteria. - <b>Dr. Mark D. Murphey</b>     |
| 1:15 - 1:30      | Enchondroma versus Conventional Chondrosarcoma: Is There a Role for Molecular Analysis? - <b>Dr. Adrienne Flanagan</b> | 2:15 - 2:25      | Benign Notochordal Cell Tumor versus Chordoma: Can Molecular Pathology Help? - <b>Dr. Adrienne Flanagan</b> |
| 1:30 - 1:45      | Enchondroma versus Conventional Chondrosarcoma: What Matters to the Surgeon. - <b>Dr. Carol Morris</b>                 | 2:25 - 2:45      | Benign Notochordal Cell Tumor versus Chordoma: The Surgeon's Perspective. - <b>Dr. Francis Hornicek</b>     |
|                  |  | 2:45-3:00        | <b>COFFEE BREAK</b>   |

### PART 4

Giant Cell Rich and Epithelioid Vascular Tumors of Bone **MODERATORS** Dr. Meera Hameed and Dr. John Healey

- 3:00 - 3:20 What's New in Epithelioid Vascular Lesions of Bone? - **Dr. Cristina Antonescu**
- 3:20 - 3:50 Updated Clinical Approach to Giant Cell Tumors and Vascular Tumors - **Dr. John Healey**
- 3:50 - 4:10 Will the Real Giant Cell Tumor Please Stand Up? - **Dr. Meera Hameed**
- 4:10 - 4:30 Radiologic Shadows of Tumors Rich in Giant Cells and Vessels - **Dr. Sinchun Hwang**

# SPEAKERS

**Cristina Antonescu, M.D.**

Professor of Pathology and Molecular  
Attending Pathologist  
Director, Bone and Soft Tissue Pathology  
Memorial Sloan Kettering Cancer Center  
New York, NY

**S. Fiona Bonar, MB, FRCPath, FRCPA**

Douglass Hanly Moir Pathology  
Honorary Consultant Royal Prince Alfred Hospital  
Adjunct Professor, University of Notre Dame Medical School  
Sydney, Australia

**Edward F. DiCarlo, M.D.**

Department of Pathology and Laboratory Medicine  
Weill-Cornell University Medical College  
Attending Pathologist, Chief Surgical Pathologist  
Hospital for Special Surgery  
New York, NY

**Julie C. Fanburg-Smith, M.D., FCAP**

Course Director, Bone and Soft Tissue Pathology  
Professor of Pathology, GUH, HUH, USUHS  
Consultant, Surgical Pathology, Orthopedic and Soft Tissue Pathology  
Medical Director, National Academic Pathology, McLean, VA  
NIH, CC, Hematopathology  
Bethesda, MD

**Adrienne M Flanagan, M.D.**

Professor  
Head of Pathology (Research) - UCL Cancer Institute  
London, England  
United Kingdom

**Meera Hameed, M.D.**

Chief of Service, Surgical Pathology  
Attending Pathologist  
Memorial Sloan Kettering Cancer Center  
New York, NY

**John H. Healey, M.D.**

Professor and Chair of Orthopedic Surgery  
Memorial Sloan Kettering Cancer Center  
Memorial Hospital for Cancer and Allied Diseases  
New York, NY

**Francis Hornicek, M.D., PhD**

Chief of Orthopedic Oncology Service  
Co-Director Center for Sarcoma and Connective Tissue Oncology  
Massachusetts General Hospital  
Associate Professor, Orthopedic Surgery  
Harvard Medical School  
Boston, MA

**Sinchun Hwang, M.D.**

Associate Attending Radiologist  
Department of Radiology  
Memorial Sloan Kettering Cancer Center  
Memorial Hospital for Cancer and Allied Diseases  
New York, NY

**Carrie Y. Inwards, M.D.**

Consultant, Division of Anatomic Pathology  
Professor of Laboratory Medicine and Pathology  
Mayo Clinic College of Medicine  
Rochester, MN

**Edward McCarthy, M.D.**

Professor, Department of Pathology  
Johns Hopkins University  
Baltimore, MD

**Carol D. Morris, M.D., M.S.**

Chief, Division of Orthopedic Oncology  
Associate Professor, Orthopedic Surgery and Oncology  
Johns Hopkins University  
Baltimore, MD

**Mark D. Murphey, M.D., FACR**

Course Director, MSK Radiology  
Physician-in-Chief, International Course Director  
Radiologic Pathology Course Director  
Chief, Musculoskeletal Imaging  
American Institute for Radiologic Pathology (AIRP), Silver Spring, MD  
Professor of Radiology, USUHS  
Staff Radiologist Musculoskeletal Section, Walter Reed National  
Military Medical Center  
Bethesda, MD

**G. Petur Nielsen, M.D.**

Professor of Pathology, Harvard Medical School  
Pathologist, Massachusetts General Hospital  
Boston, MA

**Andrew E. Rosenberg, M.D.**

Professor of Pathology  
Vice Chair  
Director of Bone and Soft Tissue Pathology  
University of Miami  
Miami, FL

**Franklin H. Sim, M.D.**

Course Director, Oncologic Orthopedic Surgery  
Chair, Division of Orthopedic Musculoskeletal Oncology  
Professor of Orthopedic Surgery  
Mayo Clinic  
Rochester, MN

**Doris E. Wenger, M.D.**

Professor of Radiology, Division of Musculoskeletal Imaging  
Joint Appointment, Department of Orthopedic Surgery  
Mayo Clinic  
Rochester, MN