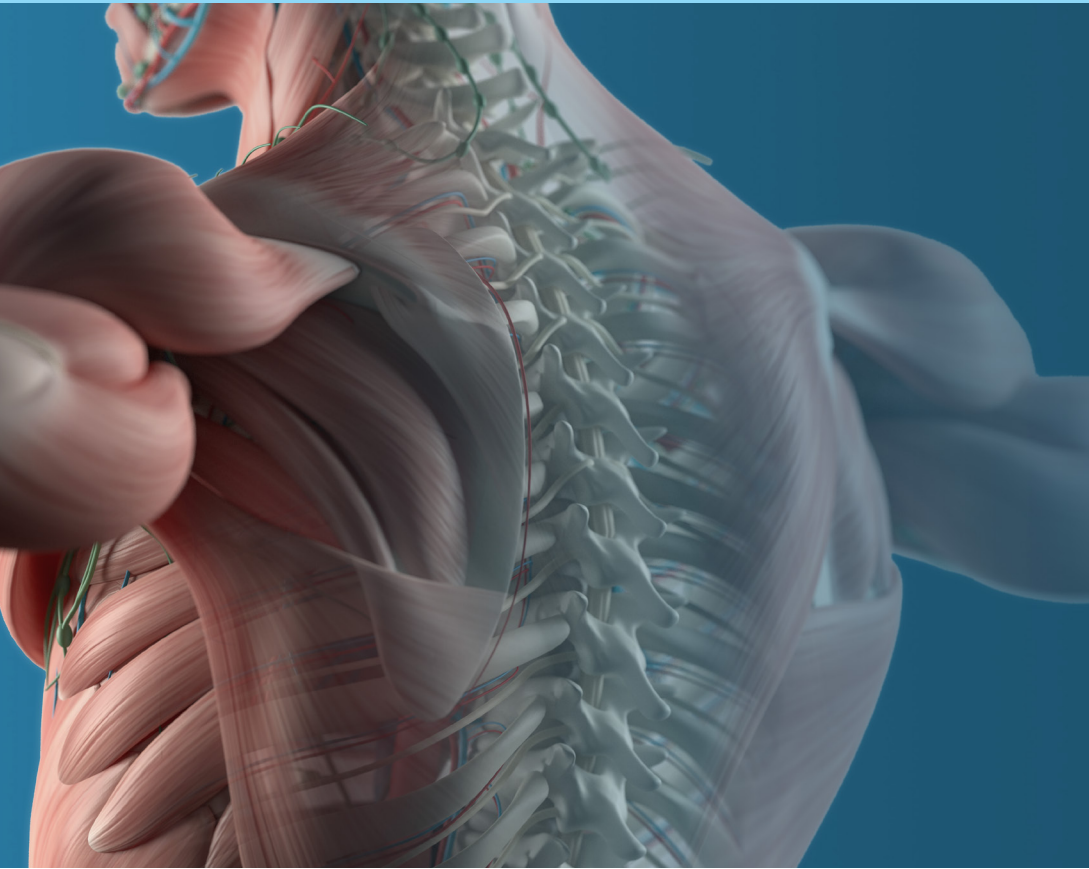


8th Joint MSK/HSS/IOR Course in

# Musculoskeletal Tumor Pathology & Clinical Oncology

Thursday-Saturday, November 17-19, 2016



Conference Location:

Memorial Sloan Kettering Cancer Center  
Zuckerman Research Center  
417 East 68<sup>th</sup> Street  
New York, NY 10065



Memorial Sloan Kettering  
Cancer Center



# Course Overview

This course is designed to give a current review of musculoskeletal tumor pathology to orthopaedic surgeons, radiation oncologists, medical oncologists, radiologists and pathologists.

## This course will cover the following topics:

### BENIGN NON SURGICAL AND SURGICAL LESIONS

- Aneurysmal bone cyst
- Bone cyst
- Chondromyxoid fibroma
- Chondroblastoma
- Chondromas
- Desmoplastic fibroma
- Eosinophilic granuloma
- Fibrous dysplasia
- Giant cell tumor
- Histiocytic fibroma
- Myositis ossificans
- Osteoblastoma
- Osteochondromas
- Osteoid osteoma

### MALIGNANT TUMORS

- Adamantinoma
- Chondrosarcomas
- Chordoma
- Ewing's sarcoma
- Lymphoma
- Myeloma
- Osteosarcomas
- Secondary malignancies
- Spindle and pleomorphic sarcomas
- Vascular tumors
- Bone Metastases

### SOFT TISSUE TUMORS

- Lipoma and other benign soft tissue tumors
- Liposarcoma
- Fibrosarcoma
- Malignant fibrous histiocytoma
- Synovial sarcoma
- Rare Entities

### VARIOUS

- Biological prognostic and therapeutic markers
- Bone allografts in skeletal reconstruction
- Chemotherapy issues and future trends
- Integrated treatment of soft tissue sarcomas
- Reconstruction in children
- Staging and biopsy and margins
- Surgical principles of benign lesions
- Surgical treatment of spine tumors

### SPECIAL SESSIONS

- Basic Research
- Molecular Biology in the Diagnosis of Bone and Soft Tissue Tumors
- Imaging of Bone and Soft Tissue Tumors
- Limb Salvage Surgery

# Course Faculty

## COURSE DIRECTORS



**Nicola Fabbri MD**  
Attending Surgeon  
Orthopedic Service  
Department of Surgery  
Memorial Sloan Kettering  
Cancer Center



**Michael J. Klein MD**  
Director, Pathology and  
Laboratory Medicine  
Hospital for Special Surgery

## MSK FACULTY

**Kaled M. Alektiar MD**  
Attending Radiation Oncologist  
Brachytherapy Service,  
Department of Radiation Oncology

**Narasimhan P. Agaram MBBS**  
Associate Attending Pathologist  
Autopsy Service,  
Department of Pathology

**Edward Athanasian MD**  
Associate Attending Surgeon  
Orthopedic Service,  
Department of Surgery

**Mark Bilsky MD**  
Attending Neurosurgeon  
Department of Neurosurgery

**Patrick J. Boland MBBCh BAO**  
Attending Surgeon  
Orthopedic Service,  
Department of Surgery

**Alexander J. Chou MD**  
Assistant Attending Pediatrician  
Department of Pediatrics

**Mark A. Dickson MD**  
Assistant Attending Physician  
Sarcoma Medical Oncology Service  
Division of Solid Tumor Oncology  
Department of Medicine

**Azeez Farooki MD**  
Associate Attending Physician  
Endocrinology Service  
Division of Subspecialty Medicine  
Department of Medicine

## INVITED FACULTY

**Joseph Benevenia MD**  
Chair, Orthopaedics  
Professor, Rutgers Medical School  
Newark, NJ

**Edward DiCarlo MD**  
Attending Pathologist  
Professor, Clinical Pathology  
and Laboratory Medicine  
Weill Cornell Medical College  
New York, NY

**Mark Gebhardt MD**  
Chief, Orthopedic Surgery  
Beth Israel Deaconess Medical Center  
Department of Orthopedic Surgery  
Harvard Medical School  
Boston, MA

**Richard Terek MD**  
Associate Professor,  
Orthopaedic Surgery  
Adult Reconstructive Surgery  
and Musculoskeletal Oncology  
Brown University  
Providence, RI

**Robert Turcotte MD**  
Maurice E. & Marthe Muller Chair  
Division of Orthopaedic Surgery  
McGill University  
Montreal, Canada

**Daniel Vanel MD**  
Department of Research  
Department of Pathology  
Istituto Ortopedico Rizzoli  
Bologna, Italy

## Mrinal Gounder MD

Assistant Attending Physician  
Sarcoma Medical Oncology Service  
Division of Solid Tumor Oncology  
Department of Medicine

**Meera Hameed MD**  
Chief, Surgical Pathology Service  
Director, Molecular Genetic  
Pathology Fellowship Program  
Attending Pathologist  
Department of Pathology

**John H. Healey MD**  
Stephen McDermott Chair in Surgery  
Chief, Orthopaedic Service  
Attending Surgeon  
Department of Surgery

**Sinchun Hwang MD**  
Assistant Attending Radiologist  
Body Imaging Service,  
Department of Radiology

**Robert A. Lefkowitz MD**  
Associate Attending Radiologist  
Body Imaging Service,  
Department of Radiology

**Daniel Prince MD**  
Assistant Attending Surgeon  
Orthopedic Service,  
Department of Surgery

**Yoshiya (Josh) Yamada MD**  
Attending Radiation Oncologist  
Brachytherapy Service,  
Department of Radiation Oncology

**Sam S. Yoon MD**  
Associate Attending Surgeon  
Gastric and Mixed Tumor Service  
Division of General Surgical Oncology  
Department of Surgery

# Scientific Agenda

Thursday, November 17, 2016

- 7:45 am **REGISTRATION & BREAKFAST**
- 8:20 am **Welcome & Announcements**  
Nicola Fabbri MD  
Michael J. Klein MD
- 8:30 am **Bone Development, Anatomy and Physiology**  
Michael J. Klein MD
- 9:20 am **Basics of Histopathology**  
Michael J. Klein MD
- 9:45 am **Basics of Imaging - Bone**  
Sinchun Hwang MD
- 10:15 am **Questions and Discussion**  
All Faculty
- 10:30 am **BREAK**
- 10:40 am **Staging, Biopsy and Margins**  
Joseph Benevenia MD
- 11:10 am **Benign Fibrous / Bone Forming**  
Daniel Prince MD
- 11:40 am **Benign Cartilage**  
Nicola Fabbri MD
- 12:10 pm **Cystic and Other Benign Lesions**  
Daniel Prince MD
- 12:40 pm **Questions and Discussion - Case Presentation**  
Daniel Vanel MD & All Faculty
- 1:10 pm **LUNCH**
- 2:10 pm **Giant Cell Tumor**  
Nicola Fabbri MD
- 2:40 pm **Primary and Secondary Hyperparathyroidism, Paget and Others**  
Edward DiCarlo MD
- 3:10 pm **Histo Review of Benign Tumors**  
Michael J. Klein MD  
Meera Hameed MD
- 3:40 pm **Surgery for Benign Bone Tumors**  
Joseph Benevenia MD
- 4:10 pm **Questions and Discussion - Case Presentation**  
Daniel Vanel MD & Faculty
- 4:40 pm **BREAK**
- 5:00pm **Chondrosarcoma**  
Nicola Fabbri MD
- 5:40pm **Imaging in Musculoskeletal Oncology: From Standard Radiograph to Functional Imaging.**  
Daniel Vanel MD
- 6:00 pm **Questions and Discussion - Case Presentation**  
Daniel Vanel MD & All Faculty
- 6:30pm **COCKTAIL RECEPTION**

## Friday, November 18, 2016

7:00 am **BREAKFAST**

7:30 am **Review of Thursday Topics**

Nicola Fabbri MD  
Ana Belzarena Genovese MD  
Christina Gutowski MD  
Jan Lesensky MD

8:00 am **Osteosarcoma, MFH Bone and Others**

Mark Gebhardt MD

8:30 am **Ewing's Sarcoma**

Robert Turcotte MD

9:00 am **Other Malignant Bone Sarcomas**

Richard Terek MD

9:30 am **Histo Review of Benign Tumors**

Michael J. Klein MD  
Meera Hameed MD

10:00 am **Questions and Discussion -  
Case Presentation**

Daniel Vanel MD & All Faculty

10:30 am **BREAK**

10:40 am **Principles of Chemotherapy  
for Bone Sarcomas**

Alexander J. Chou MD

11:10 am **Novel strategies for Non Chemotherapy-  
Sensitive Primary Malignant Bone Tumors**

Mrinal Gounder MD

11:20 am **LOCAL TREATMENT:  
SURGERY FOR PRIMARY  
BONE MALIGNANCIES**

**Lower Extremity  
Pelvis Upper Extremity**

John H. Healey MD  
Nicola Fabbri MD  
Edward Athanasian MD

12:20 pm **STRATEGIES IN SKELETALLY  
IMMATURE PATIENTS**

**Rotationplasty & Growing Implants  
Vascularized Fibula Bone Transport**

Mark Gebhardt MD  
Nicola Fabbri MD  
Daniel Prince MD

12:50 pm **Questions and Discussion -  
Case Presentation**

Daniel Vanel MD & All Faculty

1:30 pm **LUNCH**



- 2:20 pm**     **Soft Tissue Tumors: Overview and Work-Up**  
Joseph Benevenia MD
- 2:40 pm**     **Basics of Imaging – Soft Tissue**  
Robert A. Lefkowitz MD
- 3:00 pm**     **Soft Tissue Histopathology and Role of Molecular Biology**  
Narasimhan P. Agaram MBBS
- 3:30pm**     **Benign Soft Tissue: Overview and Management**  
Richard M. Terek MD
- 3:45 pm**     **Questions and Discussion - Case Presentation**  
Daniel Vanel MD & Faculty
- 4:00 pm**     **BREAK**
- MALIGNANT SOFT TISSUE: OVERVIEW AND PRINCIPLES OF SURGICAL MANAGEMENT**
- 4:10pm**     **Extremities**  
Robert Turcotte MD
- 4:30pm**     **Upper Extremity**  
Edward Athanasian MD
- 4:45pm**     **Abdominal Sarcomas**  
Sam Sunghyu Yoon MD
- INTEGRATED TREATMENT OF SOFT TISSUE SARCOMAS**
- 5:00pm**     **Radiotherapy**  
Kaled M. Alektiar MD
- 5:20pm**     **Chemotherapy**  
Mark A. Dickson MD
- 5:45 pm**     **Questions and Discussion - Case Presentation**  
Daniel Vanel MD & Faculty

# Saturday, November 19, 2016

- 7:00 am **BREAKFAST**
- 7:30 am **Review of Friday Topics**  
Nicola Fabbri MD  
Ana Belzarena Genovese MD  
Christina Gutowski MD  
Jan Lesensky MD
- 8:00 am **Surgery for Primary Bone Malignancies:  
Spine and Sacrum**  
Patrick J. Boland MBBCh BAO
- 8:30 am **Lymphoma / Myeloma**  
Richard Terek MD
- 8:50 am **Metastatic Disease:  
Overview, Pathophysiology  
and Work-Up**  
Patrick J. Boland MBBCh BAO
- 9:20 am **Histo Review: Hematologic  
Malignancies and Metastatic disease**  
Michael J. Klein MD  
Meera Hameed MD  
Narasimhan P. Agaram MBBS
- 9:50 am **Questions and Discussion -  
Case Presentation**  
Daniel Vanel MD & Faculty MD
- 10:10 am **BREAK**
- 10:20 am **Clinical Update:  
Use of Antiresorptives to  
Reduce Skeletal Related Events  
in Advanced Cancers Involving  
the Bone**  
Azeez Farooki MD
- 10:40 am **Role of Stereotactic Body  
Radiation Therapy for  
Spinal Metastases**  
Josh Yamada MD
- SURGERY FOR  
METASTATIC DISEASE**
- 11:00 am **Spine**  
Mark Bilsky MD
- 11:20 am **Extremities and Pelvis**  
Joseph Benevenia MD
- 11:50 am **Questions and Discussion -  
Case Presentation**  
Daniel Vanel MD & Faculty
- 12:30pm **Adjourn**

# Registration

REGISTER ONLINE AT:

[www.mskcc.org/musculoskeletal](http://www.mskcc.org/musculoskeletal)

|  |       |
|--|-------|
| Physicians (MDs, PhDs and DOs)   | \$400 |
| MSK Alliance and MSK Alumni  | \$280 |
| Residents, Fellows, Nurses, Technicians and Other Healthcare Providers | \$250 |
| Industry Members*  | \$700 |

## Special Resident Group Rate

MSK is offering a special group discounted rate for residents. Please contact [cme@mskcc.org](mailto:cme@mskcc.org) for more information or to register for the group rate.

### REGISTRATION

Registration includes continental breakfast, lunch, and refreshment breaks. Please contact us at least one week prior to the course if you have any special dietary needs.

**Registration is complimentary for MSK staff who wish to attend this course.** However, you must register online by visiting the course website, [www.mskcc.org/musculoskeletal](http://www.mskcc.org/musculoskeletal).

### COURSE DESIGN

This course is comprised of lectures and interactive audience participation encouraging the intellectual exchange of ideas between faculty and participants.

### ACCOMMODATIONS

For information on hotels in the area of MSKCC with discounted rates, please visit: [www.mskcc.org/accommodations](http://www.mskcc.org/accommodations).

### ACCREDITATION STATEMENT

MSK is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

### AMA CREDIT DESIGNATION STATEMENT\*

MSK designates this live activity for a maximum of **22.5 AMA PRA Category 1 Credits™**. Physicians should only claim credit commensurate with the extent of their participation in the activity. The AMA has determined that physicians not licensed in the United States but who participate in this CME activity are eligible for **22.5 AMA PRA Category 1 Credits™**.




### FACULTY DISCLOSURE

It is the policy of MSK to make every effort to insure balance, independence, objectivity, and scientific rigor in all continuing medical education activities which it sponsors as an ACCME accredited provider. In accordance with ACCME guidelines and standards, all faculty participating in an activity sponsored by MSK are expected to disclose any significant financial interest or other relationship with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial services which are discussed by the faculty members in an educational presentation. As required by the ACCME, when an unlabeled use of a commercial product or an investigational use not yet approved for any purpose is discussed during an educational activity, MSK requires the speaker to disclose that the product is not labeled for the use under discussion or that the product is still investigational.

### CONTACT

Continuing Medical Education  
Memorial Sloan Kettering Cancer Center  
633 Third Avenue, 12th Floor  
New York, NY 10017  
[cme@mskcc.org](mailto:cme@mskcc.org)

### STAY CONNECTED

 /MSKCME  
 @MSKCME  
 MSK CME LinkedIn Group

Join us on social media by using:

**#MSKmusculoskeletalCME**

\*Industry Members: Registration is for educational purposes only. Marketing, sales, and promotion of products and services are prohibited at CME activities.