



The MSK Kids Rare Tumors Program presents

# 12<sup>th</sup> International Pediatric Renal Tumors Biology Meeting

COMPLIMENTARY SYMPOSIUM  
JUNE 5-7, 2024

Memorial Sloan Kettering Cancer Center  
Zuckerman Research Center



Memorial Sloan Kettering  
Cancer Center

**This complimentary symposium at Memorial Sloan Kettering focuses on the biology and clinical translation of emerging research in pediatric renal tumors, particularly Wilms tumor as well as Renal Cell Carcinoma and other rare childhood kidney tumors.**

## **OVERVIEW**

The symposium will consist of **didactic lectures, poster sessions**, as well as **focused breakout discussions**; the latter being focused on pre-clinical pediatric renal tumor models and prioritizing targets and therapies for advanced Wilms tumors. This large, but focused, gathering of scientists, clinicians, and other key stakeholders will provide **significant opportunities for both learning and networking**.

### **DAY 1**

Wednesday, June 5, will initially begin with an educational overview of pediatric renal tumors prior to the scientific meeting commencement in order to provide a foundational basis for attendees with varied backgrounds.

The afternoon launches the formal symposium with a focus on the renal biological processes, both physiologic and pathologic, that lead to the development of childhood kidney tumors. There will be a particular focus on renal regeneration and repair as well as advances in our understanding of clonal nephrogenesis.

### **Networking Reception**

At the conclusion of the symposium's activities on Wednesday, we invite attendees to a complimentary networking reception in the lobby of the Zuckerman Research Center. Hors d'oeuvres and refreshments will be served.

## DAY 2

Thursday, June 6, will focus on advances in our understanding of the genomics, epigenomics, and proteomics of childhood kidney tumors. This will include discussion on topics such as cancer predisposition, clonal evolution, intratumoral heterogeneity, preclinical tumor models, and emerging technologies such as circulating tumor DNA.

### Cocktail Reception and Dinner

At the conclusion of the symposium's activities on Thursday, we invite attendees to a complimentary cocktail reception at 6:00 pm at **Coco Pizzeria** (1078 1st Ave), followed by a dinner at 7:00 pm at **Morso** (420 E 59th St). **Space is limited; please RSVP at registration to secure your spot.**

## DAY 3

Friday, June 7, will transition towards more clinically actionable investigations, consisting of talks related to immunotherapy, targeted therapies, and current and emerging clinical trials including novel study designs. There will be a particular focus on rare non-Wilms renal tumors, such as renal cell carcinoma, rhabdoid tumor, and childhood kidney sarcomas.

### New York Yankees vs. Los Angeles Dodgers Baseball Game

We extend an invitation to interested attendees to join us at Yankee Stadium for a baseball game against the Los Angeles Dodgers at 7:05 pm. Kindly note that transportation will not be provided, and attendees are responsible for purchasing their tickets. Additional information, including a link to purchase tickets, is available on the symposium website.

THIS SYMPOSIUM IS SUPPORTED BY

**Debbie and Kevin Bhatt**

**Bianco Family Foundation**

**Andrew McDonough B+ Foundation**

**Tow Center for Developmental Oncology**

# CALL FOR ABSTRACTS

We invite the submission of abstracts for this program.

**Abstracts will be selected for the poster session on the basis of their scientific merit and content quality.** Authors of accepted abstracts will receive presentation and registration instructions upon acceptance.

The abstract submission deadline is **April 15, 2024.**

## TARGET AUDIENCE & LOCATION

This symposium is intended for pediatric renal tumor clinicians, researchers, and students.

This program is set to be an exclusively in-person event at Memorial Sloan Kettering's Zuckerman Research Center.



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

Ample time will be provided during this program and throughout the symposium social events for networking and professional collaboration.

COMPLIMENTARY REGISTRATION:  
[msk.org/PedsRenalSymposium](https://msk.org/PedsRenalSymposium)

## SYMPOSIUM DIRECTOR



### **Michael V. Ortiz, MD**

Clinical Director, Rare Tumors Program  
Assistant Attending  
Department of Pediatrics  
Memorial Sloan Kettering Cancer Center  
New York, NY, USA

## SYMPOSIUM CO-DIRECTOR



### **Alex Kentsis, MD, PhD**

Director, Tow Center for Developmental Oncology  
Member  
Department of Pediatrics  
Memorial Sloan Kettering Cancer Center  
New York, NY, USA

## SCIENTIFIC PLANNING COMMITTEE



### **James (Jim) Geller, MD**

Director, Liver, Kidney and Retinoblastoma Programs;  
Director, Advanced Cancer Therapy Network,  
Cancer and Blood Disease Institute  
Director, Pilot Translational Core Grant Program,  
Center for Clinical and Translational Science and Training  
Cincinnati Children's Hospital  
Cincinnati, OH, USA



### **Manfred Gessler, MD**

Chair of Developmental Biochemistry  
University of Wuerzburg  
Würzburg, Germany



### **Andrew Hong, MD**

Assistant Professor, Department of Pediatrics  
Emory University School of Medicine  
Children's Healthcare of Atlanta  
Atlanta, GA, USA



### **Elizabeth Mullen, MD, FAAP**

Program Leader, Renal/Liver Tumors  
Institute Physician  
Assistant Professor of Pediatrics,  
Harvard Medical School  
Dana Farber Cancer Institute  
Boston, MA, USA



### **Marry van den Heuvel-Eibrink, MD, PhD**

Chair, SIOP Renal Tumor Study Group  
Chair, Comprehensive Renal Cancer Center, and  
PI Princess Máxima Center  
Utrecht, Netherlands



### **Arnauld Verschuur, MD, PhD**

Senior Consultant, Pediatric Oncology  
Hôpital d'Enfants de La Timone  
Marseille, France

## **KEYNOTE PRESENTERS**



### **John Anderson, PhD**

Consultant Paediatric Oncologist  
University College London  
London, England



### **Sam Behjati, MA, BMBCh, PhD, MRCPCH**

Group Leader & Wellcome Senior Research Fellow  
Wellcome Trust Sanger Institute  
Hixton, England

Memorial Sloan Kettering Cancer Center adheres to the ACCME's Standards for Integrity and Independence in Accredited Continuing Education. Any individuals in a position to control the content of a CE activity, including faculty, planners, reviewers, or others are required to disclose all financial relationships with ineligible companies (commercial interests). All relevant financial relationships have been mitigated prior to the commencement of the activity.



### **Brian D. Crompton, MD**

Research Co-Director, Solid Tumor Center  
Dana-Farber Cancer Institute  
Boston, MA, USA



### **Benjamin Dekel, MD, PhD**

Chief, Pediatric Nephrology  
Director, Pediatric Stem Cell Research Institute  
Sheba Medical Center  
Ramat Gan, Israel



### **Elizabeth (Lisa) Petri Henske, MD**

Director of the Center for LAM Research and Clinical Care  
Brigham and Women's Hospital  
Boston, MA, USA



### **Roland P. Kuiper, PhD**

Professor of Molecular Genetics of Hereditary Cancer in Children,  
Department of Genetics,  
University Medical Center Utrecht, University of Utrecht  
Group Leader at the Princess Máxima Center for Pediatric Oncology  
Utrecht, Netherlands

## **GUEST SPEAKER**



### **Conrad Fernandez, MD**

Professor Emeritus  
Dalhousie University  
Halifax, Nova Scotia, Canada

COMPLIMENTARY REGISTRATION:  
[msk.org/PedsRenalSymposium](https://msk.org/PedsRenalSymposium)

## BREAKOUT SESSION FACILITATORS



### **Jesper Sune Brok, MD, PhD**

Consultant  
Department of Pediatric Oncology and  
Hematology, Rigshospitalet  
Copenhagen University Hospital  
Copenhagen, Denmark



### **Filemon Dela Cruz, MD**

Assistant Attending  
Department of Pediatrics  
Memorial Sloan Kettering Cancer Center  
New York, NY, USA



### **Peter Hohenstein, PhD**

Associate Professor  
Department of Human Genetics and head Transgenic Facility Leiden  
Leiden University Medical Center  
Leiden, The Netherlands



### **Andrew Jackson Murphy, MD**

Associate Member, Department of Surgery  
St. Jude Children's Research Hospital  
Memphis, TN, USA



### **Daniela Perotti, PhD**

Staff Scientist  
Experimental Oncology Department  
Fondazione IRCCS Istituto Nazionale dei Tumori di Milano  
Milan, Italy



### **Amy Walz, MD**

Clinical Practice Director, Center for Cancer & Blood Disorders,  
Ann & Robert H. Lurie Children's Hospital of Chicago  
Asst. Professor of Pediatrics, Northwestern Univ. Feinberg School of Medicine  
Ann & Robert H. Lurie Children's Hospital of Chicago, Department of Pediatrics  
Division of Hematology, Oncology, Neuro-Oncology, & Stem Cell Transplant  
Chicago, IL, USA



### **Jenny Wegert, PhD**

Developmental Biochemistry  
University of Wuerzburg  
Wuerzburg, Germany



# WEDNESDAY, JUNE 5, 2024

ZUCKERMAN RESEARCH CENTER (AUDITORIUM)

9:00 AM Registration and Breakfast

## PRE-MEETING EDUCATIONAL SESSION

AUDITORIUM

10:00 AM **Wilms Tumors: "The Eras Tour"**  
***A Musical Journey Through The History of Discovery, First Therapies, and Evolution of Treatment***  
Elizabeth Mullen, MD, FAAP


11:00 AM **SIOP Approach and Non-Wilms Renal Tumors**  
Marry van den Heuvel-Eibrink, MD, PhD

11:45 AM **Harmonica, A Framework for International Inter-Cooperative Group Collaborative Research**  
James (Jim) Geller, MD

12:00 PM Registration and Lunch

1:00 PM **Welcome and Introduction with Scientific Committee**  
Michael V. Ortiz, MD  
Alex Kentsis, MD, PhD  
Andrew Kung, MD, PhD, *Chair, Department of Pediatrics, MSK*

1:15 PM **Advocates Showcase**  
Kevin Bhatt, MBA  
Alessandra Bianco and Craig Serra  
Robyn Spoon, MA, *Elevate Childhood Cancer Research and Advocacy*  
Joe McDonough, MBA, *B+ Foundation*

1:30 PM  **KEYNOTE**  
**From Kidney Organogenesis to Tumorigenesis to Repair**  
Benjamin Dekel, MD, PhD

2:10 PM **Delineating Abnormal Developmental Programs in Wilms Tumor**  
Lola Takhirov, BA, PhD Student

2:35 PM Break and Refreshments

2:50 PM **Wilms Tumor-Associated ENL Mutations Perturb Kidney Developmental Trajectory by Rewiring Gene Regulatory Landscape**  
Liling Wan, PhD

3:15 PM **Single Nuclei RNA-Sequencing Reveals Both Intra-Tumor and Inter-Tumor Heterogeneity in Favorable Histology Wilms tumor**  
Keri Drake, MD

3:40 PM Break and Refreshments

4:25 PM



### KEYNOTE

#### **Somatic Genetic Development of Wilms Tumor via Normal Kidneys in Predisposed Children**

Sam Behjati, MA, BMBCh, PhD, MRCPCH

5:05 PM

#### **$\beta$ -catenin Genotype-Phenotype Correlations in Wilms' Tumour and Other Cancers**

Peter Hohenstein, PhD

5:30 PM



### HONORED GUEST SPEECH

#### **Reflections from a Career in Pediatric Oncology**

Conrad Fernandez, MD

6:00 PM

### NETWORKING RECEPTION

LOBBY (6:00—7:30 PM)

We invite attendees to a complimentary networking reception in the lobby of the Zuckerman Research Center. Hors d'oeuvres and refreshments will be served.

## THURSDAY, JUNE 6, 2024

ZUCKERMAN RESEARCH CENTER (AUDITORIUM)

8:00 AM

### BREAKFAST BREAKOUT SESSION

ROOM 105\*

#### **Developmentally Accurate Pediatric Renal Tumor Models**

Filemon Dela Cruz, MD  
Peter Hohenstein, PhD  
Andrew Jackson Murphy, MD  
Jenny Wegert, PhD

\*Space in 105 is limited. A live stream of the discussion will be available in 136.

9:25 AM

### Day 2 Welcome

Michael V. Ortiz, MD

9:30 AM

### Investigating the Role of DROSHA in Wilms Tumorigenesis

Patrick Kemmeren, PhD

9:55 AM

### DROSHA Regulates Mesenchymal Proliferation and Ferroptosis in Wilms Tumor

Patricia D. B. Tiburcio, PhD

10:20 AM

### Clinical and Wilms Tumor Characteristics of Patients with Heterozygous Germline DIS3L2 Variants

Sophie van Peer, MD, PhD Student

10:30 AM

Break and Refreshments

11:00 AM



**KEYNOTE**

**Clinical and Molecular Genetics of Wilms Tumor Predisposition, Towards Optimal Diagnosis**

Roland P. Kuiper, PhD

11:40 AM

**Genetic Predisposition in Familial and Bilateral Wilms Tumor**

Jenny Wegert, PhD

12:05 PM

**Tracing Intermetastatic Spread in Wilms Tumor and Other Pediatric Cancer Patients**

Natalie Andersson, MD, PhD Student

12:30 PM

Lunch

1:20 PM



**KEYNOTE**

**Profiling Circulating Tumor DNA in Wilms Tumor: Established Approaches and Technologies in Development**

Brian D. Crompton, MD

2:20 PM

**Circulating Tumor DNA Enables Molecular Characterization of Pediatric Kidney Tumors at Diagnosis**

Arnauld Verschuur, MD, PhD

2:45 PM

**DNA Methylation is More Sensitive Than Copy Number Variant Analysis in Diagnosing Wilms Tumor From Plasma Cell-Free DNA**

Jack Brzezinski, MD

3:10 PM

Break and Refreshments

**POSTER SESSION**

LOBBY

4:10 PM

**Deciphering the Prognostic Role of Epithelial Cells in Wilms Tumor Progression**

Tobias Karakach, PhD

4:35 PM

**Widening the Spectrum of Players in Wilms Tumor Recurrences**

Daniela Perotti, PhD

5:00 PM

Adjournment

6:00 PM

**COCKTAIL RECEPTION & DINNER**

COCKTAIL RECEPTION — COCO PAZZERIA (6:00 PM)

DINNER — MORSO (7:00 PM)

We invite all attendees to join us for a complimentary cocktail.

**RSVP is required for the dinner only as space is limited.**

**FRIDAY, JUNE 7, 2024**

ZUCKERMAN RESEARCH CENTER (AUDITORIUM)

8:00 AM

**BREAKFAST BREAKOUT SESSION**

ROOM 105\*

**Discovery of Improved Wilms Tumor Therapeutic Targets and Approaches**

Jesper Sune Brok, MD, PhD

Michael V. Ortiz, MD

Daniela Perotti, PhD

Amy Walz, MD

\*Space in 105 is limited. A live stream of the discussion will be available in 136.

9:25 AM

**Day 3 Welcome**

Michael V. Ortiz, MD

9:30 AM



**KEYNOTE**

**Applying the Brakes and Accelerators to CARs and Trucks to Bypass the Roadblocks**

John Anderson, PhD

10:10 AM

**GPC3-CAR T Cells Co-Expressing IL 15 Mediate Potent Antitumor Activity in Solid Cancer Patients Associated with Toxicity That Can Be Mitigated Using iC9 Safety Switch**

David Steffin, MD

10:35 AM

Break and Refreshments

**POSTER SESSION**

LOBBY

11:35 AM

**Overcoming Clinical Resistance to EZH2 Inhibition Using Rational Epigenetic Combination Therapy**

Yaniv Kazansky, PhD

12:00 PM

**KDM4 Inhibition Demonstrates Activity in Favorable Histology Wilms Tumor Patient-Derived Xenograft Models**

Prahalathan Pichavaram, PhD

12:25 PM

**Dissection of Tumor-Intrinsic and Tumor-Extrinsic Features of MIT/TFE Translocation Renal Cell Carcinoma via Single-Cell RNA Sequencing**

Prathyusha Konda, PhD

12:50 PM

Lunch

2:00 PM



**KEYNOTE**

**Targeting TFE3 and TFE3 in Renal Tumorigenesis**

Elizabeth (Lisa) Petri Henske, MD

2:40 PM

**A Novel Murine Transgenic Model of SFPQ-TFE3-Driven Renal Tumorigenesis: Mechanisms and Biomarkers**

Kaushal Asrani, MBBS, PhD

3:05 PM

**Genomic and Functional Characterization of Translocation Renal Cell Carcinoma**

Srinivas Viswanathan, MD, PhD

3:30 PM

Break and Refreshments

4:00 PM

**FDA Mechanisms to Support Pediatric Cancer Drug Development**

Martha Donoghue, MD

4:25 PM

**Using Pediatric Leukemia Roadmaps as a Framework for Treating Newly Diagnosed Advanced Stage Extra-Cranial Rhabdoid Tumor**

Michael V. Ortiz, MD

Damon Reed, MD

4:50 PM

**Closing Remarks with Scientific Committee**

Michael V. Ortiz, MD

Alex Kentsis, MD, PhD

5:00 PM

Adjournment

7:05 PM

**BASEBALL GAME — NY YANKEES VS. LA DODGERS**

**YANKEE STADIUM**

Join us at Yankee Stadium! Kindly note that transportation will not be provided and attendees are responsible for purchasing their tickets.

COMPLIMENTARY REGISTRATION:

[msk.org/PedsRenalSymposium](https://msk.org/PedsRenalSymposium)

## ORAL PRESENTERS

### **Natalie Andersson, MD, PhD Student**

Lund University  
Lund, Sweden

### **Kaushal Asrani, MBBS, PhD**

Johns Hopkins School of Medicine  
Baltimore, MD, USA

### **Jack Brzezinski, MD**

The Hospital for Sick Children  
Toronto, Canada

### **Martha Donoghue, MD**

FDA Oncology Center of Excellence  
Silver Spring, MD, USA

### **Keri Drake, MD**

University of Texas Southwestern  
Medical Center  
Dallas, TX, USA

### **Yaniv Kazansky, PhD**

Cornell Medical School  
New York, NY, USA

### **Tobias Karakach, PhD**

Dalhousie University  
Halifax, Canada

### **Patrick Kemmeren, PhD**

Princess Máxima Center for  
Pediatric Oncology  
Utrecht, The Netherlands

### **Prathyusha Konda, PhD**

Dana-Farber Cancer Institute  
Boston, MA, USA

### **Sophie van Peer, MD, PhD Student**

Princess Máxima Center for  
Pediatric Oncology  
Utrecht, The Netherlands

### **Prahalathan Pichavaram, PhD**

St. Jude Children's Hospital  
Memphis, TN, USA

### **Damon Reed, MD**

Memorial Sloan Kettering Cancer Center  
New York, NY, USA

### **David Steffin, MD**

Texas Children's Hospital  
Houston, TX, USA

### **Lola Takhirov, BA, PhD Student**

University of Southern California  
Los Angeles, CA, USA

### **Patricia D. B. Tiburcio, PhD**

University of Texas Southwestern Medical  
Center  
Dallas, TX, USA

### **Srinivas Viswanathan, MD, PhD**

Dana-Farber Cancer Institute  
Boston, MA, USA

### **Liling Wan, PhD**

University of Pennsylvania  
Philadelphia, PA, USA

## POSTER PRESENTERS

### **Reem Al-Saadi, BSc**

University College London  
London, United Kingdom

### **Teaghan Frauley, BS**

University of Toronto  
Toronto, Canada

### **Jayne Hehir-Kwa, PhD**

Princess Máxima Center  
Utrecht, Netherlands

### **Alissa Groisser, MD**

Children's National Hospital  
Washington, D.C., USA

### **Nicole Ludwig, PhD**

Saarland University  
Saarbrücken, Germany

### **Marina Parisi Dutra, MD**

Hospital for Sick Children,  
University of Toronto  
Toronto, Canada

### **Julia Sprokkerieft, PhD Student**

Princess Máxima Center  
Utrecht, Netherlands

### **Robyn Spoon, MA**

Elevate Childhood Cancer Research  
and Advocacy  
Columbus, IN, USA

### **Elisabeth (Lisa) Tracy, MD**

Duke University  
Durham, NC, USA

### **Sophie Van Peer, MD, PhD Student**

Princess Máxima Center  
Utrecht, Netherlands

### **Cary Weiss, MD, PhD**

Dana Farber Cancer Institute  
Boston, MA, USA



## Accreditation

Memorial Sloan Kettering Cancer Center is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

### AMA CREDIT DESIGNATION STATEMENT

Memorial Sloan Kettering Cancer Center designates this live activity for a maximum of **18.50 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### ABP MOC RECOGNITION STATEMENT

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to **18.50 MOC Points** in the American Board of Pediatrics' (ABP) Maintenance of Certification (MOC) program. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABP MOC credit.

**MOC/CC points earned will be reported to the board within 45 days of the completion of the activity.**

Please note Continuing Medical Education (CME) credit is not available for the Posters Sessions.



Memorial Sloan Kettering  
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