

**Memorial Sloan Kettering Cancer Center (MSK)
and Weill Cornell Medicine (WCM) Curriculum Vitae**

Name: Stephen Solomon, M.D.

Signature: 

Date of Preparation: 07/05/2023 12:43 PM

A. PERSONAL DATA

Office address:	1275 York Avenue New York, NY 10065
Office telephone:	212-639-5012

B. EDUCATION

Academic Degree(s)

Degree (include field of study)	Institution Name & Location
BA	Harvard College - Cambridge, MA
MD	Yale School of Medicine - New Haven, CT

Other Educational Experiences

Description	Institution Name & Location
Business of Medicine	Johns Hopkins Continuing Studies

C. POSTDOCTORAL TRAINING

Title (include area of training)	Institution Name & Location
Intern, Internal Medicine	Yale-New Haven Hospital - New Haven, CT, CT
Resident, Radiology	Johns Hopkins Hospital - Baltimore, MD
Fellow, Interventional Radiology	New York Presbyterian Hospital Weill Cornell Medical Center - New York, NY

D. PROFESSIONAL POSITIONS & EMPLOYMENT

Academic Appointments

Title	Institution, City and State	Dates
Instructor	Johns Hopkins Hospital University - Baltimore, MD	01/98 - 01/99
Assistant Professor	Johns Hopkins Hospital University Departments of Radiology and Urology - Baltimore, MD	01/99 - 01/05
Assistant Professor- Part Time (Adjunct)	Johns Hopkins Hospital University Departments of Radiology and Urology - Baltimore, MD	01/05 - 01/08
Associate Member, Memorial Hospital	Memorial Sloan Kettering Cancer Center - New York, NY	01/05 - 01/11
Assistant Professor of Radiology	Weill Cornell Medical College - New York, NY	01/06 - 01/07
Associate Professor of Radiology	Weill Cornell Medical College - New York, NY	01/07 - 01/11
Member, Memorial Hospital	Memorial Sloan Kettering Cancer Center - New York, NY	01/11 - Present
Professor of Radiology	Weill Cornell Medical College - New York, NY	01/11 - Present

Hospital Appointments

Title	Institution, City and State	Dates
Assistant Attending Physician	Johns Hopkins Hospital Department of Radiology - Baltimore, MD	01/98 - 01/04
Associate Attending Radiologist	Memorial Hospital for Cancer and Allied Diseases - New York, NY	01/05 - 01/11
Assistant Attending Radiologist	New York Presbyterian Hospital - New York, NY	01/06 - 01/07
Associate Attending Radiologist	New York Presbyterian Hospital - New York, NY	01/07 - 01/08
Chief of Interventional Radiology Service	Memorial Hospital for Cancer and Allied Diseases - New York, NY	01/08 - Present
Attending Radiologist	Memorial Hospital for Cancer and Allied Diseases - New York, NY	01/11 - Present
Enid A. Haupt Endowed Chair in Clinical Investigation	Memorial Hospital for Cancer and Allied Diseases - New York, NY	01/20 - Present

Other Professional Positions & Employment

Title	Institution, City and State	Dates
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Principal	Cutlass Capital, a Healthcare Venture Capital Firm - Boston, MA	01/01 - 01/05
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E. EMPLOYMENT STATUS

Name of Current Employer(s):	Memorial Sloan Kettering Cancer Center
Current Employment Status:	Full-time salaried by MSK

F. LICENSURE, BOARD CERTIFICATION

Licensure

State
NY
NJ

Board Certification

Full Name of Board
American Board of Radiology
American Board of Radiology – Certificate of Added Qualification, Interventional Radiology

G. INSTITUTIONAL/HOSPITAL AFFILIATION

Primary Hospital Affiliation:	Memorial Hospital for Cancer and Allied Diseases
Other Hospital Affiliations:	N/A
Other Institutional Affiliations:	Weill Cornell Medical College

H. HONORS, AWARDS

Name of Award	Organization
Alpha Omega Alpha (AOA) Medical Honor Society	Yale School of Medicine
Best Radiology Poster	World Congress of Endourology, New York City

Cecile Lehman Mayer Research Finalist for XIX World Congress on Diseases of the Chest	64th Annual International Scientific Assembly of the American College of Chest Physicians, Toronto, Canada
Young Investigator Award for the XIX World Congress on Diseases of the Chest	64th Annual International Scientific Assembly of the American College of Chest Physicians, Toronto, Canada
Melvin Judkins Young Investigator Award	American Heart Association (Mentee: Timm Dickfeld)
Radiology Editor's Recognition Award for reviewing with Distinction. 95 of ~1,000 reviewers awarded	Radiology
The International Society for Magnetic Resonance in Medicine (ISMRM) 2010 MR Thought Leaders	The International Society for Magnetic Resonance
Castle Connolly/Top Doctors	Castle Connolly
Memorial Sloan Kettering Cancer Center Junior Faculty Committee Award for Excellence in Mentoring	Memorial Sloan Kettering Cancer Center
Distinguished Investigator 2019	The Academy of Radiology and Biomedical Imaging
Enid A. Haupt Endowed Chair in Clinical Investigation	Memorial Sloan Kettering Cancer Center
Best Oral Abstract Award	Society of Interventional Oncology
JVIR 2022 Editor's Certificate for Distinguished Laboratory Investigation	Journal of Vascular and Interventional Radiology

I. PROFESSIONAL ORGANIZATIONS AND SOCIETY MEMBERSHIPS

Organization	Date (yyyy-yyyy)
Radiological Society of North America (RSNA)	1998 - Present
Society of Interventional Radiology (SIR)	1998 - Present
American College of Radiology (ACR)	1998 - 2002
Alliance (CALGB) Cooperative Group; Imaging Committee, Surgery Committee	2007 - Present
Society of Interventional Radiology (SIR)	1998 - Present
World Conference on Interventional Oncology	2010 - 2017
American Society of Clinical Oncology (ASCO)	2010 - Present
RSNA, Molecular Imaging Committee Member	2013 - 2015
Society of Interventional Oncology, President	2017 - 2019

Society of Interventional Oncology, Executive Committee	2019 - 2020
Interventional Oncology-Clinical Outcomes Registry Foundation, Board Member	2020 - 2022

J. PERCENT EFFORT AND INSTITUTIONAL RESPONSIBILITIES

MSK Activity	Percent Effort (%)
Teaching	15%
Clinical	45%
Administrative	20%
Research	20%
Total	100%

K. EDUCATIONAL CONTRIBUTIONS

Teaching

Didactic teaching

Title	Audience
Didactic lectures	WCMC Medical Students, Residents
Lecture, "Thermal Ablation of Renal Tumors"	CGUS Urology, MSKCC
Lecture, "Advances in Interventional Oncology"	Radiation Oncology Grand Rounds, MSKCC
Lecture, "Ablation of Renal Tumors"	Urology Grand Rounds, Cornell University
Lecture, "Imaging Integration in Surgery"	Surgical Grand Rounds, MSKCC
Lecture, "Thermal Ablation Soft Tissue Sarcoma"	MSKCC Sarcoma DMT
Lecture, "Percutaneous Ablation of Small Renal Masses Is As Effective and Safer Than Surgical Excision"	MSKCC Grand Surgery Rounds
Lecture, "Incorporating Interventional Approaches in the Management of NSCLC"	MSKCC
Lecture, "Innovations in Interventional Oncology: From the Bench to the Clinic"	MSKCC Medical Oncology Grand Rounds
Lecture, "Ablation Options for Patients with VHL Tumors"	MSKCC
Lecture, "Interventional Radiology: Advancing the Field of Radiation Oncology"	MSKCC

Lecture, "Lung Ablation"	MSKCC Pulmonary Ground Rounds
Lecture, "Advances in Interventional Oncology"	MSKCC Development Department Short Hills, NJ Health Education Seminar
Lecture, "Medical Device Regulatory Process"	MSKCC Medical Fellow Conference
Lecture, "Ablation for Painful Bony Metastases"	MSKCC Pain & Palliative Care Grand Rounds
Lecture, "Update on Interventional Radiology & Applications to Molecular Oncology"	MSKCC Center of Mechanism Based Therapy
Lecture, "Interventional Radiology and imaging in Phase I target Trials"	MSKCC Center of Mechanism Based Therapy
Lecture, "Cancer Treatments Performed without Knives, Chemotherapy, or Radiation"	The Society of Memorial Sloan Kettering - Health Education Seminar
Lecture, "Molecular Imaging Guided Interventions"	2nd Annual Intraoperative Imaging Technologies for Cancer Detection & Treatment
Lecture, "Rise of Immunotherapy in Oncology: How we are Incorporating in our Departments"	Clinical Applications of CAR T cells 2nd Annual International Conference
Lecture, "Electroporation in the Lung: Focal Treatment, Drug Delivery and More"	MSKCC Thoracic Surgery Research Conference
Lecture, "Liver Ablation (RFA, MWA, Cryo, Alcohol)"	MSKCC
Lecture, "Molecular Imaging Guided Interventions"	3rd Annual Intraoperative Imaging Technologies for Cancer Detection & Treatment
Lecture, "Systemic Effects of Ablation"	Multidisciplinary Spine Oncology Symposium
Lecture, "Molecular Imaging Guided Interventions"	MSKCC/WCMC Resident Lecture
Lecture, "Lung Ablation for Oligometastatic Colorectal Cancer"	4th Annual Advances in Colorectal Oncology

Clinical teaching

Title	Audience	Dates
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Teaching Interventional Radiology Fellows	Interventional Radiology Residents/Fellows	01/2005 - Present
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Administrative teaching

Title	Audience
Developed the weekly, multi-disciplinary Image Guided Intervention Seminar Series	MSKCC
Developed IR Weekly Case Conference Program	MSKCC
Developed IR Grand Rounds Program	MSKCC
Center for Image-Guided Intervention (CIGI)	MSKCC
Established ACGME MSKCC IR Fellowship	MSKCC
Established MSKCC Interventional Oncology Fellowship	MSKCC
World Conf Interventional Oncology, Program Director	International Physicians

Other education/outreach activities

Title	Audience	Dates
Precision Interventional Radiology	MSK Society	01/2015

L. CLINICAL PRACTICE, INNOVATION, and LEADERSHIP

Clinical Practice

Duration	Name/Location of Practice	Level of Activity
18 years (2005 - Present)	New Clinical Programs: Interventional PET, Radiation Protection, Spine Augmentation, Thoracic Duct Leak Repair, Interventional MR / Clinic	
18 years (2005 - Present)	Interventional Radiology Clinic / Clinic	Daily
18 years (2005 - Present)	Translation of ablation research from the laboratory to the clinical arena / MSKCC	Daily
18 years (2005 - Present)	Oncologic Interventions / MSKCC	Daily

Clinical Innovations

Date Innovation Launched	Title/Location of Innovation	Role	Short Description of the influence on clinical care or practice management

2005	Immunotherapy + Ablation	PI	Combined Immunotherapy + Ablation for Abscopal
2007	IR Clinic	Chief	Developed first MSKCC IR Clinic now seeing over 5,000 patients annually
2010	Molecular Imaging Guided Interventions	PI	PET guided biopsy, ablations
2010	Center for Image Guided Interventions	Director	New platform for innovative, image-guided therapies
2012	Spectroscopy Biopsy	PI	In-Room Assessment of Biopsy Sample
2019	IR Complication Database	Chief	Computer entry complication database
2020	Rapid Biopsy Program	Chief	New Patients to MSKCC without a Diagnosis are Seen First by IR to get Diagnosis and Triage to Oncologist
2020	Mobile IR	Chief	Bedside IR Procedure Team
2020	IR Inpatient Admissions	Chief	Koch Inpatient Bed Admitting Service

M. RESEARCH

Research Summary:

Dr. Solomon has received Federal, Foundation, and Industry research support. His laboratory contains a CT and fluoroscopy unit housed at Zuckerman for translational work. His major focus of research has been image-guided tumor ablation. This is work that has been developed in pre-clinical setting and then translated to patient care. He has been very innovative, developing several new devices, and holding multiple patents. Several of his innovations have become standard of care devices and techniques through successful clinical translation.

Research Activities:

Principal Investigator: Maybody, Majid, MD
 Co-Principal Investigator: Solomon, Stephen, MD
 Outcomes of Image Guided Interventions at Interventional Radiology Service
 IRB#: 16-402
 5/3/2016-Present

Principal Investigator: Solomon, Stephen, MD
 Percutaneous US and CT-Guided Cryoablation of Painful Metastases Involving Bone: A Feasibility Study
 IRB#: 06-158
 5/10/2007-4/3/2010 Date(s): 05/2007 - 04/2010

Principal Investigator: Solomon, Stephen, MD
 Feasibility Study to Determine the Safety (through 12-week) and Effectiveness (through 2-weeks) of a Single 1.5 mL Transthoracic Injection of PneuSeal versus Baseline and Historical Controls for the Prevention of Pneumothorax Following Transthoracic Needle Biopsy of the Lung
 IRB#: 08-071
 9/4/2008-6/23/2009 Date(s): 09/2008 - 06/2009

Principal Investigator: Maybody, Majid, MD Co-Principal Investigator: Solomon, Stephen, MD A Pivotal Study to Evaluate the Effectiveness and Safety of ExAblate Treatment of Metastatic Bone Tumors for the Palliation of Pain in Patients Who are not Candidates for Radiation Therapy IRB#: 08-131 1/13/2009-11/23/2010 Date(s): 01/2009 - 11/2010
Principal Investigator: Solomon, Stephen, MD Bio-Impedance Measurements of Tumors IRB#: 09-042 5/6/2009-4/13/2010 Date(s): 05/2009 - 04/2010
Principal Investigator: Erinjeri, Joseph, MD, PhD Co-Principal Investigator: Solomon, Stephen, MD Mediators Underlying Local Inflammation and Treatment Response Following Image Guided Intervention IRB#: 09-150 11/9/2009-Present Date(s): 11/2009
Principal Investigator: Solomon, Stephen, MD Percutaneous Renal Tumor Cryoablation Followed by Biopsy IRB#: 09-108 11/10/2009-9/22/2015 Date(s): 11/2009 - 09/2015
Principal Investigator: Schoder, Heiko, MD Co-Principal Investigator: Solomon, Stephen, MD The Use of Breathing Synchronized PET/CT Scans for the Detection of Malignant Lung Lesions and Liver Lesions and Assessment of Tumor Glycolysis IRB#: 09-134 1/15/2010-3/13/2012 Date(s): 01/2010 - 03/2012
Principal Investigator: McArthur, Heather, MD Co-Principal Investigator: Solomon, Stephen, MD A Pilot-Study of Pre-Operative, Single-Dose Ipilimumab and/or Cryoablation in Early Stage/Resectable Breast Cancer IRB#: 11-202 12/27/2011-12/3/2014 Date(s): 12/2011 - 12/2014
Principal Investigator: Kirov, Assen, PhD Co-Principal Investigator: Solomon, Stephen, MD Evaluation and Improvement of PET Accuracy for Tumor Targeting Using Autoradiography and Pathology Tests of Biospecimens from Patients Undergoing PET/CT Guided Biopsy and Consented to IRB# 06-107 IRB#: 12-072 4/9/2012-Present Date(s): 04/2012
Principal Investigator: Solomon, Stephen, MD Analysis of Circulating Tumor Cells as Related to Metastatic Vasculature IRB#: 12-271 12/06/2012-Present Date(s): 12/2012
Principal Investigator: Durack, Jeremy, MD Co-Principal Investigator: Solomon, Stephen, MD Ablation of Renal Masses Outcomes Registry (ARMOR): Ablation Procedure and Quality of Life Assessment IRB#: 13-116 6/27/2013-Present Date(s): 06/2013

Principal Investigator: Maybody, Majid, MD Co-Principal Investigator: Solomon, Stephen, MD Effect on Autologous Blood Patch Injection Versus BioSentry Hydrogel Tract Plug in the Reduction of Pneumothorax Risk Following Lung Biopsy Procedures IRB#: 14-141 8/21/2014-Present Date(s): 08/2014
Principal Investigator: Dickler, Maura, MD Co-Principal Investigator: Solomon, Stephen, MD A Single-arm, Open-label Study of Ad-RTS-hIL-12 + Veledimex Following First- or Second-Line Standard Treatment in Subjects with Locally Advanced or Metastatic Breast Cancer IRB#: 15-024 4/3/2015-Present Date(s): 04/2015
Principal Investigator: Solomon, Stephen, MD Multi-Center Study of Metastatic Lung Tumors Targeted at Interventional Cryoablation Evaluation (SOLSTICE) IRB#: 15-018 4/14/2015-Present Date(s): 04/2015
Principal Investigator: Segal, Neil, MD, PhD Co-Principal Investigator: Solomon, Stephen, MD Single Arm Phase II Study to Assess the Efficacy of Pembrolizumab Plus Radiotherapy or Ablation in Metastatic Colorectal Cancer Patients IRB#: 15-069 4/22/2015-Present Date(s): 04/2015
Principal Investigator: Yu, Helena, MD Co-Principal Investigator: Solomon, Stephen, MD Pilot Study of Local Therapies for Oligometastatic Non-Small Cell Lung Cancer Harboring Sensitizing EGFR Mutations IRB#: 15-067 5/14/2015-Present Date(s): 05/2015
Principal Investigator: Solomon, Stephen, MD Irreversible Electroporation Ablation for Colorectal Metastases to the Lung IRB#: 15-001 5/22/2015-2/27/2017 Date(s): 05/2015 - 02/2017
Principal Investigator: Solomon, Stephen, MD Microwave Ablation – Evaluation of Safety and Efficacy IRB#: 16-141 3/24/2016-Present Date(s): 03/2016
Principal Investigator: Solomon, Stephen, MD Positron Emission Tomography (PET)-guided Interventions IRB#: 16-201 4/5/2016-Present Date(s): 04/2016
Principal Investigator: Durack, Jeremy, MD Co-Principal Investigator: Solomon, Stephen, MD Evaluation of Clinical and Technical Factors Impacting Quality and Adequacy of Image Guided Percutaneous Biopsies IRB#: 16-230 4/12/2016-Present Date(s): 04/2016
Principal Investigator: Maybody, Majid, MD Co-Principal Investigator: Solomon, Stephen, MD

<p>Outcomes of Image Guided Interventions at Interventional Radiology Service IRB#: 16-402 5/3/2016-Present Date(s): 05/2016</p>
<p>Principal Investigator: Solomon, Stephen, MD Safety and Efficacy of Irreversible Electroporation IRB#: 16-417 5/4/2016-Present Date(s): 05/2016</p>
<p>Principal Investigator: Solomon, Stephen, MD CT-Guided Biopsy of Mediastinal Nodal Stations for Lung Cancer Staging IRB#: 16-537 5/24/2016-5/18/2017 Date(s): 05/2016 - 05/2017</p>
<p>Principal Investigator: Durack, Jeremy, MD Co-Principal Investigator: Solomon, Stephen, MD Arms Down vs Arms Up Cone-Beam CT Image Quality Review IRB#: 16-659 6/3/2016-Present Date(s): 06/2016</p>
<p>Principal Investigator: Comen, Elizabeth, MD Co-Principal Investigator: Solomon, Stephen, MD A Pilot Study of Pre-Operative, Single-Dose Ipilimumab, Nivolumab and Cryoablation in Early Stage/Resectable Breast Cancer IRB#: 16-495 6/17/2016-Present Date(s): 06/2016</p>
<p>Principal Investigator: Solomon, Stephen, MD Optimization of Cone-Beam Computed Tomography Imaging for Image-Guided Tumor Catheter Directed Therapies IRB#: 16-902 7/8/2016-Present Date(s): 07/2016</p>
<p>Principal Investigator: Solomon, Stephen, MD Assessment of Flight Plan for Liver IRB#: 16-894 7/8/2016-Present Date(s): 07/2016</p>
<p>Principal Investigator: Thornton, Raymond, MD Co-Principal Investigator: Solomon, Stephen, MD Thermal Ablation of Lung Tumors-Evaluation of Procedural Technique, Imaging Followup and Patient Outcomes IRB#: 16-1553 11/11/2016-Present Date(s): 11/2016</p>
<p>Principal Investigator: Segal, Neil, MD, PhD Co-Principal Investigator: Solomon, Stephen, MD IIT: Phase II Study to Assess the Efficacy of Durvalumab (MEDI4736) and Tremelimumab Plus Radiotherapy or Ablation in Patients with Metastatic Colorectal Cancer IRB#: 17-139 4/24/2017-Present Date(s): 04/2017</p>
<p>Principal Investigator: Ziv, Etay, MD, PhD Co-Principal Investigator: Solomon, Stephen, MD Radiomics of Pulmonary Nodules IRB#: 17-353 7/10/2017-Present Date(s): 07/2017</p>

Principal Investigator: Bryce, Yolanda, MD Co-Principal Investigator: Solomon, Stephen, MD Outcome of Cryoablation of Primary Breast Cancer IRB#: 18-392 9/28/2018-Present Date(s): 09/2018
Principal Investigator: Durack, Jeremy, MD Co-Principal Investigator: Solomon, Stephen, MD PAC Protocol RRP: Vanguard Clinical Outcomes Analysis of Catheter Tip Position (COACT) Study: Totally Implantable Venous Access Devices IRB#: 19-003 1/7/2019-Present Date(s): 01/2019

Research Support:

Current Research Funding

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Industry - Daiichi Pharmaceuticals
Project title:	Multicenter Phase 2 Trial of ARQ 197 for Subjects with Relapsed or Refractory Germ Cell Tumors
Annual direct costs:	\$200,115
Duration of support: (mm/yyyy-mm/yyyy)	12/2009 - 12/2023
Name of Principal Investigator:	Feldman, Darren, MD
Your Role*:	Co- Investigator
Your percent (%) effort:	4%
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Galil Medical, Inc. (GALIL)
Project title:	Multi-Center Study of Metastatic Lung Tumors Targeted by Interventional Cryoablation Evaluation (SOLSTICE)
Annual direct costs:	\$92,550
Duration of support: (mm/yyyy-mm/yyyy)	04/2015 - 04/2025
Name of Principal Investigator:	Solomon, Stephen
Your Role*:	PD/PI
Your percent (%) effort:	0%

The major goals of this project are:	N/A
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Award Source:(funding agency - federal, foundation, industry; type of grant)*	General Electric (GE)
Project title:	SRA-New Developments in Interventional Radiology
Annual direct costs:	\$195,931
Duration of support: (mm/yyyy-mm/yyyy)	01/2018 - 12/2021 (Extended)
Name of Principal Investigator:	Solomon, Stephen
Your Role*:	PD/PI
Your percent (%) effort:	0%
The major goals of this project are:	N/A

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Society of Interventional Radiology Foundation (SIR)
Project title:	The Impact of PI3K Pathway Mutations on the Response to Hepatic Arterial Radioembolization in Metastatic Breast Cancer
Annual direct costs:	\$25,000
Duration of support: (mm/yyyy-mm/yyyy)	07/2018 - 11/2021 (Extended)
Name of Principal Investigator:	Solomon, Stephen
Your Role*:	PD/PI
Your percent (%) effort:	
The major goals of this project are:	This pilot study will prospectively ascertain the incidence of MBC PI3K pathway mutations present in liver biopsy specimens collected at the time of mapping with next generation sequencing, and determine whether they are predictive of favorable PET/CT res

Award Source:(funding agency - federal, foundation, industry; type of grant)*	NeuWave Medical, Inc. (NMI)
Project title:	SRA-Pre-clinical Feasibility of Trans-Bronchial MW of Normal Lung Tissue in Porcine Model
Annual direct costs:	\$101,787
Duration of support: (mm/yyyy-mm/yyyy)	01/2020 - 12/2022 (Extended)
Name of Principal Investigator:	Solomon, Stephen

Your Role*:	PD/PI
Your percent (%) effort:	0%
The major goals of this project are:	N/A

Past (Completed) Funding

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Industry - GE Healthcare
Project title:	GE-A01: Optimizing Parameters for Cone Beam CT
Annual direct costs:	\$9,800
Duration of support: (mm/yyyy-mm/yyyy)	01/2008 - 09/2008
Name of Principal Investigator:	Solomon, Stephen, MD
Your Role*:	Principal Investigator
Your percent (%) effort:	0%
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Industry - Abl-Tx Inc.
Project title:	SK 14600: Correlation between Temperature Changes and Hounsfield Unit Changes on CT
Annual direct costs:	\$4,822
Duration of support: (mm/yyyy-mm/yyyy)	02/2008 - 12/2008
Name of Principal Investigator:	Solomon, Stephen, MD
Your Role*:	Principal Investigator
Your percent (%) effort:	20%
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Industry - Angiodynamics
Project title:	SK 14987: Irreversible Electroporation (IRE) Ablation Near Critical Structures
Annual direct costs:	\$4,822

Duration of support: (mm/yyyy-mm/yyyy)	03/2008 - 01/2009
Name of Principal Investigator:	Solomon, Stephen, MD
Your Role*:	Principal Investigator
Your percent (%) effort:	20%
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Industry - Med Waves
Project title:	SK 15637: Microwave Ablation in Liver
Annual direct costs:	\$7,114
Duration of support: (mm/yyyy-mm/yyyy)	08/2008 - 01/2009
Name of Principal Investigator:	Thornton, Raymond, MD
Your Role*:	Co-Principal Investigator
Your percent (%) effort:	0%
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Industry - GE Healthcare
Project title:	GE-A03: Correlation of CT Perfusion and Pathologic findings after Liver Ablation
Annual direct costs:	\$20,489
Duration of support: (mm/yyyy-mm/yyyy)	01/2008 - 06/2009
Name of Principal Investigator:	Solomon, Stephen, MD
Your Role*:	Principal Investigator
Your percent (%) effort:	0%
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Industry - GE Healthcare
Project title:	GE-A04: Electromagnetic Position Sensors for Interventional Oncology
Annual direct costs:	\$21,780

Duration of support: (mm/yyyy-mm/yyyy)	01/2008 - 06/2009
Name of Principal Investigator:	Solomon, Stephen, MD
Your Role*:	Principal Investigator
Your percent (%) effort:	17.89%
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Industry - GE Healthcare
Project title:	GE-A02: Validating Parameters for Cone Beam CT
Annual direct costs:	\$35,800
Duration of support: (mm/yyyy-mm/yyyy)	01/2008 - 09/2009
Name of Principal Investigator:	Solomon, Stephen, MD
Your Role*:	Principal Investigator
Your percent (%) effort:	0%
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Industry - GE Healthcare
Project title:	SKI#14316: Large Animal Imaging Research
Annual direct costs:	\$3,500,000
Duration of support: (mm/yyyy-mm/yyyy)	01/2008 - 01/2011
Name of Principal Investigator:	Solomon, Stephen, MD
Your Role*:	Principal Investigator
Your percent (%) effort:	0%
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Federal - Department of Defense
Project title:	W81XWH-08-1-0231 / PC074262 – Robot for Image-Targeted Prostate Cancer
Annual direct costs:	\$301,186

Duration of support: (mm/yyyy-mm/yyyy)	04/2008 - 04/2012
Name of Principal Investigator:	Hricak, Hedvig, MD
Your Role*:	Co-Principal Investigator
Your percent (%) effort:	2%
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Foundation - Geoffrey Beene Cancer Research Center
Project title:	Characterization of the Molecular Heterogeneity of EGFR Mutant Lung Adenocarcinoma: Baseline and Post-Treatment Tumor Analysis
Annual direct costs:	\$184,746
Duration of support: (mm/yyyy-mm/yyyy)	08/2010 - 07/2012
Name of Principal Investigator:	Paik, Paul, MD
Your Role*:	Co-Principal Investigator
Your percent (%) effort:	5%
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Foundation - Uniting Against Lung Cancer/ Joan's Legacy
Project title:	Characterization of the Molecular Heterogeneity of EGFR Mutant Lung Adenocarcinoma: Baseline and Post-Treatment Tumor Analysis
Annual direct costs:	\$45,455
Duration of support: (mm/yyyy-mm/yyyy)	11/2010 - 10/2014
Name of Principal Investigator:	Paik, Paul, MD
Your Role*:	Co-Principal Investigator
Your percent (%) effort:	5%
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Federal - NIH/NCI
Project title:	1R21CA159559-01A1: Irreversible Electroporation Ablation for Colorectal Metastases to The Lung

Annual direct costs:	\$238,685
Duration of support: (mm/yyyy-mm/yyyy)	09/2012 - 08/2015
Name of Principal Investigator:	Solomon, Stephen, MD
Your Role*:	Principal Investigator
Your percent (%) effort:	10%
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Foundation - Society of Interventional Radiology Foundation – Dr. Ernest J. Ring Academic Development Grant
Project title:	Modulating Inflammation to Improve Treatment Response
Annual direct costs:	\$76,000
Duration of support: (mm/yyyy-mm/yyyy)	06/2012 - 12/2015
Name of Principal Investigator:	Erinjeri, Joseph, MD
Your Role*:	Co-Principal Investigator
Your percent (%) effort:	30%
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Foundation - The Breast Cancer Research Foundation
Project title:	Phase 2 Study of Ipilimumab, Nivolumab and Cryoablation Vs Standard Care in Triple Negative Disease
Annual direct costs:	\$250,000
Duration of support: (mm/yyyy-mm/yyyy)	10/2014 - 09/2016
Name of Principal Investigator:	McArthur, Heather, MD
Your Role*:	Co-Principal Investigator
Your percent (%) effort:	5%
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Foundation - Prostate Cancer Foundation
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Project title:	Rapid Spectroscopic Assessment of Targeted Prostate Cancer Biopsy Sufficiency at the Point-of-Care
Annual direct costs:	\$225,000
Duration of support: (mm/yyyy-mm/yyyy)	01/2014 - 01/2017
Name of Principal Investigator:	Durack, Jeremy, MD
Your Role*:	Co-Principal Investigator
Your percent (%) effort:	0%
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Federal - NIH/NCI
Project title:	Hypoxia Image-Guided Radiation Therapy
Annual direct costs:	\$239,221
Duration of support: (mm/yyyy-mm/yyyy)	08/2012 - 05/2017
Name of Principal Investigator:	Lee, Nancy Y., MD
Your Role*:	Co-Principal Investigator
Your percent (%) effort:	3%
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Federal - NIH/NCI/University of Chicago
Project title:	Development of Advanced C-Arm Cone-Beam CT for the Treatment of Liver Cancer
Annual direct costs:	\$70,550
Duration of support: (mm/yyyy-mm/yyyy)	07/2014 - 06/2018
Name of Principal Investigator:	Pan, Xiaochuan, MD
Your Role*:	Co-Principal Investigator
Your percent (%) effort:	5%
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Foundation - The Society of MSK
Project title:	SRA-New Developments in Interventional Radiology
Annual direct costs:	\$15,000
Duration of support: (mm/yyyy-mm/yyyy)	01/2017 - 12/2018
Name of Principal Investigator:	Solomon, Stephen, MD
Your Role*:	Principal Investigator
Your percent (%) effort:	
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Federal - DOD/Congressionally Directed Medical Research Programs
Project title:	Genetically Inducible Porcine Model of Primary and Metastatic HCC in Comorbidity Host Environments for Interventional Radiology Guided Detection and Treatment
Annual direct costs:	\$55,599
Duration of support: (mm/yyyy-mm/yyyy)	08/2016 - 07/2019
Name of Principal Investigator:	Solomon, Stephen, MD
Your Role*:	Principal Investigator
Your percent (%) effort:	5%
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Industry - Aperture Medical, LLC
Project title:	SRA-Access Device Form
Annual direct costs:	\$4,095
Duration of support: (mm/yyyy-mm/yyyy)	07/2017 - 07/2019
Name of Principal Investigator:	Solomon, Stephen, MD
Your Role*:	Principal Investigator
Your percent (%) effort:	
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Industry - General Electric Healthcare
Project title:	SRA-New Developments in Interventional Radiology
Annual direct costs:	\$195,931
Duration of support: (mm/yyyy-mm/yyyy)	01/2018 - 12/2019
Name of Principal Investigator:	Solomon, Stephen, MD
Your Role*:	Principal Investigator
Your percent (%) effort:	
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Foundation - Thompson Family Foundation
Project title:	Targeting Pancreas Cancer
Annual direct costs:	\$9,141,000
Duration of support: (mm/yyyy-mm/yyyy)	03/2017 - 02/2022
Name of Principal Investigator:	Kelsen, David, MD
Your Role*:	Co-Principal Investigator
Your percent (%) effort:	
The major goals of this project are:	

Award Source:(funding agency - federal, foundation, industry; type of grant)*	GE Healthcare
Project title:	Three Dimensional MR Thermometry to Guide Tumor Ablation Procedures
Annual direct costs:	\$288,159
Duration of support: (mm/yyyy-mm/yyyy)	03/2012 - 03/2022
Name of Principal Investigator:	Solomon,Stephen
Your Role*:	PD/PI
Your percent (%) effort:	
The major goals of this project are:	MR thermometry has the potential to provide feedback during tumor ablation that will enable safer ablations and

	more effective ablations of cancerous tissue. However, MR thermometry has been used primarily in a two - dimensional single plane manner and a
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Award Source:(funding agency - federal, foundation, industry; type of grant)*	General Electric (GE)
Project title:	SRA-Validation of CBCT-based embolization planning software in the context of IO
Annual direct costs:	\$176,640
Duration of support: (mm/yyyy-mm/yyyy)	12/2020 - 12/2022
Name of Principal Investigator:	Solomon, Stephen
Your Role*:	PD/PI
Your percent (%) effort:	
The major goals of this project are:	n/a

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Mass Ventures
Project title:	Prostate cancer diagnostic technology
Annual direct costs:	\$16,500
Duration of support: (mm/yyyy-mm/yyyy)	12/2022 - 05/2023
Name of Principal Investigator:	Govind Srimathveeravalli
Your Role*:	Co-Principle Investigator
Your percent (%) effort:	
The major goals of this project are:	Validate technology for novel percutaneous biopsy.

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Federal - NIH/NIBIB
Project title:	Image-guided irreversible electroporation directed CAR T-cell delivery to solid tumors
Annual direct costs:	\$392,764
Duration of support: (mm/yyyy-mm/yyyy)	08/2018 - 07/2023
Name of Principal Investigator:	Solomon, Stephen, MD
Your Role*:	Principal Investigator

Your percent (%) effort:	3%
The major goals of this project are:	

Pending Funding

Award Source:(funding agency - federal, foundation, industry; type of grant)*	NIH/NIBIB; R21
Project title:	A Pre-clinical model of lung cancer for optimizing abscopal effects of combined thermal ablation and immunomodulation
Annual direct costs:	\$392,764
Duration of support: (mm/yyyy-mm/yyyy)	
Name of Principal Investigator:	Solomon, Stephen, MD
Your Role*:	Principal Investigator
Your percent (%) effort:	5%
The major goals of this project are:	

Patents & Inventions

Inventors	Title of Invention	Patent Number
Solomon et al	Apparatus for treating obesity by extracting food	20100241090
Solomon et al	Cardiological mapping and navigation system	20030018251
Solomon et al	Cardiology mapping and navigation system	20040152974
Solomon et al	Food extraction apparatus and method	20040220516
Solomon et al	Implantable bone marrow access apparatus	20170035396
Solomon et al	Intestinal ablation to limit food absorption	20060086362
Solomon et al	Needle guide for laparoscopic ultrasonography	20060058680
Solomon et al	Percutaneous breast and buttock modification	20080058926
Solomon et al	Percutaneous breast and buttock modification	20060173484
Solomon et al	Percutaneous surgical instruments and methods using the same	20040133195
Solomon et al	Shunt Apparatus For Treating Obesity By Extracting Food	20110178480
Solomon et al	Shunt apparatus for treating obesity by extracting food	20080091146
Solomon et al	Surgical instrument and method of use for performing tissue resection	20110208223

Solomon et al	System and method for attaching a biopsy collecting device to a spectroscopy system	20150185140
Solomon et al	System and method for attaching a biopsy collecting device to a spectroscopy system	20150182204
Solomon et al	System and method for holding a biopsy collecting device	20150004641
Solomon et al	Tunneling device	20050215994

N. MENTORING

Mentorship is a longitudinal, collaborative learning relationship to help the mentee or protégé succeed. Mentoring can be provided within many formats, including one-to-one, small groups, or large group workshops or lectures, which cover any topic directly related to the mentee's career development.

Institutional Training Grants and Mentored Trainee Grants

Award Source:(funding agency - federal, foundation, industry; type of grant)*	American Heart Association
Project title:	Melvin Judkins Young Investigator Award
Duration of support: (mm/yyyy-mm/yyyy)	01/2002 - 01/2002
Mentee (if applicable):	Timm Dickfeld

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Digestive Disease Week
Project title:	Best Resident Abstract
Duration of support: (mm/yyyy-mm/yyyy)	01/2004 - 01/2004
Mentee (if applicable):	Michael Award

Award Source:(funding agency - federal, foundation, industry; type of grant)*	MSK Society Grant
Project title:	MSK Society Grant
Duration of support: (mm/yyyy-mm/yyyy)	01/2007 - 01/2007
Mentee (if applicable):	Jiang Zhang

Award Source:(funding agency - federal, foundation, industry; type of grant)*	MSK Society Grant
Project title:	MSK Society Grant

Duration of support: (mm/yyyy-mm/yyyy)	01/2008 - 01/2008
Mentee (if applicable):	Vivian Strong

Award Source:(funding agency - federal, foundation, industry; type of grant)*	RSNA Trainee Research Award
Project title:	RSNA Trainee Research Award
Duration of support: (mm/yyyy-mm/yyyy)	01/2009 - 01/2009
Mentee (if applicable):	Ajita Deodhar

Award Source:(funding agency - federal, foundation, industry; type of grant)*	SIR Trainee Research Award
Project title:	SIR Trainee Research Award
Duration of support: (mm/yyyy-mm/yyyy)	01/2010 - 01/2010
Mentee (if applicable):	Ajita Deodhar

Award Source:(funding agency - federal, foundation, industry; type of grant)*	RSNA Scholar Grant
Project title:	RSNA Scholar Grant
Duration of support: (mm/yyyy-mm/yyyy)	01/2012 - 01/2012
Mentee (if applicable):	Joseph Erinjeri

Award Source:(funding agency - federal, foundation, industry; type of grant)*	SIR Gary J. Becker Young Investigator Award
Project title:	SIR Gary J. Becker Young Investigator Award
Duration of support: (mm/yyyy-mm/yyyy)	01/2013 - 01/2013
Mentee (if applicable):	Joseph Erinjeri

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Prostate Cancer Foundation Young Investigator Award
Project title:	Prostate Cancer Foundation Young Investigator Award
Duration of support: (mm/yyyy-mm/yyyy)	01/2015 - 01/2015
Mentee (if applicable):	Jeremy Durack

Award Source:(funding agency - federal, foundation, industry; type of grant)*	DoD Grant
Project title:	DoD Grant
Duration of support: (mm/yyyy-mm/yyyy)	01/2018 - 01/2018
Mentee (if applicable):	Govind Srimathveeravalli

Award Source:(funding agency - federal, foundation, industry; type of grant)*	Druckenmiller Grant
Project title:	Mesothelioma Cryoablation + Immunotherapy
Duration of support: (mm/yyyy-mm/yyyy)	01/2020 - 01/2020
Mentee (if applicable):	Eduardo Lacayo

Mentees

Current Mentees

Name	Mohammad, Elsayed
Site/Position	MSKCC / Fellow
Expected Period (mm/yyyy-mm/yyyy)	06/2022 - Present
Project/Accomplishments**	Intra-arterial chemotherapy for rectal cancer
Goals/expected Outcomes	
Type of Supervision (Research, clinical, teaching, leadership)	Clinical

Past Mentees

Name	Dickfeld, Timm
Site/Position	American Heart Association / Post-Doctoral Fellowship
Mentoring Period (mm/yyyy-mm/yyyy)	01/2002 - 01/2004
Project/Accomplishments**	Real-Time Anatomical Guidance with Magnetic Resonance Imaging for radiofrequency Ablation – A New Paradigm
Current Position	University of Maryland/Professor
Type of Supervision (Research, clinical, teaching, leadership)	Research

Name	Keane, Tom
Site/Position	Cornell / Radiology Resident
Mentoring Period (mm/yyyy-mm/yyyy)	01/2006 - 01/2006
Project/Accomplishments**	Health and Human Services
Current Position	VA New Mexico
Type of Supervision (Research, clinical, teaching, leadership)	Research

Name	Pua, Uei
Site/Position	MSKCC / Visiting Fellow
Mentoring Period (mm/yyyy-mm/yyyy)	01/2010 - 01/2010
Project/Accomplishments**	Research/Clinical
Current Position	Senior Consultant, Tan Tock Seng Hospital, Singapore
Type of Supervision (Research, clinical, teaching, leadership)	Research

Name	Wang, Xiaodong
Site/Position	Research Fellow / Research Fellow
Mentoring Period (mm/yyyy-mm/yyyy)	01/2010 - 01/2011
Project/Accomplishments**	
Current Position	Professor, Beijing University Cancer Hospital
Type of Supervision (Research, clinical, teaching, leadership)	Research

Name	Srimathveeravalli, Govind
Site/Position	MSKCC / Junior Faculty
Mentoring Period (mm/yyyy-mm/yyyy)	01/2012 - 01/2019
Project/Accomplishments**	DoD, NIH
Current Position	University of Massachusetts/Assistant Professor
Type of Supervision (Research, clinical, teaching, leadership)	Research

Name	Cornelis, Francois
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Site/Position	MSKCC / Research Fellow
Mentoring Period (mm/yyyy-mm/yyyy)	01/2013 - 01/2014
Project/Accomplishments**	Fulbright Scholar
Current Position	Professor Sorbonne University, Paris
Type of Supervision (Research, clinical, teaching, leadership)	Research

Name	Boas, Ed
Site/Position	MSKCC / Junior Faculty
Mentoring Period (mm/yyyy-mm/yyyy)	01/2016 - 01/2021
Project/Accomplishments**	DoD, Thompson
Current Position	City of Hope Hospital
Type of Supervision (Research, clinical, teaching, leadership)	Research

Name	Ghosn, Mario
Site/Position	Research Fellow / Research Fellow
Mentoring Period (mm/yyyy-mm/yyyy)	01/2020 - 01/2021
Project/Accomplishments**	Lung tumor model in swine
Current Position	
Type of Supervision (Research, clinical, teaching, leadership)	Research

Name	Ghosn, Mario
Site/Position	Institut Gustave Roussy in Paris / Research Fellow
Mentoring Period (mm/yyyy-mm/yyyy)	01/2022 - 01/2022
Project/Accomplishments**	Transbronchial microwave ablation
Current Position	Institut Gustave Roussy in Paris
Type of Supervision (Research, clinical, teaching, leadership)	Research

O. INSTITUTIONAL LEADERSHIP ACTIVITIES

Role(s)/Position	Institution/Location
Director	Center for Image-Guided Intervention
Co-Chair	MSKCC OR Radiology Committee
Chief	MSKCC Interventional Radiology Service
MSKC Representative to Cornell Promotions	Weill Cornell Medical College Promotions Committee of Review
Member	OR Executive Committee
Member	Transfusion Utilization Committee

P. INSTITUTIONAL ADMINISTRATIVE ACTIVITIES

Name of Committee	Role (i.e. member, secretary, chair, etc.)
MSKCC Gastroenterology Chief Search Committee	Member
MSKCC Ad Hoc FDA Device Committee	Member
MSKCC IRB Committee	Member
MSKCC OR Executive Committee	Member
MSKCC Strategic Planning Committee	Member
MSKCC Drug Development Think Tank	Member
MSKCC VHL Committee	Member
MSKCC Investigational Drug/Device Committee	Member
MSKCC Center for Molecular Imaging and Nanotechnology Committee (CMINT)	Member
MSKCC Translational and Integrative Medicine Research Fund Grant Review Committee	Member
MSKCC Anesthesia Chairman Search Committee	Member
MSKCC Committee on Appointments and Promotions (COAP)	Member
MSKCC Chair of Surgery Search Committee	Member
MSKCC Precision Interception and Prevention Program – Internal Advisory Board	Member
MSKCC Data Usage Committee	Member
MSKCC Representative to Cornell Promotions	Member
Liquid Biopsy Working Group	Member

TDF Internal Review Committee	Member
MSKCC Precision Interception and Prevention Program – Internal Advisory Board	Member
Clinical Supplies and Product Initiative Committee	Member

Q. EXTRAMURAL PROFESSIONAL RESPONSIBILITIES

Leadership in Extramural Organizations

Organization	Role (i.e. member, secretary, chair, etc.)
Transurgical Inc., a focused ultrasound company	Co-Founder
Cutlass Capital, a medical device venture capital firm	Principal, Venture Partner
Aspiration Medical, an obesity company	Co-Founder
Board of Directors, Xoft, Inc.	Director
Consultant to FDA, Centers for Devices and Radiological Health	Member
Board of Directors, AMT LLC.	Director
Board of Directors, Aspiration Medical LLC.	Director
Venture Partner of Cutlass Capital	Partner
Faculty of 1000 Medicine, New Technology-Urology	Member
Society of Interventional Radiology (SIR) Multimodality Course Director	Director
Society of Interventional Radiology (SIR) Leadership Academy	Member
Johnson & Johnson	Consultant
Surefire	Consultant
Medtronic	Consultant
Blue Cross Blue Shield	Consultant
GE	Consultant
Project Faraday Project, Ethicon-Endosurgery	Chair
NIH-NIBIB K Awards Review	Member
World Conference of Interventional Oncology (WCIO)	Program Director
Covidien	Consultant
Radiological Society of North America (RSNA) Content Advisor to 2012 ASCO	Member

Reviewer, AHRQ Evidence Based Practice Center Program: Management of Localized Renal Cancer	Reviewer
AstraZeneca	Consultant
Innoblative Designs	Consultant
Aperture Medical	Founder
BTG	Consultant
Adgero	Consultant
Varian	Consultant
XACT Robotics	Consultant
MicroBot	Consultant
European Conference on Interventional Oncology (ECIO)	Abstract Reviewer
Data and Safety Monitoring Board - A multicenter open-label phase 1/1b study to evaluate safety, feasibility and early treatment effect of Padeliporfin VTP (Vascular-Targeted Photodynamic Therapy) using Robotic Assisted Bronchoscopy and Cone Beam CT Guidance in patients with Peripheral Lung Cancer	Member
Merck	Consultant
MedX Accelerator	Consultant
Orchestra Biomed	Consultant
Varian	Consultant

National

Name of Committee	Role (i.e. member, secretary, chair, etc.)	Organization Institution/Location
Society of Interventional Radiology (SIR) Ablation Workshop	Member	Society of Interventional Radiology (SIR)
Society of Interventional Radiology (SIR) Simulator Task Force	Member	Society of Interventional Radiology (SIR)
Radiology Society of North America (RSNA) – Ablation Night Director	Director	Radiology Society of North America
Society of Interventional Radiology (SIR) Oncology Task Force	Member	Society of Interventional Radiology (SIR)
Multimodality Course Director	Director	Society of Interventional Radiology

Data Safety Monitoring Board Chair	Chair	Pneum RX Study
CALGB Cooperative Group Imaging Committee (Alliance)	Member	CALGB
FDA Committee	Member	Society of Interventional Radiology (SIR)
Leadership Academy	Member	Society of Interventional Radiology (SIR)
GU Symposium Committee	Member	American Society of Clinical Oncology (ASCO)
Board of Directors	Director	Devicor
PRIMULA Project Scientific Advisory Board	Member	PRIMULA
Molecular Imaging Committee	Member	Radiological Society of North America (RSNA)
Lung Cancer Guidelines Stage 1 & 2 Committee	Member	American College of Chest Physicians (ACCP)
AHRQ Evidence Based Practice Center Program: Management of Localized Renal Cancer	Reviewer	AHRQ
NIH Review Committee: Special Emphasis Panel/Scientific Review Group	Member	NIH
Society of Interventional Oncology Executive Committee	Member	Society of Interventional Oncology
DSMB	Member	Advantagene
SIR Foundation/National Institutes of Health (NIH) Task Force	Member	Society of Interventional Radiology
Intratumoral Immunotherapy Manuscript Development Group	Member	Society for Immunotherapy of Cancer
Society of Interventional Oncology Strategic Planning Task Force	Member	Society of Interventional Oncology

International

Name of Committee	Role (i.e. member, secretary, chair, etc.)	Organization Institution/Location
WCIO Steering Committee	Member	World Conference for Interventional Oncology

WCIO Program Committee Member	Member	World Conference of Interventional Oncology
Data Safety Monitoring Board	Chari	Pneum RX Study
Program Director	Member	World Conference of Interventional Oncology
Society of Interventional Oncology	President	Society of Interventional Oncology
International Society for Strategic Studies in Radiology (IS3R) Member	Member	International Society for Strategic Studies in Radiology

Grant Reviewing/Study Sections

Role(s)	Organization Name
NIH Review Committee	Special Emphasis Panel/Scientific Review Group
Reviewer	Academic-Industrial R01 Grant Review
Workforce Diversity in Basic Cancer Research R21	NIH

Editorial Activities

Editor/Co-Editor

Books / Textbooks / Journals / Organization Name
QJ Nuc Med Mol Imaging J, Issue on Interventional Molec Imaging

Editorial Board Membership

Board / Organization Name
Journal of Interventional Oncology
Scientific Editor, Medical Radiology-Diagnostic Imaging

Journal Reviewing/ad hoc reviewing

Journal / Organization Name
Radiology
Urology
Journal of Urology
Journal of Vascular and Interventional Radiology
Cardiovascular and Interventional Radiology
Lancet Oncology
Journal of Clinical Oncology
International Journal of Computer Assisted Radiology and Surgery

R. INVITATIONS TO SPEAK/PRESENT

Regional*

Title	Institution/Location
Image Guidance Therapy: The Fourth Dimension	Biomedical Imaging Research Opportunities Workshop IV (BIROW IV) / Bethesda, MD
Surgeon in the IR Suite, Or Radiologist in the OR?	Sages / Las Vegas, NV
Lung Tumors: Surgery vs. Ablative Percutaneous Therapy	AIM Symposium / New York, NY
Lung Tumors: Surgery vs Ablative Therapy	AIM Symposium, / New York, NY
Radiofrequency Ablation and Cryotherapy for Local Tumor Therapy	Grand Rounds University of Maryland / Baltimore, MD
Cyto-reduction of Liver Metastasis in Colorectal Cancer	CALGB Surgery Committee / Durham, NC
Thermal Ablation of Lung Tumors	FDA Grand Rounds / Washington, D.C.
Global Positioning Systems, Robots, and Mapquest for Interventional Radiology	Keynote IR Lecture American Roentgen Ray / Boston, MA
Interventional Oncology	New York Roentgen Society / New York, NY
Innervations in Interventional Oncology: From the Bench to the Clinic	University of Wisconsin / Madison, WI
Meeting Needs of the Interventional Community	GE Whitney Symposium / Niskayuna, NY
Percutaneous Ablation of Lung Tumors	New England Roentgen Ray Society / Massachusetts
The Role of IR in Pediatric Cancer	American Pediatric Surgical Association / Fort Lauderdale, FL
Indications for Ablative Therapies for Isolated Lung Cancer	Advances in Thoracic Surgical Oncology / New York, NY
Image Guided Interventions in Oncology	AMC One Health Conference / New York, NY
Image Guided Targeted Biopsy and its Impact on Next Generation Cancer Care	Yale University of Medicine Interventional Radiology Grand Rounds / Hartford, CT
When Are Biopsies Indicated: Technique and Results	AIMsymposium / New York, NY
Lung	AIMsymposium / New York, NY
CAR T Cells and Interventional Oncology	Digestive Disease Interventions / New York, NY

National*

August 2023

Title	Institution/Location
Tumor Ablation with Radiofrequency, Cryotherapy, or Microwave Systems	Categorical Course, SIR / New Orleans, LA, April
Sequential Changes after Radiofrequency Ablation and Cryoablation of Renal Neoplasm: Interpretation of CT and MRI	RSNA / Chicago, IL
State of the Arts: Guidance Techniques	RSNA / Chicago, IL
A Cost Comparison of Laproscopic vs CT-Guided, Percutaneous Renal Tumor Cryoablation	RSNA / Chicago, IL
CT-guided Percutaneous Renal Cryoablation under Conscious Sedation: Initial Clinical Experiences	RSNA / Chicago, IL
Measurement of the Thermal Sink Effect in Porcine kidney, Liver, and Lung during Cryoablation	RSNA / Chicago, IL
Image Guidance for Interventional Oncology	Radiology Grand Rounds, MD Anderson / Houston, TX
Local Therapy Lung Cancer: Thermal Ablation	2nd Annual Oncology Congress / New York, NY
Imaging-Guided Intervention: The Operating Room of the Future	RSNA / Chicago, IL
CT-Guided versus Operative Interventions: A Cost and Reimbursement Comparison	RSNA / Chicago, IL
Nephron-sparing Procedures: Is Surgery Equal to Percutaneous Ablation?	SIR Annual Scientific Meeting / Seattle, WA
Renal Ablation Cases	SIR Multimodality / Washington, D.C.
Follow up Imaging in Patient Care	SIR Multimodality / Washington, D.C.
Lung Ablation Cases	SIR Multimodality / Washington, D.C.
Radiofrequency Ablation: Principles, Techniques, Equipment, and Tricks of the Trade (Hands-on Workshop)	RSNA / Chicago, IL
RSNA/NCI Interventional Oncology Series: Tools and Technologies for Imaging Intervention in Cancer	RSNA / Chicago, IL
Outcomes of Cryoablation of Renal Cell Carcinoma	RSNA / Chicago, IL
New Paradigms for Image-Guidance Targeting	RSNA / Chicago, IL
Rationale for Renal Ablative Therapy	SIR / Washington, D.C.
Thermal Ablation of Renal Tumors, Practice Development	SIR / Washington, D.C.

Outcomes of Renal Ablation	SIR / Washington, D.C.
Updates on Percutaneous Ablation for HCC and Metastases: New Data and New Approaches	SIR Annual Scientific Meeting / Washington, D.C.
Monitoring Outcomes after Renal Ablation: Imaging and Survival	SIR Annual Scientific Meeting / Washington, D.C.
Navigational Techniques	SIR Annual Scientific Meeting / Washington, D.C.
Robotics and Precision Delivery of instruments: Robotics for RFA	SIR Annual Scientific Meeting / Washington, D.C.
Cryoablation	SIR Annual Scientific Meeting / Washington, D.C.
Advances in Image Guided Therapies	Society of Gynecologic Surgical Oncologists / Tampa, FL
Oncologic Ablation	SIR Devices Seminar / Washington, D.C.
Frontiers of Image Guided Interventional Oncology: Research and Development Strategies for the Future	SIR Devices Seminar / Washington, D.C.
Interventional Oncology	FDA-SIR Semi-Annual Meeting / Washington, D.C.
Renal Tumor Ablation: Radiofrequency Ablation vs. Cryoablation	Kidney Symposium / Chicago, IL
Radiofrequency Ablation: Principles, Techniques, Equipment, and Tricks of the Trade (Hands-on Workshop)	RSNA / Chicago, IL
Rationale and Outcomes for Ablation of Renal Cell Carcinoma	RSNA / Chicago, IL
Interventional Oncology Series: Renal Cell Carcinoma	RSNA / Chicago, IL
Update on Lung Ablation: Clinical Trials and Microwave	SIR Annual Scientific Meeting / Tampa, FL
Interventional Radiology for Medical Oncologists	ASCO / Chicago, IL
Minimally Invasive Lung Cancer Therapies	ASCO / Chicago, IL
Innovation in Interventional Radiology	Philadelphia Interventional Oncology / Orlando, FL
Interventional Radiology: Ablation, Embolization, Tissue Acquisition, Kyphoplasty, and Other Image-Guided Techniques for the Cancer Patient	ASCO Annual Meeting / Chicago, IL
Advanced Intraoperative Imaging Systems	RSNA / Chicago, IL
Guidance Systems (including Veran, Traxtal, Pathfinder, ActiView, and Esaote)	RSNA / Chicago, IL

Current Status of Ablative Techniques in Lung Cancer	The Symposium on Clinical Interventional Oncology / Fort Lauderdale, FL
Tumor Board: A Presentation of Carefully Selected Cases that Demonstrate a Multidisciplinary Approach to Treating Lung Cancer	The Symposium on Clinical Interventional Oncology / 2010
Tumor Board: A Presentation of Carefully Selected Cases that Demonstrate a Multidisciplinary Approach to Treating Metastatic Liver Disease	The Symposium on Clinical Interventional Oncology / Fort Lauderdale, FL
Current Status of Ablative Techniques in Lung Cancer	The Symposium on Clinical Interventional Oncology / Fort Lauderdale, FL
Lung Ablation: Patient Selection and Modality Choice	CIO Symposium / Fort Lauderdale, FL
Immune Effects on Cryoablation	Endocare Sponsored lecture at SIR / Chicago, IL
Lung Cancer Triage	Endocare Sponsored lecture at SIR / Chicago, IL
Multi-disciplinary Lung Case Review	Endocare Sponsored lecture at SIR / Chicago, IL
Interventional Radiology and Radiation Oncology: Synergies	ASTRO / Atlanta, GA
Regional Treatment Options for Patients with Liver Metastases From Colon Cancer	ASCO / Chicago, IL
RF Ablation of Lung Carcinoma Under Real-Time FDG PET CT Guidance	Synergy / Florida
Interventional Oncology: Lung	RSNA / Chicago, IL
PET Guided Procedures	SIR Annual Scientific Meeting / New Orleans, LA
Navigation Tools and Video Games in IR	SIR Annual Scientific Meeting / New Orleans, LA
Colorectal Lung Metastasis	RSNA Annual Meeting / Chicago, IL
When Should I Be Using that Specialized Device: IRE	RSNA Annual Meeting / Chicago, IL
PET/CT Guided Procedures	SNMMI / St. Louis, MO
IRE – What Lessons Have We Learned from the Lab	RSNA Annual Meeting / Chicago, IL
Image-guided Ablation: Does Novel Technology Mean Better Outcomes?	RSNA Annual Meeting / Chicago, IL
20 Years of Thermal Ablation: Progress, Challenges and Opportunities	RSNA Annual Meeting / Chicago, IL
Multidisciplinary Tumor Board	SIR Meeting / Vancouver, Canada

Other Local Therapies for Debulking or Stimulating Immune Responses	ASCO Treatment Modalities Meeting / Alexandria, VA
Molecular Imaging for Image Guidance	SIR Annual Meeting / Washington, DC
Keynote and Series Opening: Interventional Oncology – Where We Stand and Where We Go	RSNA Annual Meeting / Chicago, IL
Lung Ablation Year in Review	Symposium on Clinical Interventional Oncology / Hollywood, FL
Role of the Society of Interventional Oncology	Symposium on Clinical Interventional Oncology / Hollywood, FL
Best of WCIO: Translational Advances in IO	Coordinator & Panelist, SIR Annual Meeting / Los Angeles, CA
How to Compete at a Lung Cancer Tumor Board	Moderator, SIR Annual Meeting / Los Angeles, CA
Lung Ablation: Patient and Device Selection	Coordinator, SIR Annual Meeting / Los Angeles, CA
Pre-Conference Session: IO Fundamentals, Supportive and Palliative Care	Symposium on Clinical Interventional Oncology / Miami Beach, FL
My Tips and Tricks to a Successful Lung Ablation Practice in the Era of SBRT”	Symposium on Clinical Interventional Oncology / Miami Beach, FL
Lung Ablation Cases	Symposium on Clinical Interventional Oncology / Miami Beach, FL
Percutaneous Laser Ablation under Ultrasound-Guidance of Normal Thyroid Gland in a Swine Model	RSNA Annual Meeting / Chicago, IL
Ablation versus Radiation versus Surgery for Lung Cancer	RSNA Annual Meeting / Chicago, IL
Lung	Society of Interventional Oncology Annual Meeting / New Orleans, LA
Endobronchial Techniques	Society of Interventional Oncology Annual Meeting / New Orleans, LA
Scientific Abstracts: Liver Metastases and Pancreas	Society of Interventional Oncology Annual Meeting / New Orleans, LA
Respiratory Motion Compensation Algorithm Enhances Automatic Vessel Detection and Improves Cone-beam CT Based Navigation in Liver Directed-therapies	Society of Interventional Oncology Annual Meeting / New Orleans, LA

Live Round-Table Discussion: Emerging from COVID-19: Key Considerations for the Treatment of Lung Tumors	Society of Interventional Oncology / Zoom Meeting
Society of Thoracic Surgeons Webinar on Pulmonary Metastasectomy Panelist	The Society of Thoracic Surgeons /
Keynote Lecture: Innovations in Interv. Oncology—Bench to Clinic	Vanderbilt Univ Institute for Surgery and Engineering (VISE) /
History of IO and How We Got There	Society of Interventional Oncology Annual Meeting / San Francisco, CA
Lung Tumor Board Primer	Society of Interventional Oncology Annual Meeting / San Francisco, CA
Case from Lung Primer	Society of Interventional Oncology Annual Meeting / San Francisco, CA
Lung Mini Master Class - Burn: When, Why, and Where?	Society of Interventional Oncology Annual Meeting / San Francisco, CA
Complex Cases – Moderator	Society of Interventional Oncology Annual Meeting / San Francisco, CA
Breaking Ground – Moderator	Society of Interventional Oncology Annual Meeting / San Francisco, CA
A single-arm phase 2 study of peri-operative ipilimumab, nivolumab and cryoablation in women with residual, early stage/resectable, triple negative breast cancer after standard-of-care neoadjuvant chemotherapy – Poster Presentation	ASCO Annual Meeting / Chicago, IL
Pulmonary metastasis Ablation: When and Why?	RSNA Annual Meeting / Chicago, IL
Medical Innovation: From Idea to Commercialization	MD Anderson Cancer Center / Houston, TX

International*

Title	Institution/Location
Thermal Ablation of Lung Tumors: What Role May It Have in the Age of Lung Cancer Screening	13th International Conference on Screening for Lung Cancer / New York, NY
Thermal Ablation of Lung Tumors: What Role May It Have In the Age of Lung Cancer Screening	13th International Conference on Screening for Lung Cancer / New York, NY
Imaging in Intervention: Overview	World Conference on Interventional Oncology / Lake Como, Italy

Robotic	World Conference on Interventional Oncology / Lake Como, Italy
Thermal Ablation of Bone Tumor	Asia-Pacific Interventional Radiology / Bangkok, Thailand
Embolization of Liver Metastases	Asia-Pacific Interventional Radiology / Bangkok, Thailand
Radiofrequency and Cryoablation for Local Tumor Therapy	Asia-Pacific Interventional Radiology / Bangkok, Thailand
Tumor Ablation: How I Do It	Asia-Pacific Interventional Radiology / Bangkok, Thailand
Follow up Imaging & Patient Care	World Conference on Interventional Oncology / Washington, D.C.
Image Guided Interventional Ablation Therapies	World Conference on Interventional Oncology / Washington, D.C.
Triage Among Nephron Sparing Options – Surgery vs. Percutaneous –What Does the Evidence Show?	World Conference on Interventional Oncology / Washington, D.C.
Interventional Oncological Treatments for Colorectal Metastases	European Conference on Interventional Oncology / Athens, Greece
New Tumor Ablation Modalities: Percutaneous Cryoablation	European Conference on Interventional Oncology / Athens, Greece
Basic Science and Technology Session	World Conference on Interventional Oncology / Los Angeles, CA
Treatment Planning	World Conference on Interventional Oncology / Los Angeles, CA
High Intensity Focused Ultrasound	European Conference on Interventional Oncology / Florence, Italy
Image Guided Therapy Robotics	European Conference on Interventional Oncology / Florence, Italy
Thermal Ablation of Metastases to Lung	First Brazilian Interventional Oncology Meeting / Sao Paulo, Brazil
Thermal Ablation of Primary Lung Cancer	First Brazilian Interventional Oncology Meeting / Sao Paulo, Brazil
Robotic Interventions	World Conference on Interventional Oncology / Beijing, China
Irreversible Electroporation of Tumors	World Conference on Interventional Oncology / Beijing, China
How Your Anesthesiologist Can Help	World Conference on Interventional Oncology / Philadelphia, PA

Thoracic Tumor Board: Moderator	World Conference on Interventional Oncology / New York, NY
From Innovation to Commercialization	World Conference on Interventional Oncology / New York, NY
Ablation of Lung Metastases	World Conference on Interventional Oncology / New York, NY
Advanced Catheter Imaging	World Conference on Interventional Oncology / New York, NY
Lung Ablation Pearls	World Conference on Interventional Oncology / New York, NY
PET-Guided Procedures	IOSF / Cernobbio, Italy
What is on the horizon?: Interventional radiology and image-guided therapy in the world of Precision Medicine	International Society for Strategic Studies in Radiology / Beijing, China
Ablation of Oligometastatic Lung Cancer	ECIO / Berlin, Germany
Top 10 Lung Ablation Pearls	ECIO / Berlin, Germany
Why I need by Cone Beam CT	World Conference on Interventional Oncology / New York, NY
Non-IO Studies You Must Know	WCIO Annual Meeting / Boston, MA
ASTRO and WCIO: Synergies	WCIO Annual Meeting / Boston, MA
WCIO Around the World Tumor Board	WCIO Annual Meeting / Boston, MA
20 years of ablation: Past, present and future	Interventional Oncology Sans Frontieres (IOSF) Congress / Milan, Italy
We can do quite a bit with ablation	Interventional Oncology Sans Frontieres (IOSF) Congress / Milan, Italy
Lung Ablation	World Conference on Interventional Oncology Annual Meeting / Boston, MA
Lung	World Conference on Interventional Oncology Annual Meeting / Boston, MA
Interventional Oncology in 2025 and Beyond	IS3R Symposium / Washington, DC
Multidisciplinary Tumour Board: Primary lung cancer and metastases	Coordinator, ECIO Annual Meeting / Vienna, Austria
Follow-up imaging after intervention: towards consensus	ECIO Annual Meeting / Vienna, Austria
History of IO: How We Got Here	WCIO Annual Meeting / Boston, MA

Lung	WCIO Annual Meeting / Boston, MA
Interventional Oncology as the 4th Pillar: Are We There Yet?	WCIO Annual Meeting / Boston, MA
Improving Diagnostic Yield: Molecular Imaging, Radiogenomics, and Optical Imaging	CIO Annual Meeting / Boston, MA
Lung metastasis ablation: good indications and good practice	Sobrice 2019 / Sao Paulo, Brazil
Precision Medicine and the Role for IR	Sobrice 2019 / Sao Paulo, Brazil
Honorary Lecture: Where We Stand and Where We Go	Sao Paulo, Brazil / Sao Paulo, Brazil
Theranostics and Interventional Oncologic Radiology	International Society for Strategic Studies in Radiology / Budapest, Hungary
Endobronchial Lung Ablation	ECIO Annual Meeting / Virtual
Transbronchial Microwave Ablation under Augmented Fluoroscopy and Without a Bronchoscope	JSIR, ISIR, & APSCVIR Annual Meeting / Virtual
Thoracic Tumor Board: perfect cases for IR	Sobrice / Sao Paulo, Brazil
Endobronchial Ablation	Sobrice / Sao Paulo, Brazil
PET/CT –guided procedures at MSKCC	PGIMER, Chandigarh /
Innovations in Interventional Oncology: From Benchtop to Clinic	Weizmann Institute of Science / Israel

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