

CURRICULUM VITAE

Date of Revision: January 9, 2025

Name: Sajid A. Khan, M.D.

Appointment: Associate Professor, Department of Surgery, Division of Surgical Oncology, Section of Hepatopancreatobiliary & Mixed Tumors

Term: *Primary Appointment:* beginning July 1, 2019 – present

School: Yale University School of Medicine

Administrative Positions:

01/2020-present Co-Director, Team Science, Yale Center for Clinical Investigation, Yale University School of Medicine, New Haven, CT

03/2021-present Chief, Section of Hepatopancreatobiliary (HPB) and Mixed Tumors, Department of Surgery, Yale University School of Medicine, New Haven, CT

Education:

B.S. Siena College, Loudonville, NY: 05/1999

M.D. State University of New York, Syracuse, NY: 05/2003

Career/Academic Appointments:

07/2003-06/2004 Internship, General Surgery
Albert Einstein College of Medicine/Montefiore Medical Center, Bronx, NY
Mentors: T.S. Ravikumar, MD, Ronald Kaleya, MD

07/2004-06/2005 Residency, General Surgery
Albert Einstein College of Medicine/Montefiore Medical Center, Bronx, NY
Mentors: T.S. Ravikumar, MD, Ronald Kaleya, MD

07/2005-06/2007 Research Fellowship, Surgical Oncology
Memorial Sloan-Kettering Cancer Center, New York, NY
Mentor: Philip Paty, MD

07/2007-06/2010 Residency, General Surgery Residency
Oregon Health and Science University, Portland, OR
Mentors: John Hunter, MD, Karen Deveney, MD, Kevin Billingsley, MD

07/2010-06/2013 Fellowship, Surgical Oncology
University of Chicago Medical Center/NorthShore University Health System, Chicago, IL
Mentors: Jeffrey Matthews, MD, Mitchell Posner, MD, Mark Talamonti, MD, David J. Winchester, MD

- 09/2013-06/2019 Assistant Professor of Surgery (Oncology), Department of Surgery, Yale University School of Medicine, New Haven, CT
Mentors: Ronald Salem, MD, Jun Lu, PhD
- 07/2019-present Associate Professor of Surgery (Oncology), Department of Surgery, Yale University School of Medicine, New Haven, CT
Mentors: Jun Lu, PhD, Daniel Boffa, MD

Board Certification:

- American Board of Surgery, General Surgery, Initial Certification #056992, 04/2012
American Board of Surgery, Complex Surgical Oncology, Certific #000025, 2/2015
American Board of Surgery, General Surgery, Recertification #056992, 10/2022
American Board of Surgery, General Surgery, Recertification #056992, 10/2024

Professional Development:

- 06/2016 Surgeons as Leaders: From Operating Room to Boardroom
American College of Surgeons, Division of Education
Durham, NC
- 09/2019-05/2020 Yale Medicine Emerging Leaders Program
Yale School of Management
New Haven, CT
- 09/2020-05/2021 Yale Medicine Advanced Emerging Leaders Program
Yale School of Management
New Haven, CT
- 03/2021-09/2021 Inclusive Leadership Development Lab
Women in Medicine
University of Illinois College of Medicine, IL
- 02/2023 Mid-Career Academic Surgery Professional Development Course
Society of University Surgeons
Houston, TX

Research Programmatic Development:

- 06/2019-01/2020 Co-Director, Yale Cancer Center, Microbiome Colorectal Cancer Biobank
- 01/2020-present Co-Director, Yale Center for Clinical Investigation, Team Science
- 03/2021-02/2022 Co-Director, Yale Cancer Center, Microbiome Colorectal Cancer Biobank
- 10/2021-present Internal Advisory Board, Yale School of Medicine, Dean's Office, Office of Team Science, Promotion of Interdisciplinary Team Science (POINTS) program
- 05/2023-present Chair, Surgical Society of Alimentary Tract, Research Committee

Clinical Programmatic Development:

09/2013-present	Site Director, Surgical Oncology Program at Yale Cancer Center-Smilow Cancer Hospital-Yale Health System at Bridgeport Hospital <ul style="list-style-type: none">• 1,000th surgery performed on May 24, 2022
08/2015-present	Surgical Oncology Leader, Oncology Clinical Program Team, Yale New Haven Health System-Yale Cancer Center at Bridgeport Hospital <ul style="list-style-type: none">• Maturation of multi-disciplinary cancer specialties in thoracic surgery, colorectal surgery, head and neck surgery, medical oncology, interventional radiology, body radiology, and gastrointestinal pathology
09/2016-present	Member, Park Avenue Medical Center-Yale Cancer Center Advisory Board <ul style="list-style-type: none">• Development of multi-disciplinary ambulatory center
02/2021-present	Co-Program Leader, Advanced Hepatobiliary Disease, Yale Cancer Center-Yale New Haven Health System
06/2021-01/2022	Co-Chair, Yale Department of Surgery and Cancer Center, Division Chief Surgical Oncology Faculty Recruitment Committee <ul style="list-style-type: none">• Successful recruitment of Division Chief of Surgical Oncology
01/2023-present	Member, Leadership Cabinet, Center for Gastrointestinal Cancer - Yale Cancer Center-Smilow Cancer Hospital-Yale Health System
10/2023-01/2024	Chair, Committee on Standardization of Gastrointestinal Stromal Tumor Molecular Profiling - Yale Cancer Center-Smilow Cancer Hospital-Yale Health System <ul style="list-style-type: none">• Creation of reflex molecular testing for GIST across 5 hospitals
05/2023-present	Co-Director, Hepatic Arterial Infusion Pump Program, Yale Cancer Center-Smilow Cancer Hospital-Yale Health System at Yale New Haven Hospital <ul style="list-style-type: none">• 1st accrual: 3/29/24, total accrual: 12
06/2023-09/2023	Chair, Committee on Standardization of Hepatectomy, GI Oncology Care Signature Pathways: Yale Cancer Center-Smilow Cancer Hospital-Yale Health System <ul style="list-style-type: none">• Creation of standardized ERAS liver surgery clinical pathways across 5 hospitals
06/2023-09/2023	Chair, Committee on Standardization of Pancreatectomy, GI Oncology Care Signature Pathways - Yale Cancer Center-Smilow Cancer Hospital-Yale Health System <ul style="list-style-type: none">• Creation of standardized ERAS pancreas surgery clinical pathways across 5 hospitals
02/2024-06/2024	Chair, Committee on Staging Laparoscopy, GI Oncology Care Signature Consensus: Yale Cancer Center-Smilow Cancer Hospital-Yale Health System <ul style="list-style-type: none">• Standardized staging laparoscopy across 5 hospitals: pancreas cancer, colorectal cancer liver metastasis, intrahepatic cholangiocarcinoma, gastric cancer
03/2024-present	Member, Cancer Senior Leadership Group, Yale Cancer Center-Smilow Cancer Hospital

Professional Honors & Recognition:

International/National/Regional

- 1996: Presidential Scholar, Siena College, Loudonville, NY
- 1997: Presidential Scholar, Siena College, Loudonville, NY
- 1998: President Biology Club, Siena College, Loudonville, NY
- 1998: Presidential Scholar, Siena College, Loudonville, NY
- 1999: Magna Cum Laude, Siena College, Loudonville, NY
- 2001: Co-Founder/Coordinator of Adopt-A-School Program, Syracuse, NY
- 2001: Coordinator of Syracuse Health Fair, Upstate Medical University, Syracuse, NY
- 2004: Nicholae Vasilescu Intern of the Year Albert Einstein College of Medicine/Montefiore Surgery Banquet
- 2008: Moseley Award - Best Basic Science Research Presentation, Portland Surgical Society, 61st Annual Scientific Symposium
- 2008: Baker-Moseley Award - Best Clinical Research Presentation, American College of Surgeons, WA/OR Chapter Meeting
- 2008: Martin Howard Memorial Award - Best Basic Science and Clinical Research Paper, Oregon Health and Science University, Surgery Banquet
- 2008: 1st Prize, Resident Award - Outstanding Research Presentation, Northwest Society of Colorectal Surgeons, Annual Meeting
- 2009: Plenary Presentation Selected for Top Abstracts for Meeting, Society of Surgical Oncology
- 2010: Donald D. Trunkey Ethics and Professionalism Award, Oregon Health and Science University, Surgery Banquet
- 2014: Yale New Haven Health at Bridgeport, Platinum Quality Award
- 2015: General Surgery Resident Faculty Teaching Award, Yale University School of Medicine, Yale New Haven Health System, Surgery Banquet
- 2015: Yale New Haven Health, Smilow Cancer Hospital at Bridgeport, Platinum Quality Award
- 2015: Regional Top Doctor, Surgery, Castle Connolly
- 2016: Yale New Haven Health, Smilow Cancer Hospital at Bridgeport, Platinum Quality Award
- 2016: New York Metro Area Top Doctor, Surgery, Castle Connolly
- 2017: Yale New Haven Health, Smilow Cancer Hospital at Bridgeport, Platinum Quality Award
- 2017: New York Metro Area Top Doctor, Surgery, Castle Connolly
- 2017: Scholar Award, Yale Center for Clinical Investigation
- 2018: Yale New Haven Health, Smilow Cancer Hospital at Bridgeport, Platinum Quality Award
- 2018: Fairfield County's Top Doctors, Westport Magazine
- 2018: Capstone Mentor, Frank H. Netter MD School of Medicine
- 2018: Nominee for Honors in Medical Student Thesis (Mentor), Yale School of Medicine
- 2018: New York Metro Area Top Doctor, Surgery, Castle Connolly
- 2018: Plenary Presentation Selected for Top Abstracts, Digestive Disease Week, Society for Surgery of the Alimentary Tract
- 2018: Clinical Science Award Winner (Mentor), New England Surgical Society Annual Meeting
- 2019: Yale New Haven Health, Smilow Cancer Hospital at Bridgeport, Platinum Quality Award
- 2019: Poster Grand Rounds Top 25% Scoring Posters, Society of Surgical Oncology Scientific Program Committee
- 2019: Poster Grand Rounds Top 5 Scoring Posters, Society of Surgical Oncology Scientific Program Committee
- 2019: Regional Top Doctor, Surgery, Castle Connolly
- 2020: Yale New Haven Health, Smilow Cancer Hospital at Bridgeport, Platinum Quality Award
- 2020: Regional Top Doctor, Surgery, Castle Connolly
- 2021: Best Doctors, Connecticut Magazine
- 2021: Yale New Haven Health, Smilow Cancer Hospital at Bridgeport, Platinum Quality Award
- 2021: Regional Top Doctor, Surgery, Castle Connolly

- 2021: Annals of Surgical Oncology, Society of Surgical Oncology, Editorial Board
2022: American College of Surgeons, CT Chapter Meeting, First Prize
2022: Top Doctors in America, Surgery, Castle Connolly
2022: Society of University Surgeons, Membership Induction
2022: Basic Science Research Second Place, American College of Surgeons Clinical Congress Medical Student Education
2023: Medical Student Thesis Prize in Genomics (Mentor), Yale School of Medicine
2023: Top Doctors in America, Surgery, Castle Connolly
2023: Research Prize, Population Science, Yale Cancer Center Annual Conclave
2023: Plenary Podium Presentation, International Conference on Surgical Cancer Care, Society of Surgical Oncology
2023: Plenary Podium Presentation, Digestive Disease Week, Society for Surgery of the Alimentary Tract
2023: Chair of Research Committee, Society for Surgery of the Alimentary Tract
2024: Top Doctors in America, Surgery, Castle Connolly
2024: Surgical Biology Club, Membership Induction
2025: National Institutes of Health, Study Section, Mechanisms of Cancer Therapeutics B (Invitation)

Grant/Clinical Trials History:

Active and Recent Clinical Trials

Agency: Yale Comprehensive Cancer Center, Genentech, Inc.

Role: *Sub-Investigator, Yale University*

Title: “A Phase Ib/II, Open-Label, Multicenter, Randomized Platform Study Evaluating The Efficacy and Safety of Neoadjuvant Immunotherapy Combinations in Patients With Surgically Resectable Hepatocellular Carcinoma (MORPHEUS-NEO HCC)”

Project Period: 12/4/2023-present

Agency: Eastern Cooperative Oncology Group-American College Radiology Imaging Network (ECOG ACRIN)

Role: *Sub-Investigator, Yale University*

Title: “A Randomized Phase III Study of Neoadjuvant Chemotherapy Followed by Surgery Versus Surgery Alone for Patients With High Risk RetroPeritoneal Sarcoma (RPS)”

Project Period: 11/30/2023-present

Agency: Yale Comprehensive Cancer Center

Role: *Co-Investigator, Yale University*

Title: “A Prospective, Multi-Center Investigational Study of IMMray PancCan Diagnostic Platform for Early Detection of Pancreatic Ductal Adenocarcinoma in High-Risk Populations (PANCFAM-1)”

Project Period: 6/1/2019-present

Agency: National Cancer Institute, Yale Comprehensive Cancer Center

Role: *Principal Investigator (MPI)*

Title: “Establishing a microbiome biobank at the Yale Cancer Center”

Project Period: 04/23/2019-03/22/2020

Agency: Yale Comprehensive Cancer Center

Role: *Co-Investigator, Yale University*

Title: “Identification of Genomic Markers That Characterize Metastatic Colorectal Cancer”

Project Period: 01/19/2018-present

Agency: Yale Comprehensive Cancer Center

Role: *Co-Investigator, Yale University*

Title: "Phase II Study to Evaluate Neoadjuvant Modified FOLRIFINOX and Stereotactic Body Radiation Therapy in Borderline Resectable Pancreatic Adenocarcinoma"

Project Period: 6/1/2017-present

Agency: National Institutes of Health/National Cancer Institute, Southwest Oncology Group

Role: *Principal Investigator, Yale University*

I.D.# U10CA0347429 NCI-2012-02067 S0820

Title: "A Double-Blind Placebo-Controlled Trial of Eflornithine and Sulindac to Prevent Recurrence of High-Risk Adenomas and Second Primary Colorectal Cancers in Patients with Stage 0-III Colon Cancer, Phase III - Preventing Adenomas of the Colon with Eflornithine and Sulindac"

Project Period: 03/05/2014-present

Award Amount: \$61,260

**Yale University #3 in national accrual*

Current and Recent Research Grants

Grant: NIH Research Project Grant

Sponsor: NIH

Role: *Principal Investigator (MPI), Yale University*

I.D.# R01 CA258906-01A1

Title: "Role and regulation of asparagine in colorectal cancer"

Proposed Grant Period: 01/01/2024-12/31/2029

Grant score: 9th percentile, impact score 33

Award Amount: \$3,440,460

Grant: NIH Research Project Grant

Sponsor: NIH

Role: *Principal Investigator (MPI), Yale University*

I.D.# R21CA280372-01A1

Title: "Identification of metabolic niches in African Americans with colorectal cancer"

Proposed Grant Period: 12/15/2023-11/30/2025

Grant score: 3rd percentile, impact score 22

Award Amount: \$430,685

Grant: Iris and Andrew Morse Cancer Research Grant

Sponsor: Yale Cancer Center

Role: *Principal Investigator (MPI), Yale University*

Title: "Using Kraken TCGA microbial detection to identify intratumor microbiome that link to T cell responses and prognosis in CRC"

Grant Period: 03/01/22-02/28/23

Award Amount: \$50,000

Grant: NIH Research Project Grant

Sponsor: NIH

Role: *Co-Investigator, Yale University*

I.D.# R01 CA256530-01A1

Title: "Role of immune regulation in colorectal cancer chemotherapeutic response"

Grant Period: 09/1/2021-08/31/2026

Grant score: Scored 3rd percentile, impact score 20

Award Amount: \$2,534,270

Grant: American Cancer Society Research Project Grant

Sponsor: American Cancer Society
Role: *Collaborator, Yale University*
I.D.# RSG-20-065-01-TBE
Title: “Understanding colon cancer heterogeneity by metabolomics”
Grant Period: 09/01/2020-08/31/2024
Award Amount: \$792,000

Grant: NIH Research Project Grant
Sponsor: NIH
Role: *Principal Investigator (MPI), Yale University*
I.D.# R21CA223686-02
Title: “Understanding sex differences in colon cancer metabolism”
Grant Period: 06/01/2019-11/30/2020
Grant score: Scored 4th percentile, impact score 22
Award Amount: \$400,744, no cost extension

Grant: NIH Research Project Grant
Sponsor: NIH
Role: *Principal Investigator (MPI), Yale University*
I.D.# R21CA223686-01
Title: “Understanding sex differences in colon cancer metabolism”
Grant Period: 06/14/2018-05/31/2020
Grant score: Scored 4th percentile, impact score 22
Award Amount: \$400,744

Grant: Sustainable Health Initiative
Sponsor: Yale Institute for Global Health
Role: *Principal Investigator, Yale University*
Title: “Onward Assist: Predictive Analytics from Onward Health”
Grant Period: 11/1/2019-6/1/2020
Award Amount: \$5,000

Research Funding: Office of Student Research
Sponsor: Yale University School of Medicine
Role: *Scientific Supervisor (PI Montana Morris)*
Title: “Multi-omics Study of Colorectal Cancer Liver Metastasis”
Funding Period: 6/1/2021-8/31/2022
Award Amount: \$5,508

Grant: New Investigator Ohse Award
Sponsor: Yale Department of Surgery
Role: *Principal Investigator, Yale University*
Title: “Genomic Profiling of Colorectal Cancer Patients with Liver Metastasis”
Grant Period: 3/1/2017-6/30/2021
Award Amount: \$50,000

Research Funding: Lampman Surgical Oncology Funding
Sponsor: Yale Surgical Oncology
Role: *Principal Investigator, Yale University*
Title: “Genomic Profiling of Colorectal Cancer Patients with Liver Metastasis”
Grant Period: 3/1/2017-6/30/2021
Award Amount: \$50,000

Research Funding: Office of Student Research
Sponsor: Frank H. Netter MD School of Medicine/Quinnipiac University
Role: *Capstone Mentor (PI Cara Cama)*
Title: “Identification of Risk Factors for the Development of Early Onset Colorectal Cancer”
Funding Period: 6/1/2018-5/1/2021
Award Amount: \$3,000

Recent Research Grant Submissions

Grant: NIH Research Project Grant
Sponsor: NIH
Role: *Principal Investigator (MPI), Yale University*
I.D.# R01 CA258906-01A1
Title: “Role and regulation of asparagine in colorectal cancer”
Proposed Grant Period: 12/01/2024-11/31/2029
Grant score: 9th percentile, impact score 33
Requested Award Amount: \$4,056,437.00 (estimated total cost)
**Application discussed by Scientific Review Group*

Grant: NIH Research Project Grant
Sponsor: NIH
Role: *Co-Investigator, Yale University*
I.D.# 1U01CA299237-01
Title: “Epidemiologic discovery and validation of circulating extracellular vesicle RNA signature for early detection pancreatic cancer”
Proposed Grant Period: 4/25/2025-03/30/2030
Grant score: Impact score 34
Requested Award Amount: \$2,038,969 (estimated total cost)
**Application discussed by Scientific Review Group*

Grant: ARPA-H Science and Technology and other Research and Development
Sponsor: NIH
Role: *Co-Investigator, Yale University*
I.D.# 75N99223R0004
Title: “Precise, Rapid, and In vivo Marking of Cancer”
Proposed Grant Period: 05/01/2024
Grant score: not discussed
Requested Award Amount: \$19,350,000 (estimated total cost)

Grant: NIH Research Project Grant
Sponsor: NIH
Role: *Principal Investigator (MPI), Yale University*
I.D.# R21CA280372-01A1
Title: “Identification of metabolic niches in African Americans with colorectal cancer”
Proposed Grant Period: 12/1/2023-11/30/2025
Grant score: 3rd percentile, impact score 22
Requested Award Amount: \$460,625 (estimated total cost)
**Application discussed by Scientific Review Group.*

Grant: NIH Research Project Grant
Sponsor: NIH
Role: *Principal Investigator (MPI), Yale University*
I.D.# R01 CA258906-01

Title: "Role and regulation of asparagine in colorectal cancer"
Proposed Grant Period: 04/1/2024-03/31/2029
Grant score: 33rd percentile, impact score 48
Requested Award Amount: \$3,554,848 (estimated total cost)
**Application discussed by Scientific Review Group.*

Grant: NIH Research Training Grant
Sponsor: NIH/CTSA
Role: *Mentor, Yale University*
I.D.# UL1TR001863
Title: "Gut microbiome as a contributor of heterogeneity, and regulator of environmental pollutant induced toxicity, in the context of colorectal cancer"
Grant Period: 09/01/2023-08/30/2025
Award Amount: \$209,852 (estimated total cost)

Grant: NIH Research Project Grant
Sponsor: NIH
Role: *Co-Investigator, Yale University*
I.D.# R01CA277823-01A1
Title: "Perinatal factors in early-onset colorectal cancer"
Proposed Grant Period: 07/01/2023 - 06/31/2028
Grant score: not discussed
Requested Award Amount: \$2,293,750 (estimated total cost)

Grant: NIH Research Project Grant
Sponsor: NIH
Role: *Principal Investigator (MPI), Yale University*
I.D.# R01CA281330-01
Title: "The role of HOX gene patterns in human cancers"
Proposed Grant Period: 04/1/2023-03/31/2028
Grant score: not discussed
Requested Award Amount: \$2,940,364 (estimated total cost)

Grant: NIH Research Project Grant
Sponsor: NIH
Role: *Principal Investigator (MPI), Yale University*
I.D.# R01 CA258906-01A1
Title: "Role and regulation of asparagine in KRAS-mutant colorectal cancer"
Proposed Grant Period: 09/1/2022-08/31/2027
Grant score: not discussed
Requested Award Amount: \$3,554,848 (estimated total cost)

Grant: NIH Research Project Grant
Sponsor: NIH
Role: *Co-Investigator, Yale University*
I.D.# R01CA277823-01
Title: "Perinatal factors in early-onset colorectal cancer"
Proposed Grant Period: 12/01/2022 - 11/30/2027
Grant score: not discussed
Requested Award Amount: \$2,093,750 (estimated total cost)

Grant: NIH Research Project Grant
Sponsor: NIH

Role: *Principal Investigator (MPI), Yale University*

I.D.# R21 CA280372-01

Title: "Identification of metabolic niches in African Americans with colorectal cancer"

Proposed Grant Period: 04/01/2023 - 03/31/2025

Grant score: Scored 24th percentile, impact score 46

Requested Award Amount: \$460,625 (estimated total cost)

**Application discussed by Scientific Review Group.*

Grant: NIH Research Project Grant

Sponsor: NIH

Role: *Co-Investigator, Yale University*

I.D.# R01 CA256530-01A1

Title: "Role of immune regulation in colorectal cancer chemotherapeutic response"

Grant Period: 09/1/2021-08/31/2026

Grant score: Scored 3rd percentile, impact score 20

Award Amount: \$2,534,270

**Application discussed by Scientific Review Group.*

Grant: NIH Research Project Grant

Sponsor: NIH

Role: *Principal Investigator (MPI), Yale University*

I.D.# R21 CA264330-01

Title: "Identification of metabolic niches in African Americans with colorectal cancer"

Proposed Grant Period: 07/1/2021-06/31/2026

Grant score: Scored 18th percentile, impact score 33

Requested Award Amount: \$460,625 (estimated total cost)

**Application discussed by Scientific Review Group.*

Grant: NIH Research Project Grant

Sponsor: NIH

Role: *Principal Investigator (MPI), Yale University*

I.D.# R01 CA258906-01

Title: "Role and regulation of asparagine in KRAS-mutant colorectal cancer"

Proposed Grant Period: 04/1/2021-03/31/2026

Grant score: Scored 48th percentile, impact score 55

Requested Award Amount: \$3,554,848 (estimated total cost)

**Application discussed by Scientific Review Group.*

Grant: NIH Research Project Grant

Sponsor: NIH

Role: *Co-Investigator, Yale University*

I.D.# R01 CA256530-01

Title: "Role of immune regulation in colorectal cancer chemotherapeutic response"

Proposed Grant Period: 09/1/2020-08/31/2025

Grant score: Scored 50th percentile, impact score 56

Requested Award Amount: \$2,697,422 (estimated total cost)

**Application discussed by Scientific Review Group.*

Grant: NIH Research Project Grant

Sponsor: NIH

Role: *Principal Investigator (MPI), Yale University*

I.D.# R21 CA264330-01

Title: "Identification of metabolic niches in African Americans with colorectal cancer"

Proposed Grant Period: 07/1/2021-06/31/2026
Grant score: Scored 25th percentile, impact score 38
Requested Award Amount: \$460,625 (estimated total cost)
**Application discussed by Scientific Review Group.*

Grant: NIH Research Project Grant
Sponsor: NIH
Role: *Principal Investigator (MPI), Yale University*
I.D.# R01 CA248809-01
Title: “Assessing the link between colorectal cancer metabolism and clinical disparities based on race and ethnicity”
Proposed Grant Period: 04/1/2020-03/31/2025
Grant score: not discussed
Requested Award Amount: \$2,165,731 (estimated total cost)

Previous Grants

Grant: NIH Research Training Grant
Sponsor: NIH/CTSA
Role: *Principal Investigator, Yale University*
I.D.# KL2TR001862-03
Title: “Characterization of Curative Oligometastatic Disease in Liver Metastasis”
Grant Period: 10/9/2017-10/8/2019
Award Amount: \$240,000

Grant: Women’s Health Research at Yale
Sponsor: Yale Comprehensive Cancer Center
Role: *Co-Investigator, Yale University*
Title: “Sex Differences in Colon Cancer Metabolism”
Grant Period: 7/1/2017-7/1/2018
Award Amount: \$35,000

Research Funding: Office of Student Research
Sponsor: Yale University School of Medicine
Role: *Scientific Supervisor (PI Michael Heyang)*
Title: “Metastatic Colorectal Cancer”
Funding Period: 6/1/2020-8/31/2020
Award Amount: \$5,508

Research Funding: Office of Student Research
Sponsor: Yale University School of Medicine
Role: *Scientific Supervisor (PI Daniel Jacobs)*
Title: “Identification of Risk Factors for the Development of Early Onset Colorectal Cancer”
Funding Period: 6/1/2017-8/31/2017
Award Amount: \$5,508

Grant: Ohse Research Award
Sponsor: Yale Department of Surgery
Role: *Principal Investigator, Yale University*
Title: “Genomic Profiling of Colorectal Cancer Patients with Liver Metastasis”
Grant Period: 1/1/2015-6/30/2016
Award Amount: \$40,000

Research Funding: Lampman Funding
Sponsor: Yale Department of Surgery, Section of Surgical Oncology
Role: *Principal Investigator, Yale University*
Title: “Clinical Outcomes in Upper Gastrointestinal Malignancies”
Funding Period: 4/1/2014-present
Award Amount: \$20,000

Research Funding: Office of Student Research
Sponsor: Yale University School of Medicine
Role: *Scientific Supervisor (PI Rebecca Zhu)*
Title: “Adjuvant Therapy in Node Positive Gastric Adenocarcinoma”
Funding Period: 1/1/2017-2/28/2017
Award Amount: \$3,409

Research Funding: Office of Student Research
Sponsor: Yale University School of Medicine
Role: *Scientific Supervisor (PI Rebecca Zhu)*
Title: “Adjuvant Therapy in Node Positive Gastric Adenocarcinoma”
Funding Period: 10/1/2016-12/1/2016
Award Amount: \$5,844

Research Funding: Office of Student Research
Sponsor: Yale University School of Medicine
Role: *Scientific Supervisor (PI Rebecca Zhu)*
Title: “MicroRNAs Characterize Oligometastasis in Colorectal Liver Metastases”
Funding Period: 6/1/2014-8/31/2014
Award Amount: \$5,508

Grant: NIH T32 Training Grant
Sponsor: NIH
Role: *Research fellow, Memorial Sloan-Kettering Cancer Center*
Principal Investigator: Murray Brennan, MD
I.D.# T32CA009501-20 CA/NCI NIH
Title: “Characterization of Curative Oligometastatic Disease in Liver Metastasis”
Grant Period: 7/1/06-6/30/07
Award Amount: \$50,000

Grant: NIH T32 Training Grant
Sponsor: NIH
Role: *Research fellow, Memorial Sloan-Kettering Cancer Center*
Principal Investigator: Murray Brennan, MD
I.D.# T32CA009501-19 CA/NCI NIH
Title: “Characterization of Curative Oligometastatic Disease in Liver Metastasis”
Grant Period: 7/1/05-6/30/06
Award Amount: \$50,000

Post-Doctoral Fellows Trained:

2014-2018 Gabriella Grisotti, MD, PhD
2017-2024 Vadim Kurbatov, MD, PhD
2017-2019 Danielle Heller, MD
2018-2019 Varvara Mironova, MD
2019-2021 Yuping Cai, PhD
2020-present Xinyi Shen, (PhD candidate)

2021-present	Daniel Kerekes, MD
2021-2022	Nupur Nagarkatti, MBBS
2021-present	Abhishek Jain, PhD
2021-present	Oladimeji Aladelokun, PhD
2021-present	Hong Yan, PhD
2021-2023	Boshi Sun, MD
2021-present	Yasmeen Ajaj PhD
2021-2023	Xujun Wang, PhD
2023-present	Samuel Butensky, MD
2023-2024	Yengsheng Wang, PhD, MD
2023-2024	Cara Ly, PhD
2023-present	David Su, MD
2024-present	Dina Garmroudi, MPH (candidate)

Doctoral Degree Trainees:

2013-2018	M.D., Rebecca Zhu, Yale University School of Medicine
2016-2020	M.D., Bryan Kapps, Yale University School of Medicine
2017-2021	M.D., Daniel Jacobs, Yale University School of Medicine
2018-2022	M.D., Cara Cama, Frank H. Netter MD School of Medicine
2020-2022	M.D., Michael Heyang, Yale University School of Medicine
2020-2022	M.D., Sajid Hossein, Yale University School of Medicine
2021-2023	M.D., Montana Morris, Yale University School of Medicine
2021-2024	M.D., Baylee Bakkila, Yale University School of Medicine
2021-2024	M.D., Victoria Marks, Yale University School of Medicine
2024-present	M.D., F'jei Will, Morehouse School of Medicine
2024-present	M.D., Ismail Ajjawi, Yale University School of Medicine

Masters Degree Trainees:

2018-2020	M.H.S., Vadim Kurbatov, MD, Yale University School of Medicine
2017-2019	M.H.S., Danielle Heller, MD, Yale University School of Medicine
2021-present	M.H.S., Daniel Kerekes, MD, Yale University School of Medicine
2024-present	M.P.H. (candidate), Dina Garmroudi, Yale University School of Public Health

Undergraduate Degree Trainees:

2023-present	Colin Kim, Yale University
2024-present	Georgio Maroun, Yale University

High School Trainees:

2024	Sophie O'Brien, New York, NY
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Invited Speaking Engagement, Presentations, Symposia & Workshops Not Affiliated with Yale: International/National/Regional

- 2003: *Case Presentation of Chronic Limb Ischemia*. Frank J. Veith Vascular Surgery Conference. Montefiore Medical Center. Bronx, NY.
- 2006: *Detection of TP53 Mutations in Colorectal Cancer: Methods and Applications*. Memorial Sloan-Kettering Cancer Center Surgical Research Conference. New York, NY.
- 2007: *Molecular Markers in Colorectal Cancer*. Memorial Sloan-Kettering Cancer Center Surgical Research Conference. New York, NY.
- 2011: *Pancreatic Cancer: PCN as Precursor to Cancer and Geriatric Assessment*. Annual Gastrointestinal Symposium: Controversies in the Management of Complex GI Cancer Patients, Chicago, IL.
- 2011: *Adjuvant Radiation Therapy and Postmastectomy Expanders*. Surgery Grand Rounds, University of Chicago, Chicago, IL.

- 2012: *Hyperthermic Perioperative Chemotherapy For Colorectal Cancer*. Annual Gastrointestinal Symposium: Controversies in the Management of Complex GI Cancer Patients, Chicago, IL.
- 2014: *Surgical Oncology in a Community Setting*. American College of Surgeons, Commission on Cancer Survey. Fairfield, CT.
- 2014: *Defining a Conserved Role for Palladin in Tumor Progression*. Moderator, American College of Surgeons Clinical Congress, Surgical Oncology/Endocrine II Session. San Francisco, CA.
- 2015: *Double Blind Placebo-Controlled Trial of Eflornithine and Sulindac to Prevent Recurrence of High Risk Adenomas and Second Primary Colorectal Cancers in Patients with Stage 0-3 Colon or Rectal Cancer, Phase III*. American College of Surgeons Clinical Research Program, Surgical Investigators Meeting. Chicago, IL.
- 2015: *Melanoma Prevention and Surgical Treatment*. Cancer Program. Trumbull Marriott Hotel. Trumbull, CT
- 2016: *Double Blind Placebo-Controlled Trial of Eflornithine and Sulindac to Prevent Recurrence of High Risk Adenomas and Second Primary Colorectal Cancers in Patients with Stage 0-3 Colon or Rectal Cancer, Phase III*. American College of Surgeons Clinical Research Program, Surgical Investigators Meeting. Washington, D.C.
- 2016: *Scientific Forum: Hepatobiliary and Pancreas I Session*. Moderator, American College of Surgeons Clinical Congress, Washington D.C.
- 2017: *Hepatobiliary and Pancreas Disease: Connecticut Chapter of the American College of Surgeons, American Board of Surgery Inservice Training Exam Review*. Waterbury, CT.
- 2017: *SSAT Video Session: Small Bowel and Colorectal*. Moderator, The Society for Surgery of the Alimentary Tract, Digestive Disease Week, Chicago, IL.
- 2017: *Adequate Lymphadenectomy in Small Bowel Neuroendocrine Tumors: Analysis of the NCDB*. Moderator, The Society for Surgery of the Alimentary Tract, Digestive Disease Week, Chicago, IL.
- 2018: *Hepatobiliary and Pancreas Disease: Connecticut Chapter of the American College of Surgeons, American Board of Surgery Inservice Training Exam Review*. Waterbury, CT.
- 2018: *Surgical Oncology for the Non-Oncology Provider: Northeast Medical Group Ambulatory Grand Rounds*. Trumbull, CT.
- 2018: *The Gut-Liver Axis: Probing the Portal System as the Source of Inflammation in Acute and Chronic Diseases*. Moderator, The Society for Surgery of the Alimentary Tract, Digestive Disease Week, Chicago, IL.
- 2018: *Big Data, Better Outcomes in Liver Oligometastasis*. Stony Brook Cancer Center Grand Rounds, Stony Brook University. Stony Brook, NY.
- 2018: *From Primary Tumor to Metastasis: Transcriptional to Post-Transcriptional Regulation*: Rockefeller University-Yale University Collaborative Research Day, New Haven, CT.
- 2019: *Team Science Leadership*: Rockefeller University-Yale University Collaborative Research Day, Rockefeller University, New York, NY.
- 2021: *The Fundamentals of Putting Together a Grant Application*: Society for Surgery of the Alimentary Tract Grant Writing Workshop: Tools and Practical Tips for Grant Writing and Preparation, Boston, MA.
- 2021: *Key Elements of Setting Up a Research Laboratory*: Society for Surgery of the Alimentary Tract Research Committee National Seminar Series, Boston, MA.
- 2022: *Melanoma Screening for Melanoma Monday*. Eyewitness News WFSB News 3. New Haven, CT.
- 2022: *Is It Too Late to Start a Research Lab*. Society for Surgery of the Alimentary Tract, Mid-Career Academic Surgeon, Nationally Broadcasted Webinar, Boston, MA
- 2022: *Racial Disparities with Patient Surgical Outcomes in GI Tract Cancer*. OncLive. Cranbury, NJ.
- 2022: *Race Could Impact Quality of Care*. News 12 New York City, News 12 Long Island, News 12 Connecticut. New York, NY.
- 2023: *Impact of Race and Ethnicity on Quality of Gastrointestinal Cancer Care*. America Trends Podcast, New York, NY.
- 2023: *Surgical Oncology III: Liver*: Moderator, American College of Surgeons Clinical Congress, Boston, MA.

- 2023 *Pancreatic Cysts: Meeting the Expert:* American College of Surgeons Clinical Congress, Boston, MA.
- 2023 *Diagnosis and multidisciplinary management of hepatocellular carcinoma:* American Cancer Society Tumor Registrars Association. Hartford, CT.
- 2023 *Overcoming Research Burnout in Today's Academics:* Society for Surgery of the Alimentary, Boston, MA.
- 2024 *Insights into Colorectal Cancer Liver Metastasis with a Multi-omics Approach:* State University of New York Downstate Health Sciences University, Cancer Disparities Symposium, Brooklyn, NY.
- 2024 *Team Science in Translational Research:* Society for Surgery of the Alimentary, Research Committee National Seminar Series, Boston, MA.
- 2024 *Pancreas II:* Moderator, Digestive Disease Week, Washington, D.C.
- 2024 *HOXA13 Overexpression is Associated with Poor Prognosis in Colorectal Liver Metastases:* New England Surgical Society, Burlington, VT.
- 2024 *Postoperative CRP Predicts Pancreatic Fistula Formation After Whipple Procedure: An Internal Validation Study:* New England Surgical Society, Burlington, VT.
- 2024 *Surgical Oncology: Liver:* Moderator, American College of Surgeons Clinical Congress, San Francisco, CA.
- 2024 *Hepatopancreatobiliary Trials Year Wrap Up:* Interviewed Discussant, SurgOnc Today Podcast, Society of Surgical Oncology. Rosemont, IL.
- 2024 *Elucidating the Survival Disparity and Unique Genomic and Microbiome Profile of Colon Cancer Patients in Appalachian Kentucky:* Invited Discussant, Southern Surgical Association, Palm Springs, FL.
- 2025 *Insights into Colorectal Cancer Liver Metastasis with a Multi-omics Approach:* Hofstra University/Northwell Health, Feinstein Institutes for Medical Research Visiting Professor Lecture Series, Great Neck, NY (pending).
- 2025 *Decision Making in Minimally Invasive Liver Surgery:* The Indian Chapter of Society for Surgery of the Alimentary Tract, Kaizen Con 2025, Ahmedabad, India (pending).
- 2025 *Decision Making in Minimally Invasive Pancreas Oncologic Surgery:* The Indian Chapter of Society for Surgery of the Alimentary Tract, Kaizen Con 2025, Ahmedabad, India (pending).
- 2025 *Insights into Colorectal Cancer Liver Metastasis with a Multi-omics Approach:* Plenary Session, The Indian Chapter of Society for Surgery of the Alimentary Tract, Kaizen Con 2025, Ahmedabad, India (pending).
- 2025 *Symposium: Pushing Boundaries of Colorectal Liver Metastases Management: How Far Can We Go?* Society of Surgical Oncology Annual Meeting, Tampa, FL (pending).

Invited Speaking Engagement, Presentations, Symposia & Workshops Affiliated with Yale:

- 2013: *Overview of Surgical Management of Pancreatic and Biliary Cancers.* Bridgeport Hospital, Bridgeport, CT.
- 2013: *Surgical Option for Hepatocellular Carcinoma.* Cancer Conference, Bridgeport Hospital, Bridgeport, CT.
- 2013: *Controversies Surrounding Surgical Management of Gastric Cancer.* Cancer Conference, Bridgeport Hospital. Bridgeport, CT.
- 2013: *Career in Oncology.* Pre-Health Sciences Mentoring Program, Branford College, Yale University. New Haven, CT.
- 2014: *To Cut or Not to Cut: The Path to Using Molecular Profiles to Manage Metastatic Cancer.* Department of Surgery Grand Rounds, Yale University School of Medicine, New Haven, CT.
- 2014: *Care of the Surgical Oncology Patient.* Bridgeport Hospital, Bridgeport, CT
- 2014: *Relationships, Life Inside and Outside of Medicine.* Pre-Health Sciences Mentoring Program, Branford College, Yale University. New Haven, CT.
- 2014: *Surgery in Cancer Prevention.* Cancer Conference, Bridgeport Hospital. Bridgeport, CT
- 2014: *Surgical Oncology at Bridgeport Hospital.* Hospital Board Meeting. Bridgeport Hospital,

- Bridgeport, CT.
- 2014: *To Cut or Not to Cut: The Path to Using Molecular Profiles to Manage Metastatic Cancer*. Yale Cancer Center Grand Rounds. Smilow Cancer Hospital, New Haven, CT.
- 2014: *Decision Making in Benign and Malignant Pancreatic Surgery*. Department of Medicine Gastrointestinal Grand Rounds. Bridgeport Hospital, Bridgeport, CT.
- 2014: *Care of Surgical Oncology Patients*. Nursing Lecture Series. Bridgeport Hospital, Bridgeport, CT
- 2014: *Gastric Cancer*. Department of Surgery Lecture Series. Yale University School of Medicine. New Haven, CT
- 2014: *CSIG Surgical Oncology*. Cancer Student Interest Group Meeting. Yale University School of Medicine. New Haven, CT
- 2014: *Double Blind Placebo-Controlled Trial of Eflornithine and Sulindac to Prevent Recurrence of High Risk Adenomas and Second Primary Colorectal Cancers in Patients with Stage 0-III Colon Cancer, Phase III – Preventing Adenomas of the Colon with Eflornithine and Sulindac (PACES)*. Smilow Cancer Hospital Clinical Trial Kick Off Lecture. Yale University School of Medicine. New Haven, CT
- 2014: *Lab 8: Foregut Cholangiocarcinoma*. Medical Student Year-1 Anatomy Course. Yale University School of Medicine. New Haven, CT
- 2015: *Melanoma Prevention and Surgical Treatment*. Cancer College. Yale New Haven Health System. Trumbull, CT
- 2015: *Care of Surgical Oncology Patients*. Nursing Lecture Series. Bridgeport Hospital, Bridgeport, CT
- 2015: *Pancreatic Cancer: Perspectives from a Surgical Oncologist*. Cancer College. Yale New Haven Health System. Trumbull, CT
- 2015: *Lab: Foregut Cholangiocarcinoma*. Medical Student Year-1 Anatomy Course. Yale University School of Medicine. New Haven, CT
- 2015: *Principles of Surgical Oncology: Genes and Development* Medical Student Year 1 Lecture Series. Yale University School of Medicine. New Haven, CT
- 2015: *Gastric and Duodenal Surgical Disease*: Department of Surgery Lecture Series. Yale University School of Medicine. New Haven, CT
- 2016: *Surgical Management of Gallbladder Carcinoma*: Gastrointestinal Grand Rounds, Bridgeport Hospital. Bridgeport, CT
- 2016: *Care of Surgical Oncology Patients*. Nursing Lecture Series. Bridgeport Hospital, Bridgeport, CT
- 2016: *Gastric Surgical Disease*: Department of Surgery Lecture Series. Yale University School of Medicine. New Haven, CT
- 2016: *Principles of Surgical Oncology: Genes and Development* Medical Student Year 1 Lecture Series. Yale University School of Medicine. New Haven, CT
- 2016: *Genomic Profiling of Colorectal Cancer Liver Oligometastasis*. Department of Surgery Grand Rounds, Yale University School of Medicine, New Haven, CT.
- 2017: *Hepato-Pancreato-Biliary Tumors*: Surgery Clerkship Medical Student Year 3 Lecture Series. Yale University School of Medicine. New Haven, CT
- 2017: *Surgical Oncology Care in a Community Setting*: Park Avenue Medical Center Advisory Board. Smilow Cancer Hospital-Park Avenue Medical Center, Trumbull, CT.
- 2017: *Genomic Characterization of Metastatic Colorectal Cancer*: Department of Medicine Grand Rounds. Bridgeport Hospital. Bridgeport, CT
- 2017: *Hepato-Pancreato-Biliary Tumors*: Surgery Clerkship Medical Student Year 3 Lecture Series. Yale University School of Medicine. New Haven, CT
- 2017: *Principles of Surgical Oncology: Genes and Development* Medical Student Year 1 Lecture Series. Yale University School of Medicine. New Haven, CT
- 2017: *Hepato-Pancreato-Biliary Tumors*: Surgery Clerkship Medical Student Year 3 Lecture Series. Yale University School of Medicine. New Haven, CT
- 2017: *Neoplasms of the Upper GI Tract*: Energy and Metabolism Master Course, Medical Student Year 2 Lecture Series. Yale University School of Medicine. New Haven, CT
- 2017: *Colorectal Cancer*: Energy and Metabolism Master Course, Medical Student Year 2 Lecture Series. Yale University School of Medicine. New Haven, CT

- 2017: *Career Luncheon: Energy and Metabolism Master Course, Medical Student Year 2 Lecture Series.* Yale University School of Medicine. New Haven, CT
- 2017: *Hepato-Pancreato-Biliary Tumors: Surgery Clerkship Medical Student Year 3 Lecture Series.* Yale University School of Medicine. New Haven, CT
- 2017: *Gastric Neoplasms: Department of Surgery Lecture Series.* Yale University School of Medicine. New Haven, CT
- 2017: *Surgical Management of Hepatic Masses: Interventional Radiology Lecture Series.* Yale University School of Medicine. New Haven, CT
- 2017: *Colorectal Cancer Liver Oligometastases: Yale Center for Clinical Investigation Research in Progress.* Yale University School of Medicine. New Haven, CT. Series. Yale University School of Medicine. New Haven, CT
- 2018: *Surgical Management of Hepatic Masses: Interventional Radiology Lecture Series.* Yale University School of Medicine. New Haven, CT
- 2018: *Evaluation of and Surgical Options for Pancreatic Neuroendocrine Tumors: Yale Pancreas Symposium: Multidisciplinary Management of Pancreatic Cancer.* Yale University School of Medicine. New Haven, CT
- 2018: *Hepato-Pancreato-Biliary Tumors: Surgery Clerkship Medical Student Year 3 Lecture Series.* Yale University School of Medicine. New Haven, CT
- 2018: *Hepato-Pancreato-Biliary Tumors: Surgery Clerkship Medical Student Year 3 Lecture Series.* Yale University School of Medicine. New Haven, CT
- 2018: *Neoplasms of the Upper GI Tract: Energy and Metabolism Master Course, Medical Student Year 2 Lecture Series.* Yale University School of Medicine. New Haven, CT
- 2018: *Practice Patterns and Guideline Non-Adherence in Surgical Management of Appendiceal Carcinoid Tumors.* Yale Cancer Center Trainee Colloquium, New Haven, CT.
- 2018: *Long Non-coding RNA HOTTIP Is Biomarker for Recurrence After Hepatic Metastasectomy for Colorectal Cancer.* Yale Cancer for Clinical Investigation External Advisory Board Meeting, New Haven, CT.
- 2018: *HOX Gene Family Prognostic for Colorectal Cancer Liver Oligometastases: Yale Center for Clinical Investigation Research in Progress.* New Haven, CT.
- 2018: *Hepato-Pancreato-Biliary Tumors: Surgery Clerkship Medical Student Year 2/3 Lecture Series.* Yale University School of Medicine. New Haven, CT
- 2018: *Biomarkers for Liver Oligometastasis in Colorectal Cancer: Yale Center for Clinical Investigation Research in Progress.* Yale University School of Medicine. New Haven, CT
- 2018: *Principles of Surgical Oncology: Genes and Development Medical Student Year 1 Lecture Series.* Yale University School of Medicine. New Haven, CT
- 2018: *One Blueprint to Becoming a Surgeon-Scientist: Reflections of an Academic Surgical Oncologist: Seminars in Surgical Research,* Yale University School of Medicine, New Haven, CT
- 2018: *Biomarkers for Liver Oligometastasis in Colorectal Cancer: Yale Center for Clinical Investigation External Advisory Board Meeting,* New Haven, CT.
- 2018: *Biomarkers for Liver Metastases in Colorectal Cancer: Yale Center for Clinical Investigation Research in Progress.* Yale University School of Medicine. New Haven, CT
- 2019: *Hepato-Pancreato-Biliary Tumors: Surgery Clerkship Medical Student Year 2/3 Lecture Series.* Yale University School of Medicine. New Haven, CT
- 2019: *Biomarkers for Liver Metastases in Colorectal Cancer.* Department of Surgery Grand Rounds, Yale University School of Medicine. New Haven, CT
- 2019: *Neoplasms of the Upper GI Tract: Energy and Metabolism Master Course, Medical Student Year 2 Lecture Series.* Yale University School of Medicine. New Haven, CT
- 2019: *Hepato-Pancreato-Biliary Tumors: Surgery Clerkship Medical Student Year 2/3 Lecture Series.* Yale University School of Medicine. New Haven, CT
- 2019: *Principles of Surgical Oncology: Genes and Development Medical Student Year 1 Lecture Series.* Yale University School of Medicine. New Haven, CT. 2/3 Lecture Series. Yale University School of Medicine. New Haven, CT
- 2019: *Biomarkers for Liver Oligometastasis in Colorectal Cancer: Yale Center for Clinical Investigation*

- External Advisory Board Meeting, New Haven, CT.
- 2019: *A Blueprint to Starting Your Research Career at Yale*: Steps to Success Seminar, Yale Department of Surgery, New Haven, CT.
- 2020: *Scientific program organizer, host, moderator*. Scientific Colorectal Cancer Translation Scientific Joint Lab Retreat. Yale Cancer Center. Fairfield County, CT
- 2020: *Gastric Neoplasms*: Department of Surgery Lecture Series. Yale University School of Medicine. New Haven, CT
- 2020: *Neoplasms of the Upper GI Tract*: Energy and Metabolism Master Course, Medical Student Year 2 Lecture Series. Yale University School of Medicine. New Haven, CT
- 2020: *Hepato-Pancreato-Biliary Tumors*: Surgery Clerkship Medical Student Year 2/3 Lecture Series. Yale University School of Medicine. New Haven, CT
- 2020: *Principles of Surgical Oncology*: Genes and Development Medical Student Year 1 Lecture Series. Yale University School of Medicine. New Haven, CT
- 2020: *Translating bench-side research to clinical care of colorectal cancer patients*. Cancer Prevention and Control (CPC) and Cancer Microbiology (CM) Research Program Joint Retreat on Microbiome. Yale Cancer Center. New Haven, CT
- 2020: *Hepato-Pancreato-Biliary Tumors*: Surgery Clerkship Medical Student Year 2/3 Lecture Series. Yale University School of Medicine. New Haven, CT
- 2020: *Scientific Program Organizer, Host, and Moderator*. Cancer Prevention and Control (CPC) and Cancer Microbiology (CM) Research Program Joint Retreat on Microbiome. Yale Cancer Center. New Haven, CT
- 2021: *Clinical Translational Research in Colorectal Cancer Liver Metastases*. Center for GI Cancers Seminar. Yale Cancer Center. New Haven, CT
- 2021: *Hepato-Pancreato-Biliary Tumors*: Surgery Clerkship Medical Student Year 2/3 Lecture Series. Yale University School of Medicine. New Haven, CT
- 2021: *Gastrointestinal Cancer Journal Club Speaker, Colorectal Liver Metastases*. Center for GI Cancers Seminar. Yale Cancer Center. New Haven, CT
- 2021: *Gastric Neoplasms*: Department of Surgery Lecture Series. Yale University School of Medicine. New Haven, CT.
- 2021: *Women in Surgery Lectureship, Supporting Women in Academic Medicine*. Co-Host for Question And Answer Session. Yale Department of Surgery Grand Rounds. New Haven, CT.
- 2021: *Neoplasms of the Upper GI Tract*: Energy and Metabolism Master Course, Medical Student Year 2 Lecture Series. Yale University School of Medicine. New Haven, CT.
- 2021: *Hepato-Pancreato-Biliary Tumors*: Surgery Clerkship Medical Student Year 2/3 Lecture Series. Yale University School of Medicine. New Haven, CT
- 2021: *Principles of Surgical Oncology*: Genes and Development Medical Student Year 1 Lecture Series. Yale University School of Medicine. New Haven, CT
- 2021: *Yale Review of Advances in Oncology: Highlights of ASCO Meeting 2021 Case Discussion: Gastrointestinal Cancers*. Yale Cancer Center Seminar. New Haven, CT.
- 2021: *Melanoma Perspectives from Yale Surgical Oncology: Fundamentals in Prevention, Detection & Treatment*. Smilow Shares, New Haven, CT.
- 2021: *Gender Equality in the Workplace*. Division of Surgical Oncology Meeting, New Haven, CT.
- 2021: *Team Science Program Update from Yale Center for Clinical Investigation Co-Directors*. National Institutes of Health Program Officer Presentation, Washington, DC.
- 2022: *Team Science Program Update from Yale Center for Clinical Investigation Co-Directors*. External Advisory Board Meeting, New Haven, CT
- 2022: *Hepato-Pancreato-Biliary Tumors*: Surgery Clerkship Medical Student Year 2/3 Lecture Series. Yale University School of Medicine. New Haven, CT
- 2022: *Principles of Surgical Oncology*: Genes and Development Medical Student Year 1 Lecture Series. Yale University School of Medicine. New Haven, CT
- 2022: *Surgical Management of Pancreas and Small Bowel Neuroendocrine Tumors*: Center for Gastrointestinal Cancer CME Series. Yale University School of Medicine. New Haven, CT.
- 2022: *Gastric Neoplasms*: Department of Surgery Lecture Series. Yale University School of Medicine. New Haven, CT.

- Haven, CT.
- 2022: *Hepato-Pancreato-Biliary Tumors: Surgery Clerkship Medical Student Year 2/3 Lecture Series.* Yale University School of Medicine. New Haven, CT
- 2022: *Neoplasms of the Upper GI Tract: Energy and Metabolism Master Course, Medical Student Year 2 Lecture Series.* Yale University School of Medicine. New Haven, CT.
- 2022: *Hepato-Pancreato-Biliary Tumors: Surgery Clerkship Medical Student Year 2/3 Lecture Series.* Yale University School of Medicine. New Haven, CT.
- 2022: *Yale's Review of Advances in Oncology Highlights from the ASCO Annual Meeting 2022: Gastrointestinal Cancers.* Yale Cancer Center/Smilow Cancer Hospital. New Haven, CT.
- 2023: *Hepato-Pancreato-Biliary Tumors: Surgery Clerkship Medical Student Year 2/3 Lecture Series.* Yale University School of Medicine. New Haven, CT
- 2023: *Neoplasms of the Upper GI Tract: Energy and Metabolism Master Course, Medical Student Year 2 Lecture Series.* Yale University School of Medicine. New Haven, CT.
- 2023: *Gastric Neoplasms: Department of Surgery Lecture Series.* Yale University School of Medicine. New Haven, CT.
- 2023: *Principles of Surgical Oncology: Genes and Development Medical Student Year 1 Lecture Series.* Yale University School of Medicine. New Haven, CT
- 2023: *Surgical Treatment of Hepatic Metastasis and Hepatocellular Carcinoma: Perspectives from Surgical Oncology: Yale Interventional Radiology Section Lecture Series.* Yale University School of Medicine. New Haven, CT.
- 2023: *Hepato-Pancreato-Biliary Tumors: Surgery Clerkship Medical Student Year 2/3 Lecture Series.* Yale University School of Medicine. New Haven, CT
- 2023: *Yale's Review of Advances in Oncology Highlights from the ASCO Annual Meeting 2023: Liver Cancers.* Yale Cancer Center/Smilow Cancer Hospital. New Haven, CT.
- 2023: *Pancreatic Cancer Awareness Month: Advances in Surgical Treatment for Pancreas Cancer.* Yale Cancer Center/Smilow Cancer Hospital. New Haven, CT.
- 2024: *Hepato-Pancreato-Biliary Tumors: Surgery Clerkship Medical Student Year 2/3 Lecture Series.* Yale University School of Medicine. New Haven, CT
- 2024: *Neoplasms of the Upper GI Tract: Energy and Metabolism Master Course, Medical Student Year 2 Lecture Series.* Yale University School of Medicine. New Haven, CT
- 2024: *Principles of Surgical Oncology: Genes and Development Medical Student Year 1 Lecture Series.* Yale University School of Medicine. New Haven, CT
- 2024: *Surgical Ergonomics, Panelist: Grand Rounds, Yale Department of Surgery.* New Haven, CT
- 2024: *Yale Advancements in Oncology: Implementing the Best Science from ASCO 2024 and Beyond: GI Cancers.* Yale Cancer Center/Smilow Cancer Hospital. New Haven, CT.

Peer-Reviewed Presentations, Symposia & Workshops Not Affiliated with Yale:

International/National/Regional

- 1998: *Tissue Culture Study of Cartilage Differentiation by Wing and Leg Buds Cells From Chick Embryos.* Siena College Science Fair. Loudonville, NY, April.
- 2003: *Injurious Mechanical Ventilation Preferentially Damages the Non-Dependent Lung.* American College of Surgeons Owen H. Wangenstein Surgical Forum. Chicago, IL.
- 2004: *Radiofrequency Ablation of Recurrent Head and Neck Cancer: First Results.* The International Head and Neck Cancer Conference. Washington D.C.
- 2008: *Molecular and Clinical Profiling of Early Onset Colorectal Cancer.* Portland Surgical Society, 61st Annual Scientific Session. Portland, OR.
- 2008: *EGFR Gene Amplification and KRAS Mutation Predict Response to Cetuximab Plus Bevacizumab in Metastatic Colorectal Cancer.* Northwest Society of Colorectal Surgery, San Juan Islands, WA.
- 2009: *Colorectal Cancer in the Very Young: A Comparative Study of Tumor Markers, Pathology and Survival in Early Onset and Adult Onset Patients.* Society of Surgical Oncology

- annual meeting Phoenix, AZ.
- 2009: *Outcomes from liver resection for metastatic colorectal cancer in the age of FOLFOX chemotherapy.* Society for Surgical of the Alimentary Tract.
- 2011: *Over-expression of the IFN/STAT1 Pathway Results in Aggressive Metastatic and Genotoxic Stress-Resistant Melanoma in a Murine Model.* Huggins Symposium, University of Chicago, Chicago, IL.
- 2011: *The Biology of Early Onset Colorectal Cancer: An Examination of Tumor Markers, Pathology and Survival in a Large Cohort of Patients.* American Society of Clinical Oncology annual meeting.
- 2012: *MicroRNA Expression Characterizes Oligometastasis.* Huggins Symposium, University of Chicago, Chicago, IL.
- 2012: *JAK/STAT Axis as a Target for Tumor Radiosensitization and Chemosensitization: Potential Application to Lung Cancer.* 20th Annual Chicago Multidisciplinary Symposium in Thoracic Oncology.
- 2013: *Increased CXCL10 Expression by Tumor Cells is Associated with Polymetastatic Phenotype.* American College of Surgeon Clinical Congress, Chicago, IL.
- 2017: *Prognostic Signatures of Oligometastasis in Colorectal Cancer Liver Metastasis.* American Society of Clinical Oncology Annual Meeting, Chicago, IL.
- 2018: *Utilization of Adjuvant Therapy in Node Positive Gastric Adenocarcinoma.* Society of Surgical Oncology Annual Cancer Symposium, Chicago, IL.
- 2018: *Does Sentinel Lymph Node Status Have Prognostic Significance in Patients with Acral Lentiginous Melanoma.* Society of Surgical Oncology Annual Cancer Symposium, Chicago, IL.
- 2018: *Regional Differences in the Utilization of Palliative Care in Geriatric Colorectal Cancer Patients Requiring Emergent Surgery.* Digestive Disease Week, Society for Surgery of the Alimentary Tract, Plenary, Scientific Session, Washington D.C.
- 2018: *Practice Patterns and Guideline Non-Adherence in Surgical Management of Appendiceal Carcinoid Tumors.* New England Surgical Society Annual Meeting. Portland, MA.
- 2018: *Impact of Hepatectomy First in Management of Stage IV Colon Cancer with Synchronous Liver Metastases.* New England Surgical Society Annual Meeting. Portland, MA.
- 2018: *Practice Patterns and Guideline Non-Adherence in Surgical Management of Appendiceal Carcinoid Tumors.* American College of Surgeons Clinical Congress, Scientific Forum, Boston MA.
- 2018: *Long Non-coding RNA HOTTIP Is Biomarker for Recurrence After Hepatic Metastasectomy for Colorectal Cancer.* American College of Surgeons Clinical Congress, Scientific Forum, Boston MA.
- 2018: *Impact of Hepatectomy First in Management of Stage IV Colon Cancer with Synchronous Liver Metastases.* American College of Surgeons Clinical Congress, Scientific Forum, Boston MA.
- 2019: *Disparate Palliative Care Utilization among Surgical Patients with Stage IV Colon Cancer.* Society of Surgical Oncology Annual Cancer Symposium, San Diego, CA.
- 2019: *The TumorCBC: In Silico Flow Cytometry to Understand Lung Cancer Data and Predict Survival.* Society of Thoracic Surgeons Annual Meeting, San Diego, CA.
- 2019: *Liver-First Approach to Stage IV Rectal Cancer with Synchronous Isolated Liver Metastases.* Society of Surgical Oncology Annual Cancer Symposium, San Diego, CA.
- 2021: *Adverse Impact of Ascites on Outcomes of Open Inguinal Hernia Repair in the United States.* Connecticut Chapter of the American College of Surgeons Annual Meeting, Trumbull, CT.
- 2021: *Incorporation of Palliative Care into a Multidisciplinary Approach to Stage IV Hepatopancreatobiliary and Upper Gastrointestinal Cancers: An Opportunity for Improvement.* Connecticut Chapter of the American College of Surgeons Annual Meeting, Trumbull, CT.
- 2022: *Palliative Care in Stage IV Lower Gastrointestinal Cancer: Practice Patterns in the United States.* International Conference on Surgical Cancer Care, Society of Surgical Oncology Annual Meeting, Dallas, TX.
- 2022: *Delay in Treatment Initiation Increases Mortality in Non-Metastatic Extrahepatic Bile Duct Cancer.* International Conference on Surgical Cancer Care, Society of Surgical Oncology Annual Meeting, Dallas, TX.
- 2022: *Neoadjuvant Vs. Adjuvant Chemotherapy In Resected Ampullary Carcinoma: A Propensity-matched Cohort Analysis.* Clinical Congress, American College of Surgeons Annual Meeting, San Diego, CA.

- 2022: *Multiomic Analysis Reveals Potential Mechanisms Of EGFR-inhibitor Resistance In Right Sided Colon Cancer Liver Metastases*. Clinical Congress, American College of Surgeons Annual Meeting, San Diego, CA.
- 2023: *Impact of COVID-19 on the Gastrointestinal Surgical Oncology Population*. Annual Academic Surgical Congress, Houston, TX.
- 2023: *Is There Benefit to Metastasectomy in High-Grade Gastropancreatic Neuroendocrine Carcinoma?*. Annual Academic Surgical Congress, Houston, TX.
- 2023: *Multi-omic Analysis Reveals Potential Mechanisms of EGFR-inhibitor Resistance in Right Sided Colon Cancer Liver Metastases*. Plenary Session at International Conference on Surgical Cancer Care, Society of Surgical Oncology, Boston, MA.
- 2023: *Role of Colectomy for Appendiceal Tumors*. Plenary Session at Digestive Disease Week, Society for Surgery of the Alimentary Tract, Chicago, IL.
- 2024: *Effects of the Health Insurance Marketplace on Gastrointestinal Cancer Surgery Outcomes*. Digestive Disease Week, Society for Surgery of the Alimentary Tract, Washington D.C.
- 2024: *HOXA13 overexpression is associated with poor prognosis in colorectal liver metastases*. New England Surgical Society, Burlington, VT.
- 2025: *Evaluation of social support, discrimination, and perceived health in patients with gastrointestinal tract cancers*. American Society of Clinical Oncology Gastrointestinal Cancer Symposium, San Francisco, CA (pending).
- 2025: *Impact of Social Determinants of Health on Perceived Health in Gastrointestinal Cancer Patients*. Academic Surgical Congress, Las Vegas, NV (pending).
- 2025: *Self-Perceived Barriers to Healthcare Experienced by Patients with Gastrointestinal Cancers*. Society of Surgical Oncology Annual Meeting, Tampa, FL (pending).

Professional Service:

Journal Service

Editorial Board

10/2021-present	<i>Annals of Surgical Oncology</i>
01/2025-present	<i>Indian Journal of Surgery</i>

Reviewer

05/2009-present	<i>International Journal of Oncology</i>
10/2013-present	<i>Journal of Gastrointestinal Surgery</i>
10/2013-present	<i>Journal of Surgical Oncology</i>
12/2013-present	<i>International Journal of Cancer</i>
05/2015-present	<i>Annals of Surgery</i>
12/2017-present	<i>Journal of the National Comprehensive Cancer Network</i>
05/2018-present	<i>Annals of Surgical Oncology</i>
02/2019-present	<i>Nature Reviews Gastroenterology and Hepatology</i>
03/2019-present	<i>New England Journal of Medicine</i>
04/2021-present	<i>Cancer</i>

Professional Service for Professional Organizations

The Surgical Biology Club

09/2024-present Member

The Southern Surgical Association

12/2022 Annual Meeting, Invited Guest
12/2024 Annual Meeting, Invited Discussant

Society of University Surgeons

03/2022-present Member
08/2022-present Institutional Representative
03/2023-02/2024 Scholarship Committee, Member

National Comprehensive Cancer Network

11/2017-present Member, Neuroendocrine Tumor Panel
12/2024-present Member, Hepatobiliary Tumor Panel

Society for Surgery of the Alimentary Tract

10/2013-present Member
07/2015-06/2018 Program Subcommittee Small Bowel, Member
07/2018-06/2020 Program Subcommittee Hepatobiliary, Member
07/2020-05/2023 Research Committee, Member
05/2023-present Diversity & Inclusions Liaison Committee, Member
05/2023-present Research Committee, Chair
05/2024-present Mentorship Program, Mentor

Society of Surgical Oncology

10/2010-present Member
03/2019-02/2022 Colorectal Disease Site Work Group, Member
03/2015-02/2019 Gastrointestinal Disease Site Work Group, Member
10/2019-present Fellow
01/2024-present Hepato-Pancreato-Biliary Disease Site Work Group, Member

Association for Academic Surgery

07/2016-present Member

American Society of Clinical Oncology

01/2012-present Member

Americas Hepato-Pancreato-Biliary Association

05/2015-present Member
08/2016-present Research Committee, Member

Southwest Oncology Group

03/2014-present Member

American College of Surgeons

08/2013-present American College of Surgeons – Fellow

University of Chicago Medical Center

07/2010-6/2012 Cancer Committee, Member

Oregon Health and Science University

06/2010-present Mackenzie (Portland) Surgical Society – Member

American Medical Association

07/2001-05/2003 Member, Student

Siena College

03/1998-04/1999 Presidential Scholar Interview Committee

Yale University Service***University Committees***

10/2013-present	Yale University Undergraduate Mentoring Program
10/2014-present	Yale University, Cancer Student Interest Group
11/2019-present	Yale Institute for Global Health – Sustainable Health Initiative Faculty Mentor
06/2020-present	Yale, Investigative Medicine Program – PhD Qualifying Committee Member (Kurbatov)
06/2021-present	Yale, Department of Genetics – PhD Qualifying Committee Member (Ajaj)
06/2023-present	Yale, Department of Genetics – PhD Qualifying Committee Member (Ly)

Medical School Committees

10/2013-present	Yale University, Surgical Clerkship Mentorship Program
11/2013-present	Yale School of Medicine, Faculty Research Advisor
02/2017-present	Yale School of Medicine, Medicine Student Thesis Committee - Member
09/2017-present	Yale School of Medicine, Medical Student Admissions Committee – Member
10/2021-present	Yale School of Medicine, Dean’s Office, Office of Team Science, Promotion of Interdisciplinary Team Science (POINTS) program– Internal Advisory Board

Departmental Committees

08/2016-09/2018	Yale Department of Surgery, Grand Rounds Committee – Member
12/2018-06/2019	Yale Department of Surgery, Surgery Research Day Committee – Member
10/2018-06/2019	Yale Department of Surgery, Strategic Work Group: Academic Mission – Member
11/2020-present	Yale Department of Surgery, Surgery Quality Council - Division (Surgical Oncology) Quality Representative
09/2023-present	Yale Department of Surgery, Research Advisory Council – Member
12/2021-03/2022	Yale Department of Surgery, Surgical Oncology Faculty Recruitment (PSM) – Chair
12/2021-03/2022	Yale Department of Surgery, Surgical Oncology Faculty Recruitment (HPB) - Chair

Yale Cancer Center Committees

09/2013-present	Yale Cancer Center, Gastrointestinal Cancer Program – Member
08/2014-present	Yale Cancer Center, Sarcoma Program – Member
08/2014-present	Yale Pancreas Diseases Program – Member
08/2014-present	Yale Cancer Center, Melanoma Program – Member
01/2014-present	Yale Cancer Center, Cancer Genetics and Genomics – Member
01/2014-present	Yale Cancer Center, Liver Cancer Program – Member
08/2015-09/2018	Yale Cancer Center, Protocol Review Committee – Member
06/2021-01/2022	Yale Department of Surgery and Cancer Center, Division Chief Surgical Oncology Faculty Recruitment Committee – Co-Chair
01/2023-present	Yale Cancer Center, Leadership Cabinet – Member

Hospital Boards & Committees

10/2013-present	Cancer Committee, YNHHS Bridgeport Hospital – Member
08/2015-present	Oncology Clinical Program Team, YNHHS Bridgeport Hospital – Member
09/2016-present	Smilow Cancer Hospital, Park Avenue Medical Center Advisory Board – Member
09/2017-06/2019	Medical Executive Nominating Committee - YNHHS Bridgeport Hospital– Member
04/2019-06/2019	COVID-19 Front Line Care, Medical Intensive Care Unit – Yale New Haven Hospital – Volunteer Faculty
06/2023-09/2023	Standardization of Hepatectomy, Care Signature Pathways - Yale Cancer Center/Smilow Cancer Hospital/Yale Health System - Leader
06/2023-09/2023	Standardization of Pancreatectomy, Care Signature Pathways - Yale Cancer Center/Smilow Cancer Hospital/Yale Health System - Leader

- 10/2023-01/2024 Standardization of Gastrointestinal Stromal Tumor Molecular Profiling - Yale Cancer Center/Smilow Cancer Hospital - Leader
- 02/2024-07/2024 Standardization of Surgical Oncology Care Committee: Staging Laparoscopy – Yale Cancer Center/Smilow Cancer Hospital - Chair

Press and Public Service

- 08/2001 *Co-Founder/Coordinator, Adopt-A-School Program, Syracuse, NY*
- 10/2001 *Coordinator, Syracuse Health Fair, Upstate Medical University, Syracuse, NY*
- 01/2014 *Featured Oncology Expert, Tony & Mike in the Morning Show, Radio WICC600 AM, Advances in Surgical Oncology*
- 11/2013 *Featured Oncology Expert, Yale Cancer Center Answers, Radio WNPR Connecticut Public Radio, Surgical Options for GI Cancers*
- 04/2015 *Featured Oncology Expert, Tony & Mike in the Morning Show, Radio WICC600 AM, Treatment of Gastrointestinal Cancers*
- 10/2019 *Featured Gastrointestinal Oncology Expert, News 8 on Call, Television NEWS 8 wtnh.com, Why Pharmacies Stopped Selling Zantac*
- 04/2022 *Featured in MedPage Today. Black Patients More Often Get Substandard Care for GI Cancers.*
- 04/2022 *Featured in ASCO Post. Study Explores Racial Disparities Among Patients Undergoing Gastrointestinal Cancer Surgery.*
- 04/2022 *Featured in Cancer Network. Investigators Identify Significant Racial Disparities in Surgical Care for Cancer of the GI Tract.*
- 04/2022 *Featured in Medscape. Significant Racial Disparities in Care Quality for GI Cancers*
- 04/2022 *Featured in New Haven Register, Black, Hispanic People Get Worse Care in Cancer Surgeries, COVID, Studies Find*
- 05/2022 *Featured Surgical Oncology Expert, Eyewitness NEWS 3, Skin Cancer Prevention*
- 04/2023 *Featured in YaleNews. Study Reveals Potential Target for Precision Colorectal Cancer Treatment.*
- 04/2023 *Featured in America Trends Podcast. Episode 650. Do Minority Cancer Patients Receive Different Care Than White Patients?*
- 09/2023 *Featured in ASCO Post. Does Colon Tumor Location Play a Role in Metastasis and Survival.*
- 01/2024 *Featured in JAMA Author Interviews. Immunotherapy Initiation at the End of Life in Patients with Metastatic Cancer in the United States.*

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Peer-Reviewed Original Research

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2. Zeng Z, Weiser MR, Kuntz E, Chen T, **Khan SA**, Nash GM, Gimbel M, Yamaguchi Y, Culliford AT, D'Alessio M, Barany F, Paty PB. c-MET gene amplification is associated with advanced stage colorectal cancer and its liver metastasis. *Cancer Letters* 2008, Jul 8;265(2):258-69.
3. **Khan SA**, Idrees K, Forshund A, Zeng Z, Rosenberg S, Pincas H, Barany F, Offit K, LaQuaglia M, Paty PB. Genetic variants in germline TP53 and MDM2 SNP309 are

not associated with early onset colorectal cancer. *Journal of Surgical Oncology* 2008, Jun 1;97(7):621-5.

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Practice Guidelines

104. Gastrointestinal Disease Site Working Group, Society of Surgical Oncology.
Role: Develop national guidelines/consensus statements for surgical management of: esophageal cancer, gastric cancer, pancreatic neuroendocrine tumors, gastrointestinal stromal tumors.
105. Small Bowel Disease Working Group, Society for Surgery of the Alimentary Tract.
Role: Develop national guidelines/consensus statements for surgical management of small bowel disease.
106. Research Committee, Americas Hepato-Pancreato-Biliary Association.
Role: Award grants and develop educational curriculum for surgical research in the liver, pancreas and bile ducts.
107. Neuroendocrine Tumor Panel Committee, National Comprehensive Cancer Network. Version 4.2018. Role: Develop international guidelines/consensus statements for multidisciplinary management of neuroendocrine tumors.

108. Neuroendocrine Tumor Panel Committee, National Comprehensive Cancer Network. Version 1.2019. Role: Develop international guidelines/consensus statements for multidisciplinary management of neuroendocrine tumors.
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