

Ready to start planning your care? Call us at [800-525-2225](tel:800-525-2225) to make an appointment.

×



Memorial Sloan Kettering  
Cancer Center



[Make an Appointment](#)

[Back](#)

[Find a Specialist & Treatment](#)

[Refer a Patient](#)

#### ABOUT US

[Our mission, vision & core values](#)

[Leadership](#)

[History](#)

[Equality, diversity & inclusion](#)

[Annual report](#)

[Give to MSK](#)

## Human Oncology & Pathogenesis Program

Bridging the lab and clinic to develop next-generation cancer treatments

[Learn more](#)

Investigators in the Human Oncology and Pathogenesis Program (HOPP) at Memorial Sloan Kettering have one foot in the lab and one foot in the clinic. Positioned at the forefront of translational research, HOPP investigators are uniquely situated to bridge gaps between the basic science and clinical research worlds. HOPP's research programs span multiple cancer types, and its scientists employ innovative technologies, often redefining how we find, develop, and test new cancer therapies. The program also supports graduate and postdoctoral training for physicians and scientists who want to serve at the cutting-edge of translational cancer research.

[View Our Timeline of Discoveries](#)



HOPP Chair Charles Sawyers (center) with research fellows Ping Mu and Elizabeth Adams

---

## Faculty & Leadership

HOPP scientists are leaders in their field and are conducting research at the cutting edge of cancer science.

Select... ▾

[View all HOPP faculty](#) →  
[View our scientific advisory board](#) →

## Education & Training

HOPP is dedicated to training physicians and scientists at all levels for careers at the forefront of translational cancer research.

[Postdoctoral Training](#)

[Gerstner Sloan Kettering Graduate School of Biomedical Sciences](#)

[Research Technician Pipeline](#)

[Summer High School Student Program](#)

[Science Enrichment Program](#)

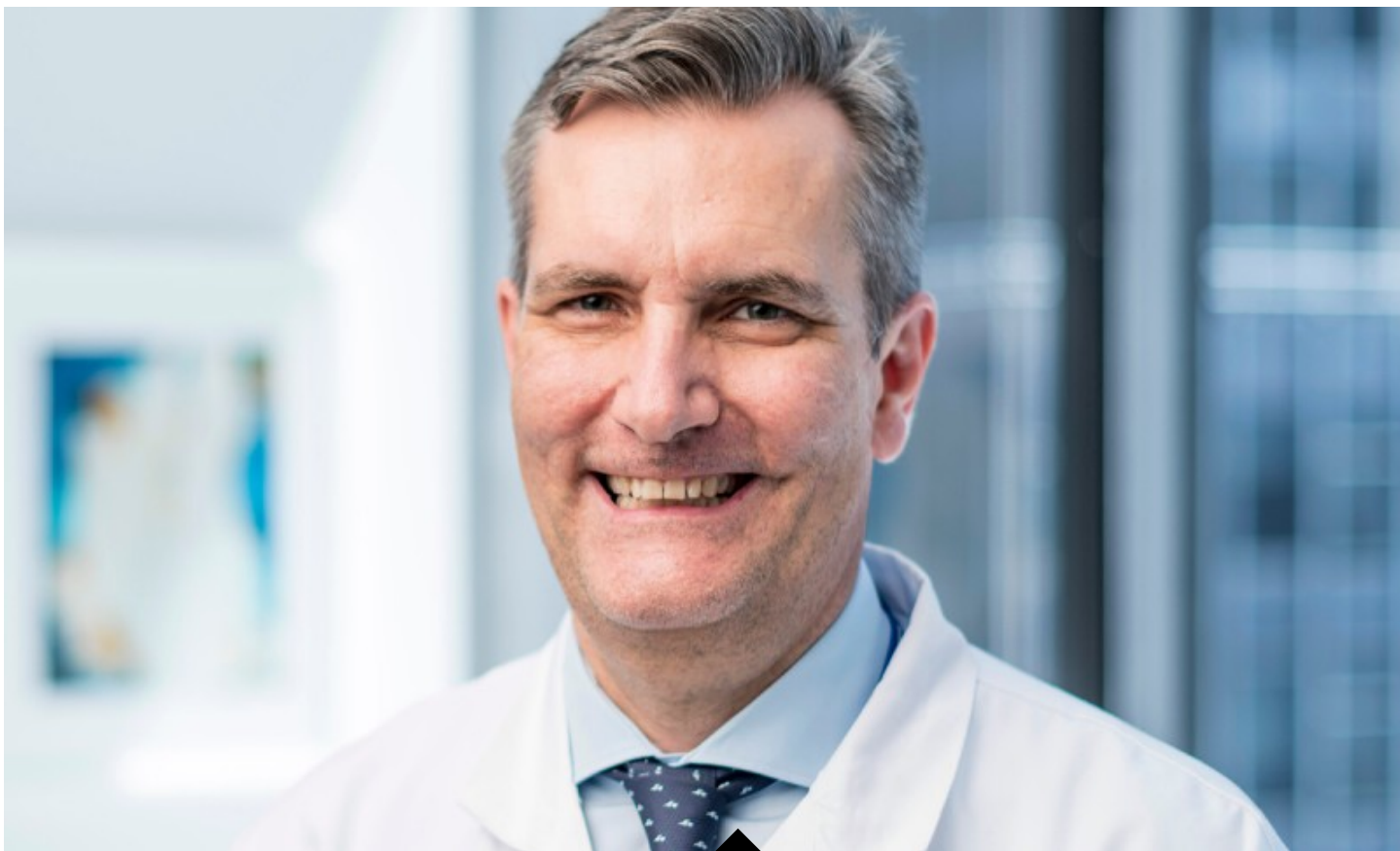
## Open Positions

Explore open postdoctoral positions and other career opportunities.

[Learn more](#)

## Featured News & Events

[View all news](#) →  
[View all events](#) →



### Experimental Drug for Low-Grade Glioma With IDH Gene Mutation Shows Promise

A new experimental drug could be an effective treatment for some people with low-grade glioma.

[Read more](#)

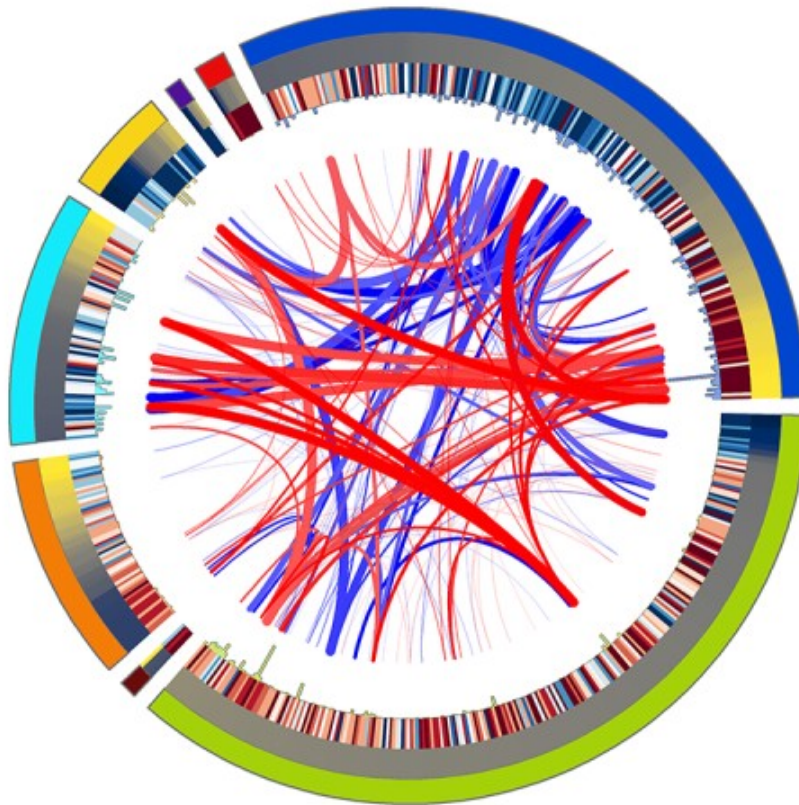






## [Investigational mRNA Vaccine Induced Persistent Immune Response in Phase 1 Trial of Patients With Pancreatic Cancer](#)

Learn how MSK researchers are deploying mRNA vaccines against pancreatic cancer.



## [New Research Shows How Cancer Rewires a Key Immune Pathway To Spread](#)

A collaboration between MSK and Weill Cornell Medicine discovered a new relationship between cancer cells and the immune system, and shows how cancer can selfishly hijack a normally helpful immune pathway.





#### IN THE LAB

#### [Potential Drug Shows Promise Targeting a Range of KRAS-Driven Cancers in the Lab](#)

MSK investigators report exciting results for a new molecule that can block 16 different mutated forms of the KRAS protein. In the lab, the compound was effective against many cancer cell lines and in mouse models of lung cancer and colorectal cancer.





---

### [Pinpoint Accuracy: How Dr. Elenitoba-Johnson Helps Lead the Diagnosis of Cancer at MSK](#)

Learn about Dr. Kojo Elenitoba-Johnson, who leads teams of Memorial Sloan Kettering experts in interpreting lab tests and diagnosing cancer as the inaugural Chair of the MSK Department of Pathology and Laboratory Medicine. He is also a member in the Human Oncology and Pathogenesis Program.



#### IN THE CLINIC

### [How a Combination Therapy Developed at MSK Benefits People With a Rare Gastrointestinal Cancer](#)

MSK researchers recently reported results of a phase 2 trial for GIST, a rare form of gastrointestinal cancer. The trial was based on years of lab work conducted by physician-scientist Ping Chi.





### [A Young Scientist Earns MSK Fellowship: Here's When He Had His 'Aha' Moment](#)

Chris Bourne is the first recipient of the MERIT Sawyers Fellowship.

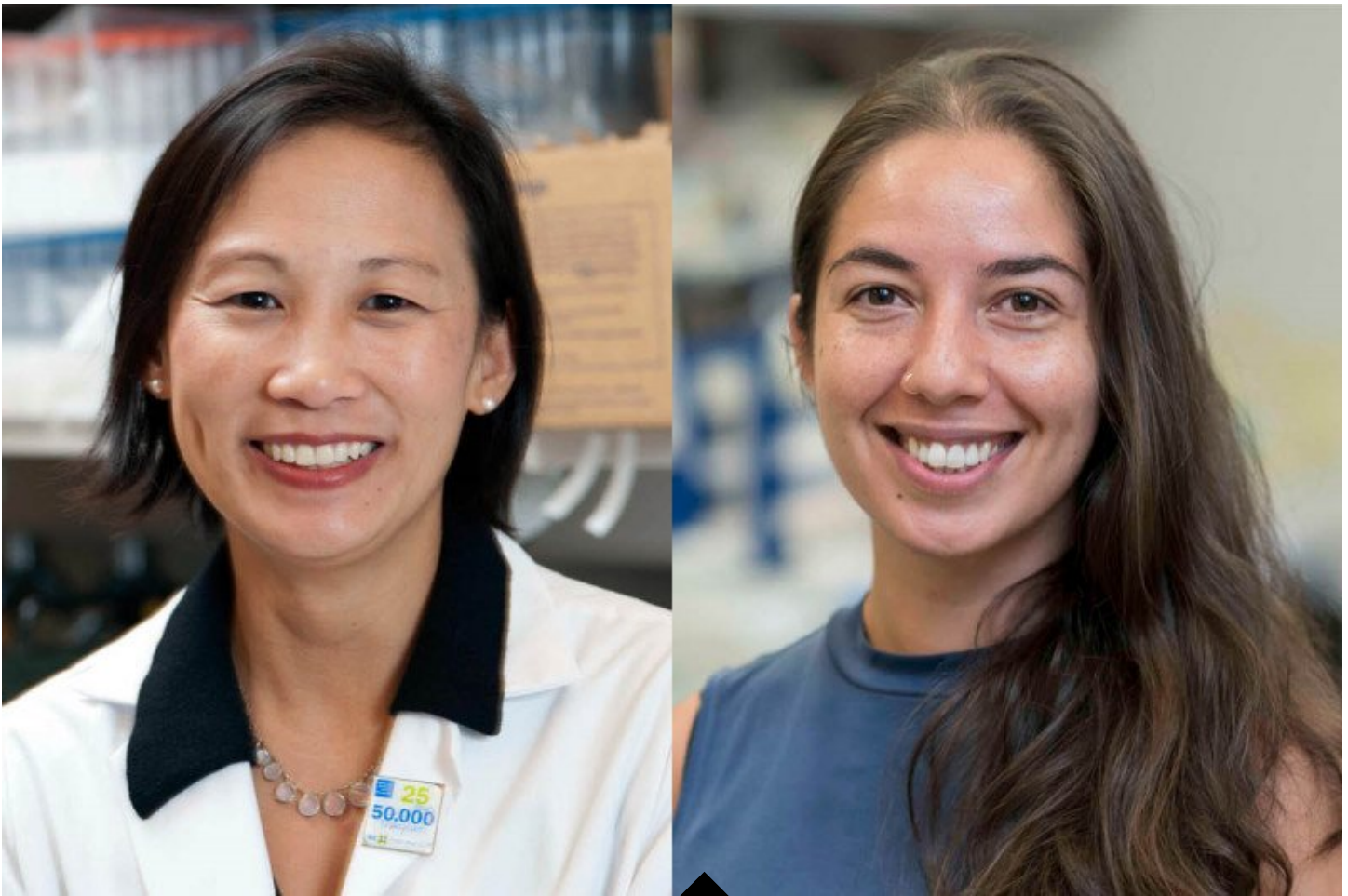


IN THE LAB

### [Researchers Uncover New Findings about KRAS, an Important Protein in Cancer](#)

Researchers have taken a closer look at what a protein called KRAS does in normal cells and how certain KRAS mutations lead to for cancer growth.





### [Unusual Immune Cell Type Could Be Good Target for Immunotherapy](#)

Part natural killer, part T cell, this hybrid immune cell has a “double sword” for fighting cancer.





ANNOUNCEMENT

[New Grant Awarded to MSK for Efforts in Acute Myeloid Leukemia Research](#)

The Specialized Programs of Research Excellence (SPORE) grant will fund efforts focusing on the development of new treatments.



[Investigational mRNA Vaccine Induced Persistent Immune Response in Phase 1 Trial of Patients With Pancreatic Cancer](#)

Learn how MSK researchers are deploying mRNA vaccines against pancreatic cancer.





FEATURE

[Open Source: MSK Researchers Share Valuable Cancer Data](#)

The cBioPortal for Cancer Genomics, developed by computational biologists at MSK more than a decade ago, provides valuable data on the genetic makeup of tumors for the broader cancer community.

NEXT  
[About Us](#)

Connect

[Contact us](#)

[Locations](#)

APPOINTMENTS

[800-525-2225](#)



About MSK



[About us](#)

[Careers](#) 

[Giving](#) 

## ▾ Cancer Care

[Adult cancer types](#)

[Child & teen cancer types](#)

[Integrative medicine](#)

[Nutrition & cancer](#)

[Find a doctor](#)

## ▾ Research & Education

[Sloan Kettering Institute](#)

[Gerstner Sloan Kettering Graduate School](#) 

[Graduate medical education](#)

[MSK Library](#) 

---

[Communication preferences](#)

[Cookie preferences](#)

[Legal disclaimer](#)

[Accessibility statement](#)

[Privacy policy](#)

[Price transparency](#)

[Public notices](#)

© 2024 Memorial Sloan Kettering Cancer Center