

Radiation Oncology Institute



The ROI is a non-profit foundation established by ASTRO to heighten the critical role of radiation oncology in the treatment of cancer through research.

ACCELERATING PRACTICE TRANSFORMATION

When you support the ROI, you are investing in research to help radiation oncology be a leader in the movement toward more patient-centered, quality health care. Together, we are fueling innovation that addresses the practical needs of radiation oncology in the changing health care landscape.



MAKING A DIFFERENCE FOR GROUND-BREAKING RESEARCHERS

You are helping investigators pursue new opportunities in research to improve outcomes for radiation therapy patients.

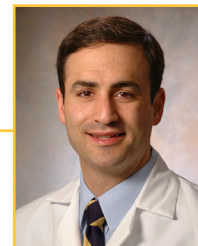


“Our ROI-funded study will allow for early interventions to mitigate and manage the effects of radiation to the heart and potentially improve long-term outcomes for cancer patients receiving cardiac irradiation by improving knowledge of safe dose constraints for cardiac substructures.”

– Carmen Bergom, MD, PhD
2019 Personalized Radiation Therapy Award Winner

Dr. Bergom and her team are conducting a pilot study to determine whether cardiac MRI can be used to detect early, non-symptomatic damage to the heart in lung cancer patients treated with radiation therapy.

You are facilitating innovative partnerships to provide radiation oncology clinics with beneficial resources for their patients.



“This grant allows us to continue a unique collaboration between physicians and design professionals helping patients better understand the radiotherapy experience.”

– Daniel W. Golden, MD, MHPE
2019 Personalized Radiation Therapy Award Winner

Dr. Golden and his team are building upon an existing alliance to create three new guides in the “Communicating the External Beam Radiotherapy Experience” (CEBRE) series that explains the treatment process in a graphic narrative format. The guides will be tailored for patients with breast, lung and prostate cancer and will be available online for free to all clinics.

DELIVERING SOLUTIONS TO ADVANCE PRACTICE

You are funding research to increase understanding and awareness of radiation therapy, personalize treatment and improve cancer patients' quality of life and outcomes.



Dr. David Byun



Dr. Karen Hoffman




Dr. Todd McNutt



Dr. Adam Wolfe

- ▶ **David Byun, MD**, and his team are exploring whether the application of virtual and augmented reality platforms during consultation visits could better increase patient knowledge about radiation therapy, reduce anxiety and improve the quality of their overall treatment experience.
- ▶ **Karen Hoffman, MD, MHSc, MPH**, and her team are investigating how counseling from a radiation oncologist in a multidisciplinary clinic increases prostate cancer patients' awareness of radiation therapy as a treatment option with a favorable side effect profile.
- ▶ **Todd McNutt, PhD**, and his team are using big data analytics and machine learning approaches to develop better predictive models and decision support tools for more personalized treatment planning and clinical interventions.
- ▶ **Adam Wolfe, MD, PhD**, and his team are using biological tumor markers, specifically microRNAs, to determine which patients with pancreatic cancer are most likely to benefit from radiation therapy.

ROI RESEARCH IS YIELDING A RETURN ON INVESTMENT


\$3 Million+
Invested in radiation oncology research



20
Teams of the best and brightest investigators



51
Scientific presentations and manuscripts



3,800+
Clinicians using the RadOnc Toolbox app



1 MILLION+
U.S. cancer patients treated with radiation therapy this year who could experience better outcomes



FORGING A PATH FOR THE FUTURE OF RADIATION ONCOLOGY

The ROI envisions a future when all cancer patients who could benefit from radiation therapy receive it, and every member of the profession is an integral part of the multidisciplinary team where they practice. Your investment in the ROI today will help drive practice transformation and ensure that radiation oncology is a leader in the cancer care of tomorrow.

Visit www.roinstitute.org to make your donation.