

# 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 and education.

## 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.

Accuracy  
Comparative Efficacy  
Evidence  
Value **Patient-centered** Toxicity Management  
Quality Safety Improved Outcomes  
Payment Safety Reform Policy

## MAKING A DIFFERENCE FOR GROUND-BREAKING RESEARCHERS

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



“The ROI’s quick turn-around time from application to funding allowed us to be one of the first groups to explore the use of fitness trackers during cancer treatment, which has so much potential for rapid growth.”

– Nitin Ohri, MD

*ROI Innovative Projects in Radiation Oncology Award Winner*

Dr. Ohri is studying how daily customized step count goals as measured and guided through fitness trackers could improve patients’ ability to tolerate concurrent chemoradiotherapy.

**You are filling gaps in traditional research funding and ensuring that practice-changing innovation is not held back.**



“The ROI award is great because a peer review recognized the value of what we are trying to do.”

– Todd McNutt, PhD

*Leveraging Big Data to Optimize Quality Assurance and Patient Care Improvement Initiatives Award Winner*

Dr. McNutt is 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.

## DELIVERING SOLUTIONS TO ADVANCE PRACTICE

You are funding research to enhance quality and safety, to demonstrate the value of radiation therapy and to improve patient outcomes.



Peter Greer,  
PhD



David Sher,  
MD, MPH



Malolan Rajagopalan,  
MD, MBA

- ▶ **Peter Greer, PhD** conducted the first clinical demonstration of a new system that determines treatment delivery accuracy in real-time using images captured by EPID which can prevent errors.
- ▶ **David Sher, MD, MPH** delved into comparative value by performing an analysis of the survival, toxicity and accrued costs of surgery versus radiotherapy and chemoradiotherapy for patients with oropharyngeal cancer.
- ▶ **Malolan Rajagopalan, MD, MBA** developed the RadOnc Toolbox app and website that compiles and categorizes evidence-based symptom management strategies for radiation toxicity as a new clinical resource to help improve patient outcomes.



## ROI RESEARCH IS YIELDING A RETURN ON INVESTMENT

You are sustaining research that is resulting in additional funding, presentations at international scientific meetings and publications in high-impact journals.

**ROI investigators have secured *more than \$1 million* in follow-on funding for research projects directly related to their ROI-funded work.**

Christopher Slatore, MD, MPH is co-investigator on an NCI-funded study that is patterned on the work he led as an ROI grantee to better understand the patient-centered outcomes of SBRT versus surgery for early stage NSCLC.



Christopher Slatore  
MD, MPH

## ROI DOLLARS ARE IN DEMAND

**ROI awarded grants to the top 7% of applicants in 2016.**

ROI's focus on funding research in areas of critical need for radiation oncology means we receive many innovative and unique proposals to address some of the most pressing questions in the field. We can fund only a small proportion of these proposals, so when you give to the ROI, you are helping to support more of these promising research ideas.

## FORGING A PATH FOR THE FUTURE OF RADIATION ONCOLOGY

The ROI envisions a future when all cancer patients who could benefit from radiation receive radiation and every member of the profession is an integral part of the multidisciplinary teams 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](http://www.roinstitute.org) to make your donation.