



2018 CALL FOR LATE-BREAKING ABSTRACTS



64th Annual Meeting
BRINGING SCIENCE TO THE CITY THAT WORKS
Historic Hilton Chicago

September 23-26, 2018



Bringing Science to The City That Works

Historic Hilton Chicago | September 23-26, 2018



The 64th Annual Meeting of the Radiation Research Society will be held at the Historic Hilton Chicago Hotel on September 23-26, 2018. The full day SIT Workshop will be held Saturday, September 22, 2018.

Members of the Program Committee have assembled an outstanding scientific program with exciting plenary speakers, stimulating 8AM topical review sessions, and two presidential symposiums that include speakers with research programs that use state-of-the-art techniques to make important advances in radiation research. Approximately 50% of the speakers for the oral sessions will come from top scoring abstracts. Therefore, I encourage you and your colleagues to submit an abstract of your most exciting science so that you can further enhance the quality of what promises to be an outstanding scientific program. Continuing this year will be the inclusion of CME credits for selected scientific sessions.

The hotel is fabulous, the program is world class, and Chicago is an easily accessible, fun destination. I look forward to seeing you at the upcoming annual meeting for an extraordinary meeting!

See you in Chicago,

David Kirsch, MD, PhD
Chair, RRS 2018 Program Committee

We are pleased to have the following plenary speakers in our 2018 program:



Tyler Jacks, PhD



Cristian Tomasetti, PhD



Sandra Demaria, MD



Harald Paganetti, PhD



Confirmed Speakers for the 2018 Annual Meeting

Plenary

Sandra Demaria, MD	Radiation and immunotherapy
Tyler Jacks, PhD	Modeling cancer in the mouse
Harald Paganetti, PhD	Biologically motivated treatment planning in proton therapy
Cristian Tomasetti, PhD	Cancer etiology and its mutational signatures

Presidential Symposium 1: Future radiobiology for advanced radiotherapies

Michael Baumann, MD	Determining and targeting radioresistance
Soren Bentzen, MSc, PhD, DMSc	Precision radiation medicine: spatio-temporal tailoring of radiotherapy to patients
Marco Durante, PhD	Future ion beam radiobiology
Dorthe Schaeue, MRes, PhD	Future radiobiology for leveraging the immune response

Presidential Symposium 2: p53 in radiation response and tumor suppression

Laura Attardi, PhD	Deconstructing p53 pathways in tumor suppression
Allan Balmain, PhD, FRS	Impact of environmental agents on mutation signatures in tumor genomes
Andrei Gudkov, PhD, DSci	Paradoxes and puzzles of DNA damage response in vivo
Michael Kastan, MD, PhD	p53 and DNA damage— has it really been over 25 years?

Topical Reviews

Amitava Adhikary, PhD	Exploring radiation chemistry of DNA damage using various model systems
Christopher Bakkenist, PhD	DNA damage signaling to immune checkpoints
Marjan Boerma, PhD	Recent clinical and experimental insight into radiation-induced heart disease
David Brenner, PhD	Radiation risks associated with contemporary medical imaging
Timothy Chan, MD, PhD	The evolving landscape of immunotherapy biomarkers
Polly Chang, PhD	Noncarcinogenic effects of space radiation
Joseph Deasy, PhD	Information-driven radiotherapy: integrating data with radiobiology to understand outcomes
James DeGregori, PhD	Radiation carcinogenesis through alterations in adaptive landscapes
Scott Floyd, MD, PhD	Chromatin dynamics: the landscape for response to DNA damage
Piero Fossati, PhD	The rationale, physics and radiobiology of carbon ion radiation therapy
Gianluca Lattanzi, PhD	Computational biophysics: tools and challenges in radiation biophysics
James Lederer, PhD	Radiation injuries to the immune system
Walter Tinganelli, PhD	Hibernation: Impact on radioprotection
Gayle Woloschak, PhD	Nanoparticles for cancer imaging and therapy
Claudia Wiese, PhD	Transitioning to scientific independence
David Yu, MD PhD	Transitioning to scientific independence
Elaine Zeman, PhD	Biology didactics for radiation oncology residents: past, present, and future

Symposium

Mohamed Abazeed, MD, PhD	Systematic characterization of the associations between the cancer genome and ionizing radiation
Rebecca Abergel, PhD	Targeted radionuclide therapy: the promise of alpha-emitters
Mohamad Al-Sheikhly, PhD	Exploiting oncometabolites for selective tumor radiosensitization
Ranjit Bindra, MD, PhD	The history of Michael Fry and the Radiation Research Society
Eleanor Blakely, PhD	Michael Fry and radiation epidemiology: of mice and men
John Boice, PhD	Niche—derived mitigation of acute radiation sickness
John Chute, MD	Associating DNA repair deficiency to radiation-induced cancer and genetic factors of mice/men
Sylvain Costes, PhD	Clinical outcomes of patients treated with proton radiation therapy
Thomas Delaney, MD	Analysis of circulating tumor DNA for detection of molecular residual disease after radiotherapy
Max Diehn, MD, PhD	Clinical outcomes following carbon ion radiotherapy
Piero Fossati	



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Don Fox, MD	Broken chromosome segregation during mitosis promotes radiation resistance
Thomas Helleday, PhD	Targeting DNA repair to improve radiotherapy
Audrey Hu	Can passive smoking explain the higher radiation-related excess relative risk of lung cancer for women compared to men among atomic bomb survivors?
Maria Jasin, PhD	Protecting the genome by homologous recombination
Tadashi Kamada, MD, PhD	Hypofractionation with particle (carbon ion) beam
Ana Ponce Kiess, MD, PhD	PSMA-targeted radiopharmaceutical therapy for prostate cancer
Alec Kimmelman, MD, PhD	Identifying metabolic dependencies in pancreatic cancer
Ann Klopp, MD, PhD	Impact of intestinal and cervical microbiome on radiation response in cervical cancer
Marianne Koritzinsky, PhD	ROS metabolism in the ER as a novel cancer target
Constantinos Koumenis, PhD	Targeting the UPR and ISR to improve response to radiotherapy
Amy Kronenberg, PhD	Mentorship, basic science and radiation protection: lessons from the Drs. Fry
Quynh-Thu Le, PhD	Tackling salivary stem cells to improve function after radiotherapy
Isabelle Lombaert, PhD	Radiation effects on salivary gland epithelial stem/progenitors
Amit Maity, PhD	Immunoradiotherapy trials and the University of Pennsylvania
David Mankoff, MD, PhD	Cancer imaging biomarkers to guide targeted cancer therapy
Peter Maxim, PhD, MSc	FLASH radiation therapy—path to increase the therapeutic ratio?
Andy Minn, MD, PhD	Molecular determinants of response and resistance to radiation and immune checkpoint blockade
Meredith Morgan, PhD	The combination of DNA damage response inhibitors with radiation
Kent Mouw, MD, PhD	Genomic analysis of tumor response to DNA damaging therapies
Mark Oldham, PhD	Dosimetry for advanced small animal radiation therapy: what's achievable?
Christie Orschell, PhD	Mitigation of the hematopoietic acute radiation syndrome using murine models
Tej Pandita, PhD	Post-translational chromatin modifications: the therapeutic potential
Katia Parodi, PhD	Small animal image-guided proton irradiation: the SIRMIO project
Brian Pogue, PhD, MSc	Cherenkov and scintillation imaging in radiotherapy for quantitative dosimetry, molecular sensing
Brendan Price, PhD	Reorganizing chromatin during DSB repair
Sylwia Ptasińska, PhD, MSc	Plasma radiation-induced chemistry in molecular systems
José Ramos-Méndez, PhD	TOPAS-nBio: a platform to facilitate Monte Carlo track-structure simulations
Elizabeth Repasky, PhD	Adrenergic stress and the SNS regulate anti-tumor immunity and the sensitivity of tumors to ionizing radiation
Barry Rosenstein, MD, PhD	Radiogenomics: Identification of genomic biomarkers predictive of outcomes following exposure to radiation
Kristopher Sarosiek, PhD	Radiation-induced apoptosis in healthy tissues and cancers
Julie Schwarz, MD, PhD	Clinical and preclinical evidence supporting metabolic therapy in cervical cancer
Navita Somaiah, MSc, MD	Optimising radiotherapy fractionation - from clinical trials to molecular mechanisms
Eugene Surdutovich, PhD	Ion-induced shock waves—a phase between physics and chemistry in the scenario of radiation damage
Cullen Taniguchi, MD, PhD	Normal tissue radioprotectors to enable ablative radiation in the abdomen
Javier Torres-Roca, MD	A framework for genomic precision radiation therapy
Phuoc Tran, MD, PhD	Radiation biology studies with a small animal irradiator
Robert Ullrich, PhD	Molecular carcinogenesis studies with mouse models
Marie Catherine Vozenin, PhD	FLASH-Radiation Therapy (ultra-high dose rate) protects normal tissue without compromising tumor control: mechanisms and clinical perspectives
Andrew Wang, PhD	Circulating tumor cells as a biomarker for radiation treatment response and tumor surveillance
Mike Weil, PhD	Approaches to understanding space radiation cancer risks
James W. Welsh, MD	Clinical outcomes of immunotherapy plus XRT for NSCLC and SCLC
Ding Xue, PhD	Mechanisms of radiation-induced bystander effects in <i>C. elegans</i>
Kristina Young, MD, PhD	Translational radiation and immunotherapy clinical trials
Jian Yu, PhD	Protection against radiation-induced intestinal injury, a matter of p53
Daohong Zhou, PhD	Senescent cells are new targets for cancer and radiation-induced late effects



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RRS 2018 Call for Scientific Abstracts

ABSTRACT SUBMISSION

All abstracts must be submitted online using the Oasis submission site. Directions will be sent via email or visit the RRS home page (www.radres.org) for details. To avoid delays, prepare your abstract offline and save it as a text, Word, or WordPerfect (.txt, .doc, or .wpd) file before starting. The abstract size is limited to 2,000 characters (not including spaces). Be sure your abstract is accurate before you complete the submission and retain the control number you receive upon completion.

- Reminders:
 - Your membership must be up to date for 2018
 - Only one poster will be allowed to be presented per poster category
 - The presenting author must be registered for the meeting by July 20, 2018

REGISTRATION & HOTEL

The RRS 2018 Annual Meeting will be held at the Historic Hilton Chicago in Chicago, Illinois. All presenters at the RRS 2018 meeting are expected to register for the meeting. Meeting registration and hotel reservations will be accepted online starting in early-March. All hotel reservations must be made through the RadRes meeting registration site: www.radres.org/Chicago2018. Do not call the hotel directly.

ABSTRACT CONTENT AND FORMAT

All presentations must be scientific in nature and without inclusion of commercial messages or inappropriate references to specific products, services, or commercial concerns. The title should be in lowercase letters with only the first word capitalized unless it is normally capitalized.

EXAMPLE: Temperature dependence of ionizing radiation effect on dry preparations of bacterial DNA. The body of the abstract should be single-spaced. Tables, graphs, and structural formulae may not be included, although simple mathematical formulae are acceptable.

PRESENTATION

Poster dimensions are limited to 48" (width) x 48" (height) (1.21m x 1.21m or 4' x 4'). Each poster should include a heading with title and author (s) using lettering at least 22mm (1") high. The abstract should be part of the poster presentation. The legible print should be viewable from 1 meter away. Therefore, lettering should be heavy and at least 10mm (3/8") high.

PROGRAM AND ABSTRACTS

The Program Book will be distributed on-site to meeting registrants and an Abstract PDF will be emailed to registered attendees approximately 2-weeks prior to the meeting. In addition, content will be available via the meeting website and mobile app for the 2018 conference.

Important Dates

May 24, 2018

Late-Breaking Submission
Site Opens (*Scientific*)

June 25, 2018

Late-Breaking Submission
Site Closes

July 20, 2018

Deadline for Poster Presenters
to Register for Meeting



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Continuing Education Credits

ACCREDITATION STATEMENT AND INFORMATION

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Medical Education (ACCME) through the joint relationship of the AMEDCO and the Radiation Research Society (RRS). AMEDCO is accredited by the ACCME to provide continuing medical education for physicians.

Faculty Disclosure:

In accordance with the ACCME guidelines, RRS requires all faculty speakers to disclose all commercial relationships relative to the content of this CME activity. Individual faculty disclosure will be provided in the course syllabus for the General Session. All presentations will be peer reviewed for fair balance and evidence based medicine.

CEU FOR SIT MEMBERS

If you are a SIT Member attending the SIT Workshop and/or the RRS Annual Meeting, we are once again happy to report that the American Academy of Health Physics (AAHP) will be assigning continuing education credits for both activities. The specific amount of credits and the ID numbers will be available in the coming months. If this is something that would be beneficial to you and you would like additional information, please contact Audrey Rinehart, audrey@radres.org.

