



2019 CALL FOR ABSTRACTS



65th Annual International Meeting
Westin Gaslamp

November 3-6, 2019

65th Annual Meeting
**Radiation
Research
Society**

November 3-6, 2019 | San Diego, CA



The 65th Annual Meeting of the Radiation Research Society will be held at the Westin Gaslamp Hotel in San Diego, CA on November 3-6, 2019. The full day SIT Workshop will be held Saturday, November 2, 2019.

Members of the Program Committee have assembled an outstanding scientific program highlighting the state-of-the-art in radiation sciences. Continuing this year will be the inclusion of CME credits for selected scientific sessions and coordinating efforts with a local charity as part of the RRS Gives Back campaign.

The hotel is fabulous, the program is world class and San Diego is an easily accessible, international destination; please refer to the travel tips included in the brochure for more information. We hope you bring your family along to explore this amazing destination!

Don't forget to share your excitement and connect with other attendees using #RadRes2019 on all social media channels!

See you in San Diego,

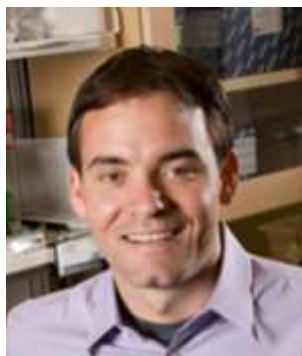
Susan Bailey, PhD

Chair, RRS 2019 Program Committee

We are pleased to have the following plenary speakers in our 2019 program:



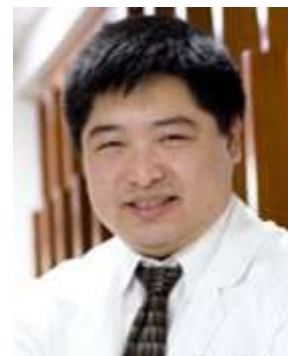
**William Kaelin Jr.,
MD**



Charles Gersbach, PhD



Kjell Lingren, MD



**Timothy Chan, MD,
PhD**



Joann Sweasy, PhD

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Confirmed Speakers for the 2019 Annual Meeting

Plenary

Timothy Chan, MD, PhD
Charles Gersbach, PhD
William (Bill) Kaelin, MD
Joann Sweasy, PhD

Immunotherapy
Genome Editing

Presidential Symposium: Gender and the genome

Marjan Boerma, PhD
Isabelle Jackson, PhD
Karen Krukowski, PhD

IR and the heart
IR and the lungs
IR and the brain

Topical Reviews

Eleanor Blakely, PhD
Kristin Fabre, PhD, MS
Lawrence Heilbronn, PhD, MS
Randall Hyer, MD, PhD
Xun Jia, PhD
Ann Klopp, MD
Philippe Lambin
Carmel Mothersill, PhD
Tannishtha Reya, PhD
Jeremy Stark, PhD
Chang W. Song, PhD
Marie Catherine Vozenin, PhD
Lydia Zablotska, PhD

Hadron therapy
TRISH/Radiation countermeasures program - space
Neutrons
Radiation risk communication to the public
Artificial intelligence and radiation therapy
Radiation therapy and the microbiome
Radiation therapy and the immune system
Environmental radiobiology
Stem cell and cancer stem cells
DNA repair pathway choice
SBRT biology - tumor microenvironment?
FLASH radiation - how it works
Radiation risks of occupational exposures: new findings and how they fit with risk projections from high dose rate studies
ATM/ATR/DNA-PKcs overview
Radiation chemistry: the basics

Shan Zha, MD, PhD
John Zimbrick, PhD

Symposium

Rebecca Abergel, PhD
Samuel Bakhoun, MD, PhD
Chris Bakkenist, PhD
Ilko Bald, PhD
John Boice, PhD
Richard Britten, PhD
Steven Brown, PhD
Anthony Chalmers, PhD
Bruce Conklin, MD
Marka Crittenden, MD, PhD
Lawrence Dauer, PhD
Max Diehn, MD, PhD
Marco Durante, PhD
Dudley Goodhead, PhD
Marc Greenberg, PhD
Nadia Haddy, PhD
Thomas Helleday, PhD
Eric Henderickson, PhD
George Iliakis, PhD, MS

DNA damage signaling and immune response
DNA origami and nanoparticles/DNA strand breaks; low energy electrons
Is this all there is
Single dose RT and SBRT: imaging the dose response
Opportunities and challenges of combining SBRT and immunotherapy
Leukemia arises - or does it?
Genetic predictors of radioresistance (KEAP1 and others)
On the physical track to clustered damage, complex DSB and more
Base specific radical cation and reactions
Stem cells and extracellular vesicles in normal tissue recovery

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Naduparambil Jacob, PhD
Jan Karlseder, PhD
Randall Kimple, MD, PhD
Ralf Kittler, PhD
Marianne Koritzinsky, PhD
Vidya Kumar, PhD
Evagelia Laiakis, PhD
Susan LaRue, DVM, PhD
Chang-Lung Lee, PhD
Stephen Lin, MD, PhD
Kjell Lindgren, MD
Billy Loo, MD, PhD
Siobhan MacArdle
James Mitchell, PhD
Everett Moding, MD, PhD
Pierre Montay-Gruel, PhD
Mehran Mostafavi, PhD
Jean Nakamura, MD
Michael Nolan, DVM, PhD
Rebecca Overly-Deegan, PhD
Mark Oldham, PhD
Peter O'Neill, PhD

Vincenzo Patera, PhD
Dale Preston, PhD
Nadeem Riaz, MD, MSc
Susanna Rosi, PhD

Katherina Schlacher, PhD
Julie Schwarz, MD, PhD
Marco Schwarz, PhD
Emanuele Scifoni, PhD
Michael Sevilla, PhD
Patrick Sung, DPhil
Karla Thrall, PhD
Jenny Ting, PhD
Susan Wallace, PhD, MS
Jing Wang, PhD
Andrew Wang, MD
John Ward, PhD
Jamey Weichert, PhD
Mike Weil, PhD
Jeff Willey, PhD, MS
Craig Yoder, PhD
Cray Zeitlin, PhD

mRNA based radiation dosimetry

BBT-059 - mitigator of acute and delayed effects of radiation
Metabolomics - radiation signature based dosimetry
Theronostics

Radiation therapy and lymphopenia

Protentiation of hypoxic tumors

Radiosensitizers

Tracking the fate of clustered DNA damage and complex DSB in biological systems - a danger in hiding

DNA repair predictors of radiosensitivity
Rescue of cognitive function following fractionated brain irradiation in a novel preclinical glioma model

Damage transfer in DNA; LET effects on DNA damage

Comparative outcome of TBI in rhesus macaque under different med management

Complex DNA lesions: to repair or not repair, that is the question

Mechanisms of clustered damage production

Sex, lungs and Mars

The key to harmony is exceptional dosimetry

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RRS 2019 Call for Scientific Abstracts

ABSTRACT SUBMISSION

Approximately 50% of oral session speaking slots will be selected from top scoring abstracts. 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.

NOTES REGARDING SUBMISSION PROCESS:

- You are able to submit your abstract without the added step of obtaining an RRS Member to act as your sponsor
- During the process, you will be asked if you are submitting to “**Poster Session Only**” or if you would like to be considered for an “**Oral Presentation**” spot. You will have the opportunity to select the category that is most relevant to your work
- Reminders:
Your membership must be up to date for 2019
Only one poster will be allowed to be presented per poster category
The presenting author must be registered for the meeting by August 29, 2019

REGISTRATION & HOTEL

The RRS 2019 Annual Meeting will be held at the Westin Gaslamp in San Diego, California. All presenters at the RRS 2019 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; do not call the hotel directly. More information will be forthcoming and available through the RRS website: www.radres.org/SanDiego2019.

Important Dates

March 4, 2019

Registration Opens

April 24, 2019

Submission Site Opens
(*Scientific, SIT, ECI*)

June 6, 2019

Submission Site Closes
(*Scientific, SIT, ECI*)

June 28, 2019

Travel Award Notification

August 29, 2019

Deadline for Poster Presenters
to Register for Meeting



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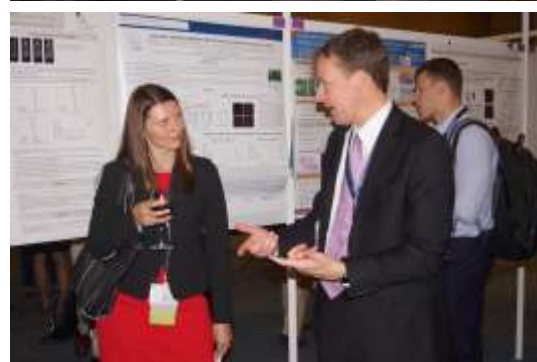
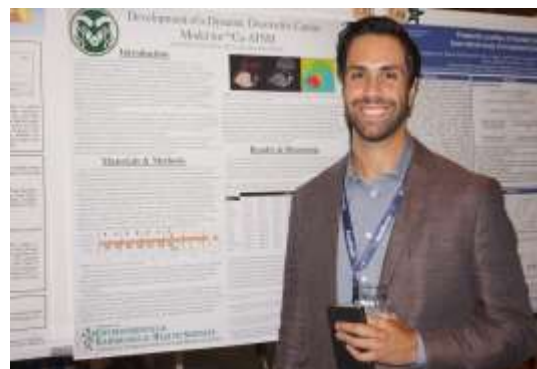
ORAL SUBMISSION CATEGORIES

Top scoring abstracts will be selected for the following planned oral sessions within topics ranging from mechanisms and modulators of cell, normal tissue and tumor effects of radiation, radiation physics and chemistry to clinical trials of radiation therapy:

Applied physics in translational radiobiology and medicine
Biodosimetry for assessing radiation injury
Canine translational radiation research (V Foundation Co-Sponsor)
Clinical trials of radiosensitizers
CNS effects of radiation
DNA repair pathway choices
FLASH and other high intensity radiation therapies
From DNA damage to innate immunity
Genome editing (ASTRO Co-Sponsor)
Genomics of tumor response to radiation therapy
Harnessing DNA repair for cancer treatment
HPV associated cancers and radiation response
Hypoxia and redox
Imaging and circulating biomarkers of radiation response
Medical countermeasures against radiation
Normal tissue injury from radiation
Pre-clinical mechanisms of immunotherapy and RT
Radiation chemistry of DNA
Radiation cytogenetics and cytogenomics
Radiation dosimetry: in patients and phantoms
Radiation protectors and sensitizers
Radiation-induced cancers
Radiomics and artificial intelligence in radiation therapy
Radionuclides for imaging, therapy, and dosimetry
Track structure and fast chemistry
Tumor microenvironment: SBRT tumor control

****Poster Size for 2019****

4' (width) x 4' (height)
(48" x 48" / 1.21m x 1.21m)



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 2019 conference.



Scholars-in-Training (SIT)

SIT TRAVEL AWARD APPLICATION

Applications for the SIT Travel Awards shall be completed online at the time the abstract is submitted. Both the applicant's faculty sponsor and the institution's department chair must make an affirmation when applying online. To avoid any delays in submission, prepare a brief resume (2-page limit) offline and save it as a text, Word, or WordPerfect (.txt, .doc, or .wpd) file before starting your online application. The resume should describe your:

1. Educational background (include degree & dates– MM/YY)
2. Honors and relevant experience
3. Description of current training program and objectives, including a description of how the program relates to the radiation sciences
4. List of relevant publications

SIT TRAVEL AWARD CRITERIA

RRS shall provide travel awards of up to \$800 (depending on the availability of funds), which is inclusive and designed to offset travel and registration fees, and additional amounts for Merit Awards to encourage the participation of SITs at the meeting and to recognize the quality of their scientific submissions. Your travel award will be available to you onsite at the annual meeting during the designated pick-up hours (posted at the meeting). Selection of SIT Travel Award recipients shall be based upon an evaluation of their abstracts and travel award application. The criteria for consideration are:

1. A person may apply for a SIT Travel Award, regardless of current degree, as long as he/she is working toward a higher degree (e.g. PhD, MD, and DVM) or is in a post-graduate training program (post-doctoral, research associate etc.)
2. The online application must be completed and affirmed by both the faculty sponsor and the institution's department chair.
3. The applicant must submit an abstract via online submission by the June 6, 2019 deadline.
4. Each applicant must be an RRS member or have a membership application pending.
5. The SIT applicant may be awarded travel support for only 3 (calendar) years and no more.

SIT WORKSHOP

The RRS is pleased to announce, for the tenth year, a special one-day education workshop for Scholars-in-Training (SIT) members will be held on Saturday, November 2, 2019, which is one day prior to the start of the RRS Meeting. The aim of the radiobiology education workshop is to provide young scientists, post-doctoral fellows, and graduate students with a fundamental knowledge of radiobiological principles and an in-depth understanding of current issues in the field of translational research.

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(*Scientific, SIT, ECI*)

June 6, 2019

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Early Career Investigator (ECI)

ECI TRAVEL AWARD APPLICATION

The RRS-ECI Committee will be offering travel awards to top scoring abstracts. You must be a Full or Sponsored Faculty Member of RRS, in good standing, to apply for an award. If you are not currently a Full or Sponsored Faculty member of RRS, please contact audrey@radres.org for assistance or join online at radres.org. To avoid any delays in submission, you must be a Full or Sponsored Faculty Member of RRS (not SIT or Associate), prepare a brief resume (2 page limit) offline and save it as a Word or Word Perfect (.txt, .doc, or .wpd) file before starting your online application. You should be prepared to address the following questions:

- Year you obtained your highest degree.
- Do you have an independent lab?
- When you started your own lab/group (independent of post-doc mentor).
- Identify independent funding intramural and extramural.
- Do you have staff that report to you? If so how many members in your group?
- Briefly, include your main areas of research.
- Please provide name and contact information for reference.

ECI TRAVEL AWARD CRITERIA

RRS shall provide travel awards of up to \$800 (depending on availability of funds), which is inclusive and designed to offset travel and registration fees. Your travel award will be available to you onsite at the annual meeting during designated pick-up hours (posted at the meeting). ECIs are also granted the opportunity, if selected, to speak or chair at the annual meeting.

Selection of ECI Travel Award recipients shall be based on an evaluation of their funding needs as identified in your application and quality of your abstract. The criteria for consideration are:

- Applicant must be a full RRS Member in good standing or have membership pending.
- ECI application must be completed and approved by the ECI Committee Leader.
- The ECI applicant must submit an abstract via online submission by June 6, 2019.

Further educational and career events are available to ECIs throughout the meeting.

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Submission Site Opens
(*Scientific, SIT, ECI*)

June 6, 2019

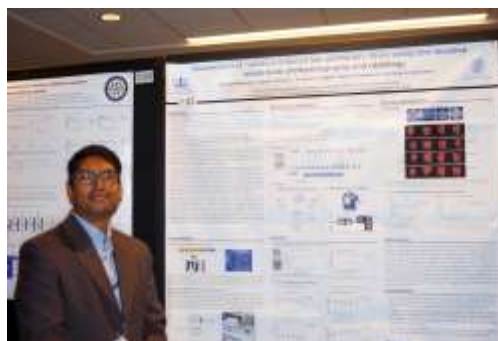
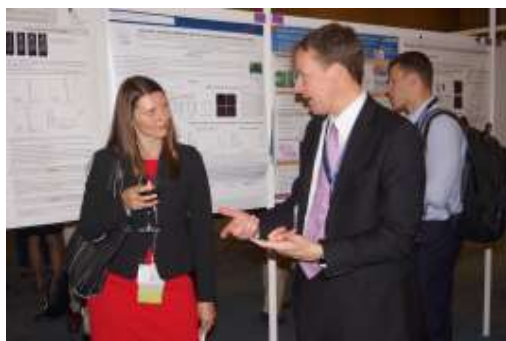
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Continuing Education Credits

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 AMECDO 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.

