



67th Annual International Meeting *Connected by Science*

*Presented Live, Virtually
October 3-6, 2021*

Saturday, October 2nd, 2021 | Program

All Times Presented in Eastern Time

11:00 am	Setting the Stage <i>Begin getting familiar with the RRS 2021 Virtual Meeting Platform</i>	
12:00 pm	This is your SIT-C (<i>SIT Committee</i>)	SIT Workshop <i>(RSVP Required)</i>
1:00 pm	Coding Tutorial <i>Alejandro Bertolet, PhD</i>	
1:00 pm	Immunology Primer <i>Claire Vanpouille-Box, PhD</i>	
2:00 pm	Networking Break	
2:00 pm	Critical Mass: Moving from Gender Equity to Racial Equity within Medical Physics <i>Julianne M. Pollard-Larkin, PhD</i>	
2:00 pm	Machine Learning Primer <i>Joseph Deasy, PhD</i>	
3:00 pm	Navigating the Funding Landscape <i>Chang-Lung Lee, PhD, Janice Zawaski, PhD, Lanyan Taliaferro, PhD, Simon Bouffler, PhD</i>	
4:00 pm	SIT Mentor Session <i>(RSVP Required)</i>	
5:00 pm	ECl and SIT Social <i>(RSVP Required)</i>	
6:00 pm	ECl and SIT Social <i>(RSVP Required)</i>	



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Sunday, October 3rd, 2021 | Program

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CME Available

9:00 am	Welcoming and Opening Remarks <i>President G. Don Jones, PhD, MSc, Sally A. Amundson, ScD</i>				
10:00 am	Symposium 01 Radiation and senescence	Symposium 02 Radiation countermeasures: Shifting paradigms and new targets for treatment intervention	Symposium 04 Radiation-induced damage	Symposium 05 Low Dose RT for COVID and other inflammatory diseases	Symposium 21 Radiation and circulatory effects
11:00 am	Plenary 01 - 3rd John B. Little, MD Legacy Plenary Lecture: Radiation and cellular senescence: Cancer, aging or both? <i>Judith Campisi, PhD</i>				
12:00 pm	Special Lunchtime Session The TOPAS-nBio toolkit for modelling cellular and sub-cellular radiobiology: key aspects to consider for modeling ultra-high dose rate scenarios with Monte Carlo track-structure <i>José Ramos Mendez, PhD</i>				
1:00 pm	Lunch Break, Exhibitor Appointments & Virtual Poster Strolls <i>Poster Session 1 - Mitigators I, CNS, Genomics, DNA Damage Response</i> <i>Poster Session 2 - DNA Damage, Mitigators II, Cell Death, Senescence</i>				
2:00 pm	Symposium 06 Radiation induced cell death	Symposium 07 Radiogenomics in radiation therapy	Symposium 08 Radiation and CNS effects	Symposium 09 DNA damage response	Symposium 10 100 years of radiation dose (History Committee)
3:00 pm	Networking Break: 2021 Telly Award Winner - Dr. John (Jack) Little: Memorial to a Gentle Giant in the Radiation Field				
4:00 pm	Failla Memorial Award Lecture: DNA damage response pathways and cancer therapy <i>Junjie Chen, PhD</i>				



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Monday, October 4th, 2021 | Program

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CME Available

9:00 am	TR 01: Personal on line dosimetry using computational methods: PODIUM	TR 02: Radiotherapy for non-cancer disease (cardiac)	TR 03: Low dose radiobiology; mechanisms and implication	TR 04: Complementary lessons learned from the testing strategies used for radiation emergencies and COVID-19	TR 07: Determinants of individual radiosensitivity
9:45 am	Networking Break: Join us for "Advancing Radiation Research with SARRP-FLASH" Mohammad Rezaee, PhD, & John W. Wong, PhD Sponsored by				
10:00 am	Plenary 02: The uncertain future of nuclear energy in the United States Matthew Bowen, PhD				
11:00 am	Symposium 11 Below background radiobiology	Symposium 12 Biomarkers of dose and effect	Symposium 13 The epidemiology of lung cancer following radiation exposure	Symposium 15 FLASH Mechanisms	Symposium 23 Radiation and anti-tumor immunity
12:00 pm					
1:00 pm	Lunch Break, Exhibitor Appointments & Virtual Poster Strolls Poster Session 3 - Biodosimetry I, Normal Tissue Tox I, FLASH Mech, Physical Dosimetry Poster Session 4 - Biodosimetry II, Normal Tissue Tox II, Dosimetry in Epi, Particle RT				
2:00 pm	Symposium 17 Applications of UV for disease control	Symposium 18 Dosimetric methods in epidemiology	Symposium 19 Novel approaches to normal tissue toxicity in radiation oncology	Symposium 20 FLASH preclinical studies	Symposium 22 Sex effects in radiation biology and medicine
3:00 pm	Networking Break: Enjoy a Video Presentation of Past Meeting Highlights				
4:00 pm	Marie Curie Award Lecture: Hypoxia does not impact FLASH anti-tumor efficacy in murine GBM xenografts Ron Leavitt, PhD				
	Michael Fry Award Lecture: Don't lose heart: Advances in pre-clinical studies of radiation-induced heart dysfunction Carmen Bergom, MD, PhD				
5:00 pm		Special Sunset Session: How do we as leaders foster and promote a culture of diversity, equity, and inclusion? Brought to you by: RRS READI Taskforce & Washington University in St. Louis Charles R. Thomas, Jr., MD, Susanna Rosi, PhD, Reshma Jagasi, MD, DPhil			
6:00 pm					




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Tuesday, October 5th, 2021 | Program

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CME Available

8:00 am	Symposium 03 Radiation disasters: long term effects	Symposium 14 Heavy ion radiotherapy	Symposium 29 Age effects on radiation response	Symposium 16 Metabolism and DNA repair	Symposium 25 Radiation dosimetry and implications for space exploration
9:00 am					
10:00 am	Plenary 03: Radiation and the future of space exploration <i>Serena Auñón-Chancellor, MD</i>				
10:45 am	Networking Break: Join us for "Moving from Cs gamma to x-rays: the Dartmouth research experience" <i>P. Jack Hoopes, DVM, PhD</i> Sponsored by 				
11:00 am	Lunch Break, Exhibitor Appointments & Virtual Poster Strolls Poster Session 5 - FLASH: preclinical and clinical, LD Radiobiology, CVD Effects, Radio-protectors & Sensitizers I Poster Session 6 - Radio-protectors & Sensitizers II, Dosimetry and Space, Sex Effects, Biology, Medicine, Epidemiology				
12:00 pm	TR 05: The FLASH effect and proposed mechanisms for a differential tissue response: an overview	TR 06: Epigenetic modifications induced by low-dose radiation exposure	TR 08: Methods, challenges and uncertainties for a radiation dose reconstruction and cancer risk projection from Trinity, the world's first nuclear explosion	TR 09: Applications of Geant4-DNA to radiation biology	TR 10: Effects of treatment delays due to COVID-19
1:00 pm	Business Meeting & Membership Forum (<i>Members Only, RSVP Required</i>)				
	New Members Meet & Greet				



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Wednesday, October 6th, 2021 | Program All Times Presented in Eastern Time ☐ CME Available

9:00 am	TR 11: Advancing radiological and chemical adverse outcome pathways through global coordination	TR 12: Gut-brain axis and radiation	TR 13: Proton therapy - status and new directions	TR 14: CRISPR and other genetic perturbation screens in the radiological sciences: a topical review	TR 15: SIT-REDI Topic Encouraging and retaining the next generation for a more diverse radiation research community- the CienciaPR experience
Networking Break: RRS Legacy Video Presentation - Herman D. Suit, MD, DPhil					
10:00 am	Plenary 04 – 2nd Herman D. Suit, MD, DPhil Plenary Lecture: From irradiation at ultrahigh dose rate to FLASH Radiotherapy: new radiobiology to support clinical translation Marie-Catherine Vozenin, PhD, HDR				
11:00 am	Symposium 24 Novel radioprotectors and radiosensitizers	Symposium 26 Space radiobiology	Symposium 27 Veterinary FLASH and radiation oncology research	Symposium 28 Non-coding RNA	Symposium 30 SIT Hot Topic Symposium Machine intelligence for radiation science
12:00 pm					
1:00 pm	Lunch, Exhibitor Appointments & Virtual Poster Strolls Poster Session 7 - Space Radiobiology I, Immune Response I, Age Effects, Machine Learning Poster Session 8 - Space Radiobiology II, Immune Response II, Non-coding RNA, Physics, Chemistry, Late-Breaking				
2:00 pm	J.W. Osborne Award Lecture: The impact of radiation on cognitive performance: from biological sex to countermeasures Susanna Rosi, PhD				
3:00 pm	President's Symposium: Excellence and Innovation in Radiation Research Marc Greenberg, PhD, Neil Kad, PhD, Charles L. Limoli, PhD, Rebecca Abergel, PhD				
4:00 pm					
5:00 pm	Final Closing Sponsored by Precision X-Ray Irradiation				

