**Agenda**

**Day 1: August 10, 2020**

**WebEx (Note: All times are in U.S. Eastern)**

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| **9:15 – 9:40 AM** | ***Virtual Arrival*** |
| 9:40 - 9:509:50 - 10:00 | Logistics, Background, and Charge for the Meeting: Pataje G Prasanna, NCI Welcome and Introduction of the Keynote Speaker: C. Norman Coleman, NCI |
| 10:00 – 10:35 | **Keynote** Dynamic interplay between senescence and cancer; Ned Sharpless, *Director, NCI* |
| ***Session I: Hallmarks of Cellular Senescence and Cancer****Moderators: Jeffrey Hildesheim, NCI, and Jan van Deursen, Rochester, MN* |
| 10:40 - 10:55 | Senescent cells as both drivers and suppressors of radiation-induced cancers; *Judith Campisi, Buck Institute, Novato, CA* |
| 10:55 - 11:10 | Animals models to study the role of senescence cells in diseases and cancer; Jan van Deursen*, Rochester, MN* |
| 11:10 – 11:25 | Radiation, senescence, and diseases: Stephen Brown; *Henry Ford Health Systems, Detroit, MI* |
| 11:25 – 11:40 | Senolytic and senomorphic therapy; Laura Niedernhofer, *University of Minnesota, Minneapolis, MN* |
| **11:40- 12:00 PM** | ***Panel discussion*** |
| ***Session II: Molecular Mechanisms of Senescence****Moderators: Mansoor M Ahmed, NCI, and Jorg Goronzy, Stanford* |
| 12:00- 12:15 | Intercellular communication in senescence and aging; Ana O’Loghlen, *Queen Mary University, London, UK* |
| 12:15-12:30 | DNA damage response regulating senescence and immune response; Alexandros Georgakilas,*National Technical University of Athens, Greece* |
| 12:30 – 12:45 | Immunosenescence; Jorg Goronzy, *Stanford University, CA* |
| 12:45 – 1:05 | ***Panel Discussion*** |
| 1:05 - 1:45 | ***Lunch*** |
| ***Session III: Metabolic and Epigenetic Mechanisms****Moderators: Pataje Prasanna, NCI and Stephen Kron, University of Chicago* |
| 1:45 - 2:00 | Long-term senescence in endothelial cells through mitochondrial respiratory complex dysfunction; Francois Paris, *University of Nantes, Nantes, France* |
| 2:00 - 2:15 | Sirt family of proteins in the modulation of ROS, carcinogenesis and aging; David Gius, *Northwestern University, Chicago, IL* |
| 2:15 - 2:30 | Escape from chemotherapy and radiation-induced senescence: Impact of senolytics and tumor dormancy; David Gewirtz, *Virginia Commonwealth University, Richmond, VA*  |
| 2:30 - 2:45 | Chromatin modifications linking DNA damage to senescence; Stephen Kron, *University of Chicago, Chicago, IL* |
| 2:45 – 3:05 | ***Panel Discussion and Wrap Up Day 1*** |

**Day 2, August 11, 2020**

**Virtual Meeting**

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| **9:15 - 9:30 AM** | **Arrival** |
|  | ***Session IV: Radiation, Senescence, and Tissue Remodeling****Moderators: Michael Espey and Deborah Citrin, NCI* |
| 9:30 - 9:45 | Mechanistic insights into the plasticity of cancer cells; Clemens A Schmitt, *Charité – Universitätsmedizin and Max-Delbrück-Center for Molecular Medicine, Berlin, Germany* |
| 9:45 - 10:00 | Cellular plasticity, minimal residual disease, and tumor recurrence in cancer; Mohamed Abazeed, *Northwestern University, Chicago, IL.* |
| 10:00 - 10:15 | Radiation-induced premature senescence; Daohong Zhou, *University of FL, Gainesville, FL* |
| 10:15 - 10:30 | Radiation, senescence, and tissue fibrosis; Deb Citrin, NCI |
| 10:30 - 10:50 | ***Panel Discussion*** |
| ***Session V: “One-Two Punch” Cancer Therapy****Moderators: Sundar Venkatachalam, NCI and Daohong Zhou, University of FL* |
| 10:50 - 11:05 | Clinical translation of senotherapeutics; James Kirkland, *Mayo Clinic, Rochester, MN* |
| 11:05 - 11:25 | The SASP associated with therapy-induced senescence recruits antitumor TILS into the tumor microenvironment; Ann Richmond, *Vanderbilt University, Nashville, TN* |
| 11:25 - 11:40 | Cancer therapy, senescence, and antitumor immunity;Paul Romesser and Scott Lowe, *Memorial Sloan Kettering Institute, New York, NY.* |
| 11:40 – 11:55 | Strategies to target senescence;Jesus Gil, *MRC Imperial College, London, UK.* |
| 11:55 – 12:15 PM | ***Panel Discussion*** |
| 12:15 - 12:45 | ***Lunch*** |

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|  | ***Session VI: Development of Senotherapeutics****Moderators: Gabriela Riscuta, NCI and Dan Xi, NCI* |
| 12:45 – 1:00 | Discovery and development of senotherapeutic agents for clinical translation; Guangrong Zheng, *University of FL, Gainesville, FL* |
| 1:00 – 1:15 | Chemoprevention and senescence, Marc Mendonca, *Indiana University, Indianapolis, IN* |
| 1:15 – 1:30 | Prevention of glioblastoma recurrence after radiotherapy by the elimination of senescent astrocytes; Sundeep Burma, *University of Texas Health, San Antonio, TX* |
| 1:30 – 1:45 | Regulatory considerations: Mitchell Anscher, *Food and Drug Administration, Silver Spring, MD.* |
| 1:45-2:00 | ***Panel Discussion*** |
| 2:00 – 2:30  | ***General Discussion, Next Steps, Adjourn***Moderators: Deb Citrin, *CCR, NCI* and Daohong Zhou, *University of FL, Gainesville, FL* |

Final 8/6/2020