

Tuesday, February 11, 2014
CANCER RISKS I
8:00 a.m. Expo Hall A3

Chairs: Mary-Helen Barcellos-Hoff
Honglu Wu

- 8:00 a.m. Lisa Simonsen *
Welcome and Opening Remarks
- 8:15 a.m. Raber J. Belknap J. Iancu O. Kleiman N. Hall E. Ray A. Fallgren C. Kamstock D. Schmidt C. King A. Edmondson E. Weil M.
[Characterization of the Tumor Spectrum Arising in HZE Ion Irradiated Outbred Mice](#) [#3073]
This ongoing study compares the spectrum of tumors that arise in an HZE ion irradiated population of genetically heterogeneous mice to the tumor spectra in matched unirradiated or gamma-ray irradiated populations. The irradiated mice are also being assessed for ocular and cognitive deficits.
- 8:40 a.m. Chang P. Y. Bjornstad K. A. Bakke J. Rosen C. Du N. Fairchild D. Blakely E.
[Update of Harderian Gland Tumorigenesis: Low-Dose- and LET-Response](#) [#3247]
This paper reviews the status of a 4-year study to investigate the dose-, dose-rate-, and LET-dependence of particle-induced Harderian Gland tumorigenesis. The data fill a gap in the existing database with this system at low particle doses below 50 cGy, and at LET values at or near 100 keV/ μ m.
- 9:05 a.m. Kaisani A. Kim S. B. Delgado O. Fasciani G. Batten K. Richardson J. A. Wright W. E. Story M. D. Minna J. D. Fornace A. Jr. Shay J. W.
[Biological Countermeasures of Space Radiation-Induced Invasive Carcinomas in Mouse Models of Lung and Colon Cancer](#) [#3326]
Using lung and colon cancer mouse models we examined the effects of space radiation on cancer progression. We observed significant increase in invasive cancers after SPE simulations and HZE particle irradiations. Increases greatly reduced by feeding mice a biological countermeasure prior to irradiation.
- 9:30 a.m. BREAK