

Sunday, July 8, 2012
OPENING SESSION
3:00 p.m. Presidents Ballroom I/II

- 3:00 p.m. Cucinotta F. A. * Kirsch D. *
Welcome from NASA and Duke University
- 3:10 p.m. Cucinotta F. A. *
[*Cancer Risk Assessment and Mitigation for Exploration Missions*](#) [#8122]
We review NASA's new model to estimate space radiation cancer risks and the uncertainties in these risk estimates. Challenges and new approaches to mitigation research for cancer risks for chronic GCR exposures are discussed.
- 3:50 p.m. Dunbar B. *
[*Radiation Risk Mitigation and the NRC Report on NASA Technology Roadmaps*](#) [#8131]
This presentation discusses the NRC study process and its findings related to radiation risk management.
- 4:30 p.m. Held K. Koretsky A. Meyn R. Robbins M. Nowakowski R. Schimmerling W. Beven G. Barratt M. Tanzi R. Cucinotta F. Hein A. Sulzman F. Koroshetz W. J. *
[*Report of the NASA Space Radiation Ad Hoc Expert Panel on CNS Risks*](#) [#8067]
A panel of experts reviewed NASA-funded studies of animals exposed to high energy particles. These demonstrate brain alterations but do not establish a clinically significant brain exposure. The panel made recommendations to define this threshold.
- 5:10 p.m. BREAK
- 5:30 p.m. Shaw L. M. *
[*Predictive Performance of CSF Biomarkers for Conversion from Mild Cognitive Impairment to Alzheimer's Disease*](#) [#8129]
Here we summarize our experience in the qualification of CSF Amyloid beta42 (Abeta42), total tau (t-tau) and tau phosphorylated in the 181 threonine position (p-tau181).
- 6:10 p.m. Hogan B. *
[*Towards an Understanding of Epithelial-Mesenchymal Interactions in the Adult Lung*](#) [#8125]
The lung is a very dynamic organ system and its multiple functions depend to a large extent on the maintenance of its complex, three-dimensional tissue architecture.