

SessionOrder

	A	B	P	R	S
1	Abstract_	Abstract_Title	Author_Last	Comments	Session
2	1007	Individual Radiation Sensitivity and Its Relevance to Space Radiation Risk Assessments	Hall	Invited	01 -- Opening Plenary
3	1021	Biomarkers of Space Radiation Risk	Durante	Invited	01 -- Opening Plenary
4	1122	Neuroimaging and Neurotoxicology	Gatley	Invited	01 -- Opening Plenary
5	1009	Exploring the Biological Effects of High LET Radiation with a Sensitive Assay	Okayasu	Invited	01 -- Opening Plenary
6	1123	Radiobiology Research Products for Space Exploration	Cucinotta	Invited	01 -- Opening Plenary
7		<i>Overview of Leukemia NSCOR*</i>	Ullrich		02 -- Rad Carcinogenesis
8	1039	Downregulation of Betaig-h3 Gene is Involved in the Tumorigenic Process of Human Bronchial Epithelial Cells Induced by Heavy Ion Radiation	Zhao		02 -- Rad Carcinogenesis
9	1055	Impact of Trp53 Genetic Background on Particle Radiation-induced Genetic Damage in Vivo	Chang		02 -- Rad Carcinogenesis
10	1079	Radiation Responses of Perfused Tracheal Tissue	Ford		02 -- Rad Carcinogenesis
11	1113	Response of Thyroid Tissue Units to Space-Like Radiation: Comparison of Acute and Low-Dose Exposures of Differing LET	Green		02 -- Rad Carcinogenesis
12	1036	Genotoxic Effects of 1 GeV/amu Fe Ions in Mouse Kidney Epithelial Cells	Kronenberg		02 -- Rad Carcinogenesis
13	1107	SATB1 Deficiency Accounts for High Susceptibility to Low Dose Radiation	Kohwi-Shigematsu		02 -- Rad Carcinogenesis
14	1116	Genetic Control of Individual Risk to Non-hereditary Sporadic Cancers	Demant	Invited	02 -- Rad Carcinogenesis
15	1072	Iron Ion-, Proton-, and X-ray Effects on Human Lens Cell Differentiation	Blakely		03 -- Non-Cancer Risks
16	1061	Accelerated Ion Irradiation Induced Retinal Response	Mizota		03 -- Non-Cancer Risks
17	1014	Quantitative Study of Possible Role of Proton Irradiation in Diabetic-Like Retinopathy	Mao		03 -- Non-Cancer Risks
18	1089	CNS NSCOR: Progressive Alterations of Central Nervous System Structure and Function are Caused by Charged Particle Radiation	Nelson		04 -- Neuro Damage
19	1030	Effects of Prenatal Irradiation of Accelerated Heavy Ion Beam on Postnatal Development in Rats: I. Neurophysiologic Alterations	Wang		04 -- Neuro Damage
20	1041	Putative Nutritional Protection Against Increased Oxidative Stress Vulnerability from Both Irradiation and Aging	Joseph		04 -- Neuro Damage
21	1076	Changes in Cocaine-Stimulated Locomotor Activity Induced by Iron Ion Exposure	Vazquez		04 -- Neuro Damage
22	1025	Long-term Alterations Within the Rodent Brain After 56Fe Irradiation: Assessment by Diffusion-weighted Imaging	Obenaus		04 -- Neuro Damage
23	1048	Indicators of Hippocampal Neurogenesis are Altered by 56Fe Irradiation in a Dose Dependent Manner	Rola		04 -- Neuro Damage
24	1016	Preliminary Studies of the Interaction Between Age and Exposure to 56Fe Particles on Selected Behavioral Endpoints	Rabin		04 -- Neuro Damage

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25	1045	Stress Response of Neural Precursor Cells After X-ray and Proton Irradiation	Limoli		04 --Neuro Damage
26	1005	Interdependence of Cellular and Tissue Stress Responses	Barcellos-Hoff		05 -- Molec Cellular Responses
27	1023	Complex Space Radiation-induced DNA Damage Clusters in Human Cell Transformation: Mechanisms, Relationships and Mitigation	Sutherland		05 -- Molec Cellular Responses
28	1011	Low Dose Suppression of Neoplastic Transformation in Vitro: Preliminary Results with High Energy Protons	Redpath		05 -- Molec Cellular Responses
29	1095	Mechanisms of Radiation-Induced Recombination and Mutagenesis	Grosovsky		05 -- Molec Cellular Responses
30	1008	Modulation of Genetic Effects by RNA Interference of NHEJ	Bailey		05 -- Molec Cellular Responses
31	1001	High-LET Radiation Enhanced P53-independent Apoptosis	Ohnishi		05 -- Molec Cellular Responses
32	1068	Caffeine, ATM Inhibitor, Sensitizes Non-dividing Human Fibroblast Cells to Low- or high-LET Radiation by Inducing High Frequency of Chromosome Aberrations	Kawata		05 -- Molec Cellular Responses
33		<i>Novel Approaches*</i>	de los Santos	Invited	05 -- Molec Cellular Responses
34	1109	Radiation Quality and the Consequence of Clustered DNA Damage to Biological Response	O'Neill	Invited	05 -- Molec Cellular Responses
35	1012	Non-targeted Effects of Ionizing Radiation	Morgan		05 -- Molec Cellular Responses
36	1042	Comparison of the Radiation-Induced Bystander Effect in Fibroblasts After Treatment with X-rays or Heavy Ions	Held		05 -- Molec Cellular Responses
37	1046	Relationship Between DNA Double-strand Breaks and Chromosome Breaks in Irradiated and Bystander Cells	Rydberg		05 -- Molec Cellular Responses
38	1093	Both LET and Track Structure Profoundly Influence the Spectra of Chromosome Aberrations Produced in Irradiated Human Cells	Cornforth		06 -- Rad Quality
39	1032	Influence of PMMA Shielding on DNA Fragmentation Induced in Human Fibroblasts by Iron and Titanium Ions	Belli		06 -- Rad Quality
40	1020	Cytogenetic Effects of High-energy Iron Ions: Dependence on Shielding Thickness and Material	Durante		06 -- Rad Quality
41	1028	Chromosomal Damage by Energetic Iron Particles with or Without Shielding	Bedford		06 -- Rad Quality
42	1092	Radiation Measurements During ISS Increment 2	Reitz	Invited	07 -- Dosimetry
43	1071	Space Radiation Exposure of Cosmonaut Body During EVA	Shurshakov		07 -- Dosimetry
44	1070	Searching Integrating Dosimeters Suitable for the Determination of Biologically Equivalent Doses from Space Radiation	Yasuda		07 -- Dosimetry
45	1105	Particle and Heavy Ion Transport Code System: PHITS	Niita	Invited	07 -- Dosimetry
46	1003	A Simple Method for Solar Energetic Particle Event Dose Forecasting	Townsend		07 -- Dosimetry
47	1029	Shielding, Fragmentation, and NSRL Beam Characterization Studies	Zeitlin		07 -- Dosimetry
48	1119	Validation of Space Radiation Transport Codes	Wilson		07 -- Dosimetry
49	1091	Male and Female Body Tissue Radiation Shielding Models Based Upon CT-scan Data	Qualls		07 -- Dosimetry

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50	1101	BEAMS: Benchmark Evaluations and Analysis of Materials for Shielding, MMARSS: Multifunctional Materials Analysis of Radiation Shielding for Spacecraft	Benton		07 -- Dosimetry
51	1017	Materials Science and Particle Transport Capabilities Applied to Novel and Multifunctional GCR Shielding Materials	Mansur		07 -- Dosimetry
52	1040	Development of a Cryogenic Liquid Target for Radiation Shielding Studies	Wilkins		07 -- Dosimetry
53	1067	MARIE Observations of Solar Particle Events	Turner		07 -- Dosimetry
54	1006	Modeling of the Martian Environment for Radiation Analysis	De Angelis		07 -- Dosimetry
55	1104	Overview of the NSRL at Brookhaven Laboratory	Rusek		08 -- BNL Session
56		<i>TERA*</i>	Orecchia	Invited	08 -- BNL Session
57		<i>HIMAC*</i>	Fujitaka	Invited	08 -- BNL Session
58	1034	A Microcollimated Ion Beam Facility for Low Dose Radiation Effect Investigations	Gerardi		08 -- BNL Session
59	1100	NASA Ames Genome Research Facility	Stolc		08 -- BNL Session
60	1033	The ALTEA Program: Status of the Project	Narici		08 -- BNL Session
61	1084	Gene Expression Profiling of High LET Radiation Exposure	Amundson		09 -- Biomarkers
62	1027	Monitoring Radiation-Induced Genetic Damage	Bacher		09 -- Biomarkers
63	1049	Analysis of Gene Expression in Human Skin Fibroblasts After Low- and high-LET Radiation Exposures	Story		09 -- Biomarkers
64	1031	Biodosimetry Using Chromosome Aberrations in Astronauts' Peripheral Blood Lymphocytes: Influences of Clonal Exchanges and Aberration Stability	George		09 -- Biomarkers
65	1018	Countermeasures for Space Radiation Biological Effects	Kennedy		09 -- Biomarkers
66		<i>NASA Space Exploration Plans*</i>	Lomax	Invited	10 -- Exploration
67		<i>Ethics Issues for Exploration Risks -- Acceptable Radiation Risks*</i>	Shrader-Frechette	Invited	10 -- Exploration
68	1022	Approaches to Radiation Limiting in Space: Usage of Russian Experience for Mars Mission Ensuring	Petrov	Invited	10 -- Exploration
69	1063	A Quantitative Radiation Effect Model Based on Misrepair-kinetics	Kiefer		10 -- Exploration
70	1035	Paradigm Shifts in Radiation Biology: Their Impact on Intervention for Radiation Induced Disease	Brooks		10 -- Exploration
71	1082	Zebrafish as a Model System for Radiation Damage and Radioprotection	Bladen	Poster	CNS Cancer and Non-Cancer
72	1081	On the Use of micrPET Imaging to Study Radiation Damage to the Brain	Gatley	Poster	CNS Cancer and Non-Cancer
73	1096	Acute Effects of Whole-body High-LET Radiation: Leukocyte Activation and Function	Gridley	Poster	CNS Cancer and Non-Cancer
74	1064	NF-kB Activating Proteins as Radioprotectants: Derivatives of Flagellin from Salmonella Protect Mice from Hematopoietic and Gastrointestinal Radiation Syndromes	Gudkov	Poster	CNS Cancer and Non-Cancer

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75	1075	Cytotoxic Effects of HZE Radiation on Human Neural Stem and Neuronal Cells	Guida	Poster	CNS Cancer and Non-Cancer
76	1050	Effect of Heavy Ion Particle Irradiation on Proliferation and Differentiation of Bone Marrow-derived Osteoblastic Stromal Cells	Hasegawa	Poster	CNS Cancer and Non-Cancer
77	1088	Genotoxicity and Gene Expression in the Nematode <i>C. Elegans</i> in Response to Charged Particle Irradiation	Nelson	Poster	CNS Cancer and Non-Cancer
78	1060	Effects of Low Dose Particle Radiation to Mouse Neonatal Neurons in Culture	Nojima	Poster	CNS Cancer and Non-Cancer
79	1108	Acute Effects of Whole-body High-LET Radiation: Population Distributions & Hematology	Pecaut	Poster	CNS Cancer and Non-Cancer
80	1097	Heavy Ion Radiation Sensitivity of CNS Glial Cells in Culture Relative to Low LET X-rays	Pena	Poster	CNS Cancer and Non-Cancer
81	1087	Effect of Low Dose Gamma Irradiation on the Differentiation and Maturation of Monocyte Derived Dendritic Cells	Reuben	Poster	CNS Cancer and Non-Cancer
82	1043	Blueberry or Strawberry Supplementation Can Protect Against Age-like Radiation-induced Behavioral Deficits	Shukitt-Hale	Poster	CNS Cancer and Non-Cancer
83	1078	Gamma Rays Induction and Repair of DNA Double Strand Breaks in Human Cells: Dephosphorylation of Histone H2AX and Its Inhibition by Calyculin a	Antonelli	Poster	Molec and Cellular Resp
84	1010	Chromosome Aberrations Induced by Low Doses of Low- and high-LET Radiation: a Modelling Approach	Ballarini	Poster	Molec and Cellular Resp
85	1066	Cellular Monitoring of the Nuclear Factor kappaB Pathway for the Assessment of Space Environmental Radiation	Baumstark-Khan	Poster	Molec and Cellular Resp
86	1044	Mutagenicity and Immunohistochemical Evaluation of Monolayer Cell and Three-Dimensional Cell Assemblies Exposed to Heavy Iron Ions	Behravesch	Poster	Molec and Cellular Resp
87	1120	Computational Molecular Kinetics Model of HZE Induced Cell Cycle Arrest	Cucinotta	Poster	Molec and Cellular Resp
88	1073	Phosphorylation of Histone H2AX Induced in Mammalian Cells by Different Radiation Qualities: Foci Formation at Low Doses	Davis	Poster	Molec and Cellular Resp
89	1115	Immunofluorescent Detection of DNA Double Strand Breaks Induced by High-LET Radiation	Desai	Poster	Molec and Cellular Resp
90	1026	Molecular Energetics of Clustered Damage Sites	Miller J.H.	Poster	Molec and Cellular Resp
91	1114	Novel Image Processing Interface to Relate DSB Spatial Distribution from Immunofluorescence Experiments to the State-of-the-Art Models of DNA breakage.	Ponomarev	Poster	Molec and Cellular Resp
92	1110	Computational Studies of Ras and PI3K	Ren	Poster	Molec and Cellular Resp
93	1024	DNA Damage Clusters in Low Level Radiation Responses of Human Cells	Sutherland	Poster	Molec and Cellular Resp
94	1085	A Functional Link of ATR and Homologous Recombination	Wang	Poster	Molec and Cellular Resp

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95	1074	NF-kB Activating Proteins as Radioprotectants: Latent TGFbeta Producing by Tumor Cells Can Inhibit Apoptosis by Inducing NF-kB	Burdelya	Poster	Radiation Carcinogenesis
96	1103	Global Gene Expression Profile of Normal Human Skin Fibroblast (HSF42) Subjected to HZE Irradiation: a cDNA	Ding	Poster	Radiation Carcinogenesis
97	1015	Analysis of Carcinogenic Mechanisms of Liver Cancers Induced by Chronic Exposure to Alpha-particles from Internally Deposited Thorotrast	Fukumoto	Poster	Radiation Carcinogenesis
98	1059	The Cellular Effects Induced by Heavy Ion Microbeam Irradiation	Funayama	Poster	Radiation Carcinogenesis
99	1002	Effects of Low-dose-rate Radiation on hTERT-immortalized Human Cells	Ishizaki	Poster	Radiation Carcinogenesis
100	1106	Genomic Instability Studies in Murine Haemopoietic Stem Cells Following Exposure to Ionizing Radiation	Kadhim	Poster	Radiation Carcinogenesis
101	1117	The Role of ROS in Radiation Induced Genetic Instability	Li	Poster	Radiation Carcinogenesis
102	1013	A Quantitative Biomarker Specific for Neutron or HZE Radiation Exposure	Mitchell	Poster	Radiation Carcinogenesis
103	1057	HZE Radiation Effect for Hereditary Renal Carcinomas	Nojima	Poster	Radiation Carcinogenesis
104	1083	Analysis of Cell Cycle in Mouse Bone Marrow Cells Following Acute in Vivo Exposure to 56Fe Ions	Rithidech	Poster	Radiation Carcinogenesis
105	1004	Estimation of Radiation Induced Organ Specific Cancer Incidence for Radiotherapy Treatment Planning	Schneider	Poster	Radiation Carcinogenesis
106	1051	A Possible Mechanism for Bystander Effects: Mass Spectrometry Characterization of Shed Proteins	Springer	Poster	Radiation Carcinogenesis
107	1054	Very Low-dose Rate Irradiation of Low-density Charged Particles May Induce Genomic Instability of Mutation in Normal Human Fibroblasts	Suzuki	Poster	Radiation Carcinogenesis
108	1053	Radiation Enhances Azoxymethane-Induced Colon Cancer Development	Turner	Poster	Radiation Carcinogenesis
109	1062	A Paraffin Tissue Bank of Cancer and Control Tissues from a Thousand Animal Irradiation Experiment	Woloschak	Poster	Radiation Carcinogenesis
110	1019	Characterizing Radiation Quality for Low Level Radiation Exposure	Braby	Poster	Shielding and Physics
111	1090	Calculation of Radiation Protection Quantities for LEO and Beyond	Cloudsley	Poster	Shielding and Physics
112	1037	Ionization Cross Sections and Dissociation Channels of the DNA Sugar-phosphate Backbone by Electron Collisions	Dateo	Poster	Shielding and Physics
113	1102	Characterization of a Shuttle Style TEPC and Preliminary Results for the Benchmark Evaluations and Analysis of Materials for Shielding (BEAMS) Project	Gersey	Poster	Shielding and Physics
114	1118	Radiation Risk Assessment in Humans: Defining Biologic Activity of Low LET IR in Tissue	Goldberg	Poster	Shielding and Physics

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115	1080	Secondary Particle Production from Heavy-ion Interactions in Shielding Materials of Interest for Space Missions; Comparison of Monte Carlo Simulations Using SHIELD-HIT with the Experimental Data	Gudowska	Poster	Shielding and Physics
116	1111	Application of QMSFRG Model to NSRL Transport Problems	Hu	Poster	Shielding and Physics
117	1047	Ionization Cross Sections and Dissociation Channels of DNA Bases by Electron Collisions	Huo	Poster	Shielding and Physics
118	1069	Solar Cycle Variation and Application to the Mean Occurrence Frequency of Solar Particle Events	Kim	Poster	Shielding and Physics
119	1098	Helium Cosmic Ray Flux Measurements at Mars	Lee	Poster	Shielding and Physics
120	1120	The Feasibility of Multiple Electrostatic Radiation Shielding	Metzger	Poster	Shielding and Physics
121	1094	Extension of the HETC Radiation Transport Code to Include HZE Particle Transport	Miller T.M.	Poster	Shielding and Physics
122	1099	Model Calculations of the Particle Spectrum and Assessment with the Advanced Composition Explorer (ACE) Measurements	Saganti	Poster	Shielding and Physics
123	1058	Applicability of 3-Dimensional Particle and Heavy Ion Transport Code PHITS to the Shielding Design of Spacecrafts	Sato	Poster	Shielding and Physics
124	1052	Engineering Effort Needed to Design Spacecraft with Radiation Constraints	Singleterry	Poster	Shielding and Physics
125	1056	ICCHIBAN Intercomparison Program for Space Radiation Instruments at HIMAC, LLUMC and NSRL	Uchihori	Poster	Shielding and Physics
126	1086	Improved Computational Methods for the HZETRN Code	Walker	Poster	Shielding and Physics
127	1065	The Potential of Optically Stimulated Luminescence as a Personal Dosimetry Method for Astronauts	Yukihara	Poster	Shielding and Physics
128	1121	HMD Development: An Event Generator for Monte Carlo Simulation of Heavy Ion Transport	Zapp	Poster	Shielding and Physics
129		<i>*Abstract expected</i>			