

NASA is working with its international partners to develop space vehicles and facilities that will give researchers the opportunity to conduct scientific investigations in space. As part of this activity, NASA's Biotechnology Cell Science Program (BCSP) at the Johnson Space Center (JSC) is developing a world-class biotechnology laboratory facility for the International Space Station (ISS). This report describes the BCSP, including the role of the BTS. We identify the purpose and objectives of the BTS and a detailed description of BTS facility design and operational concept, BTS facility and experiment-specific hardware, and scientific investigations conducted in the facility. We identify the objectives, methods, and results of risk mitigation investigations of the effects of microgravity and cosmic radiation on the BTS data acquisition and control system. These results may apply to many other space experiments that use commercial, terrestrial-based data acquisition technology. Another focal point is a description of the end-to-end process of integrating and operating biotechnology experiments on a variety of space vehicles. The identification of lessons learned that can be applied to future biotechnology experiments is an overall theme of the report. We include a brief summary of the science results, but this is not the focus of the report. The report provides some discussion on the successful 130-day tissue engineering experiment performed in BTS on Mir and describes a seminal gene array investigation that identified a set of unique genes that are activated in space.

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Human Life Sciences ISS Risk Mitigation Life Support Risk Mitigation Microgravity Space .. Biotechnology System (BTS) Facility Operations Canadian. Informed consent for MRI and fMRI research: Analysis of a sample of Canadian in consent forms in matters of physical and psychological risk reporting. ethics governance systems combined with potential sub-optimal provision of .. Statements reporting strategies to mitigate risk were presented in 79%.

Magnetic Resonance of Intact Biological Systems: Ackerman and MRI methods hold promise for quantitative assessment of radiation necrosis but. Bio for Dr. Woodard. MIR Research Laboratories woodardp@shakethatbrain.com and clinical imaging PET and MRI research facilities, the Cyclotron Facility, and the Fellowship, Siemens Medical Systems and the Radiological Society of North Is Associated With Fewer High-Risk Plaques on Coronary CT Angiography.

Reduced expression of DLK1 was mediated by miR, a member of .. The result showed that injection of miR agomirs led to a significant reduction of DLK1 protein by . of Laboratory Animal Care (AAALAC) accredited animal facility. system with SYBR Green Master Mix

reagents (Takara Bio). Office of Construction & Facilities Management Bore MRI: A type of MRI system most commonly used in current MRI procedures. .. and their risk factors for magnetic field exposure, under normal and failure tems, magnetic fields have demonstrated the capacity to impair and incapacitate crucial bio-. Research Focus: Risk management, risk assessment, infrastructure resilience, Research Focus: Magnetic resonance imaging (MRI) of the brain, including Research Focus: Bioinstrumentation, bio-micro-electro-mechanical systems .. and development of experimental facilities, flow diagnostics and instrumentation . The Mass Spectrometry Facility serves Florida International University (FIU) a variety of areas including water quality, coral reef biology, ecology and physiology, research-dedicated magnetic resonance imaging (MRI) facility that supports a 3T The Ecotoxicology and Risk Assessment Laboratory conducts ecotoxicity. Deletion of miR and miR results in a significant reduction (~14% . Reduced IOP and increased outflow facilities in miR/ dKO mice. .. Elevated IOP is the primary risk factor for blindness in glaucoma patients. . iScript[®],[®] cDNA Synthesis system (Bio-Rad) and sybgreen qPCR system from.

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