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(PDF) Hibernation for space travel: Impact on radioprotection

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2017. 10. 6. - The idea of exploiting hibernation for space exploration has been ... methods to induce hibernation-like conditions (synthetic torpor) in ments support previous estimates of the dose in deep space and ... constraints have to be imposed (Durante, 2014). Hibernating astronauts—science or fiction?

Hibernating astronauts—science or fiction? - NCBI

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A Choukèr 저술 - 2019 - 3회 인용 - 관련 학술자료

2018. 12. 19. - For long-duration manned space missions to Mars and beyond, reduction of ... of human hypometabolic states support the idea of human torpor and its ... and influence the immune system, as was shown in bed rest studies and damage as it occurs in rats after rewarming from deep hypothermia [24].

Hibernation and Radioprotection: Gene Expression in the ...

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2019. 1. 16. - Hibernation has been proposed as a tool for human space travel. ... Synthetic torpor may not only be an efficient method to spare resources and ... showed that the average dose-rate in deep space is about 1.8 mSv/day [15]. ... of 1 Sv of ESA astronauts and the gender- and age-specific limits for National ...



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that **radioprotection** is also induced during **synthetic torpor** and **supporting** the idea of using this state ... **missions to deep space**. Life Sci ... of increased radioprotection in **hibernation**, and ...

Name of Journal: *World Journal of Immunology*

Manuscript NO: 47279

Manuscript Type: OPINION REVIEW

On the immunological limitations of hibernation and synthetic torpor as a supporting technique for astronauts' radioprotection in deep space missions

Joseph J Bevelacqua, James Welsh, SMJ Mortazavi

Abstract

Although human hibernation has been introduced as an effective technique in space exploration, there are concerns regarding the intrinsic risks of the approach (i.e., synthetic torpor) and other factors involved in this procedure. Besides concerns about the brain changes and the state of consciousness during hibernation, an "Achilles heel" of the hibernation is the negative impact of torpor on factors such as the number of

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