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(PDF) Hibernation for space travel: Impact on radioprotection

<https://www.researchgate.net/publication/3080767...> ▼ 이 페이지 번역하기

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

<https://www.ncbi.nlm.nih.gov/articles/PMC6533228> ▼ 이 페이지 번역하기

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 ...

<https://www.ncbi.nlm.nih.gov/articles/PMC6359347> ▼ 이 페이지 번역하기

W Tinganelli 저술 - 2019 - 1회 인용 - 관련 학술자료

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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On the immunological limitations of hibernation and synthetic



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Cited by: 17

Author: Matteo Cerri, Walter Tinganelli, Matteo N...

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(PDF) Molecular Sciences Hibernation and Radioprotection ...

https://www.researchgate.net/publication/330418158_Molecular_Sciences_Hibernation_and...

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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