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Basic Study

Effects of normobaric cyclic hypoxia exposure on mesenchymal stem-cell differentiation–pilot study on bone parameters in elderly

Marta Camacho-Cardenosa, José Manuel Quesada-Gómez, Alba Camacho-Cardenosa, Alejo Leal, Gabriel Dorado, Bárbara Torrecillas-Baena, Antonio Casado-Diaz

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Thirty-nine studies analysed the e ff ect of sustained or **cyclic hypoxia exposure on bone** remodelling **parameters** in di ff erent **cell** models from animals (14 studies) or **humans** (34 studies). Most ...

Can Hypoxic Conditioning Improve Bone Metabolism? A ...

https://www.mdpi.com/1660-4601/16/10/1799/htm

Among other functions, **hypoxia**-inducible factor plays a critical role in **bone**–vascular coupling and **bone** formation. Studies have suggested that hypoxic conditioning could be a potential nonpharmacological strategy for treating skeletal diseases. However, there is no clear consensus regarding the **bone** metabolism response to **hypoxia**.

Cited by: 6 **Author:** Marta Camacho-Cardenosa, Alba Camac…

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Cited by: 6 **Author:** Marta Camacho-Cardenosa, Alba Camacho-...
Publish Year: 2019

The polymorphic and contradictory aspects of intermittent ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4101794

Jul 15, 2014 · Intermittent **hypoxia** (IH) has been extensively studied during the last decade, primarily as a surrogate model of sleep apnea. However, IH is a much more pervasive phenomenon in human disease, is viewed as a potential therapeutic approach, and has also been used in other disciplines, such as in competitive sports.

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Publish Year: 2014

Expression of HIF-1α in cycling stretch-induced osteogenic ...

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This **study** investigated the effect of the HIF-1α-TWIST pathway on **cyclic** mechanical stretch-induced osteogenic differentiation of rat **bone** marrow **mesenchymal** stem cells (BMSCs) and the underlying ...

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The **bone** marrow of rabbits is fatty and thus different in terms of physical properties compared to the human **bone** marrow. 29,30 The **bone** composition and biology of dog, sheep, goat, and pig have been

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https://onlinelibrary.wiley.com/doi/full/10.1002/jcp.29921

The variations in responses to **cyclic hypoxic** exposures may be explained by the variance in protocols that is the **hypoxic** dose and **exposure** time, but this is yet to be fully understood. Intermittent **hypoxia**, like that of obstructive sleep apnoea syndrome (Swanson et al., 2015), also has varying **effects on bone**.

Author: Scott S. Hannah, Sonyia McFadden, ... **Publish Year:** 2020

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