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... intra-myocellular lipids in human muscle by means of ... - Boesch - 被引用次数 : 493

... of ATP and phosphocreatine in rat skeletal muscle - de Graaf - 被引用次数 : 117

Skeletal muscle lipid accumulation in obesity, insulin ... - Goodpaster - 被引用次数 : 188

Influence of Foot Orientation on the Appearance and Quantification of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3381854/> ▼ 翻译此页

作者 : M Marjańska - 2012 - 被引用次数 : 8 - 相关文章

2012年2月1日 - Both effects depend on the angle between the muscle fibers relative to the main magnetic field. ... at 3.93 ppm is a singlet in the medial head of soleus (24) since the muscle fibers are orientated at 55° relative to the magnetic field. In vastus lateralis, foot orientation did not affect metabolite concentrations.

Proton Magnetic Resonance Spectroscopy of Skeletal Muscle: A ...

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作者 : X Wang - 2014 - 被引用次数 : 10 - 相关文章

2014年4月2日 - Keywords: MR Spectroscopy, Muscle, Quantitation, Phantom Replacement ...

Therefore, it is generally preferable to estimate individual metabolite ... B0 field homogeneity due to the magnetic susceptibility effects of the external sample. muscle fiber orientation with respect to the main magnetic field from ...

NMR in Biomedicine: Vol 0, No 0 - Wiley Online Library

<https://onlinelibrary.wiley.com/toc/10991492/0/0> ▼ 翻译此页

Involved muscular volumes might correspond to motor units in the respective muscles. ... effects in diffusion tensor imaging (DTI) and diffusion kurtosis imaging (DKI). ... up by ultrahigh-field in vivo chemical exchange saturation transfer magnetic alterations in metabolite profiles indicative of affected metabolic pathways.

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Name of Journal: *World Journal of Radiology*

Manuscript NO: 41399

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Effects of muscle fiber orientation to main magnetic field on muscle metabolite profiles for MRS acquisition

Duanghathai Pasanta, Tipparat Kongseha, Suchart Kothan

Abstract

BACKGROUND

Proton magnetic resonance spectroscopy (^1H MRS) is a technique widely used for investigating metabolites in humans. Lipids are stored outside the muscle cell are called extramyocellular lipids (EMCL), and lipids stored on the inside of muscle cells are called intramyocellular lipids (IMCL). The relationship between metabolic syndrome and IMCL has been extensively studied.

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Influence of muscle fiber orientation on water and metabolite ...

https://www.researchgate.net/.../276852290_Influence_of_muscle_fiber_orie... - 翻译此页

2018年10月10日 - Article in *Magnetic Resonance in Medicine* 75(4) - May 2015 with 15 Reads ... of the influence of skeletal **muscle fiber orientation** on **metabolite** visibility, ... healthy adults, with the TA oriented either parallel or at the magic angle to the 3T **field**. **Spectra** were **acquired** with **metabolite**-cycled PRESS, and water ...

Mapping fiber orientation in human muscle by proton MR ...

<https://onlinelibrary.wiley.com/doi/full/10.1002/mrm.10396> - 翻译此页

作者 : P Vermathen - 2003 - 被引用次数 : 56 - 相关文章

2003年3月18日 - Proton **magnetic resonance spectroscopic** imaging (^1H -MRSI) was used to ... strongly on the angle between **muscle fibers** and the **magnetic field** B_0 Since dipolar splitting affects **metabolite** intensities, it is important to take this **effect** ... angle between the **main** axis of the **muscle** and the fiber **orientation**.

Use of in vivo magnetic resonance spectroscopy for studying ... - Nature

<https://www.nature.com > experimental & molecular medicine > review> - 翻译此页

作者 : JH Hwang - 2015 - 被引用次数 : 34 - 相关文章

2015年2月6日 - **Magnetic resonance spectroscopy** (MRS), which is fundamentally similar to ... without a **magnetic field** (when an animal is outside the range of a magnet), ... to MRI the **major** advantage of MRS originates from chemical shift information, which show a strong **orientation** in parallel with the **muscle fibers**.

^{31}P magnetic resonance spectroscopy in fibromyalgic muscle ...

<https://academic.oup.com/rheumatology/article/39/10/1121/1783932> - 翻译此页

作者 : H Sprott - 2000 - 被引用次数 : 52 - 相关文章

Skip to **Main Content** Fibromyalgia, **Magnetic resonance spectroscopy**, Phosphate, ATP, ... in fibromyalgia **muscle** tissue by ^{31}P **magnetic resonance spectroscopy**. ... by imaging 17 slices in three orthogonal **orientations** using the body coil. ... the homogeneity of the **magnetic field** was adjusted by