

2 Hydroxyglutarate Detection By Magnetic Resonance

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2-hydroxyglutarate detection by magnetic resonance spectroscopy in IDH-mutated patients with gliomas. Changho Choi 1,2, Sandeep K Ganji 1,2, Ralph J DeBerardinis 3,4,5, Kimmo J Hatanpaa 5,6,7,

2-hydroxyglutarate detection by magnetic resonance ...

Somatic mutations in isocitrate dehydrogenase (IDH)1 and 2 have been identified in a subset of gliomas, rendering these tumors with elevated levels of “oncometabolite,” D-2-hydroxyglutarate (2HG). Herein, we report that 2HG can be precisely detected by magnetic resonance (MR) in human glioma specimens and used as a reliable biomarker to identify this subset of tumors.

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Detection of “oncometabolite” 2-hydroxyglutarate by ...

Magnetic Resonance Spectroscopy for Detection of 2-Hydroxyglutarate as a Biomarker for IDH Mutation in Gliomas Thomas Leather , 1 Michael D. Jenkinson , 2, 3 Kumar Das , 4 and Harish Poptani 1, * Thomas Leather

Magnetic Resonance Spectroscopy for Detection of 2 ...

Non-invasive detection of 2-hydroxyglutarate and other metabolites in IDH1 mutant glioma patients using magnetic resonance spectroscopy J Neurooncol. 2012 Mar;107(1):197-205. doi: 10.1007/s11060-011-0737-8. Epub 2011 Oct 21. Authors Whitney B Pope 1 ...

Non-invasive detection of 2-hydroxyglutarate and other ...

Magnetic resonance of 2-hydroxyglutarate in IDH1-mutated low-grade gliomas. Sci Transl Med 4, 116ra115. [28] Kalinina J, Carroll A, Wang L, Yu Q, Mancheno DE, Wu S, Liu F, Ahn J, He M, Mao H, et al. (2012). Detection of “oncometabolite” 2-hydroxyglutarate by magnetic resonance analysis as a biomarker of IDH1/2 mutations in glioma.

2-Hydroxyglutarate as a Magnetic Resonance Biomarker for ...

2-hydroxyglutarate is a metabolite that accumulates in the brains of patients with IDH-1 mutated (IDH-1 positive) brain tumors, particularly diffuse low-grade gliomas. Although not in widespread clinical use, it is likely that 2-hydroxyglutarate, which resonates at 2.25 ppm, will be able to be detected in vivo using MR spectroscopy (MRS), and thus IDH-1 status could be detected preoperatively 1.

2-hydroxyglutarate | Radiology Reference Article ...

metabolites H OH OH Review Magnetic Resonance Spectroscopy for Detection of 2-Hydroxyglutarate as a Biomarker for IDH Mutation in Gliomas Thomas Leather 1, Michael D.

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Jenkinson 2,3, Kumar Das 4 and Harish Poptani 1,* 1 Centre for Pre-clinical Imaging, Department of Cellular and Molecular Physiology, University of Liverpool, Liverpool L69 3BX, UK; htleath@student.liverpool.ac.uk

Magnetic Resonance Spectroscopy for Detection of 2 ...

Detection of oncogenic IDH1 mutations using magnetic resonance spectroscopy of 2-hydroxyglutarate Ovidiu C. Andronesi , 1 Otto Rapalino , 2 Elizabeth Gerstner , 3, 4 Andrew Chi , 3, 4 Tracy T. Batchelor , 3, 4, 5 Dan P. Cahill , 6 A. Gregory Sorensen , 7 and Bruce R. Rosen 1

Detection of oncogenic IDH1 mutations using magnetic ...

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Magnetic Resonance Spectroscopy for Detection of 2 ...

Kalinina J, Carroll A, Wang L, Yu Q, Mancheno DE, Wu S, Liu F, Ahn J, He M, Mao H, et al. Detection of “oncometabolite” 2-hydroxyglutarate by magnetic resonance analysis as a biomarker of IDH1/2 mutations in glioma. *J Mol Med (Berl)* 2012; 90:1161-1171. [PMC free article]

2-Hydroxyglutarate as a Magnetic Resonance Biomarker for ...

We have previously reported that reliable detection of 2-hydroxyglutarate (2HG) in isocitrate dehydrogenase (IDH)-mutant WHO grade 2 and 3 gliomas is possible utilizing 3.0-T single-voxel magnetic resonance spectroscopy (SVMRS). We set out to determine whether the same method could be applied to detect 2HG in IDH-mutant glioblastoma. Forty-four patients harboring glioblastoma underwent pre ...

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Reliable diagnosis of IDH-mutant glioblastoma by 2 ...

Background: The edited magnetic resonance spectroscopy (MRS) technique has not yet been formally evaluated for the in vivo detection of 2-hydroxyglutarate (2-HG) in patients with gliomas of ...

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Detection of 2-hydroxyglutarate in IDH-mutated Glioma Patients by in Vivo Spectral-Editing and 2D Correlation Magnetic Resonance Spectroscopy Sci Transl Med. 2012 Jan 11;4(116):116ra4. doi: 10.1126/scitranslmed.3002693. Authors Ovidiu C ...

Detection of 2-hydroxyglutarate in IDH-mutated Glioma ...

Detection of oncogenic IDH1 mutations using magnetic resonance spectroscopy of 2-hydroxyglutarate Ovidiu C. Andronesi,¹ Otto Rapalino,² Elizabeth Gerstner,^{3,4} Andrew Chi,^{3,4} Tracy T. Batchelor,^{3,4,5} Dan P. Cahill,⁶ A. Gregory Sorensen,⁷ and Bruce R. Rosen¹

magnetic resonance spectroscopy of 2- Detection of ...

2-hydroxyglutarate (2HG) in the tumor. Here we report the noninvasive detection of 2HG by proton magnetic resonance spectroscopy (MRS). We developed and optimized the pulse sequence with numerical and phantom analyses for 2HG detection, and we estimated the concentrations of 2HG using spectral fitting in the tumors of 30 subjects. Detection of 2HG

2-hydroxyglutarate detection by magnetic resonance ...

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2-Hydroxyglutarate Detection by Short Echo Time Magnetic Resonance Spectroscopy in Routine Imaging Study of Brain Glioma at 3.0 T. Crisi G(1), Filice S(2), Michiara M(3), Crafa P(4), Lana S(1). Author information: (1)From the Departments of Neuroradiology. (2)Medical Physics.

2-Hydroxyglutarate Detection by Short Echo Time Magnetic ...

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