Echo-Planar Imaging

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Recent Publications on Echo-Planar Imaging:

- Mediastinal lymph nodes in patients with non-small cell lung cancer: preliminary experience with diffusion-weighted MR imaging.
  *OBJECTIVES: The purpose of our study was to describe our preliminary...*30th August, 2008
  Department of Diagnostic Radiology, Kawasaki Municipal Hospital, Kanagawa,- J Thorac Imaging. 2008 Aug;23(3):157-61. (DOI Direct Link)
- Diffusion Tensor MR Imaging in Chronic Spinal Cord Injury.
  *BACKGROUND AND PURPOSE: Diffusion tensor MR imaging is emerging as an...*23rd August, 2008
  Department of Biomedical Engineering, Marquette University, Milwaukee,- AJNR Am J Neuroradiol. 2008 Aug 21. (DOI Direct Link)
- Silent echo-planar imaging for auditory FMRI.
  *INTRODUCTION: The effect of the acoustic scanner noise produced by...*22nd August, 2008
  Division of Medical Physics in Radiology, German Cancer Research Center,- MAGMA. 2008 Aug 21. (DOI Direct Link)
- Acoustic FMRI noise: linear time-invariant system model.
  *Functional magnetic resonance imaging (fMRI) enables sites of brain...*21st August, 2008
  Department of Biomedical Engineering, Faculty of Mathematics and Natural- IEEE Trans Biomed Eng. 2008 Sep;55(9):2115-23. (DOI Direct Link)
- Diffusion tensor magnetic resonance imaging of the human calf: comparison between 1.5 T and 3.0 T-preliminary results.
  *OBJECTIVES: To compare diffusion tensor-magnetic resonance imaging...*19th August, 2008
  Joint Department of Medical Imaging, Mount Sinai Hospital and the- Invest Radiol. 2008 Sep;43(9):612-8. (DOI Direct Link)
- Spinal cord functional MRI at 3 T: Gradient echo echo-planar imaging versus turbo spin echo.
  *The purpose of this study was to evaluate and compare turbo spin echo...*19th August, 2008
  Department of Biomedical Engineering, Eindhoven University of Technology,- Neuroimage. 2008 Jul 23. (DOI Direct Link)
- Characterization of pediatric head and neck masses with diffusion-weighted MR imaging.
  *We aimed to assess the clinical usefulness of the ADCs calculated from...*16th August, 2008
  Diagnostic Radiology Department, Mansoura Faculty of Medicine, 62 El- Eur Radiol. 2008 Aug 15. (DOI Direct Link)
- DWI of the spinal cord with reduced FOV single-shot EPI.
  *Single-shot echo-planar imaging (ss-EPI) has not been used widely for...*31st July, 2008
  Magnetic Resonance Systems Research Laboratory, Department of Electrical- Magn Reson Med. 2008

Aug;60(2):468-73. (DOI Direct Link)

- Diffusion-weighted imaging of soft tissue tumors: usefulness of the apparent diffusion coefficient for differential diagnosis.
  *PURPOSE: We evaluated the efficacy of using the apparent diffusion...*29th July, 2008
  Department of Radiology, Kurume University School of Medicine, Kurume,- Radiat Med. 2008 Jun;26(5):287-95. Epub 2008 Jul 27. (DOI Direct Link)
- Tumor response after yttrium-90 radioembolization for hepatocellular carcinoma: comparison of diffusion-weighted functional MR imaging with anatomic MR imaging.
  *PURPOSE: Anatomic magnetic resonance (MR) imaging assessment of...*29th July, 2008
  Department of Radiology, Northwestern University Feinberg School of- J Vasc Interv Radiol. 2008 Aug;19(8):1180-6. Epub 2008 Jun 25. (DOI Direct Link)
- T(2)(*)-sensitized High-resolution Magnetic Resonance Venography Using 3D-PRESTO Technique.
  *Purpose: We evaluated the ability of the PRESTO (principles of echo...*8th July, 2008
  Department of Radiology, Kinki University School of Medicine.- Magn Reson Med Sci. 2008;7(2):73-7.
- Stimulus frequency dependence of blood oxygenation level-dependent functional magnetic resonance imaging signals in the somatosensory cortex of rats.
  *Understanding the mechanism of coupling between neuronal events and...*8th July, 2008
  Division of Oral Functional Science, Graduate School of Dental Medicine,- Neurosci Res. 2008 Sep;62(1):25-31. Epub 2008 Jul 3. (DOI Direct Link)
- Chronic hepatitis: role of diffusion-weighted imaging and diffusion tensor imaging for the diagnosis of liver fibrosis and inflammation.
  *PURPOSE: To determine the diagnostic performance of liver apparent...*27th June, 2008
  Department of Radiology, MRI, New York University Medical Center, 530- J Magn Reson Imaging. 2008 Jul;28(1):89-95. (DOI Direct Link)
- Concomitant field terms for asymmetric gradient coils: consequences for diffusion, flow, and echo-planar imaging.
  *As a consequence of the Maxwell equations, linear field gradients are...*27th June, 2008
  Bruker BioSpin MRI, Rudolf-Plank-Strasse 23, Ettlingen, Germany.- Magn Reson Med. 2008 Jul;60(1):128-34. (DOI Direct Link)
- Short-scan-time multi-slice diffusion MRI of the mouse cervical spinal cord using echo planar imaging.
  *Mouse spinal cord (SC) diffusion-weighted imaging (DWI) provides important...*25th June, 2008
  Centre de Resonance Magnetique Biologique et Medicale (CRMBM), UMR CNRS- NMR Biomed. 2008 Jun 23. (DOI Direct Link)

BioNews Results for Echo-Planar Imaging

- Life Sciences: Studies in the area of life sciences reported from New York University, Department of Radiology
  NewsRX: Aug 29 2008 1:52AM Matching: echo planar imaging

Echo-Planar Imaging Clinical Trials:

- Echoplanar Imaging Thrombolysis Evaluation Trial (EPITHET)

Echo-Planar Imaging Patents:

- 6891372- Imaging method
- 7061238- Inherent limitation of the reduction factor in parallel imaging as a function of field strength
- 7071689- Methods for multiple acquisitions with global inversion cycling for vascular-space-occupancy dependant and apparatuses and devices related thereto
- 7071693- Magnetic resonance imaging apparatus
- 7075302- Method and apparatus to generate an RF excitation consistent with a desired excitation profile using a transmit coil array
- 7081751- Systems and methods for estimating properties of a sample
- 7096056- Functional magnetic resonance imaging using steady state free precession
- 7106060- Method for measuring the nuclear magnetic resonance (NMR) of substances having hyperpolarized nuclei using continuously refocused multiecho spectroscopic imaging
- 7112965- Low-impact noise acquisition magnetic resonance imaging
- 7154268- Method and apparatus to improve an MRI image using regularization
- 7154269- Iterative method for correction of geometric distortion resulting from phase evolution during segmented echo planar nuclear magnetic resonance imaging and apparatus therefor
- 7057388- Magnetic resonance method and device
- 7053618- Method and apparatus to generate an RF excitation consistent with a desired excitation profile using a transmit coil array
- 7048716- MR-compatible devices
- 6891373- Method to determine the ADC coefficients in diffusion-weighted magnetic resonance imaging given use of steady-state sequences
- 6906515- Magnetic resonance imaging device and method
- 6908435- Method and monitor for enhancing angiogenesis in the heart by exercise follow-up
- 6922054- Steady state free precession magnetic resonance imaging using phase detection of material separation
- 6933720- Sequence preconditioning for ultra-fast magnetic resonance imaging
- 6937015- Method for optimizing the k-space trajectories in the location encoding of a magnetic resonance tomography apparatus
- 6946839- Magnetic resonance imaging method and apparatus with spatial coding using readout segmentation
- 6954068- Magnetic resonance imaging apparatus
- 7034533- Method and system for rapid magnetic resonance imaging of gases with reduced diffusion-induced signal loss
- 7047060- Multiple preparatory excitations and readouts distributed over the cardiac cycle
- 7170289- Magnetic resonance imaging method and apparatus
- 7174200- Optimized high-speed magnetic resonance imaging method and system using hyperpolarized noble gases
- 7330027- System and method of magnetic resonance imaging for producing successive magnetic resonance images
- 7338455- Method and apparatus for diagnosing schizophrenia and schizophrenia subtype

- 7346382- Brain stimulation models, systems, devices, and methods
- 7368910- Dual gradient echo pulse sequence using interleaved spiral-out spiral-in k-space trajectories
- 7372270- Compensating for non-uniformity of excitation field in MRI
- 7385395- Apparatus for preparing a solution of a hyperpolarized noble gas for NMR and MRI analysis
- 7392077- Method for treating a patient at risk of loss of cardiac function by cardiac ischemia
- 7394251- Dynamic magnetic resonance inverse imaging
- 7403002- Method and apparatus for reduction of nyquist ghosts in medical magnetic resonance imaging
- 7411397- Method and apparatus of slice selective magnetization preparation for moving table MRI
- 7310548- Method of magnetic resonance perfusion imaging
- 7307420- MRI method for simultaneous phase contrast angiography and invasive device tracking
- 7301341- MRI gradient waveform design using convex optimization
- 7180290- Method for k-space data acquisition and MRI device
- 7205763- Movement-corrected multi-shot method for diffusion-weighted imaging in magnetic resonance tomography
- 7235972- Keyhole echo-planar imaging with double (T1 and T2*) contrast (DC-EPIC)
- 7239143- Digital magnetic resonance gradient pre-emphasis
- 7245786- Filtering artifact from fMRI data using the stockwell transform
- 7251520- Method and apparatus of slice selective magnetization preparation for moving table MRI
- 7259557- Method and apparatus of echo planar imaging with real-time determination of phase correction coefficients
- 7271588- Method and apparatus for acquiring multidimensional spectra and improved unidimensional spectra within a single scan
- 7283862- Rapid multi-slice MR perfusion imaging with large dynamic range
- 7286871- Method and apparatus for reducing contamination of an electrical signal
- 7412278- Method for simulation of an electric stimulation in an MR imaging system

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