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While several different neuroimaging approaches have certain advantages for the study of pain, fMRI has ultimately become the most widely utilized imaging technique over the past decade

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because of its noninvasive nature, high-temporal and spatial resolution, and general availability; thus, the following chapter will focus on fMRI and the special aspects of this technique that are particular to pain research.

Modulation of hypothalamus and amygdalar activation levels ...

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The second edition of this volume provides up-to-date methods on the main methodological aspects of functional MRI (fMRI), applying fMRI to the study of central nervous system, and future evolutions of fMRI techniques. fMRI: Method and Protocols,

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Morawetz C, Holz P, Lange C, et al. Improved functional mapping of the human amygdala using a standard functional magnetic resonance imaging sequence with simple modifications. ... fMRI of Emotion. In: Filippi M. (eds) fMRI Techniques and Protocols. Neuromethods, vol 41. Humana Press ...

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fMRI: Method and Protocols, Second Edition guides the reader through chapters on basic knowledge for the understanding of the technical aspects of fMRI, overview of the main results derived from the application of fMRI to the study of healthy individuals, application of fMRI to assess the role of brain plasticity in the major neurological and psychiatric conditions, and novel approaches for the integration of fMRI data.

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In fMRI Techniques and Protocols, an international assemblage of renowned scientists and physicians provide the background needed to plan and design new studies in order to advance our knowledge of the physiology of the normal human brain and its change following tissue injury. With sections focusing on basic principles of fMRI, its application to measure brain function, clinical applications, and glimpses into the future of fMRI development, the volume condenses this ample, varied field ...

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development, the volume condenses this ample, varied field ...

fMRI techniques and protocols / | University of Toronto ...

Abstract Functional MRI (fMRI) and the basic method of BOLD imaging were introduced in 1993 by Seiji Ogawa. From very basic experiments, fMRI has evolved into a clinical application for daily...

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fMRI of Pain | SpringerLink

fMRI Techniques and Protocols. fMRI Techniques and Protocols ... Functional magnetic resonance imaging of single motor events reveals human presupplementary motor area. ... fMRI of the Sensorimotor System. In: Filippi M. (eds) fMRI Techniques and Protocols. Neuromethods, vol 119. Humana Press, New York, NY. First Online 24 September 2016; DOI ...

fMRI of Emotion | SpringerLink

fMRI Techniques and Protocols is a well written and comprehensive book on state-of-the-art technology and fMRI and accurately depicts fMRI as an invaluable tool for studying brain function. The book is organized into four sections with the chapters of each section authored by different authorities in the field.

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fMRI of Emotion - boris.unibe.ch

Similar to the amygdala the hypothalamus could function as valence detector (Habel et al., 2007), as studies using event-related functional magnetic resonance imaging (fMRI) have demonstrated that emotion processing elicited by humorous stimuli causes hypothalamic activity patterns which are comparable to those of the amygdalae (Mobbs et al ...

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The tool is designed around three principles: 1) robustness to the heterogeneity of input data (e.g. acquisition parameters, protocol design, etc.); 2) ease of use, relying on the BIDS standards [3] for the input data and the resulting derivatives; and 3) a "glass-box" philosophy that stresses the need for visually assessing the outcomes before ...

FMRI techniques and protocols (eBook, 2009) [WorldCat.org]

Advanced Techniques. Second Edition. 475 pages. I Gozes (Tel Aviv University), 2008: Neuropeptide Techniques. 160 pages. S Baraban (University of California, San Francisco), 2009: Animal Models of Epilepsy. Methods and Innovations. 265 pages. M Filippi (San Raffaele Ospedale, Milan), 2009: fMRI Techniques and Protocols. 822 pages.

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fMRI of Emotion. In: Filippi, Massimo (ed.) fMRI Techniques and Protocols. Neuromethods: Vol. 41 (pp. 411-456). Totowa, NJ: Humana Press 10.1007/978-1-60327-919-2_14. Full text not available from this repository. (Request a copy)

fMRI Techniques and Protocols | SpringerLink

Abstract. Numerous fMRI studies have investigated the network of brain regions critical for memory. Whereas neuropsychological techniques can delineate the brain regions that are necessary for intact memory function, neuroimaging techniques can be used to investigate which regions are recruited during healthy memory formation, storage, and retrieval.