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Patent Search

	Patent Search	
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Abstract:

An Al based method for measuring intra-site heterogeneity in a tumor using magnetic resonance imaging. A plurality of digitizers, each configured to receive and digit corresponding broadband electronic signal from a respective antenna at a rate of at least one gigasample per second to produce a broadband digitized electronic sign position changing means is a means for moving the position of the bed in the longitudinal direction with respect to the static magnetic field generating means. Comp habitat variations from the spatial map of the tumor in the subject to one or more controls to predict the severity of the tumor. At least one second B 0 magnet is corresponding a second magnetic field to contribute to the B 0 of the magnetic resonance imaging system. magnetic field B 0 at least one second magnet includes a second permanent magnet ring.

Complete Specification

Technical Field

[0001] The embodiments herein generally relate to Al based method for measuring intra-site heterogeneity in a tumor using magnetic resonance imaging. Description of the Related Art

[0002] There are more than 18 million cancer cases and over 8 million people die of cancer around the world each year. The global market for cancer therapies is projected to reach US\$220. 5 billion by 2025. Despite tremendous efforts to cancer therapy over the past decades, overall cancer mortality remains high and has no changed substantially. The cancer therapy is mainly challenged by heterogeneity that is a hallmark of tumors and has a crucial role in the outcome of the malignanc because it strongly impacts diagnosis at the genetic and molecular level and challenges the design of effective therapies. There are two types of heterogeneity: inter and intra-tumor heterogeneity. Specially, intra-tumor heterogeneity closely associates with cancer progression and contributes to cancer drug resistance, leading to failure of many new therapies to deliver meaningful survival benefits and the increase in the health economic cost of therapeutic development. Therefore, the understanding of intra-tumor heterogeneity is very important for both research on fundamental mechanisms of tumor evolution and clinical practices of cancer tre [0003] Currently, the methods for identifying intra-tumor heterogeneity includes invasive surgical biopsy and minimally invasive or non-invasive methods. A DNA sequence based on biopsy is a gold standard to identifying the intra-tumor heterogeneity. The intra-tumor heterogeneity is performed by measuring genetic inform tumor sample that are extracted from biopsy tissue. Systems and/or methods for measuring the intra-tumor heterogeneity from invasive surgery specimens .

[0004] In medical magnetic resonance imaging, a nuclear spin of a subject placed in a static magnetic field is magnetically excited with a high-frequency signal has Larmor frequency, and an FID (free induction decay) signal or echo signal generated by this excitation is used. This is an imaging method based on obtaining an imaging method based on obtaining an imaging method based on obtaining an imaging method based on obtaining

View Application Status



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