超高磁場MRI診断･病態研究部門

氏名	所属	職名	取得学位	専門分野	主な論文・著作・業績
佐々木　真理	超高磁場ＭＲI診断･病態研究部門	教授	博士（医学）	放射線科学、神経放射線診断学、磁気共鳴医学	①Sasaki M, Kudo K, Honjo K, Hu JQ, Wang HB, Shintaku K: Prediction of infarct volume and neurologic outcome by using automated multiparametric perfusion-weighted magnetic resonance imaging in a primate model of permanent middle cerebral artery occlusion. J Cereb Blood Flow Metab 31:448-456 (2011) ②Hirano T, Sasaki M, Mori E, Minematsu K, Nakagawara J, Yamaguchi T: Residual Vessel Length on Magnetic Resonance Angiography Identifies Poor Responders to Alteplase in Acute Middle Cerebral Artery Occlusion Patients: Exploratory Analysis of the Japan Alteplase Clinical Trial II. Stroke 41:2828-2833 (2010) ③Sasaki M, Kudo K, Ogasawara K, Fujiwara S: Tracer delay-insensitive algorithm can improve reliability of CT perfusion imaging for cerebrovascular steno-occlusive disease: comparison with quantitative single-photon emission CT. AJNR Am J Neuroradiol 30:188-193 (2009) ④Sasaki M, Yamada K, Watanabe Y, Matsui M, Ida M, Fujiwara S, Shibata E: Variability in absolute apparent diffusion coefficient values across different platforms may be substantial: a multivendor, multi-institutional comparison study. Radiology 249:624-630 (2008) ⑤Shibata E, Sasaki M, Tohyama K, Otsuka K, Endoh J, Terayama Y, Sakai A: Use of neuromelanin-sensitive MRI to distinguish schizophrenic and depressive patients and healthy individuals based on signal alterations in the substantia nigra and locus ceruleus. Biol Psychiatry 64:401-406 (2008)
山下　典生	超高磁場ＭＲI診断･病態研究部門	助教	博士（医学）	脳形態計測、画像情報処理、画像診断システム	①Ohi K, Hashimoto R, Ikeda M, Yamashita F, Fukunaga M, Nemoto K, Ohnishi T, Yamamori H, Yasuda Y, Fujimoto M, Umeda-Yano S, Watanabe Y, Iwata N, Weinberger DR, Takeda M: Genetic risk variants of schizophrenia associated with left superior temporal gyrus volume. Cortex 58C:23-26 (2014) ②Uwano I, Kudo K, Yamashita F, Goodwin J, Higuchi S, Ito K, Harada T, Ogawa A, Sasaki M: Intensity inhomogeneity correction for magnetic resonance imaging of human brain at 7T. Med Phys 41(2):022302 (2014) ③Yamashita F, Sasaki M, Saito M, Mori E, Kawaguchi A, Kudo K, Natori T, Uwano I, Ito K, Saito K: Voxel-based morphometry of disproportionate cerebrospinal fluid space distribution for the differential diagnosis of idiopathic normal pressure hydrocephalus. J Neuroimaging 24(4):359-365 (2014) ④Maikusa N, Yamashita F, Tanaka K, Abe O, Kawaguchi A, Kabasawa H, Chiba S, Kasahara A, Kobayashi N, Yuasa T, Sato N, Matsuda H and Iwatsubo T: Improved volumetric measurement of brain structure with a distortion correction procedure using an ADNI phantom. Med Phys 40(6):062303 (2013) ⑤Yamashita F, Sasaki M, Takahashi S, Matsuda H, Kudo K, Narumi S, Terayama Y, Asada T: Detection of changes in cerebrospinal fluid space in idiopathic normal pressure hydrocephalus using voxel-based morphometry. Neuroradiology. 52:381-6 (2010)

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氏名	所属	職名	取得学位	専門分野	主な論文・著作・業績
樋口　さとみ	超高磁場ＭＲＩ診断･病態研究部門	助教	博士（理学）	脳機能計測、計算神経科学	①Di Dio C, Di Cesare G, Higuchi S, Roberts N, Vogt S, Rizzolatti G: The neural correlates of velocity processing during the observation of a biological effector in the parietal and premotor cortex. Neuroimage. 64:425-436 (2013) ②Higuchi S, Holle H, Roberts N, Eickhoff SB, Vogt S: Imitation and observational learning of hand actions: prefrontal involvement and connectivity. Neuroimage 16: 1668-1683 (2012) ③Higuchi S, Chaminade T, Imamizu H, Kawato M: Shared neural correlates for language and tool use in Broca's area. Neuroreport. 20:1376-1381 (2009) ④Higuchi S, Imamizu H, Kawato M: Cerebellar activity evoked by common tool-use execution and imagery tasks: an fMRI study. Cortex. 43:350-358 (2007) ⑤Imamizu H, Higuchi S, Toda A, Kawato M: Reorganization of brain activity for multiple internal models after short but intensive training. Cortex. 43:338-349 (2007)
上野　育子	超高磁場ＭＲＩ診断･病態研究部門	助教	博士（ソフトウェア情報学）	画像情報処理、情報学基礎理論	①Uwano I, Metoki T, Sendai F, Yoshida R, Kudo K, Yamashita F, Higuchi S, Ito K, Harada T, Goodwin J, Ogawa A, Sasaki M: Assessment of Sensations Experienced by Subjects during MR Imaging Examination at 7T. in press (2014) ②Uwano I, Kudo K, Yamashita F, Goodwin J, Higuchi S, Ito K, Harada T, Ogawa A, Sasaki M: Intensity inhomogeneity correction for magnetic resonance imaging of human brain at 7T. Med Phys 41(2):022302 (2014) ③Uwano I, Sasaki M, Kudo K, Fujiwara S, Yamaguchi M, Saito A, Ogasawara K, Ogawa A: Diffusion anisotropy color-coded map of cerebral white matter: quantitative comparison between orthogonal anisotropic diffusion-weighted imaging and diffusion tensor imaging. J Neuroimaging 23(2):197-201 (2013) ④Uwano I, Kudo K, Sasaki M, Christensen S, Ostergaard L, Ogasawara K, Ogawa A: CT and MR perfusion can discriminate severe cerebral hypoperfusion from perfusion absence: Evaluation of different commercial software packages by using digital phantoms. Neuroradiology 54(5):467-474 (2012) ⑤Uwano I, Kameda M, Inoue T, Nishimoto H, Fujiwara S, Hirooka R, Ogawa A: Computer-assisted identification of the central sulcus in patients with brain tumors using MRI. J Magn Reson Imaging 27(6):1242-9 (2008)

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伊藤　賢司	超高磁場ＭＲI診断･病態研究部門	助教（任期付）	博士（医学）	脳拡散計測、医用画像処理	①Ito K, Sasaki M, Kobayashi M, Ogasawara K, Nishihara T, Takahashi T, Natori T, Uwano I, Yamashita F, Kudo K. Noninvasive evaluation of collateral blood flow through circle of Willis in cervical carotid stenosis using selective magnetic resonance angiography. J Stroke Cerebrovasc. 23:1019-23 (2014) ②Ito K, Masutani Y, Kamagata K, Yasmin H, Suzuki Y, Ino K, Aoki S, Kunimatsu A, Ohtomo K. Automatic extraction of the cingulum bundle in diffusion tensor trac-specific analysis: Feasibility study in Parkinson ' s disease with and without dementia. Magn Reson Med Sci. 12:201-13 (2013) ③Sato Y, Ito K, Ogasawara K, Sasaki M, Kudo K, Murakami T, Nanba T, Nishimoto H, Yoshida K, Kobayashi M, Kubo Y, Mase T, Ogawa A. Postoperative increase in cerebral white matter fractional anisotropy on diffusion tensor magnetic resonance imaging is associated with cognitive improvement after uncomplicated carotid endarterectomy: tract-based spatial statistics analysis. Neurosurgery. 73:592-8 (2013) ④Kamagata K, Tomiyama H, Motoi Y, Kano M, Abe O, Ito K, Shimoji K, Suzuki M, Hori M, Nakanishi A, Kuwatsuru R, Sasai K, Aoki S, Hattori N. Diffusion kurtosis imaging of cingulate fibers in Parkinson disease: Comparison with conventional diffusion tensor imaging. Magn Reson Imaging. 31:1501-6 (2013) ⑤Hattori T, Ito K, Aoki S, Yuasa T, Sato R, Ishikawa M, Sawaura H, Hori M, Mizusawa H. White matter alteration in idiopathic normal pressure hydrocephalus: tract-based spatial statistics study. Am J Neuroradiol. 33:97-103 (2012)