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	講師	博士（医学）	脳計測科学 医用システム 生命・健康・医療情報学	①Yamashita F, Sasaki M, Fukumoto K, Otsuka K, Uwano I, Kameda H, Endoh J, Sakai A: Detection of changes in the ventral tegmental area of patients with schizophrenia using neuromelanin-sensitive MRI. Neuroreport 27(5):289-294 (2016) ②Okada N, Fukunaga M, Yamashita F, Koshiyama D, Yamamori H, Ohi K, Yasuda Y, Fujimoto M, Watanabe Y, Yahata N, Nemoto K, Hibar DP, van Erp TG, Fujino H, Isobe M, Isomura S, Natsubori T, Narita H, Hashimoto N, Miyata J, Koike S, Takahashi T, Yamasue H, Matsuo K, Onitsuka T, Iidaka T, Kawasaki Y, Yoshimura R, Watanabe Y, Suzuki M, Turner JA, Takeda M, Thompson PM, Ozaki N, Kasai K, Hashimoto R: Abnormal asymmetries in subcortical brain volume in schizophrenia. Mol Psychiatry doi: 10.1038/mp.2015.209. (2016) 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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樋口　さとみ	超高磁場MRI診断・病態研究部門	助教	博士（理学）	脳計測科学、計算論的神経科学	①Sakreida K, Higuchi S, Di Dio C, Ziessler M, Turgeon M, Roberts N, Vogt S: Cognitive Control Structures in the Imitation Learning of Spatial Sequences and Rhythms-An fMRI Study. Cereb Cortex (2017) in press ②Hidaka S, Higuchi S, Teramoto W, Sugita Y: Neural mechanisms underlying sound-induced visual motion perception: An fMRI study. Acta Psychologia. Acta Psychol (Amst) 178:66-72 (2017) ③Higuchi 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) ④Higuchi S, Chaminade T, Imamizu H, Kawato M: Shared neural correlates for language and tool use in Broca's area. Neuroreport. 20:1376-1381 (2009) ⑤Higuchi S, Imamizu H, Kawato M: Cerebellar activity evoked by common tool-use execution and imagery tasks: an fMRI study. Cortex. 43:350-358 (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） 博士（医学）	画像情報処理、情報学基礎理論	①Uwano I, Kudo K, Sato R, Ogasawara K, Kameda H, Nomura JI, Mori F, Yamashita F, Ito K, Yoshioka K, Sasaki M: Noninvasive Assessment of Oxygen Extraction Fraction in Chronic Ischemia Using Quantitative Susceptibility Mapping at 7 Tesla. Stroke 48(8):2136-2141 (2017) ②Uwano I, Sasaki M, Kudo K, Boutelier T, Kameda H, Mori F, Yamashita F: Tmax Determined Using a Bayesian Estimation Deconvolution Algorithm Applied to Bolus Tracking Perfusion Imaging: A Digital Phantom Validation Study.Magn Reson Med Sci 10;16(1):32-37 (2017) ③Uwano 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. Magn Reson Med Sci 14(1):35-41 (2015) ④Uwano 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) ⑤Uwano 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)

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伊藤　賢司	超高磁場MRI診断・病態研究部門	助教	博士（医学）	脳拡散磁気共鳴画像、放射線技術学、医用画像工学	①Ito K, Ohtsuka C, Yoshioka K, Kameda H, Yokosawa S, Sato R, Terayama Y, Sasaki M. Differential diagnosis of parkinsonism by a combiend use of diffusion kurtosis imaging and quantitative susceptibility mapping. Neuroradiology. 59:759-69 (2017) ②Ito K, Kudo M, Sasaki M, Saito A, Yamashita F, Harada T, Yokosawa S, Uwano I, Kameda H, Terayama Y. Detection of changes in the periaqueductal gray matter of patients with episodic migraine using quantitative diffusion kurtosis imaging: preliminary findings. Neuroradiology. 58:115-20 (2016) ③Ito K, Sasaki M, Ohtsuka C, Yokosawa S, Harada T, Uwano I, Yamashita F, Higuchi S, Terayama Y. Differentiation among parkinsonisms using quantitative diffusion kurtosis imaging. Neuroreport. 26:267-72 (2015) ④Ito K, Sasaki M, Takahashi J, Uwano I, Yamashita F, Higuchi S, Goodwin J, Harada T, Kudo K, Terayama Y. Detection of early changes in the parahippocampal and posterior cingulum bundles during mild cognitive impairment by using high-resolution multi-parametric diffusion tensor imaging. Psychiatry Res. 231:346-52 (2015) ⑤Ito 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)