

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	特任教授	博士（医学）	放射線科学、神経放射線診断学、磁気共鳴医学	<p>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)</p> <p>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)</p> <p>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)</p> <p>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)</p> <p>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)</p>
工藤 與亮	超高磁場MRI診断・病態研究部門	講師	博士（医学）	放射線科学、神経放射線診断、磁気共鳴医学	<p>①最先端・次世代研究開発支援プログラム（研究代表者：工藤與亮）「課題名：水分子プローブと位相変動を利用した次世代非侵襲的脳血流代謝MRI検査法の開発」2010～2014年（補助金額：180,700千円）</p> <p>②Kudo K, Sasaki M, Ostergaard L, Christensen S, Uwano I, Suzuki M, Ogasawara K, Shirato H, Ogawa A: Susceptibility of Tmax to tracer delay on perfusion analysis: quantitative evaluation of various deconvolution algorithms using digital phantoms. J Cereb Blood Flow Metab. 31:908-912 (2011)</p> <p>③Fujima N, Kudo K, Terae S, Ishizaka K, Yazu R, Zaitzu Y, Tha KK, Yoshida D, Tsukahara A, Haacke ME, Sasaki M, Shirato H: Non-invasive measurement of oxygen saturation in the spinal vein using SWI: quantitative evaluation under conditions of physiological and caffeine load. Neuroimage. 54:344-349 (2011)</p> <p>④Kudo K, Sasaki M, Yamada K, Momoshima S, Utsunomiya H, Shirato H, Ogasawara K: Differences in CT perfusion maps generated by different commercial software: quantitative analysis by using identical source data of acute stroke patients. Radiology. 254:200-209 (2010)</p> <p>⑤Kudo K, Sasaki M, Ogasawara K, Terae S, Ehara S, Shirato H: Difference in tracer delay-induced effect among deconvolution algorithms in CT perfusion analysis: quantitative evaluation with digital phantoms. Radiology. 251:241-249 (2009)</p>

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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	<p>①Matsuda H, Mizumura S, Nemoto K, Yamashita F, Imabayashi E, Sato N, Asada T: Automatic voxel-based morphometry of structural MRI by SPM8 plus diffeomorphic anatomic registration through exponentiated lie algebra improves the diagnosis of probable Alzheimer Disease. AJNR Am J Neuroradiol. 33:1109-14 (2012).</p> <p>②Yamashita 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)</p> <p>③Hashimoto R, Hirata Y, Asada T, Yamashita F, Nemoto K, Mori T, Moriguchi Y, Kunugi H, Arima K, Ohnishi T: Effect of the brain-derived neurotrophic factor and the apolipoprotein E polymorphisms on disease progression in preclinical Alzheimer's disease. Genes Brain Behav. 8:43-52. (2009)</p> <p>④Hirao K, Ohnishi T, Hirata Y, Yamashita F, Mori T, Moriguchi Y, Matsuda H, Nemoto K, Imabayashi E, Yamada M, Iwamoto T, Arima K, Asada T: The prediction of rapid conversion to Alzheimer's disease in mild cognitive impairment using regional cerebral blood flow SPECT. Neuroimage. 28:1014-21. (2005)</p> <p>⑤Hirata Y, Matsuda H, Nemoto K, Ohnishi T, Hirao K, Yamashita F, Asada T, Iwabuchi S, Samejima H: Voxel-based morphometry to discriminate early Alzheimer's disease from controls. Neurosci Lett. 382:269-74. (2005)</p>
ジョナサン グッドウィン	超高磁場MRI診断・病態研究部門	助教（任期付）	博士	放射線科学、神経放射線診断、磁気共鳴医学	<p>①Koda S, Goodwin J, Khramtsov VV, Fujii H, Hirata H: EPR-based pH mapping with a method of partially scanned spectral-spatial imaging. AnalChem_84_3833-3837(2012)</p> <p>②Ohfuchi M, Goodwin JA, Fujii H, Hirata H: Automatic Alignment Technique in EPR/NMR Co-registration Imaging based on MATLAB software - in press: Concepts in Magnetic Resonance Part B Magnetic Resonance Engineering</p> <p>③Mohtasib RS, Lumley G, Goodwin JA, Emsley HC, Sluming V, Parkes LM: Calibrated fMRI during a cognitive Stroop task reveals reduced metabolic response with increasing age; Article in- press Neuroimage July 2011</p> <p>④Goodwin JA, Urayama S, Aso K, Fukuyama H, Parkes LM: Comparison of hypercapnia and hyperoxia BOLD calibration techniques' to be submitted to Neuroimage - in revision</p> <p>⑤Goodwin JA, Bulte D, Balanos G, Vidyasagar R, Parkes LM: Quantitative fMRI using hyperoxia calibration: reproducibility during a cognitive Stroop task, Neuroimage 2009 Aug 15;47(2):573-80. Epub 2009 May 3.</p>