

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	<p>① Toyoda K, Inoue M, Yoshimura S, Yamagami H, Sasaki M, Fukuda-Doi M, Kimura K, Asakura K, Miwa K, Kanzawa T, Ihara M, Kondo R, Shiozawa M, Ohtaki M, Kamiyama K, Itabashi R, Iwama T, Aoki J, Minematsu K, Yamamoto H, Koga M; THAWS trial investigators: Magnetic Resonance Imaging-Guided Thrombolysis (0.6 mg/kg) Was Beneficial for Unknown Onset Stroke Above a Certain Core Size: THAWS RCT Substudy. Stroke. 52(1):12-19 (2021)</p> <p>② Suzuki T, Natori T, Sasaki M, Miyazawa H, Narumi S, Ito K, Kamada A, Yoshida M, Tsuda K, Yoshioka K, Terayama Y: Evaluating recanalization of relevant lenticulostriate arteries in acute ischemic stroke using high-resolution MRA at 7T. Int J Stroke. (2020, Epub)</p> <p>③ Sasaki Y, Ito K, Fukumoto K, Kawamura H, Oyama R, Sasaki M, Baba T: Cerebral diffusion kurtosis imaging to assess the pathophysiology of postpartum depression. Sci Rep. 21;10(1):15391 (2020)</p> <p>④ Miyazawa H, Natori T, Kameda H, Sasaki M, Ohba H, Narumi S, Ito K, Sato M, Suzuki T, Tsuda K, Yoshioka K, Terayama Y: Detecting lenticulostriate artery lesions in patients with acute ischemic stroke using high-resolution MRA at 7T. Int J Stroke. 14(3):290-297 (2019)</p> <p>⑤ Yoshimura S, Sakai N, Uchida K, Yamagami H, Ezura M, Okada Y, Kitagawa K, Kimura K, Sasaki M, Tanahashi N, Toyoda K, Furui E, Matsumaru Y, Minematsu K, Morimoto T: Endovascular Therapy in Ischemic Stroke With Acute Large-Vessel Occlusion: Recovery by Endovascular Salvage for Cerebral Ultra-Acute Embolism Japan Registry 2. J Am Heart Assoc. 25;7(9):e008796 (2018)</p>
山下 典生	超高磁場MRI診断・病態研究部門	准教授	博士(医学)	医用画像、画像処理、画像診断システム	<p>① Yamashita 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)</p> <p>② Yamashita 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)</p> <p>③ Maikusa 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)</p> <p>④ Yamashita 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(5):381-386 (2010)</p> <p>⑤ 特許第6211211号「名称：磁気共鳴イメージング装置用ファントム」</p>

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上野 育子	超高磁場MRI診断・病態研究部門	講師	博士（ソフトウェア情報学） 博士（医学）	医用画像、画像処理、画像診断システム	<p>① Yoshida K, Uwano I, Sasaki M, Takahashi O, Sakai N, Tsuruta W, Nakase H, Ogasawara K, Osato T, Takahashi JC, Hatano T, Kinouchi H, Miyamoto S; SUAVE-PEGASUS trial Investigators: Small Unruptured Aneurysm Verification-prevention Effect against Growth of Cerebral Aneurysm Study Using Statin. <i>Neurol Med Chir (Tokyo)</i>. 61(7):442-451 (2021)</p> <p>② Uwano I, Kameda H, Harada T, Kobayashi M, Yanagihara W, Setta K, Ogasawara K, Yoshioka K, Yamashita F, Mori F, Matsuda T, Sasaki M: Detection of impaired cerebrovascular reactivity in patients with chronic cerebral ischemia using whole-brain 7T MRA. <i>J Stroke Cerebrovasc Dis</i>. 29(9):105081 (2020)</p> <p>③ Fujimoto K, Uwano I, Sasaki M, Oshida S, Tsutsui S, Yanagihara W, Fujiwara S, Kobayashi M, Kubo Y, Yoshida K, Terasaki K, Ogasawara K: Acetazolamide-loaded dynamic 7T MR quantitative susceptibility mapping in major cerebral artery steno-occlusive disease: comparison with PET. <i>AJNR Am J Neuroradiol</i>. 41(5):785-791 (2020)</p> <p>④ Nomura JI, Uwano I, Sasaki M, Kudo K, Yamashita F, Ito K, Fujiwara S, Kobayashi M, Ogasawara K: Preoperative cerebral oxygen extraction fraction imaging generated from 7T MR quantitative susceptibility mapping predicts development of cerebral hyperperfusion following carotid endarterectomy. <i>AJNR Am J Neuroradiol</i>. 38(12):2327-2333 (2017)</p> <p>⑤ Uwano 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. <i>Stroke</i>. 48(8):2136-2141 (2017)</p>
松田 豪	超高磁場MRI診断・病態研究部門	助教	修士(医科学)	医用画像、画像診断システム、生体計測	<p>① Setta K, Matsuda T, Sasaki M, Chiba T, Fujiwara S, Kobayashi M, Yoshida K, Kubo Y, Suzuki M, Yoshioka K, Ogasawara K: Diagnostic Accuracy of Screening Arterial Spin-Labeling MRI Using Hadamard Encoding for the Detection of Reduced CBF in Adult Patients with Ischemic Moyamoya Disease. <i>AJNR Am J Neuroradiol</i>. 42(8):1403-1409 (2021)</p> <p>② Matsuda T, Uwano I, Iwadate Y, Yoshioka K, Sasaki M.: Spatial and temporal variations of flip-angle distributions in the human brain using an eight-channel parallel transmission system at 7T: comparison of three radiofrequency excitation methods. <i>Radiol Phys Technol</i>. 14(2):161-166 (2021)</p> <p>③ Ishida S, Kimura H, Isozaki M, Takei N, Fujiwara Y, Kanamoto M, Kosaka N, Matsuda T, Kidoya E: Robust arterial transit time and cerebral blood flow estimation using combined acquisition of Hadamard-encoded multi-delay and long-labeled long-delay pseudo-continuous arterial spin labeling: a simulation and in vivo study. <i>NMR Biomed</i>. 33(8):e4319 (2020)</p> <p>④ Matsuda T, Kimura H, Kabasawa H, Kanamoto M: Three-dimensional arterial spin labeling imaging with a DANTE preparation pulse. <i>Magn Reson Imaging</i>. 49:131-137 (2018)</p> <p>⑤ Kameda H, Kudo K, Matsuda T, Harada T, Iwadate Y, Uwano I, Yamashita F, Yoshioka K, Sasaki M, Shirato H: Improvement of the repeatability of parallel transmission at 7T using interleaved acquisition in the calibration scan. <i>J Magn Reson Imaging</i>. 48(1):94-101 (2018)</p>

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森 太志	超高磁場MRI診断・病態研究部門	助教	博士(情報科学)	数値流体力学解析、 バイオメカニクス、 画像処理	<p>① Mori F, Kaneko A, Matsuzawa T, Nishimura T: Computational fluid dynamics simulation wall model predicting air temperature of the nasal passage for nonhuman primates. Am J Phys Anthropol. 174(4): 839-845 (2021)</p> <p>② Mori F, Ishida F, Natori T, Miyazawa H, Kameda H, Harada T, Yoshioka K, Yamashita F, Uwano I, Ito K, Sasaki M: Computational fluid dynamics analysis of lateral striate arteries in acute ischemic stroke using 7T high-resolution magnetic resonance angiography. J Stroke Cerebrovasc Dis. 28(11):104339 (2019)</p> <p>③ Oshida S, Mori F, Sasaki M, Sato Y, Kobayashi M, Yoshida K, Fujiwara S, Ogasawara K: Wall shear stress and T1 contrast ratio are associated with embolic signals during carotid exposure in endarterectomy. Stroke. 49(9):2061-2066 (2018)</p> <p>④ Mori F, Hanida S, Kumahata K, Miyabe-Nishiwaki T, Suzuki J, Matsuzawa T, Nishimura T: Minor contributions of the maxillary sinus to the air-conditioning performance in macaque monkeys. J Exp Biol. 218(Pt15):2394-2401 (2015)</p> <p>⑤ Mori F, Ohta M, Matsuzawa T: Changes in blood flow due to stented parent artery expansion in an intracranial aneurysm. Technol Health Care. 23(1):9-21 (2015)</p>