

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 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>② Yoshida J, Yamashita F, Sasaki M, Yoshioka K, Fujiwara S, Kobayashi M, Yoshida K, Kubo Y, Ogasawara K: Adverse effects of pre-existing cerebral small vessel disease on cognitive improvement after carotid endarterectomy. Int J Stroke. 15(6):657-665 (2020)</p> <p>③ 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>④ 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>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. Stroke. 48(8):2136-2141 (2017)</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 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. J Stroke Cerebrovasc Dis. 29(9):105081 (2020)</p> <p>② 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. AJNR Am J Neuroradiol. 41(5):785-791 (2020)</p> <p>③ Todate Y, Uwano I, Yashiro S, Chida A, Hasegawa Y, Oda T, Nagasawa K, Honma H, Sasaki M, Ishigaki Y: High prevalence of cerebral small vessel disease on 7T magnetic resonance imaging in familial hypercholesterolemia. J Atheroscler Thromb. 26(12):1045-1053 (2019)</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. AJNR Am J Neuroradiol. 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. Stroke. 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 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. NMR Biomed. 33(8):e4319 (2020)</p> <p>② Kanazawa Y, Matsumoto Y, Harada M, Hayashi H, Matsuda T, Otsuka H: Appropriate echo time selection for quantitative susceptibility mapping. Radiol Phys Technol. 12(2):185-193 (2019)</p> <p>③ Matsuda T, Kimura H, Kabasawa H, Kanamoto M: Three-dimensional arterial spin labeling imaging with a DANTE preparation pulse. Magn Reson Imaging. 49:131-137 (2018)</p> <p>④ Kosaka N, Fujiwara Y, Kurokawa T, Matsuda T, Kanamoto M, Takei N, Takata K, Takahashi J, Yoshida Y, Kimura H: Evaluation of retained products of conception using pulsed continuous arterial spin-labeling MRI: clinical feasibility and initial results. MAGMA. 31(4):577-584 (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. J Magn Reson Imaging. 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、 医用画像、画像処理	<p>① 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>② 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>③ 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>④ 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> <p>⑤ Mori F, Hanida S, Ohta M, Matsuzawa T: Effect of parent artery expansion by stent placement in cerebral aneurysms. Technol Health Care. 22(2):209-223 (2014)</p>