

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MR I 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	① Tanaka K, Miwa K, Koga M, Yoshimura S, Kamiyama K, Yagita Y, Nagakane Y, Hoshino H, Terasaki T, Okada Y, Yakushiji Y, Takahashi S, Ueda T, Hasegawa Y, Shiozawa M, Sasaki M, Kudo K, Tanaka J, Nishihara M, Yamaguchi Y, Fujita K, Honda Y, Kawano H, Ide T, Yoshimoto T, Ihara M, Hirano T, Toyoda K; Bleeding with Antithrombotic Therapy 2 Investigators: Cerebral small vessel disease burden for bleeding risk during antithrombotic therapy: Bleeding with Antithrombotic Therapy 2 Study. Ann Neurol. 95(4):774-787 (2024) ② Ikebe Y, Sato R, Amemiya T, Udo N, Matsushima M, Yabe I, Yamaguchi A, Sasaki M, Harada M, Matsukawa N, Kawata Y, Bito Y, Shirai T, Ochi H, Kudo K: Prediction of amyloid positron emission tomography positivity using multiple regression analysis of quantitative susceptibility mapping. Magn Reson Imaging. 103:192-197 (2023) ③ Sato R, Kudo K, Udo N, Matsushima M, Yabe I, Yamaguchi A, Tha KK, Sasaki M, Harada M, Matsukawa N, Amemiya T, Kawata Y, Bito Y, Ochi H, Shirai T: A diagnostic index based on quantitative susceptibility mapping and voxel-based morphometry may improve early diagnosis of Alzheimer's disease. Eur Radiol. 32(7):4479-4488 (2022) ④ 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) ⑤ 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. 16(9):1039-1046 (2021)
山下 典生	超高磁場MR I 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	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) 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) 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) 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) 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」

上野 育子	超高磁場MR I 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	① Yabuki M, Akamatsu Y, Uwano I, Mori F, Sasaki M, Yoshioka K, Chida K, Kobayashi M, Fujiwara S, Ogasawara K: Association between preoperative cortical magnetic susceptibility and postoperative changes in the cerebral blood flow on cognitive improvement following carotid endarterectomy. Cerebrovasc Dis. (2024 Epub) ② Takahashi T, Uwano I, Akamatsu Y, Chida K, Kobayashi M, Yoshida K, Fujiwara S, Kubo Y, Sasaki M, Ogasawara K: Prediction of cerebral hyperperfusion following carotid endarterectomy using intravoxel incoherent motion magnetic resonance imaging. J Stroke Cerebrovasc Dis. 32(2):106909 (2023) ③ Uwano I, Kobayashi M, Setta K, Ogasawara K, Yamashita F, Mori F, Matsuda T, Sasaki M: Assessment of impaired cerebrovascular reactivity in chronic cerebral ischemia using intravoxel incoherent motion magnetic resonance imaging. J Stroke Cerebrovasc Dis. 30(12):106107 (2021) ④ 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) 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. Strok. 48(8):2136-2141 (2017)
松田 豪	超高磁場MR I 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	① Matsuda T, Iwadate Y, Mori F, Takeda K, Sasaki M: Using phase difference information to detect errors in the flip angle measured with actual flip angle imaging at 7T. Magn Reson Med Sci. 23(1):102-109 (2024) ② 松田 豪: FID-AによるLCModel basis-set作成. 第34回臨床MR脳機能研究会. 東京 (2023) ③ Igarashi S, Chida K, Matsuda T, Takeda K, Hayakawa S, Tsutsui S, Fujiwara S, Kubo Y, Sasaki M, Ogasawara K: Assessment of magnetic field interactions and heating for cerebral aneurysm flow diverters during 7T MRI. Neuroradiology. 65(12):1809-1812 (2023) ④ Ishida S, Kimura H, Takei N, Fujiwara Y, Matsuda T, Kanamoto M, Matta Y, Kosaka N, Kidoya E: Separating spin compartments in arterial spin labeling using delays alternating with nutation for tailored excitation (DANTE) pulse: a validation study using T2 -relaxometry and application to arterial cerebral blood volume imaging. Magn Reson Med. 87(3):1329-1345 (2022) ⑤ 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. Radiol Phys Technol. 14(2):161-166 (2021)

森 太志	超高磁場MR I 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	① Dobashi K, Akamatsu Y, Yoshida J, Chida K,Koji T,Mori F,Yoshida K, Kubo Y, Sasaki M,Ogasawara K: Flow diversion effect in a saphenous vein graft aneurysm using a double-layer micromesh stent: a case report. Oper Neurosurg (Hagerstown). (2024 Epub) ② Shozushima M, Mori F, Yashiro S, Todate Y, Oda T,Nagasawa K, Hasegawa Y, Takebe N, Sasaki M, Ishigaki Y: Evaluation of high intracranial plaque prevalence in type 2 diabetes using vessel wall imaging on 7 T magnetic resonance imaging. Brain Sci. 13(2): 217 (2023) ③ 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) ④ 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) ⑤ Oshida S, Mori F, Sasaki M, Sato Y, Kobayshi 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)
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