



Michael Moseley

Professor of Radiology (Radiological Sciences Lab)

 NIH Biosketch available Online

Bio

BIO

Mike Moseley has been a Professor of Radiology in the Radiological Sciences Laboratory at the Stanford University Lucas Center since 1993, before which he was in Radiology at UCSF during the rapid rise of MR in the 1980's. His doctorate from Uppsala University Sweden in 1980 and postdoctoral work at the Weizmann Institute in Israel until 1982 focused on using diffusion NMR to investigate biological structures from proton relaxation and diffusion dynamics. A member of the early SMRM and the SMRI, he has been active in guiding MR societies, serving as the first Annual Meeting Program Chair for the newly merged ISMRM in 1996 and becoming an ISMRM Fellow in 1998. He also co-founded the DWI PWI Study Group within the ISMRM. He was awarded the ISMRM Gold Medal in 2001 for his pioneering work in diffusion MRI. Elected to the ISMRM Board in 2002, he served as the 2003-2004 President of the ISMRM for the Kyoto Japan meeting. In 2007, he was recognized as an Honorary Member of the Society for Magnetic Resonance Technologists (SMRT). In 2014, Dr. Moseley was elected as the Cruse-Kressel Awardee by the SMRT.

Dr. Moseley has served on a variety of editorial boards and has co-authored three books, 30 book chapters and over 480 articles together with many meeting scientific abstracts and invited lectures. With an H-Index of 82, his articles have been cited over 23,000 times. His primary current research interests have centered on developing MR methods to detect the earliest events of experimental and clinical cerebral vascular diseases using functional neuroimaging (DWI, PWI, and fMRI) methods. As one of the first investigators in vascular MR using blood-pool agents and stereoscopic MR, Dr. Moseley was the first to show in 1989 that mapping white matter fiber orientation using diffusion MRI was a novel measure of neuroimaging and now later as a means of mapping cognitive performance. He has participated in regional and international SMRT and ISMRM Outreach meetings, co-authored and reviewed for the SMRT Home Studies, and directs a Stanford summer course hosted for the Japanese Society of Radiological Technologists (JSRT).

ACADEMIC APPOINTMENTS

- Professor, Radiology
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

- Gold Medal, International Society of Magnetic Resonance in Medicine (2000)

- President, ISMRM (2004)
- Fellow of the ISMRM, International Society of Magnetic Resonance in Medicine (1998)
- Honorary Member SMRT, Society of Magnetic Resonance Technologists (2007)
- Crues-Kressel Award, Society of Magnetic Resonance Technologists (2014)

PROFESSIONAL EDUCATION

- PhD, Uppsala University , Physical Chemistry (1980)

LINKS

- Michael Moseley RSL Site: <http://rsl.stanford.edu/moseley/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My interests involve research and diagnosis of disease states using new techniques of magnetic resonance (MR) in research and clinical. Water diffusion-sensitive MR imaging of the brain and other tissues. Mapping brain water diffusion has revolutionized our knowledge of the onset and evolution of cerebral stroke, making the MR scanner a potential "operating room" of choice for early and effective treatment of stroke and vascular disease. Because these diffusion and blood flow maps can be rapidly acquired, rapid identification of tissues that are in need of thrombolytic therapy or cytotoxic protection in the first critical hours following stroke or during surgery can be made. This non-invasive mapping of water motion and diffusion represents a new field of imaging and has created a breakthrough in assessment and treatment in stroke.

Teaching

COURSES

2025-26

- Probes and Applications for Multi-modality Molecular Imaging of Living Subjects: BIOE 224, BMP 224, RAD 224 (Win)

2024-25

- Probes and Applications for Multi-modality Molecular Imaging of Living Subjects: BIOE 224, BMP 224, RAD 224 (Win)

2023-24

- Probes and Applications for Multi-modality Molecular Imaging of Living Subjects: BIOE 224, BMP 224, RAD 224 (Win)

2022-23

- Physics and Engineering Principles of Multi-modality Molecular Imaging of Living Subjects: BIOE 222, BMP 222, RAD 222 (Aut)
- Probes and Applications for Multi-modality Molecular Imaging of Living Subjects: BIOE 224, BMP 224, RAD 224 (Win)

Publications

PUBLICATIONS

- **Both Infarcted and Noninfarcted Brain Regions Contribute to Deep Learning-Based MRI Prediction of Acute Stroke Outcome.** *AJNR.*
American journal of neuroradiology
Liu, Y., Jiang, B., van Voorst, H., Yu, Y., Li, S., Feng, H., Zhang, Z., Luo, S., Liebeskind, D. S., Moseley, M. E., Albers, G., Wintermark, M., Lansberg, et al
2025
- **A Novel Method in PET Image Reconstruction Using MRI Anatomical Priors.** *IEEE transactions on radiation and plasma medical sciences*
Khalighi, M. M., Young, C. B., Spangler-Bickell, M. G., Deller, T. W., Jansen, F., Holley, D., Vossler, H., Zhao, M., Kogan, F., Steinberg, G., Mormino, E., Moseley, M., Zaharchuk, et al

2025; 9 (8): 1074-1082

- **A Novel Method in PET Image Reconstruction Using MRI Anatomical Priors** *IEEE TRANSACTIONS ON RADIATION AND PLASMA MEDICAL SCIENCES*
Khalighi, M., Young, C. B., Spangler-Bickell, M. G., Deller, T. W., Jansen, F., Holley, D., Vossler, H., Zhao, M. Y., Kogan, F., Steinberg, G., Mormino, E., Moseley, M., Zaharchuk, et al
2025; 9 (8): 1074-1082
- **Age-related changes in cerebral blood flow and arterial transit time in children: insights from single- and multi-delay ASL.** *Neuroradiology*
Przyaszniuk, Y., Duarte Armindo, R., Alexander, S., Moseley, M., Yeom, K. W., Otáhal, J., Kynčl, M., Tong, E., Petr, J., Zhao, M. Y., Steinberg, G. K.
2025
- **Comparative Evaluation of Single- and Multi-Delay Arterial Spin Labeling MRI in Preterm Neonates.** *NeuroImage*
Przyaszniuk, Y., Alexander, S., Armindo, R. D., Tong, E., Yeom, K. W., Otáhal, J., Kynčl, M., Moseley, M., Petr, J., Zhao, M. Y., Steinberg, G. K.
2025: 121511
- **Characterizing pre- and post-operative cerebral blood flow and transit time in pediatric moyamoya patients using multi-delay ASL and DSC MRI.** *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*
Zhao, M. Y., Alexander, S., Lopez, C. A., Zhang, H., Morton, G., Armindo, R. D., Yeom, K. W., Tong, E., Soares, B. P., Lee, S., Moseley, M., Steinberg, G. K.
2025: 271678X251358979
- **MRI detection of senescent cells in porcine knee joints with a β -galactosidase responsive Gd-chelate.** *Npj imaging*
Nernekli, K., Mangarova, D. B., Suryadevara, V., Hajipour, M., Tang, J. H., Wang, J., Liang, T., Harris, M., Ueyama, T., Lyons, J. K., Moseley, M. E., Roudi, R., Pisani, et al
2025; 3 (1): 18
- **Evaluating Vascular Hemodynamics in Cerebral Proliferative Angiopathy Using Advanced Arterial Spin Labeling MRI** *STROKE-VASCULAR AND INTERVENTIONAL NEUROLOGY*
Armindo, R., Zhao, M., Alexander, S., Tong, E., Yeom, K., Moseley, M., Vilela, P., Steinberg, G.
2025; 5 (2)
- **Evaluating Vascular Hemodynamics in Cerebral Proliferative Angiopathy Using Advanced Arterial Spin Labeling MRI.** *Stroke (Hoboken, N.J.)*
Duarte Armindo, R., Zhao, M., Alexander, S., Tong, E., Yeom, K., Moseley, M., Vilela, P., Steinberg, G.
2025; 5 (2): e001552
- **Prediction of Ischemic Stroke Functional Outcomes from Acute-Phase Noncontrast CT and Clinical Information.** *Radiology*
Liu, Y., Yu, Y., Ouyang, J., Jiang, B., Ostmeier, S., Wang, J., Lu-Liang, S., Yang, Y., Yang, G., Michel, P., Liebeskind, D. S., Lansberg, M., Moseley, et al
2024; 313 (1): e240137
- **An international study presenting a federated learning AI platform for pediatric brain tumors.** *Nature communications*
Lee, E. H., Han, M., Wright, J., Kuwabara, M., Mevorach, J., Fu, G., Choudhury, O., Ratan, U., Zhang, M., Wagner, M. W., Goetti, R., Toescu, S., Perreault, et al
2024; 15 (1): 7615
- **Cerebroventricular deformation and vector mapping, a topographic visualizer for surgical interventions in pediatric hydrocephalus.** *Journal of neurosurgery. Pediatrics*
Yeom, K. W., Zhang, M., Lee, E. H., Duh, A. K., Beres, S. J., Prolo, L. M., Lober, R. M., Moss, H. E., Moseley, M. E., Forkert, N. D., Wilms, M., Grant, G. A.
2024: 1-9
- **The promise of Confident AI denoising to make short half-life 15O-water brain PET imaging feasible**
Sanaat, A., Khalighi, M., Hussein, R., Zhao, M., Zaidi, H., Moseley, M., Zaharchuk, G.
SOC NUCLEAR MEDICINE INC.2024
- **Random expert sampling for deep learning segmentation of acute ischemic stroke on non-contrast CT.** *Journal of neurointerventional surgery*
Ostmeier, S., Axelrod, B., Liu, Y., Yu, Y., Jiang, B., Yuen, N., Pulli, B., Verhaaren, B. F., Kaka, H., Wintermark, M., Michel, P., Mahammed, A., Federau, et al
2024

- **Turning brain MRI into diagnostic PET: 15O-water PET CBF synthesis from multi-contrast MRI via attention-based encoder-decoder networks.** *Medical image analysis*
Hussein, R., Shin, D., Zhao, M. Y., Guo, J., Davidzon, G., Steinberg, G., Moseley, M., Zaharchuk, G.
2023; 93: 103072
- **Early-Frame [18F]Florbetaben PET/MRI for Cerebral Blood Flow Quantification in Patients with Cognitive Impairment: Comparison to an [15O]Water Gold Standard.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
Fettahoglu, A., Zhao, M., Khalighi, M., Vossler, H., Jovin, M., Davidzon, G., Zeineh, M., Boada, F., Mormino, E., Henderson, V. W., Moseley, M., Chen, K. T., Zaharchuk, et al
2023
- **Segmenting Cervical Arteries in Phase Contrast Magnetic Resonance Imaging Using Convolutional Encoder-Decoder Networks** *APPLIED SCIENCES-BASEL*
Campbell, B., Yadav, D., Hussein, R., Jovin, M., Hoover, S., Halbert, K., Holley, D., Khalighi, M., Davidzon, G. A., Tong, E., Steinberg, G. K., Moseley, M., Zhao, et al
2023; 13 (21)
- **Short- and Long-Term MRI Assessed Hemodynamic Changes in Pediatric Moyamoya Patients After Revascularization.** *Journal of magnetic resonance imaging : JMRI*
Zhao, M. Y., Tong, E., Duarte Armindo, R., Fettahoglu, A., Choi, J., Bagley, J., Yeom, K. W., Moseley, M., Steinberg, G. K., Zaharchuk, G.
2023
- **Longitudinal alterations of cerebral blood flow in high-contact sports.** *Annals of neurology*
Karimpoor, M., Georgiadis, M., Zhao, M. Y., Goubran, M., Moein Taghavi, H., Mills, B. D., Tran, D., Mouchawar, N., Sami, S., Wintermark, M., Grant, G., Camarillo, D. B., Moseley, et al
2023
- **Measurement of Tumor T2* Relaxation Times after Iron Oxide Nanoparticle Administration.** *Journal of visualized experiments : JoVE*
Ramasamy, S. K., Roudi, R., Morakote, W., Adams, L. C., Pisani, L. J., Moseley, M., Daldrup-Link, H. E.
2023
- **Measuring Quantitative Cerebral Blood Flow in Healthy Children: A Systematic Review of Neuroimaging Techniques.** *Journal of magnetic resonance imaging : JMRI*
Zhao, M. Y., Tong, E., Duarte Armindo, R., Woodward, A., Yeom, K. W., Moseley, M. E., Zaharchuk, G.
2023
- **Effect of vitamin D supplementation on cerebral blood flow in male patients with adrenoleukodystrophy.** *Journal of neuroscience research*
Zhao, M. Y., Dahlen, A., Ramirez, N. J., Moseley, M., Van Haren, K., Zaharchuk, G.
2023
- **DEEP MOVEMENT: Deep learning of movie files for management of endovascular thrombectomy.** *European radiology*
Kelly, B., Martinez, M., Do, H., Hayden, J., Huang, Y., Yedavalli, V., Ho, C., Keane, P. A., Killeen, R., Lawlor, A., Moseley, M. E., Yeom, K. W., Lee, et al
2023
- **Multimodal In Vivo Tracking of Chimeric Antigen Receptor T Cells in Preclinical Glioblastoma Models.** *Investigative radiology*
Wu, W. E., Chang, E., Jin, L., Liu, S., Huang, C., Kamal, R., Liang, T., Aissaoui, N. M., Theruvath, A. J., Pisani, L., Moseley, M., Stoyanova, T., Paulmurugan, et al
2022
- **Revascularization improves vascular hemodynamics - a study assessing cerebrovascular reserve and transit time in Moyamoya patients using MRI.** *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*
Zhao, M. Y., Armindo, R. D., Gauden, A. J., Yim, B., Tong, E., Moseley, M., Steinberg, G. K., Zaharchuk, G.
2022: 271678X221140343
- **MRGFUS-DELIVERED FLUORESCENT EGFR/EGFRVIII ANTIBODY ENABLES THERANOSTIC IMAGING OF PEDIATRIC HIGH-GRADE GLIOMA AND PREDICTS RESPONSE TO TARGETED THERAPY**
Zhou, Q., Aryal, M., Leonel, J., Santoso, M., Zlitni, A., Vogel, H., Cayrol, R., Li, G., Moseley, M.
OXFORD UNIV PRESS INC.2022: 217
- **Automated segmentation of neck arteries on phase contrast images using deep learning**

- Campbell, B., Yadav, D., Zhao, M., Hussein, R., Moseley, M., Zaharchuk, G.
SAGE PUBLICATIONS INC.2022: 321-322
- **Automatic Lung Nodule Segmentation and Intra-Nodular Heterogeneity Image Generation.** *IEEE journal of biomedical and health informatics*
Song, J., Huang, S., Kelly, B., Liao, G., Shi, J., Wu, N., Li, W., Liu, Z., Cui, L., Lungre, M., Moseley, M. E., Gao, P., Tian, et al
2022; 26 (6): 2570-2581
 - **Using arterial spin labeling to measure cerebrovascular reactivity in Moyamoya disease: Insights from simultaneous PET/MRI.** *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*
Zhao, M. Y., Fan, A. P., Chen, D. Y., Ishii, Y., Khalighi, M. M., Moseley, M., Steinberg, G. K., Zaharchuk, G.
2022: 271678X221083471
 - **In vivo imaging of nanoparticle-labeled CAR T cells.** *Proceedings of the National Academy of Sciences of the United States of America*
Kiru, L., Zlitni, A., Tousley, A. M., Dalton, G. N., Wu, W., Lafortune, F., Liu, A., Cunanan, K. M., Nejadnik, H., Sulchek, T., Moseley, M. E., Majzner, R. G., Daldrup-Link, et al
1800; 119 (6)
 - **Multi-task Deep Learning for Cerebrovascular Disease Classification and MRI-to-PET Translation**
Hussein, R., Zhao, M. Y., Shin, D., Guo, J., Chen, K. T., Armindo, R. D., Davidzon, G., Moseley, M., Zaharchuk, G., IEEE
IEEE.2022: 4306-4312
 - **Validation of Deep Learning-based Augmentation for Reduced 18F-FDG Dose for PET/MRI in Children and Young Adults with Lymphoma.** *Radiology. Artificial intelligence*
Theruvath, A. J., Siedek, F., Yerneni, K., Muehe, A. M., Spunt, S. L., Pribnow, A., Moseley, M., Lu, Y., Zhao, Q., Gulaka, P., Chaudhari, A., Daldrup-Link, H. E.
2021; 3 (6): e200232
 - **Molecular imaging of a fluorescent antibody against epidermal growth factor receptor detects high-grade glioma.** *Scientific reports*
Zhou, Q., Vega Leonel, J. C., Santoso, M. R., Wilson, C., van den Berg, N. S., Chan, C. T., Aryal, M., Vogel, H., Cayrol, R., Mandella, M. J., Schonig, F., Lu, G., Gambhir, et al
2021; 11 (1): 5710
 - **Reproducibility of cerebrovascular reactivity measurements: A systematic review of neuroimaging techniques.** *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*
Zhao, M. Y., Woodward, A., Fan, A. P., Chen, K. T., Yu, Y., Chen, D. Y., Moseley, M. E., Zaharchuk, G.
2021: 271678X211056702
 - **How to stop using gadolinium chelates for magnetic resonance imaging: clinical-translational experiences with ferumoxytol.** *Pediatric radiology*
Daldrup-Link, H. E., Theruvath, A. J., Rashidi, A., Iv, M., Majzner, R. G., Spunt, S. L., Goodman, S., Moseley, M.
2021
 - **DualNet: a Deep Neural Network to Predict Individual Tau and Amyloid PET Images from a Combined Dose Image using the Disambiguation of Dual Dose Amyloid-Tau PET Scans Using The ADNI Dataset**
Macdonald, T., Chen, K., Koran, M., Moseley, M., Zaharchuk, G.
SOC NUCLEAR MEDICINE INC.2020
 - **High Quality Isotropic Whole-body PET Imaging Using MR Priors**
Khalighi, M., Deller, T., Spangler-Bickell, M., Wangerin, K., Holley, D., Halbert, K., Zeineh, M., Zaharchuk, G., Mormino, E., Iagaru, A., Moseley, M.
SOC NUCLEAR MEDICINE INC.2020
 - **Prognostic value of diffusion-weighted MRI for post-cardiac arrest coma.** *Neurology*
Hirsch, K. G., Fischbein, N., Mlynash, M., Kemp, S., Bammer, R., Eyngorn, I., Tong, J., Moseley, M., Venkatasubramanian, C., Caulfield, A. F., Albers, G.
2020
 - **Therapy Response Assessment of Pediatric Tumors with Whole-Body Diffusion-weighted MRI and FDG PET/MRI.** *Radiology*
Theruvath, A. J., Siedek, F. n., Muehe, A. M., Garcia-Diaz, J. n., Kirchner, J. n., Martin, O. n., Link, M. P., Spunt, S. n., Pribnow, A. n., Rosenberg, J. n., Herrmann, K. n., Gatidis, S. n., Schäfer, et al
2020: 192508

- **Brain Iron Assessment after Ferumoxytol-enhanced MRI in Children and Young Adults with Arteriovenous Malformations: A Case-Control Study.** *Radiology*
Iv, M. n., Ng, N. N., Nair, S. n., Zhang, Y. n., Lavezo, J. n., Cheshier, S. H., Holdsworth, S. J., Moseley, M. E., Rosenberg, J. n., Grant, G. A., Yeom, K. W.
2020: 200378
- **Simultaneous time of flight-MRA and T2* imaging for cerebrovascular MRI.** *Neuroradiology*
Lanzman, B. A., Huang, Y. n., Lee, E. H., Iv, M. n., Moseley, M. E., Holdsworth, S. J., Yeom, K. W.
2020
- **Identifying cardiovascular risk factors that impact cerebrovascular reactivity: An ASL MRI study.** *Journal of magnetic resonance imaging : JMRI*
Soman, S., Dai, W., Dong, L., Hitchner, E., Lee, K., Baughman, B. D., Holdsworth, S. J., Massaband, P., Bhat, J. V., Moseley, M. E., Rosen, A., Zhou, W., Zaharchuk, et al
2019
- **Quantification of Macrophages in High-Grade Gliomas by Using Ferumoxytol-enhanced MRI: A Pilot Study** *RADIOLOGY*
Iv, M., Samghabadi, P., Holdsworth, S., Gentles, A., Rezaei, P., Harsh, G., Li, G., Thomas, R., Moseley, M., Daldrup-Link, H. E., Vogel, H., Wintermark, M., Cheshier, et al
2019; 290 (1): 198–206
- **Advantages of short repetition time resting-state functional MRI enabled by simultaneous multi-slice imaging** *JOURNAL OF NEUROSCIENCE METHODS*
Jahanian, H., Holdsworth, S., Christen, T., Wu, H., Zhu, K., Kerr, A. B., Middione, M. J., Dougherty, R. F., Moseley, M., Zaharchuk, G.
2019; 311: 122–32
- **Revealing sub-voxel motions of brain tissue using phase-based amplified MRI (aMRI)** *MAGNETIC RESONANCE IN MEDICINE*
Terem, I., Ni, W. W., Goubran, M., Rahimi, M., Zaharchuk, G., Yeom, K. W., Moseley, M. E., Kurt, M., Holdsworth, S. J.
2018; 80 (6): 2549–59
- **Advantages of Short Repetition Time Resting-State Functional MRI Enabled by Simultaneous Multi-slice Imaging.** *Journal of neuroscience methods*
Jahanian, H., Holdsworth, S., Christen, T., Wu, H., Zhu, K., Kerr, A. B., Middione, M. J., Dougherty, R. F., Moseley, M., Zaharchuk, G.
2018
- **High-resolution 3D volumetric contrast-enhanced MR angiography with a blood pool agent (ferumoxytol) for diagnostic evaluation of pediatric brain arteriovenous malformations** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
Iv, M., Choudhri, O., Dodd, R. L., Vasanawala, S. S., Alley, M. T., Moseley, M., Holdsworth, S. J., Grant, G., Cheshier, S., Yeom, K. W.
2018; 22 (3): 251–60
- **Erroneous Resting-State fMRI Connectivity Maps Due to Prolonged Arterial Arrival Time and How to Fix Them** *BRAIN CONNECTIVITY*
Jahanian, H., Christen, T., Moseley, M. E., Zaharchuk, G.
2018; 8 (6): 362–70
- **Revealing sub-voxel motions of brain tissue using phase-based amplified MRI (aMRI).** *Magnetic resonance in medicine*
Terem, I., Ni, W. W., Goubran, M., Rahimi, M. S., Zaharchuk, G., Yeom, K. W., Moseley, M. E., Kurt, M., Holdsworth, S. J.
2018
- **Brain Diffusion Abnormalities in Children with Tension-Type and Migraine-Type Headaches** *AMERICAN JOURNAL OF NEURORADIOLOGY*
Santoro, J. D., Forkert, N. D., Yang, Q., Pavitt, S., MacEachern, S. J., Moseley, M. E., Yeom, K. W.
2018; 39 (5): 935–41
- **Brain Injury Lesion Imaging Using Preconditioned Quantitative Susceptibility Mapping without Skull Stripping** *AMERICAN JOURNAL OF NEURORADIOLOGY*
Soman, S., Liu, Z., Kim, G., Nemecek, U., Holdsworth, S. J., Main, K., Lee, B., Kolakowsky-Hayner, S., Selim, M., Furst, A. J., Massaband, P., Yesavage, J., Adamson, et al
2018; 39 (4): 648–53
- **High-resolution 3D volumetric contrast-enhanced MR angiography with a blood pool agent (ferumoxytol) for diagnostic evaluation of pediatric brain arteriovenous malformations.** *Journal of neurosurgery. Pediatrics*
Iv, M. n., Choudhri, O. n., Dodd, R. L., Vasanawala, S. S., Alley, M. T., Moseley, M. n., Holdsworth, S. J., Grant, G. n., Cheshier, S. n., Yeom, K. W.

2018: 1–10

- **Quantification of Macrophages in High-Grade Gliomas by Using Ferumoxytol-enhanced MRI: A Pilot Study.** *Radiology*
Iv, M. n., Samghabadi, P. n., Holdsworth, S. n., Gentles, A. n., Rezaii, P. n., Harsh, G. n., Li, G. n., Thomas, R. n., Moseley, M. n., Daldrup-Link, H. E., Vogel, H. n., Wintermark, M. n., Cheshier, et al
2018: 181204
- **Imaging of cerebrovascular reserve and oxygenation in Moyamoya disease** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
Ni, W. W., Christen, T., Rosenberg, J., Zun, Z., Moseley, M. E., Zaharchuk, G.
2017; 37 (4): 1213-1222
- **Susceptibility-Based Neuroimaging: Standard Methods, Clinical Applications, and Future Directions.** *Current radiology reports*
Soman, S., Bregni, J. A., Bilgic, B., Nemecek, U., Fan, A., Liu, Z., Barry, R. L., Du, J., Main, K., Yesavage, J., Adamson, M. M., Moseley, M., Wang, et al
2017; 5 (3)
- **Cerebral blood flow, transit time, and apparent diffusion coefficient in moyamoya disease before and after acetazolamide** *NEURORADIOLOGY*
Federau, C., Christensen, S., Zun, Z., Park, S., Ni, W., Moseley, M., Zaharchuk, G.
2017; 59 (1): 5-12
- **A PET/MR Imaging Approach for the Integrated Assessment of Chemotherapy-induced Brain, Heart, and Bone Injuries in Pediatric Cancer Survivors: A Pilot Study.** *Radiology*
Theruvath, A. J., Ilivitzki, A. n., Muehe, A. n., Theruvath, J. n., Gulaka, P. n., Kim, C. n., Luna-Fineman, S. n., Sakamoto, K. M., Yeom, K. W., Yang, P. n., Moseley, M. n., Chan, F. n., Daldrup-Link, et al
2017: 170073
- **MR Vascular Fingerprinting in Stroke and Brain Tumors Models** *SCIENTIFIC REPORTS*
LeMasson, B., Pannetier, N., Coquery, N., Boisserand, L. S., Collomb, N., Schuff, N., Moseley, M., Zaharchuk, G., Barbier, E. L., Christen, T.
2016; 6
- **Iron oxide nanoparticles inhibit tumour growth by inducing pro-inflammatory macrophage polarization in tumour tissues.** *Nature nanotechnology*
Zanganeh, S., Hutter, G., Spittler, R., Lenkov, O., Mahmoudi, M., Shaw, A., Pajarinen, J. S., Nejadnik, H., Goodman, S., Moseley, M., Coussens, L. M., Daldrup-Link, H. E.
2016; 11 (11): 986-994
- **Measuring vascular reactivity with resting-state blood oxygenation level-dependent (BOLD) signal fluctuations: A potential alternative to the breath-holding challenge?** *Journal of cerebral blood flow and metabolism*
Jahani, H., Christen, T., Moseley, M. E., Pajewski, N. M., Wright, C. B., Tamura, M. K., Zaharchuk, G.
2016
- **Amplified magnetic resonance imaging (aMRI).** *Magnetic resonance in medicine*
Holdsworth, S. J., Rahimi, M. S., Ni, W. W., Zaharchuk, G., Moseley, M. E.
2016; 75 (6): 2245-2254
- **Brain structural connectivity distinguishes patients at risk for cognitive decline after carotid interventions.** *Human brain mapping*
Soman, S., Prasad, G., Hitchner, E., Massaband, P., Moseley, M. E., Zhou, W., Rosen, A. C.
2016; 37 (6): 2185-2194
- **Imaging of cerebrovascular reserve and oxygenation in Moyamoya disease.** *Journal of cerebral blood flow and metabolism*
Ni, W. W., Christen, T., Rosenberg, J., Zun, Z., Moseley, M. E., Zaharchuk, G.
2016
- **Speeding up PET/MR for cancer staging of children and young adults.** *European radiology*
Aghighi, M., Pisani, L. J., Sun, Z., Klenk, C., Madnawat, H., Fineman, S. L., Advani, R., von Eyben, R., Owen, D., Quon, A., Moseley, M., Daldrup-Link, H. E.
2016: -?
- **The association between lesion location and functional outcome after ischemic stroke** *INTERNATIONAL JOURNAL OF STROKE*
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