Stanford

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

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)

2021-22

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

2020-21

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

Publications

PUBLICATIONS

- **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., Mahammedi, 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., Rezaii, 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., Nemec, 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., Nemec, 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., Spitler, 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*
  Jahanian, 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*
  Yassi, N., Churilov, L., Campbell, B. C., Sharma, G., Bammer, R., Desmond, P. M., Parsons, M. W., Albers, G. W., Donnan, G. A., Davis, S. M., Investigators, E. P.
  2015; 10 (8): 1270-1276

- **Intensity-Corrected Dual-Echo Echo-Planar Imaging (DE-EPI) for Improved Pediatric Brain Diffusion Imaging** *PLOS ONE*
  Yeom, K. W., Straka, M., Iv, M., Moseley, M. E., Barnes, P. D., Skare, S., Holdsworth, S. J.
  2015; 10 (6)

- **Fast susceptibility-weighted imaging with three-dimensional short-axis propeller (SAP)-echo-planar imaging.** *Journal of magnetic resonance imaging*
  Holdsworth, S. J., Yeom, K. W., Moseley, M. E., Skare, S.
  2015; 41 (5): 1447-1453

- **Noncontrast mapping of arterial delay and functional connectivity using resting-state functional MRI: A study in Moyamoya patients.** *Journal of magnetic resonance imaging*
  Christen, T., Jahanian, H., Ni, W. W., Qiu, D., Moseley, M. E., Zaharchuk, G.
  2015; 41 (2): 424-430

- **Intensity-Corrected Dual-Echo Echo-Planar Imaging (DE-EPI) for Improved Pediatric Brain Diffusion Imaging.** *PloS one*
  Yeom, K. W., Straka, M., Iv, M., Moseley, M. E., Barnes, P. D., Skare, S., Holdsworth, S. J.
  2015; 10 (6)

- **Diffusion-weighted imaging with dual-echo echo-planar imaging for better sensitivity to acute stroke.** *AJNR. American journal of neuroradiology*

Holdsworth, S. J., Yeom, K. W., Antonucci, M. U., Andre, J. B., Rosenberg, J., Aksoy, M., Straka, M., Fischbein, N. J., Bammer, R., Moseley, M. E., Zaharchuk, G., Skare, S.
2014; 35 (7): 1293-1302

- **MR Quantitative Susceptibility Imaging for the Evaluation of Iron Loading in the Brains of Patients with beta-Thalassemia Major** *AMERICAN JOURNAL OF NEURORADIOLOGY*
  Qiu, D., Chan, G. F., Chu, J., Chan, Q., Ha, S., Moseley, M. E., Khong, P.
  2014; 35 (6): 1085-1090
- **Predicting Cognitive Decline After Carotid Endarterectomy (CEA) or Carotid Artery Stenting (CAS) Using Structural Connectivity Graph Analysis**
  Soman, S., Prasad, G., Hitchner, E., Moseley, M., Rosen, A., Zhou, W.
  MOSBY-ELSEVIER.2014: 61S
- **MR vascular fingerprinting: A new approach to compute cerebral blood volume, mean vessel radius, and oxygenation maps in the human brain.** *NeuroImage*
  Christen, T., Pannetier, N. A., Ni, W. W., Qiu, D., Moseley, M. E., Schuff, N., Zaharchuk, G.
  2014; 89: 262-270
- **Ionising radiation-free whole-body MRI versus (18)F-fluorodeoxyglucose PET/CT scans for children and young adults with cancer: a prospective, non-randomised, single-centre study.** *lancet oncology*
  Klenk, C., Gawande, R., Uslu, L., Khurana, A., Qiu, D., Quon, A., Donig, J., Rosenberg, J., Luna-Fineman, S., Moseley, M., Daldrup-Link, H. E.
  2014; 15 (3): 275-285
- **Spontaneous BOLD signal fluctuations in young healthy subjects and elderly patients with chronic kidney disease.** *PloS one*
  Jahanian, H., Ni, W. W., Christen, T., Moseley, M. E., Kurella Tamura, M., Zaharchuk, G.
  2014; 9 (3)
- **Spontaneous BOLD Signal Fluctuations in Young Healthy Subjects and Elderly Patients with Chronic Kidney Disease.** *PloS one*
  Jahanian, H., Ni, W. W., Christen, T., Moseley, M. E., Kurella Tamura, M., Zaharchuk, G.
  2014; 9 (3)
- **Ferumoxytol enhanced resting state fMRI and relative cerebral blood volume mapping in normal human brain.** *NeuroImage*
  D'Arceuil, H., Coimbra, A., Triano, P., Dougherty, M., Mello, J., Moseley, M., Glover, G., Lansberg, M., Blankenberg, F.
  2013; 83: 200-209
- **High-resolution cerebral blood volume imaging in humans using the blood pool contrast agent ferumoxytol** *MAGNETIC RESONANCE IN MEDICINE*
  Christen, T., Ni, W., Qiu, D., Schmiedeskamp, H., Bammer, R., Moseley, M., Zaharchuk, G.
  2013; 70 (3): 705-710
- **An Updated Definition of Stroke for the 21st Century A Statement for Healthcare Professionals From the American Heart Association/American Stroke Association** *STROKE*
  Sacco, R. L., Kasner, S. E., Broderick, J. P., Caplan, L. R., Connors, J. J., Culebras, A., Elkind, M. S., George, M. G., Hamdan, A. D., Higashida, R. T., Hoh, B. L., Janis, L. S., Kase, et al
  2013; 44 (7): 2064-2089
- **Early Life Stress Inoculation Changes Brain Development**
  Nechvatal, J. M., Qiu, D., Buckmaster, C. L., Schatzberg, A. F., Moseley, M. E., Lyons, D. M.
  ELSEVIER SCIENCE INC.2013: 84S
- **High-resolution cerebral blood volume imaging in humans using the blood pool contrast agent ferumoxytol.** *Magnetic resonance in medicine : official journal of the Society of Magnetic Resonance in Medicine / Society of Magnetic Resonance in Medicine*
  Christen, T., Ni, W., Qiu, D., Schmiedeskamp, H., Bammer, R., Moseley, M., Zaharchuk, G.
  2012
- **Contrast-enhanced functional blood volume imaging (CE-fBVI): Enhanced sensitivity for brain activation in humans using the ultrasmall superparamagnetic iron oxide agent ferumoxytol** *NEUROIMAGE*
  Qiu, D., Zaharchuk, G., Christen, T., Ni, W. W., Moseley, M. E.
  2012; 62 (3): 1726-1731
- **CBF measurements using multidelay pseudocontinuous and velocity-selective arterial spin labeling in patients with long arterial transit delays: Comparison with xenon CT CBF** *JOURNAL OF MAGNETIC RESONANCE IMAGING*

Qiu, D., Straka, M., Zun, Z., Bammer, R., Moseley, M. E., Zaharchuk, G.
2012; 36 (1): 110-119

- **Combined spin- and gradient-echo perfusion-weighted imaging** *MAGNETIC RESONANCE IN MEDICINE*
  Schmiedeskamp, H., Straka, M., Newbould, R. D., Zaharchuk, G., Andre, J. B., Olivot, J., Moseley, M. E., Albers, G. W., Bammer, R.
  2012; 68 (1): 30-40

- **In vivo USPIO magnetic resonance imaging shows that minocycline mitigates macrophage recruitment to a peripheral nerve injury** *MOLECULAR PAIN*
  Ghanouni, P., Behera, D., Xie, J., Chen, X., Moseley, M., Biswal, S.
  2012; 8

- **Oral manganese as an MRI contrast agent for the detection of nociceptive activity** *NMR IN BIOMEDICINE*
  Jacobs, K. E., Behera, D., Rosenberg, J., Gold, G., Moseley, M., Yeomans, D., Biswal, S.
  2012; 25 (4): 563-569

- **Atrophy and dysfunction of parahippocampal white matter in mild Alzheimer's disease** *NEUROBIOLOGY OF AGING*
  Wang, C., Stebbins, G. T., Medina, D. A., Shah, R. C., Bammer, R., Moseley, M. E., deToledo-Morrell, L.
  2012; 33 (1): 43-52

- **MRI guides diagnostic approach for ischaemic stroke** *JOURNAL OF NEUROLOGY NEUROSURGERY AND PSYCHIATRY*
  Kumar, M. A., Vangala, H., Tong, D. C., Campbell, D. M., Balgude, A., Eyngorn, I., Beraud, A. S., Olivot, J. M., Hsia, A. W., Bernstein, R. A., Wijman, C. A., Lansberg, M. G., Mlynash, et al
  2011; 82 (11): 1201-1205

- **Parallel Reconstruction Using Null Operations** *MAGNETIC RESONANCE IN MEDICINE*
  Zhang, J., Liu, C., Moseley, M. E.
  2011; 66 (5): 1241-1253

- **Greater Effect of Stroke Thrombolysis in the Presence of Arterial Obstruction** *ANNALS OF NEUROLOGY*
  De Silva, D. A., Churilov, L., Olivot, J., Christensen, S., Lansberg, M. G., Mlynash, M., Campbell, B. C., Desmond, P., Straka, M., Bammer, R., Albers, G. W., Davis, S. M., Donnan, et al
  2011; 70 (4): 601-605

- **Arterial Spin-Labeling MRI Can Identify the Presence and Intensity of Collateral Perfusion in Patients With Moyamoya Disease** *STROKE*
  Zaharchuk, G., Do, H. M., Marks, M. P., Rosenberg, J., Moseley, M. E., Steinberg, G. K.
  2011; 42 (9): 2485-U183

- **Intra-arterial injection of neural stem cells using a microneedle technique does not cause microembolic strokes** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
  Chua, J. Y., Pendharkar, A. V., Wang, N., Choi, R., Andres, R. H., Gaeta, X., Zhang, J., Moseley, M. E., Guzman, R.
  2011; 31 (5): 1263-1271

- **MRI Profile of the Perihematomal Region in Acute Intracerebral Hemorrhage** *STROKE*
  Olivot, J., Mlynash, M., Kleinman, J. T., Straka, M., Venkatasubramanian, C., Bammer, R., Moseley, M. E., Albers, G. W., Wijman, C. A.
  2010; 41 (11): 2681-2683

- **Predicting white matter targets for direct neurostimulation therapy** *EPILEPSY RESEARCH*
  Rossi, M. A., Stebbins, G., Murphy, C., Greene, D., Brinker, S., Sarcu, D., TenHarmsel, A., Stoub, T., Stein, M. A., Hoeppner, T. J., Byrne, R. W., Moseley, M. E., Bammer, et al
  2010; 91 (2-3): 176-186

- **Temporal and Spatial Profile of Brain Diffusion- Weighted MRI After Cardiac Arrest** *STROKE*
  Mlynash, M., Campbell, D. M., LeProust, E. M., Fischbein, N. J., Bammer, R., Eyngorn, I., Hsia, A. W., Moseley, M., Wijman, C. A.
  2010; 41 (8): 1665-1672

- **Combined Arterial Spin Label and Dynamic Susceptibility Contrast Measurement of Cerebral Blood Flow** *MAGNETIC RESONANCE IN MEDICINE*
  Zaharchuk, G., Straka, M., Marks, M. P., Albers, G. W., Moseley, M. E., Bammer, R.
  2010; 63 (6): 1548-1556

- **Diagnostic Accuracy of MRI in Spontaneous Intra-cerebral Hemorrhage (DASH): Initial Results** *International Stroke Conference*

Wijman, C. A., Snider, R. W., Venkatasubramanian, C., Caulfield, A. F., Buckwalter, M., Eyngorn, I., Fischbein, N., Gean, A., Schwartz, N., Lansberg, M., Mlynash, M., Kemp, S., Thai, et al

LIPPINCOTT WILLIAMS & WILKINS.2010: E210–E211

- **MRI Profile of the Perihematomal Region in Acute Intracerebral Hemorrhage**

  Olivot, J., Mlynash, M., Kleinman, J. T., Straka, M., Venkatasubramanian, C., Bammer, R., Moseley, M., Albers, G. W., Wijman, C. A., DASH Investigators

  LIPPINCOTT WILLIAMS & WILKINS.2010: E343

- **Auto-Calibrated Parallel Imaging Reconstruction for Arbitrary Trajectories Using k-Space Sparse Matrices (kSPA)** *IEEE TRANSACTIONS ON MEDICAL IMAGING*

  Liu, C., Zhang, J., Moseley, M. E.

  2010; 29 (3): 950-959

- **In Vivo Generalized Diffusion Tensor Imaging (GDTI) Using Higher-Order Tensors (HOT)** *16th Annual Meeting of the International-Society-of-Magnetic-Resonance-in-Medicine*

  Liu, C., Mang, S. C., Moseley, M. E.

  WILEY-BLACKWELL.2010: 243–52

- **Improving Dynamic Susceptibility Contrast MRI Measurement of Quantitative Cerebral Blood Flow using Corrections for Partial Volume and Nonlinear Contrast Relaxivity: A Xenon Computed Tomographic Comparative Study** *JOURNAL OF MAGNETIC RESONANCE IMAGING*

  Zaharchuk, G., Bammer, R., Straka, M., Newbould, R. D., Rosenberg, J., Olivot, J., Mlynash, M., Lansberg, M. G., Schwartz, N. E., Marks, M. M., Albers, G. W., Moseley, M. E.

  2009; 30 (4): 743-752

- **Arterial Spin-Label Imaging in Patients with Normal Bolus Perfusion-weighted MR Imaging Findings: Pilot Identification of the Borderzone Sign** *RADIOLOGY*

  Zaharchuk, G., Bammer, R., Straka, M., Shankaranarayan, A., Alsop, D. C., Fischbein, N. J., Atlas, S. W., Moseley, M. E.

  2009; 252 (3): 797-807

- **Yield of combined perfusion and diffusion MR imaging in hemispheric TIA** *NEUROLOGY*

  Mlynash, M., Olivot, J., Tong, D. C., Lansberg, M. G., Eyngorn, I., Kemp, S., Moseley, M. E., Albers, G. W.

  2009; 72 (13): 1127-1133

- **Molecular Imaging and Stroke** *STROKE*

  Moseley, M. E.

  2009; 40 (3): S30-S33

- **Advances in Magnetic Resonance Neuroimaging** *NEUROLOGIC CLINICS*

  Moseley, M. E., Liu, C., Rodriguez, S., Brosnan, T.

  2009; 27 (1): 1-?

- **Positron Emission Tomography Imaging of Poststroke Angiogenesis** *STROKE*

  Cai, W., Guzman, R., Hsu, A. R., Wang, H., Chen, K., Sun, G., Gera, A., Choi, R., Bliss, T., He, L., Li, Z., Maag, A. D., Hori, et al

  2009; 40 (1): 270-277

- **Risk of Symptomatic Intracerebral Hemorrhage in Patients Treated with Intra-Arterial Thrombolysis** *CEREBROVASCULAR DISEASES*

  Singer, O. C., Berkefeld, J., Lorenz, M. W., Fiehler, J., Albers, G. W., Lansberg, M. G., Kastrup, A., Rovira, A., Liebeskind, D. S., Gass, A., Rosso, C., Derex, L., Kim, et al

  2009; 27 (4): 368-374

- **Changes in parahippocampal white matter integrity in amnestic mild cognitive impairment: A diffusion tensor imaging study** *BEHAVIOURAL NEUROLOGY*

  Rogalski, E. J., Murphy, C. M., DeToledo-Morrell, L., Shah, R. C., Moseley, M. E., Bammer, R., Stebbins, G. T.

  2009; 21 (1-2): 51-61

- **Changes in parahippocampal white matter integrity in amnestic mild cognitive impairment: a diffusion tensor imaging study.** *Behavioural neurology*

  Rogalski, E. J., Murphy, C. M., DeToledo-Morrell, L., Shah, R. C., Moseley, M. E., Bammer, R., Stebbins, G. T.

  2009; 21 (1): 51-61

- **Prefrontal Plasticity and Stress Inoculation-Induced Resilience** *DEVELOPMENTAL NEUROSCIENCE*

  Katz, M., Liu, C., Schaer, M., Parker, K. J., Ottet, M., Epps, A., Buckmaster, C. L., Bammer, R., Moseley, M. E., Schatzberg, A. F., Eliez, S., Lyons, D. M.

2009; 31 (4): 293-299

- **White Matter Anisotropy and Depression Symptoms in Patients with HIV** *JOURNAL OF NEUROPSYCHIATRY AND CLINICAL NEUROSCIENCES*
  Smith, C. A., Stebbins, G. T., Bartt, R. E., Kessler, H. A., Adeyemi, O. M., Martin, E., Bammer, R., Moseley, M. E.
  2008; 20 (4): 458-465

- **Gender Effects on HIV-Associated White Matter Alterations: A Voxel-Wise DTI Study** *BRAIN IMAGING AND BEHAVIOR*
  Smith, C. A., Stebbins, G. T., Bartt, R. E., Kessler, H. A., Adeyemi, O. M., Martin, E., Bammer, R., Moseley, M. E.
  2008; 2 (3): 177-191

- **Single-step Nonlinear diffusion tensor estimation in the presence of microscopic and macroscopic motion** *MAGNETIC RESONANCE IN MEDICINE*
  Aksoy, M., Liu, C., Moseley, M. E., Bammer, R.
  2008; 59 (5): 1138-1150

- **Optimal definition for PWI/DWI mismatch in acute ischemic stroke patients** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
  Kakuda, W., Lansberg, M. G., Thijs, V. N., Kemp, S. M., Bammer, R., Wechsler, L. R., Moseley, M. E., Parks, M. P., Albers, G. W.
  2008; 28 (5): 887-891

- **Neural progenitor cells transplanted into the uninjured brain undergo targeted migration after stroke onset** *JOURNAL OF NEUROSCIENCE RESEARCH*
  Guzman, R., Bliss, T., Angeles, A. D., Moseley, M., Palmer, T., Steinberg, G.
  2008; 86 (4): 873-882

- **Gray matter atrophy in patients with ischemic stroke with cognitive impairment** *STROKE*
  Stebbins, G. T., Nyenhuis, D. L., Wang, C., Cox, J. L., Freels, S., Bangen, K., deToledo-Morrell, L., Sripathirathan, K., Moseley, M., Turner, D. A., Gabrieli, J. D., Gorelick, P. B.
  2008; 39 (3): 785-793

- **Yield of transesophageal echocardiography in ischemic stroke patients by age and lesion pattern on diffusion-weighted MRI** *33rd International Stroke Conference*
  Campbell, D. M., Beraud, A., Mlynash, M., Schnittger, I., Eyngorn, I., Kumar, M. A., Tong, D. C., Moseley, M., Albers, G. W., Wijman, C. A.
  LIPPINCOTT WILLIAMS & WILKINS.2008: 575–76

- **Combined perfusion and diffusion MR imaging can improve diagnostic yield in hemispheric TIA**
  Mlynash, M., Tong, D. C., Lansberg, M. G., Olivot, J., Eyngorn, I., Kemp, S., Moseley, M. E., Albers, G. W.
  LIPPINCOTT WILLIAMS & WILKINS.2008: 579–80

- **MRI/MRA patterns predict the diagnostic utility of transesophageal echocardiography in patients with acute stroke**
  Kumar, M. A., Vangala, H. L., Campbell, D. M., Eyngorn, I., Belgude, A., Olivot, J., Beraud, A., Lansberg, M. G., Schnittger, I., Wijman, C. A., Tong, D. C., Mlynash, M., Moseley, et al
  LIPPINCOTT WILLIAMS & WILKINS.2008: 569

- **MRI-based diagnostic evaluation has substantial impact on final stroke diagnosis** *33rd International Stroke Conference*
  Kumar, M. A., Campbell, D. M., Vangala, H. L., Eyngorn, I., Olivot, J. M., Beraud, A. S., Belgude, A., Lansberg, M. G., Schnittger, I., Wijman, C. A., Tong, D. C., Mlynash, M., Albers, et al
  LIPPINCOTT WILLIAMS & WILKINS.2008: 569–69

- **HIV-associated alterations in normal-appearing white matter: a voxel-wise diffusion tensor imaging study.** *Journal of acquired immune deficiency syndromes*
  Stebbins, G. T., Smith, C. A., Bartt, R. E., Kessler, H. A., Adeyemi, O. M., Martin, E., Cox, J. L., Bammer, R., Moseley, M. E.
  2007; 46 (5): 564-573

- **HIV-associated alterations in normal-appearing white matter** *JAIDS-JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES*
  Stebbins, G. T., Smith, C. A., Bartt, R. E., Kessler, H. A., Adeyemi, O. M., Martin, E., Cox, J. L., Bammer, R., Moseley, M. E.
  2007; 46 (5): 564-573

- **Parallel imaging reconstruction for arbitrary trajectories using k-space sparse matrices (kSPA)** *MAGNETIC RESONANCE IN MEDICINE*
  Liu, C., Bammer, R., Moseley, M. E.
  2007; 58 (6): 1171-1181

- **Development of an intracranial lead placement planning system for strategically influencing the epileptic circuit** *61st Annual Meeting of the American-Epilepsy-Society*

Rossi, M. A., Stein, M. A., Stebbins, G., Byrne, R. W., Stoub, T. R., Hoeppner, T. H., Moseley, M. E., Bammer, R., Shields, C., Rostescu, R., Balabanov, A., Bergen, D., Kanner, et al

WILEY-BLACKWELL.2007: 303–304

- **Perfusion mapping with multiecho multishot parallel imaging EPI** *MAGNETIC RESONANCE IN MEDICINE*

  Newbould, R. D., Skare, S. T., Jochimsen, T. H., Alley, M. T., Moseley, M. E., Albers, G. W., Bammer, R.

  2007; 58 (1): 70-81

- **Long-term monitoring of transplanted human neural stem cells in developmental and pathological contexts with MRI** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

  Guzman, R., Uchida, N., Bliss, T. M., He, D., Christopherson, K. K., Stellwagen, D., Capela, A., Greve, J., Malenka, R. C., Moseley, M. E., Palmer, T. D., Steinberg, G. K.

  2007; 104 (24): 10211-10216

- **Identifying systematic errors in quantitative dynamic-susceptibility contrast perfusion imaging by high-resolution multi-echo parallel EPI** *NMR IN BIOMEDICINE*

  Jochimsen, T. H., Newbould, R. D., Skare, S. T., Clayton, D. B., Albers, G. W., Moseley, M. E., Bammer, R.

  2007; 20 (4): 429-438

- **Quantitative evaluation of the relaxivity effects of iodine on Gd-DTPA enhanced MR arthrography** *JOURNAL OF MAGNETIC RESONANCE IMAGING*

  Ganguly, A., Gold, G. E., Pauly, K. B., Mayer, D., Moseley, M. M., Pelc, N. J., Fahrig, R.

  2007; 25 (6): 1219-1225

- **Prediction of hemorrhagic transformation after ischemic stroke: Superiority of FLAIR-ADC**

  Adami, A., Thijs, V. N., Tong, D. C., Beaulieu, C., Moseley, M. E., Marks, M. P., Albers, G. W.

  LIPPINCOTT WILLIAMS & WILKINS.2007: 496

- **Optimal definition for PWI/DWI mismatch in acute ischemic stroke**

  Kakuda, W., Lansberg, M. G., Thijs, V. N., Kemp, S., Wechsler, L., Moseley, M. E., Marks, M. P., Albers, G. W.

  LIPPINCOTT WILLIAMS & WILKINS.2007: 454

- **Low ADC values predict symptomatic hemorrhagic transformation following IV-tPA at 3-6 hours**

  Adami, A., Wijman, C. A., Kakuda, W., Thijs, V. N., Lansberg, M. G., Kemp, S., Moseley, M. E., Marks, M. P., Albers, G. W.

  LIPPINCOTT WILLIAMS & WILKINS.2007: 489–90

- **Longitudinal changes in white matter following ischemic stroke: A three-year follow-up study** *NEUROBIOLOGY OF AGING*

  Wang, C., Stebbins, G. T., Nyenhuis, D. L., deToledo-Morrell, L., Freels, S., Gencheva, E., Pedelty, L., Sripathirathan, K., Moseley, M. E., Turner, D. A., Gabrieli, J. D., Gorelick, P. B.

  2006; 27 (12): 1827-1833

- **Magnetic resonance imaging profiles predict clinical response to early reperfusion: The diffusion and perfusion imaging evaluation for understanding stroke evolution (DEFUSE) study** *ANNALS OF NEUROLOGY*

  Albers, G. W., Thijs, V. N., Wechsle, L., Kemp, S., Schlaug, G., Skalabrin, E., Bammer, R., Kakuda, W., Lansberg, M. G., Shuaib, A., Coplin, W., Hamilton, S., Moseley, et al

  2006; 60 (5): 508-517

- **Proof-of-principle phase II MRI studies in stroke - Sample size estimates from dichotomous and continuous data** *STROKE*

  Donnan, G. A., Davis, S. M., Phan, T. G., Ludbrook, J., Byrnes, G., Parsons, M., Barber, A. P., Reutens, D. C., Rose, S. E., Chalk, J., Demchuk, A. M., Coutts, S. B., Simon, et al

  2006; 37 (10): 2521-2525

- **White matter changes in mild cognitive impairment and AD: A diffusion tensor imaging study** *NEUROBIOLOGY OF AGING*

  Medina, D., DeToledo-Morrell, L., Urresta, F., Gabrieli, J. D., Moseley, M., Fleischman, D., Bennett, D. A., Leurgans, S., TURNER, D. A., Stebbins, G. T.

  2006; 27 (5): 663-672

- **Efficient simulation of magnetic resonance imaging with Bloch-Torrey equations using intra-voxel magnetization gradients** *JOURNAL OF MAGNETIC RESONANCE*

  Jochimsen, T. H., Schafer, A., Bammer, R., Moseley, M. E.

  2006; 180 (1): 29-38

- **MRI of magnetically labeled human CNS stem cells after transplantation in the neonatal NOD-SCID and stroked adult rat brain**

Guzman, R., Uchida, N., Bliss, T., He, D. P., Palmer, T., Sun, G. H., Moseley, M., Steinberg, G. K.
LIPPINCOTT WILLIAMS & WILKINS.2006: 681

- **Results of the diffusion-weighted imaging evaluation for understanding stroke evolution (DEFUSE) study**
  Albers, G. W., Thijs, V. N., Wechsler, L., Kemp, S., Schlaug, G., Skalabrin, E., Bammer, R., Marks, M. P., Kakuda, W., Lansberg, M., Shuaib, A., Coplin, W., Moseley, et al
  LIPPINCOTT WILLIAMS & WILKINS.2006: 635–36

- **The utility of diffusion-weighted imaging to predict neurologic outcome in comatose patients after cardiac arrest**
  Mlynash, M., Hsia, A. W., Finley-Caulfield, A. C., Eyngorn, Bammer, R., Moseley, M., Wijman, C. A.
  LIPPINCOTT WILLIAMS & WILKINS.2006: 644

- **Simultaneous phase correction and SENSE reconstruction for navigated multi-shot DWI with non-cartesian k-space sampling** *MAGNETIC RESONANCE IN MEDICINE*
  Liu, C. L., Moseley, M. E., Bammer, R.
  2005; 54 (6): 1412-1422

- **Clinical importance of microbleeds in patients receiving IV thrombolysis** *NEUROLOGY*
  Kakuda, W., Thijs, V. N., Lansberg, M. G., Bammer, R., Wechsler, L., Kemp, S., Moseley, M. E., Marks, M. P., Albers, G. W.
  2005; 65 (8): 1175-1178

- **A comparison of CH3-DTPA-GD (NMS60) and GD-DTPA for evaluation of acute myocardial ischemia** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
  D'Arceuil, H. E., de Crespigny, A. J., Pelc, L., Howard, D., Seri, S., Hashiguchi, Y., Nakatani, A., Moseley, M. E.
  2005; 21 (5): 539-547

- **Limitations of apparent diffusion coefficient-based models in characterizing non-Gaussian diffusion** *MAGNETIC RESONANCE IN MEDICINE*
  Liu, C. L., Bammer, R., Moseley, M. E.
  2005; 54 (2): 419-428

- **Reduction in levels of matrix metalloproteinases and increased expression of tissue inhibitor of metalloproteinase-2 in response to mild hypothermia therapy in experimental stroke** *JOURNAL OF NEUROSURGERY*
  Lee, J. E., Yoon, Y. J., Moseley, M. E., Yenari, M. A.
  2005; 103 (2): 289-297

- **Automated method for generating the arterial input function on perfusion-weighted MR imaging: Validation in patients with stroke** *55th Annual Meeting of the American-Academy-of-Neurology*
  Mlynash, M., Eyngorn, I., Bammer, R., Moseley, M., Tong, D. C.
  AMER SOC NEURORADIOLOGY.2005: 1479–86

- **Foundations of advanced magnetic resonance imaging.** *NeuroRx : the journal of the American Society for Experimental NeuroTherapeutics*
  Bammer, R., Skare, S., Newbould, R., Liu, C., Thijs, V., Ropele, S., Clayton, D. B., Krueger, G., Moseley, M. E., Glover, G. H.
  2005; 2 (2): 167-196

- **High-resolution diffusion-weighted imaging with interleaved variable-density spiral acquisitions** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
  Li, T. Q., Kim, D. H., Moseley, M. E.
  2005; 21 (4): 468-475

- **Stroke initiates targeted migration of transplanted iron-labeled neural progenitor cells as revealed by magnetic resonance imaging**
  Guzman, R., Bliss, T., Greve, J., Palmer, T., Sun, G. H., Moseley, M., Steinberg, G.
  LIPPINCOTT WILLIAMS & WILKINS.2005: 469

- **Self-navigated interleaved spiral (SNAILS): Application to high-resolution diffusion tensor imaging** *MAGNETIC RESONANCE IN MEDICINE*
  Liu, C. L., Bammer, R., Kim, D. H., Moseley, M. E.
  2004; 52 (6): 1388-1396

- **An MRA study of vascular stenosis in a pig model using CH3-DTPA-Gd (NMS60) and Gd-DTPA** *MAGNETIC RESONANCE IMAGING*
  D'Arceuil, H. E., de Crespigny, A. J., Pelc, L., Howard, D., Alley, M., Seric, S., Hashiguchi, Y., Nakatani, A., Moseley, M. E.
  2004; 22 (9): 1243-1248

- **Multimodality imaging - Introduction** *24th Princeton Conference on Cerebrovascular Disease*

Moseley, M., Donnan, G.

LIPPINCOTT WILLIAMS & WILKINS.2004: 2632–34

- **Magnetic resonance imaging and surgical repair of cleft palate in a four-week-old canine (Canis familiaris): An animal model for cleft palate repair** *CONTEMPORARY TOPICS IN LABORATORY ANIMAL SCIENCE*

  Tolwani, R. J., Hagan, C. E., Runstadler, J. A., Lyons, H., Green, V. L., Bouley, D. M., Rodriguez, L. F., Schendel, S. A., Moseley, M. E., Daunt, D. A., Otto, G., CORK, L. C.

  2004; 43 (6): 17-21

- **Diffusion-weighted MR imaging in acute ischemia: Value of apparent diffusion coefficient and signal intensity thresholds in predicting tissue at risk and final infarct size** *AMERICAN JOURNAL OF NEURORADIOLOGY*

  Na, D. G., Thijs, V. N., Albers, G. W., Moseley, M. E., Marks, M. P.

  2004; 25 (8): 1331-1336

- **A comparative evaluation of CH3-DTPA-Gd (NMS60) for contrast-enhanced magnetic resonance angiography** *MAGNETIC RESONANCE IMAGING*

  Bammer, R., de Crespigny, A. J., Howard, D., Seri, S., Hashiguchi, Y., Nakatani, A., Moseley, M. E.

  2004; 22 (5): 619-624

- **Characterizing non-Gaussian diffusion by using generalized diffusion tensors** *MAGNETIC RESONANCE IN MEDICINE*

  Liu, C. L., Bammer, R., Acar, B., Moseley, M. E.

  2004; 51 (5): 924-937

- **Contributions to the field and to ISMRM** *JOURNAL OF MAGNETIC RESONANCE IMAGING*

  Moseley, M.

  2004; 19 (5): 516

- **Influence of arterial input function on hypoperfusion volumes measured with perfusion-weighted imaging** *STROKE*

  Thijs, V. N., Somford, D. M., Bammer, R., Robberecht, W., Moseley, M. E., Albers, G. W.

  2004; 35 (1): 94-98

- **Generalized reconstruction of phase contrast MRI: Analysis and correction of the effect of gradient field distortions** *MAGNETIC RESONANCE IN MEDICINE*

  Markl, M., Bammer, R., Alley, M. T., Elkins, C. J., Draney, M. T., Barnett, A., Moseley, M. E., Glover, G. H., Pelc, N. J.

  2003; 50 (4): 791-801

- **Diffusion tensor brain imaging findings at term-equivalent age may predict neurologic abnormalities in low birth weight preterm infants** *AMERICAN JOURNAL OF NEURORADIOLOGY*

  Arzoumanian, Y., Mirmiran, M., Barnes, P. D., Woolley, K., Ariagno, R. L., Moseley, M. E., Fleisher, B. E., Atlas, S. W.

  2003; 24 (8): 1646-1653

- **Analysis and generalized correction of the effect of spatial gradient field distortions in diffusion-weighted imaging** *MAGNETIC RESONANCE IN MEDICINE*

  Bammer, R., Markl, M., Barnett, A., Acar, B., Alley, M. T., Pelc, N. J., Glover, G. H., Moseley, M. E.

  2003; 50 (3): 560-569

- **Single breath-hold diffusion-weighted imaging of the abdomen** *JOURNAL OF MAGNETIC RESONANCE IMAGING*

  Chow, L. C., Bammer, R., Moseley, M. E., Sommer, F. G.

  2003; 18 (3): 377-382

- **Multilocal magnetic resonance perfusion mapping comparing the cerebral hemodynamic effects of decompressive craniectomy versus reperfusion in experimental acute hemispheric stroke in rats** *NEUROSCIENCE LETTERS*

  Engelhorn, T., Doerfler, A., de Crespigny, A., Beaulieu, C., Forsting, M., Moseley, M. E.

  2003; 344 (2): 127-131

- **White matter tract alterations in fragile X syndrome: Preliminary evidence from diffusion tensor imaging** *AMERICAN JOURNAL OF MEDICAL GENETICS PART B-NEUROPSYCHIATRIC GENETICS*

  Barnea-Goraly, N., Eliez, S., Hedeus, M., Menon, V., White, C. D., Moseley, M., Reiss, A. L.

  2003; 118B (1): 81-88

- **Diffusion tensor MRI may predict abnormal neurological outcome in preterm infants**

  Zhang, M., Mirmiran, M., Ariagno, R. L., Barnes, P., Atlas, S. W., Moseley, M. E., Fleisher, B. E.

INT PEDIATRIC RESEARCH FOUNDATION, INC.2003: 539A

- **In vivo MR tractography using diffusion imaging** *EUROPEAN JOURNAL OF RADIOLOGY*
  Bammer, R., Acar, B., Moseley, M. E.
  2003; 45 (3): 223-234
- **Line scan diffusion imaging of the spine** *AMERICAN JOURNAL OF NEURORADIOLOGY*
  Bammer, R., Herneth, A. M., Maier, S. E., Butts, K., Prokesch, R. W., Do, H. M., Atlas, S. W., Moseley, M. E.
  2003; 24 (1): 5-12
- **Yield of TEE in patients with multiple infarcts on DWI**
  Tong, D., Eyngorn, Bernstein, R., Wijman, C., Sullivan, T., Schnittger, Moseley, M.
  LIPPINCOTT WILLIAMS & WILKINS.2003: 261
- **Generalized diffusion tensor imaging (GDTI): A method for characterizing and imaging diffusion anisotropy caused by non-Gaussian diffusion** *ISRAEL JOURNAL OF CHEMISTRY*
  Liu, C. L., Bammer, R., Moseley, M. E.
  2003; 43 (1-2): 145-154
- **Diffusion assessment of the genuine need for other studies in ischemic stroke (DIAGNOSIS): Further observations** *28th International Stroke Conference*
  Tong, D., Eyngorn, I., Bernstein, R., Wijman, C., Sullivan, T., Moseley, M.
  LIPPINCOTT WILLIAMS & WILKINS.2003: 261–61
- **Diffusion-tensor imaging of cognitive performance** *BRAIN AND COGNITION*
  Moseley, M., Bammer, R., Illes, J.
  2002; 50 (3): 396-413
- **Diffusion tensor imaging and aging - a review** *NMR IN BIOMEDICINE*
  Moseley, M.
  2002; 15 (7-8): 553-560
- **Combined X-ray angiography and diffusion-perfusion MRI for studying stroke evolution after rt-PA treatment in rats** *BRAIN RESEARCH*
  Busch, E., Beaulieu, C., de Crespigny, A., Kreischer, S., Diener, H. C., Moseley, M. E.
  2002; 953 (1-2): 112-118
- **Experience-dependent asymmetric variation in primate prefrontal morphology** *BEHAVIOURAL BRAIN RESEARCH*
  Lyons, D. M., Afarian, H., Schatzberg, A. F., Sawyer-Glover, A., Moseley, M. E.
  2002; 136 (1): 51-59
- **Use of diffusion weighted MRI to predict the occurrence and severity of hemorrhagic transformation in a rabbit model of embolic stroke** *BRAIN RESEARCH*
  Adami, A., Thijs, V., Tong, D. C., Beaulieu, C., Moseley, M. E., Yenari, M. A.
  2002; 944 (1-2): 32-39
- **Diffusion tensor imaging using single-shot SENSE-EPI** *MAGNETIC RESONANCE IN MEDICINE*
  Bammer, R., Auer, M., Keeling, S. L., Augustin, M., Stables, L. A., Prokesch, R. W., Stollberger, R., Moseley, M. E., Fazekas, F.
  2002; 48 (1): 128-136
- **In vivo mapping of the fast and slow diffusion tensors in human brain** *MAGNETIC RESONANCE IN MEDICINE*
  Clark, C. A., Hedehus, M., Moseley, M. E.
  2002; 47 (4): 623-628
- **Quantitative brain magnetic resonance imaging in preterm infants may predict cerebral palsy**
  Mirmiran, M., Arzoumanian, Y. W., Barnes, P. D., Atlas, S. W., Ariagno, R. L., Fleisher, B. E., Moseley, M. E.
  INT PEDIATRIC RESEARCH FOUNDATION, INC.2002: 439A
- **Clinical and radiological correlates of reduced cerebral blood flow measured using magnetic resonance Imaging** *ARCHIVES OF NEUROLOGY*
  Thijs, V. N., Adami, A., Neumann-Haefelin, T., Moseley, M. E., Albers, G. W.
  2002; 59 (2): 233-238
- **Changes of cerebral blood flow, oxygenation, and oxidative metabolism during graded motor activation** *NEUROIMAGE*

Kastrup, A., Kruger, G., Neumann-Haefelin, T., Glover, G. H., Moseley, M. E.
2002; 15 (1): 74-82

- **Early life stress and inherited variation in monkey hippocampal volumes** *ARCHIVES OF GENERAL PSYCHIATRY*
  Lyons, D. M., Yang, C., Sawyer-Glover, A. M., Moseley, M. E., Schatzberg, A. F.
  2001; 58 (12): 1145-1151

- **Diffusion-tensor MR imaging at 1.5 and 3.0 T: Initial observations** *RADIOLOGY*
  Hunsche, S., Moseley, M. E., Stoeter, P., Hedehus, M.
  2001; 221 (2): 550-556

- **Relationship between severity of MR perfusion deficit and DWI lesion evolution** *NEUROLOGY*
  Thijs, V. N., Adami, A., Neumann-Haefelin, T., Moseley, M. E., Marks, M. P., Albers, G. W.
  2001; 57 (7): 1205-1211

- **Reversal of early diffusion-weighted magnetic resonance imaging abnormalities does not necessarily reflect tissue salvage in experimental cerebral ischemia** *STROKE*
  Ringer, T. M., Neumann-Haefelin, T., Sobel, R. A., Moseley, M. E., Yenari, M. A.
  2001; 32 (10): 2362-2369

- **Visualization of nonstructural changes in early white matter development on diffusion-weighted MR images: evidence supporting premyelination anisotropy** *AMERICAN JOURNAL OF NEURORADIOLOGY*
  Prayer, D., Barkovich, A. J., Kirschner, D. A., Prayer, L. M., Roberts, T. P., Kucharczyk, J., Moseley, M. E.
  2001; 22 (8): 1572-1576

- **Diffusion time dependence of the apparent diffusion tensor in healthy human brain and white matter disease** *MAGNETIC RESONANCE IN MEDICINE*
  Clark, C. A., Hedehus, M., Moseley, M. E.
  2001; 45 (6): 1126-1129

- **Evolution of apparent diffusion coefficient, diffusion-weighted, and T2-weighted signal intensity of acute stroke** *AMERICAN JOURNAL OF NEURORADIOLOGY*
  Lansberg, M. G., Thijs, V. N., O'Brien, M. W., Ali, J. O., de Crespigny, A. J., Tong, D. C., Moseley, M. E., Albers, G. W.
  2001; 22 (4): 637-644

- **Prediction of hemorrhagic transformation following acute stroke - Role of diffusion- and perfusion-weighted magnetic resonance imaging** *ARCHIVES OF NEUROLOGY*
  Tong, D. C., Adami, A., Moseley, M. E., Marks, M. P.
  2001; 58 (4): 587-593

- **Evolution of cerebral infarct volume assessed by diffusion-weighted magnetic resonance imaging** *ARCHIVES OF NEUROLOGY*
  Lansberg, M. G., O'Brien, M. W., Tong, D. C., Moseley, M. E., Albers, G. W.
  2001; 58 (4): 613-617

- **MRI of subacute hemorrhagic transformation in the rat suture occlusion model** *NEUROREPORT*
  Neumann-Haefelin, T., Kastrup, A., de Crespigny, A., Ringer, T. M., Sun, G. H., Yenari, M. A., Moseley, M. E.
  2001; 12 (2): 309-311

- **Equivalent disruption of regional white matter microstructure in ageing healthy men and women** *NEUROREPORT*
  SULLIVAN, E. V., Adalsteinsson, E., Hedehus, M., Ju, C., Moseley, M., Lim, K. O., Pfefferbaum, A.
  2001; 12 (1): 99-104

- **Comparison of diffusion, blood oxygenation, and blood volume changes during global ischemia in rats** *MAGNETIC RESONANCE IN MEDICINE*
  de Crespigny, A. J., Rother, R., Beaulieu, C., Neumann-Haefelin, T., Moseley, M. E.
  2001; 45 (1): 10-16

- **Assessment of cerebrovascular reactivity with functional magnetic resonance imaging: comparison of CO2 and breath holding** *MAGNETIC RESONANCE IMAGING*
  Kastrup, A., Kruger, G., Neumann-Haefelin, T., Moseley, M. E.
  2001; 19 (1): 13-20

- **MRI demonstrates that tissue-type plasminogen activator increases stroke volume if cerebral arteries are not successfully recanalized** *6th Keio-University International Symposium for Life Science and Medicine*
  Busch, E., Beaulieu, C., de Crespigny, A., Wiegand, F., Moseley, M. E.
  SPRINGER-VERLAG TOKYO.2001: 420–427

- **Diffusion- and perfusion-weighted magnetic resonance imaging of focal cerebral ischemia and cortical spreading depression under conditions of mild hypothermia** *BRAIN RESEARCH*
  Yenari, M. A., Onley, D., Hedehus, M., deCrespigny, A., Sun, G. H., Moseley, M. E., Steinberg, G. K.
  2000; 885 (2): 208-219

- **Condition number as a measure of noise performance of diffusion tensor data acquisition schemes with MRI** *JOURNAL OF MAGNETIC RESONANCE*
  Skare, S., Hedehus, M., Moseley, M. E., Li, T. Q.
  2000; 147 (2): 340-352

- **High speed diffusion magnetic resonance imaging of ischemia and spontaneous periinfarct spreading depression after thromboembolic stroke in the rat** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
  Kastrup, A., Neumann-Haefelin, T., Moseley, M. E., de Crespigny, A.
  2000; 20 (12): 1636-1647

- **Tc-99m annexin V imaging of neonatal hypoxic brain injury** *STROKE*
  D'Arceuil, H., Rhine, W., de Crespigny, A., Yenari, M., Tait, J. F., Strauss, W. H., Engelhorn, T., Kastrup, A., Moseley, M., Blankenberg, F. G.
  2000; 31 (11): 2692-2699

- **Is early ischemic lesion volume on diffusion-weighted imaging an independent predictor of stroke outcome? A multivariable analysis** *STROKE*
  Thijs, V. N., Lansberg, M. G., Beaulieu, C., Marks, M. P., Moseley, M. E., Albers, G. W.
  2000; 31 (11): 2597-2602

- **For how long is brain tissue salvageable? Imaging-based evidence.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*
  Baron, J. C., Moseley, M. E.
  2000; 9 (6): 15-20

- **Changes in baseline cerebral blood flow in humans do not influence regional cerebral blood flow response to photic stimulation** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
  Li, T. Q., Kastrup, A., Moseley, M. E., Glover, G. H.
  2000; 12 (5): 757-762

- **Relationship between apparent diffusion coefficient and subsequent hemorrhagic transformation following acute ischemic stroke** *STROKE*
  Tong, D. C., Adami, A., Moseley, M. E., Marks, M. P.
  2000; 31 (10): 2378-2384

- **Assessment of hemodynamic response during focal neural activity in human using bolus tracking, arterial spin labeling and BOLD techniques** *NEUROIMAGE*
  Li, T. Q., Haefelin, T. N., Chan, B., Kastrup, A., Jonsson, T., Glover, G. H., Moseley, M. E.
  2000; 12 (4): 442-451

- **Spinocerebellar ataxia type 8 - Clinical features in a large family** *NEUROLOGY*
  Day, J. W., Schut, L. J., Moseley, M. L., Durand, A. C., Ranum, L. P.
  2000; 55 (5): 649-657

- **Advantages of adding diffusion-weighted magnetic resonance imaging to conventional magnetic resonance imaging for evaluating acute stroke** *ARCHIVES OF NEUROLOGY*
  Lansberg, M. G., Norbash, A. M., Marks, M. P., Tong, D. C., Moseley, M. E., Albers, G. W.
  2000; 57 (9): 1311-1316

- **Spreading depression-induced expression of c-fos and cyclooxygenase-2 in transgenic mice that overexpress human copper/zinc-superoxide dismutase** *JOURNAL OF NEUROTRAUMA*
  Yrjanheikki, J., Koistinaho, J., Copin, J. C., de Crespigny, A., Moseley, M. E., Chan, P. H.
  2000; 17 (8): 713-718

- **In vivo detection and functional correlates of white matter microstructural disruption in chronic alcoholism** *ALCOHOLISM-CLINICAL AND EXPERIMENTAL RESEARCH*
  Pfefferbaum, A., SULLIVAN, E. V., Hedehus, M., Adalsteinsson, E., Lim, K. O., Moseley, M.
  2000; 24 (8): 1214-1221

- **Serial MRI after transient focal cerebral ischemia in rats - Dynamics of tissue injury, blood-brain barrier damage, and edema formation** *STROKE*
  Neumann-Haefelin, T., Kastrup, A., de Crespigny, A., Yenari, M. A., Ringer, T., Sun, G. H., Moseley, M. E.
  2000; 31 (8): 1965-1972

- **Age-related decline in brain white matter anisotropy measured with spatially corrected echo-planar diffusion tensor imaging** *MAGNETIC RESONANCE IN MEDICINE*
  Pfefferbaum, A., SULLIVAN, E. V., Hedehus, M., Lim, K. O., Adalsteinsson, E., Moseley, M.
  2000; 44 (2): 259-268

- **Spreading waves of transient and prolonged decreases in water diffusion after subarachnoid hemorrhage in rats** *MAGNETIC RESONANCE IN MEDICINE*
  Beaulieu, C., Busch, E., de Crespigny, A., Moseley, M. E.
  2000; 44 (1): 110-116

- **Quantification of cerebral blood flow by bolus tracking and artery spin tagging methods** *MAGNETIC RESONANCE IMAGING*
  Li, T. Q., Chen, Z. G., Ostergaard, L., Hindmarsh, T., Moseley, M. E.
  2000; 18 (5): 503-512

- **MRI of focal cerebral ischemia using O-17-labeled water** *MAGNETIC RESONANCE IN MEDICINE*
  de Crespigny, A. J., D'Arceuil, H. E., Engelhorn, T., Moseley, M. E.
  2000; 43 (6): 876-883

- **Diffusion- and perfusion-weighted MRI in a patient with a prolonged reversible ischaemic neurological deficit** *NEURORADIOLOGY*
  Neumann-Haefelin, T., Wittsack, H. J., Wenserski, F., Li, T. Q., Moseley, M. E., Siebler, M., Freund, H. J.
  2000; 42 (6): 444-447

- **New magnetic resonance imaging methods for cerebrovascular disease: Emerging clinical applications** *ANNALS OF NEUROLOGY*
  Neumann-Haefelin, T., Moseley, M. E., Albers, G. W.
  2000; 47 (5): 559-570

- **Yield of diffusion-weighted MRI for detection of potentially relevant findings in stroke patients** *NEUROLOGY*
  Albers, G. W., Lansberg, M. G., Norbash, A. M., Tong, D. C., O'Brien, M. W., Woolfenden, A. R., Marks, M. P., Moseley, M. E.
  2000; 54 (8): 1562-1567

- **Microstructure of temporo-parietal white matter as a basis for reading ability: Evidence from diffusion tensor magnetic resonance imaging** *NEURON*
  Klingberg, T., Hedehus, M., Temple, E., Salz, T., Gabrieli, J. D., Moseley, M. E., Poldrack, R. A.
  2000; 25 (2): 493-500

- **Impact of diffusion weighted MRI (DWI) on patient management: Is it of practical value?**
  Tong, D. C., Skalabrin, E., Chan, B. P., Moseley, M. E., Kemp, S., Albers, G. W.
  LIPPINCOTT WILLIAMS & WILKINS.2000: 286–86

- **Regional variability of cerebral blood oxygenation response to hypercapnia** *NEUROIMAGE*
  Kastrup, A., Kruger, G., Glover, G. H., Neumann-Haefelin, T., Moseley, M. E.
  1999; 10 (6): 675-681

- **Recommendations for standards regarding preclinical neuroprotective and restorative drug development** *STROKE*
  Feinklestein, S. P., Fisher, M., Furland, A. J., Goldstein, L. B., Gorelick, P. B., Kaste, M., Lees, K. R., Traystman, R. J., Albers, G. W., Anwer, U. E., Ashwood, T., Barone, F. C., Basta, et al
  1999; 30 (12): 2752-2758

- **Serial magnetic resonance diffusion and hemodynamic imaging in a neonatal rabbit model of hypoxic-ischemic encephalopathy** *NMR IN BIOMEDICINE*
  D'Arceuil, H. E., de Crespigny, A. J., Rother, J., Moseley, M., Rhine, W.
  1999; 12 (8): 505-514

- **Dynamic contrast-enhanced MRI of implanted VX2 tumors in rabbit muscle: Comparison of Gd-DTPA and NMS60** *MAGNETIC RESONANCE IMAGING*

de Crespigny, A. J., Howard, D., D'Arceuil, H., Muller, H., Agoston, A. T., Seri, S., Hashiguchi, Y., Fujimoto, C., Nakatani, A., Moseley, M. E.
1999; 17 (9): 1297-1305

- **A FAIR study of motor cortex activation under normo- and hypercapnia induced by breath challenge** *NEUROIMAGE*
  Li, T. Q., Moseley, M. E., Glover, G.
  1999; 10 (5): 562-569
- **Longitudinal magnetic resonance imaging study of perfusion and diffusion in stroke: Evolution of lesion volume and correlation with clinical outcome** *ANNALS OF NEUROLOGY*
  Beaulieu, C., de Crespigny, A., Tong, D. C., Moseley, M. E., Albers, G. W., Marks, M. P.
  1999; 46 (4): 568-578
- **Gender differences in cerebral blood flow and oxygenation response during focal physiologic neural activity** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
  Kastrup, A., Li, T. Q., Glover, G. H., Kruger, G., Moseley, M. E.
  1999; 19 (10): 1066-1071
- **Rapid monitoring of diffusion, DC potential, and blood oxygenation changes during global ischemia - Effects of hypoglycemia, hyperglycemia, and TTX** *STROKE*
  de Crespigny, A. J., Rother, J., Beaulieu, C., Moseley, M. E.
  1999; 30 (10): 2212-2222
- **Myelination and organization of the frontal white matter in children: a diffusion tensor MRI study** *NEUROREPORT*
  Klingberg, T., Vaidya, C. J., Gabrieli, J. D., Moseley, M. E., Hedehus, M.
  1999; 10 (13): 2817-2821
- **Assessment of cerebral oxidative metabolism with breath holding and fMRI** *MAGNETIC RESONANCE IN MEDICINE*
  Kastrup, A., Kruger, G., Glover, G. H., Moseley, M. E.
  1999; 42 (3): 608-611
- **Brain gray and white matter transverse relaxation time in schizophrenia** *7th International Congress on Schizophrenia Research*
  Pfefferbaum, A., SULLIVAN, E. V., Hedehus, M., Moseley, M., Lim, K. O.
  ELSEVIER IRELAND LTD.1999: 93–100
- **Cerebral blood flow-related signal changes during breath-holding** *AMERICAN JOURNAL OF NEURORADIOLOGY*
  Kastrup, A., Li, T. Q., Glover, G. H., Moseley, M. E.
  1999; 20 (7): 1233-1238
- **Decompressive craniectomy, reperfusion, or a combination for early treatment of acute "malignant" cerebral hemispheric stroke in rats? Potential mechanisms studied by MRI** *STROKE*
  Engelhorn, T., Doerfler, A., Kastrup, A., Beaulieu, C., de Crespigny, A., Forsting, M., Moseley, M. E.
  1999; 30 (7): 1456-1462
- **Dynamics of cerebral injury, perfusion, and blood-brain barrier changes after temporary and permanent middle cerebral artery occlusion in the rat** *JOURNAL OF THE NEUROLOGICAL SCIENCES*
  Kastrup, A., Engelhorn, T., Beaulieu, C., de Crespigny, A., Moseley, M. E.
  1999; 166 (2): 91-99
- **Evaluation of early reperfusion and IV tPA therapy using diffusion- and perfusion-weighted MRI** *NEUROLOGY*
  Marks, M. P., Tong, D. C., Beaulieu, C., Albers, G. W., de Crespigny, A., Moseley, M. E.
  1999; 52 (9): 1792-1798
- **Relationship between cerebral blood flow changes during visual stimulation and baseline flow levels investigated with functional MRI** *NEUROREPORT*
  Kastrup, A., Li, T. Q., Kruger, G., Glover, G. H., Moseley, M. E.
  1999; 10 (8): 1751-1756
- **Diffusion-weighted magnetic resonance imaging: theory and potential applications to child neurology.** *Seminars in pediatric neurology*
  Beaulieu, C., D'Arceuil, H., Hedehus, M., de Crespigny, A., Kastrup, A., Moseley, M. E.
  1999; 6 (2): 87-100
- **Compromised white matter tract integrity in schizophrenia inferred from diffusion tensor imaging** *ARCHIVES OF GENERAL PSYCHIATRY*

Lim, K. O., Hedehus, M., Moseley, M., de Crespigny, A., SULLIVAN, E. V., Pfefferbaum, A.
1999; 56 (4): 367-374

- **MRI abnormalities associated with partial status epilepticus** *NEUROLOGY*
  Lansberg, M. G., O'Brien, M. W., Norbash, A. M., Moseley, M. E., Morrell, M., Albers, G. W.
  1999; 52 (5): 1021-1027

- **Intra-arterial rtPA treatment of stroke assessed by diffusion- and perfusion-weighted MRI** *STROKE*
  Lansberg, M. G., Tong, D. C., Norbash, A. M., Yenari, M. A., Moseley, M. E.
  1999; 30 (3): 678-680

- **Functional MRI of human brain during breath holding by BOLD and FAIR techniques** *NEUROIMAGE*
  Li, T. Q., Kastrup, A., Takahashi, A. M., Moseley, M. E.
  1999; 9 (2): 243-249

- **ADC mapping by means of a single-shot spiral MRI technique with application in acute cerebral ischemia** *MAGNETIC RESONANCE IN MEDICINE*
  Li, T. Q., Takahashi, A. M., Hindmarsh, T., Moseley, M. E.
  1999; 41 (1): 143-147

- **Effective early reperfusion and intravenous tPA therapy on diffusion and perfusion weighted MRI**
  Marks, M. P., Tong, D., Beaulieu, C., Albers, G., de Crespigny, A., Moseley, M. E.
  LIPPINCOTT WILLIAMS & WILKINS.1999: 235

- **Accuracy of diffusion weighted MRI for identification of acute ischemic lesions**
  Lansberg, M. G., Moseley, M. E., Norbash, A. M., O'Brien, M. W., Woolfenden, A. R., Tong, D. C., Marks, M. P., Kemp, S. M., Albers, G. W.
  LIPPINCOTT WILLIAMS & WILKINS.1999: 263

- **Yield of diffusion weighted MRI for detection of potentially clinically relevant findings in stroke patients**
  Albers, G. W., Lansberg, M. G., Norbash, A. M., Woolfenden, A. R., O'Brien, M. W., Tong, D. C., Marks, M. P., Kemp, S. M., Moseley, M. E.
  LIPPINCOTT WILLIAMS & WILKINS.1999: 235

- **Functional magnetic resonance imaging of regional cerebral blood oxygenation changes during breath holding** *STROKE*
  Kastrup, A., Li, T. Q., Takahashi, A., Glover, G. H., Moseley, M. E.
  1998; 29 (12): 2641-2645

- **Diffusion MR imaging during acute subarachnoid hemorrhage in rats** *STROKE*
  Busch, E., Beaulieu, C., de Crespigny, A., Moseley, M. E.
  1998; 29 (10): 2155-2161

- **Polynitroxyl albumin reduces infarct size in transient focal cerebral ischemia in the rat: Potential mechanisms studied by magnetic resonance imaging** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
  Beaulieu, C., Busch, E., Rother, J., de Crespigny, A., Hsia, C. J., Moseley, M. E.
  1998; 18 (9): 1022-1031

- **Magnetic resonance imaging assessment of cerebral hemodynamics during spreading depression in rats** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
  de Crespigny, A., Rother, J., Van Bruggen, N., Beaulieu, C., Moseley, M. E.
  1998; 18 (9): 1008-1017

- **Diffusion and perfusion magnetic resonance imaging of the evolution of hypoxic ischemic encephalopathy in the neonatal rabbit** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
  D'Arceuil, H. E., de Crespigny, A. J., Rother, J., Seri, S., Moseley, M. E., Stevenson, D. K., Rhine, W.
  1998; 8 (4): 820-828

- **Thrombolysis with reteplase, an unglycosylated plasminogen activator variant, in experimental embolic stroke.** *Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association*
  Yenari, M. A., Lee, L. K., Beaulieu, C., Sun, G. H., Kunis, D., Chang, D., Albers, G. W., Moseley, M. E., Steinberg, G. K.
  1998; 7 (3): 179-186

- **Diffusion tensor imaging of white matter tracts in schizophrenia**
  Lim, K. O., Hedehus, M., de Crespigny, A., Menon, V., Moseley, M.

ELSEVIER SCIENCE INC.1998: 11S–12S

- **Correlation of perfusion- and diffusion-weighted MRI with NIHSS score in acute (< 6.5 hour) ischemic stroke** *NEUROLOGY*
  Tong, D. C., Yenari, M. A., Albers, G. W., O'Brien, M., Marks, M. P., Moseley, M. E.
  1998; 50 (4): 864-870

- **Diffusion MR imaging during acute subarachnoid hemorrhage in rat**
  Busch, E., Beaulieu, C., de Crespigny, A., Moseley, M. E.
  LIPPINCOTT WILLIAMS & WILKINS.1998: 332

- **Correlation of diffusion and DC potential in global ischemia**
  de Crespigny, A., Rother, J., Beaulieu, C., Moseley, M. E.
  LIPPINCOTT WILLIAMS & WILKINS.1998: 280

- **Spreading depression-like ADC transients after SAH in rats**
  Beaulieu, C., Busch, E., de Crespigny, A., Moseley, M. E.
  LIPPINCOTT WILLIAMS & WILKINS.1998: 328

- **Isotropic diffusion-weighted and spiral-navigated interleaved EPI for routine imaging of acute stroke** *MAGNETIC RESONANCE IN MEDICINE*
  Butts, K., Pauly, J., deCrespigny, A., Moseley, M.
  1997; 38 (5): 741-749

- **Diffusion-weighted magnetic resonance imaging characteristics of hemorrhagic transformation in experimental embolic stroke** *JOURNAL OF NEUROIMAGING*
  Yenari, M. A., Beaulieu, C., Steinberg, G. K., Moseley, M. E.
  1997; 7 (4): 227-231

- **Diffusion-weighted MRI of myelination in the rat brain following treatment with gonadal hormones** *NEURORADIOLOGY*
  Prayer, D., Roberts, T., Barkovich, A. J., Prayer, L., Kucharczyk, J., Moseley, M., Arieff, A.
  1997; 39 (5): 320-325

- **Hyperglycemia delays terminal depolarization and enhances repolarization after peri-infarct spreading depression as measured by serial diffusion MR mapping** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
  Els, T., Rother, J., Beaulieu, C., deCrespigny, A., Moseley, M.
  1997; 17 (5): 591-595

- **Clinical utility of diffusion-weighted magnetic resonance imaging in the assessment of ischemic stroke** *ANNALS OF NEUROLOGY*
  Lutsep, H. L., Albers, G. W., deCrespigny, A., Kamat, G. N., Marks, M. P., Moseley, M. E.
  1997; 41 (5): 574-580

- **Hyperglycemia enhances repolarization after peri-infarct spreading depression and delays terminal depolarization as measured by serial diffusion MR mapping**
  Rother, J., Els, T., Beaulieu, C., deCrespigny, A., Moseley, M.
  AMER HEART ASSOC.1997: 114

- **Time-course and treatment response with SNX-111, an N-type calcium channel blocker, in a rodent model of focal cerebral ischemia using diffusion-weighted MRI** *BRAIN RESEARCH*
  Yenari, M. A., Palmer, J. T., Sun, G. H., deCrespigny, A., Moseley, M. E., Steinberg, G. K.
  1996; 739 (1-2): 36-45

- **Experimental cerebral venous thrombosis: Evaluation using magnetic resonance imaging** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
  Rother, J., Waggie, K., VanBruggen, N., DECRESPIGNY, A. J., Moseley, M. E.
  1996; 16 (6): 1353-1361

- **Time course of diffusion imaging abnormalities in human stroke** *STROKE*
  Warach, S., Moseley, M., Sorensen, A. G., Koroshetz, W.
  1996; 27 (7): 1254-1255

- **Diffusion-weighted interleaved echo-planar imaging with a pair of orthogonal navigator echoes** *MAGNETIC RESONANCE IN MEDICINE*
  Butts, K., deCrespigny, A., Pauly, J. M., Moseley, M.
  1996; 35 (5): 763-770

- **Recovery of apparent diffusion coefficient after ischemia-induced spreading depression relates to cerebral perfusion gradient** *STROKE*
  Rother, J., DECRESPIGNY, A. J., DArceuil, H., Iwai, K., Moseley, M. E.
  1996; 27 (5): 980-986
- **Acute and chronic stroke: Navigated spin-echo diffusion-weighted MR imaging** *RADIOLOGY*
  Marks, M. P., deCrespigny, A., Lentz, D., Enzmann, D. R., Albers, G. W., Moseley, M. E.
  1996; 199 (2): 403-408
- **Magnetic resonance imaging of human brain function** *SURGICAL NEUROLOGY*
  Moseley, M. E., deCrespigny, A., Spielman, D. M.
  1996; 45 (4): 385-390
- **MR detection of cortical spreading depression immediately after focal ischemia in the rat** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
  Rother, J., DECRESPIGNY, A. J., DArceuil, H., Moseley, M. E.
  1996; 16 (2): 214-220
- **Early cytotoxic edema detection by diffusion-weighted MRI in experimental cerebral venous thrombosis**
  Rother, J., deCrespigny, A., Moseley, M.
  AMER HEART ASSOC.1996: 111
- **Recovery time from spreading depression closely matches perfusion gradient in ischemic tissue**
  Rother, J., deCrespigny, A., DArceuil, H., Moseley, M.
  AMER HEART ASSOC.1996: 66
- **Clinical aspects of DWI** *NMR IN BIOMEDICINE*
  Moseley, M. E., Butts, K., Yenari, M. A., Marks, M., deCrespigny, A.
  1995; 8 (7-8): 387-396
- **Functional MR imaging. Capabilities and limitations.** *Neuroimaging clinics of North America*
  Moseley, M. E., Glover, G. H.
  1995; 5 (2): 161-191
- **NAVIGATED DIFFUSION IMAGING OF NORMAL AND ISCHEMIC HUMAN BRAIN** *MAGNETIC RESONANCE IN MEDICINE*
  DECRESPIGNY, A. J., Marks, M. P., Enzmann, D. R., Moseley, M. E.
  1995; 33 (5): 720-728
- **DIFFUSION-WEIGHTED MRI OF CLINICAL STROKE**
  MOSELEY, M. E., YENARI, M., DECRESPIGNY, A., MARKS, M.
  LITTLE BROWN CO.1995: A286–A287
- **N-G-NITRO-L-ARGININE DELAYS THE DEVELOPMENT OF BRAIN INJURY DURING FOCAL ISCHEMIA IN RATS** *STROKE*
  Kozniewska, E., Roberts, T. P., Tsuura, M., Mintorovitch, J., Moseley, M. E., Kucharczyk, J.
  1995; 26 (2): 282-288
- **IDENTIFICATION OF PREMYELINATION BY DIFFUSION-WEIGHTED MRI** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*
  WIMBERGER, D. M., Roberts, T. P., Barkovich, A. J., Prayer, L. M., Moseley, M. E., Kucharczyk, J.
  1995; 19 (1): 28-33
- **MRI - Mapping the human brain electronically**
  Moseley, M. E., IEEE
  I E E E.1995: 656
- **Diffusion in Brain Ischemia. Diffusion and Perfusion. Magnetic Resonance Imaging: Applications to Functional MRI.** *Raven Press*
  Moseley ME, Kucharczyk J
  1995
- **SPRODIAMIDE-INJECTION-ENHANCED MAGNETIC-RESONANCE-IMAGING OF CEREBRAL PERFUSION - PHASE-I CLINICAL-TRIAL RESULTS** *1993 Meeting of Contrast Media Research (CMR 93)*
  Roberts, T. P., Kucharczyk, J., Cox, I., Moseley, M. E., Prayer, L., Dillon, W., Bleyl, K., Harnish, P.
  LIPPINCOTT WILLIAMS & WILKINS.1994: S24–S26

- **MAGNETIC-RESONANCE (MR) DIFFUSION AND PERFUSION IMAGING STUDIES OF IMMATURE RABBIT HYPOXIC-ISCHEMIC ENCEPHALOPATHY (HIE)**
  RHINE, W. D., DECRESPIGNY, A., PELC, L. R., MOSELEY, M. E., STEVENSON, D. K.
  WILLIAMS & WILKINS.1994: A386

- **EARLY DETECTION OF REGIONAL CEREBRAL-ISCHEMIA USING HIGH-SPEED MRI** *Cerebrovascular Diseases : 18th Princeton Conference*
  Moseley, M. E., DECRESPIGNY, A. J., Roberts, T. P., Kozniewska, E., Kucharczyk, J.
  AMER HEART ASSOC.1993: I60–I65

- **HIGH-SPEED MR-IMAGING OF ISCHEMIC BRAIN INJURY FOLLOWING STENOSIS OF THE MIDDLE CEREBRAL-ARTERY** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
  Roberts, T. P., Vexler, Z., Derugin, N., Moseley, M. E., Kucharczyk, J.
  1993; 13 (6): 940-946

- **PERFUSION AND DIFFUSION MR-IMAGING OF THROMBOEMBOLIC STROKE** *JMRI-JOURNAL OF MAGNETIC RESONANCE IMAGING*
  DECRESPIGNY, A. J., Tsuura, M., Moseley, M. E., Kucharczyk, J.
  1993; 3 (5): 746-754

- **ECHO-PLANAR PERFUSION-SENSITIVE MR-IMAGING OF ACUTE CEREBRAL-ISCHEMIA** *RADIOLOGY*
  Kucharczyk, J., Vexler, Z. S., Roberts, T. P., ASGARI, H. S., Mintorovitch, J., Derugin, N., Watson, A. D., Moseley, M. E.
  1993; 188 (3): 711-717

- **IMPROVED SENSITIVITY TO MAGNETIC-SUSCEPTIBILITY CONTRAST** *MAGNETIC RESONANCE IN MEDICINE*
  DECRESPIGNY, A. J., Roberts, T. P., KUCHARCYZK, J., Moseley, M. E.
  1993; 30 (1): 135-137

- **RAPID MR-IMAGING OF A VASCULAR CHALLENGE TO FOCAL ISCHEMIA IN CAT BRAIN** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
  DECRESPIGNY, A. J., Wendland, M. F., Derugin, N., Vexler, Z. S., Moseley, M. E.
  1993; 3 (3): 475-481

- **MR-IMAGING OF BLOOD OXYGENATION DEPENDENT CHANGES IN FOCAL RENAL ISCHEMIA AND TRANSPLANTED LIVER-TUMOR IN RAT** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
  Vexler, V. S., DECRESPIGNY, A. J., Wendland, M. F., Kuwatsuru, R., Muhler, A., Brasch, R. C., Moseley, M. E.
  1993; 3 (3): 483-490

- **CEREBROVASCULAR TRANSIT CHARACTERISTICS OF DYDTPA-BMA AND GDDTPA-BMA IN NORMAL AND ISCHEMIC CAT BRAIN** *AMERICAN JOURNAL OF NEURORADIOLOGY*
  Kucharczyk, J., Asgari, H., Mintorovitch, J., Vexler, Z., ROCKLAGE, S., Watson, A., Moseley, M.
  1993; 14 (2): 289-296

- **ECHO-PLANAR MR IMAGING OF NORMAL AND ISCHEMIC MYOCARDIUM WITH GADODIAMIDE INJECTION** *RADIOLOGY*
  Wendland, M. F., Saeed, M., Masui, T., Derugin, N., Moseley, M. E., Higgins, C. B.
  1993; 186 (2): 535-542

- **ENDOGENOUS SUSCEPTIBILITY CONTRAST IN MYOCARDIUM DURING APNEA MEASURED USING GRADIENT RECALLED ECHO PLANAR IMAGING** *MAGNETIC RESONANCE IN MEDICINE*
  Wendland, M. F., Saeed, M., Lauerma, K., deCrespigny, A., Moseley, M. E., Higgins, C. B.
  1993; 29 (2): 273-276

- **CONTRAST-ENHANCED PERFUSION-SENSITIVE MR IMAGING IN THE DIAGNOSIS OF CEREBROVASCULAR DISORDERS** *JMRI-JOURNAL OF MAGNETIC RESONANCE IMAGING*
  Kucharczyk, J., Roberts, T., Moseley, M. E., Watson, A.
  1993; 3 (1): 241-245

- **CYTOTOXIC BRAIN EDEMA - ASSESSMENT WITH DIFFUSION-WEIGHTED MR IMAGING** *RADIOLOGY*
  Sevick, R. J., Kanda, F., Mintorovitch, J., Arieff, A. I., Kucharczyk, J., Tsuruda, J. S., Norman, D., Moseley, M. E.
  1992; 185 (3): 687-690

- **MAGNETIC-RESONANCE-IMAGING DEMONSTRATION OF PHARMACOLOGICAL-INDUCED MYOCARDIAL VASODILATATION USING A MACROMOLECULAR GADOLINIUM CONTRAST AGENT** *INVESTIGATIVE RADIOLOGY*
  Vexler, V. S., Berthezene, Y., Wolfe, C. L., Sievers, R., DUPON, J. W., Aicher, K., Moseley, M. E., Brasch, R. C.

1992; 27 (11): 935-941

- **REAL-TIME OBSERVATION OF TRANSIENT FOCAL ISCHEMIA AND HYPEREMIA IN CAT BRAIN** *MAGNETIC RESONANCE IN MEDICINE*
  DECRESPIGNY, A. J., Wendland, M. F., Derugin, N., Kozniewska, E., Moseley, M. E.
  1992; 27 (2): 391-397

- **CONTRAST-ENHANCED MR IMAGING OF THE LUNG - ASSESSMENTS OF VENTILATION AND PERFUSION** *RADIOLOGY*
  Berthezene, Y., Vexler, V., Clement, O., Muhler, A., Moseley, M. E., Brasch, R. C.
  1992; 183 (3): 667-672

- **MAGNETIC-RESONANCE-IMAGING DETECTION OF AN EXPERIMENTAL PULMONARY PERFUSION DEFICIT USING A MACROMOLECULAR CONTRAST AGENT - POLYLYSINE-GADOLINIUM-DTPA(40)** *INVESTIGATIVE RADIOLOGY*
  Berthezene, Y., Vexler, V., Price, D. C., WISNERDUPON, J., Moseley, M. E., Aicher, K. P., Brasch, R. C.
  1992; 27 (5): 346-351

- **DETECTION OF ZONAL RENAL ISCHEMIA WITH CONTRAST-ENHANCED MR IMAGING WITH A MACROMOLECULAR BLOOD POOL CONTRAST AGENT** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
  Vexler, V. S., Berthezene, Y., Clement, O., Muhler, A., Rosenau, W., Moseley, M. E., Brasch, R. C.
  1992; 2 (3): 311-319

- **IRON DEXTRAN AS A MAGNETIC-SUSCEPTIBILITY CONTRAST AGENT - FLOW-RELATED CONTRAST EFFECTS IN THE T2-WEIGHTED SPIN-ECHO MRI OF NORMAL RAT AND CAT BRAIN** *MAGNETIC RESONANCE IN MEDICINE*
  White, D. L., Aicher, K. P., Tzika, A. A., Kucharczyk, J., ENGELSTAD, B. L., Moseley, M. E.
  1992; 24 (1): 14-28

- **HYPERCARBIA-INDUCED CHANGES IN CEREBRAL BLOOD-VOLUME IN THE CAT - A H-1 MRI AND INTRAVASCULAR CONTRAST AGENT STUDY** *MAGNETIC RESONANCE IN MEDICINE*
  Moseley, M. E., Chew, W. M., White, D. L., Kucharczyk, J., Litt, L., Derugin, N., DUPON, J., Brasch, R. C., Norman, D.
  1992; 23 (1): 21-30

- **DIFFERENTIATION OF CAPILLARY LEAK AND HYDROSTATIC PULMONARY-EDEMA WITH A MACROMOLECULAR MR IMAGING CONTRAST AGENT** *RADIOLOGY*
  Berthezene, Y., Vexler, V., Jerome, H., Sievers, R., Moseley, M. E., Brasch, R. C.
  1991; 181 (3): 773-777

- **COMPARISON OF GD- AND DY-CHELATES FOR T2-STAR CONTRAST-ENHANCED IMAGING** *WORKSHOP ON CONTRAST ENHANCED MAGNETIC RESONANCE*
  Moseley, M. E., Vexler, Z., ASGARI, H. S., Mintorovitch, J., Derugin, N., ROCKLAGE, S., Kucharczyk, J.
  WILLIAMS & WILKINS.1991: 259–64

- **FERRIOXAMINE-B DERIVATIVES AS HEPATOBILIARY CONTRAST AGENTS FOR MAGNETIC-RESONANCE-IMAGING** *MAGNETIC RESONANCE IN MEDICINE*
  MUETTERTIES, K. A., Hoener, B. A., ENGELSTAD, B. L., Tongol, J. M., WIKSTROM, M. G., Wang, S. C., Eason, R. G., Moseley, M. E., White, D. L.
  1991; 22 (1): 88-100

- **MAGNETIC-RESONANCE-IMAGING OF BRAIN PERFUSION USING THE NONIONIC CONTRAST AGENTS DY-DTPA-BMA AND GD-DTPA-BMA** *SYMP ON CONTRAST MEDIA RESEARCH (CMR 91)*
  Kucharczyk, J., Asgari, H., Mintorovitch, J., Vexler, Z., Moseley, M., Watson, A., ROCKLAGE, S.
  LIPPINCOTT WILLIAMS & WILKINS.1991: S250–S252

- **INVIVO DIFFUSION PERFUSION MAGNETIC-RESONANCE-IMAGING OF ACUTE CEREBRAL-ISCHEMIA** *CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY*
  Kucharczyk, J., Mintorovitch, J., Asgari, H., Tsuura, M., Moseley, M.
  1991; 69 (11): 1719-1725

- **MAGNETIC-RESONANCE-IMAGING ENHANCED WITH A MACROMOLECULAR CONTRAST AGENT - DETECTION OF THE ZONAL RENAL ISCHEMIA** *SYMP ON CONTRAST MEDIA RESEARCH (CMR 91)*
  Vexler, V. S., Berthezene, Y., Moseley, M. E., Brasch, R. C.
  LIPPINCOTT WILLIAMS & WILKINS.1991: S131–S133

- **FACILITATED MAGNETIC-RESONANCE-IMAGING DIAGNOSIS OF PULMONARY-DISEASE USING A MACROMOLECULAR BLOOD POOL CONTRAST AGENT, POLYLYSINE-(GD-DTPA)40** *SYMP ON CONTRAST MEDIA RESEARCH (CMR 91)*

Brasch, R. C., Berthezene, Y., Vexler, V. S., Moseley, M., Clement, O., Muehler, A., Price, D., Jerome, H.
LIPPINCOTT WILLIAMS & WILKINS.1991: S42–S45

- **HYPERGLYCEMIA AUGMENTS ISCHEMIC BRAIN INJURY - INVIVO MR IMAGING SPECTROSCOPIC STUDY WITH NICARDIPINE IN CATS WITH OCCLUDED MIDDLE CEREBRAL-ARTERIES** *AMERICAN JOURNAL OF NEURORADIOLOGY*
  Chew, W., Kucharczyk, J., Moseley, M., Derugin, N., Norman, D.
  1991; 12 (4): 603-609

- **INVIVO F-19 NUCLEAR-MAGNETIC-RESONANCE BRAIN STUDIES OF HALOTHANE, ISOFLURANE, AND DESFLURANE - RAPID ELIMINATION AND NO ABUNDANT SATURABLE BINDING** *ANNALS OF THE NEW YORK ACADEMY OF SCIENCES*
  Litt, L., Lockhart, S., Cohen, Y., Yasuda, N., Kim, F., Freire, B., Laster, M., Peterson, N., Taheri, S., Chang, L. H., Sessler, D. I., Moseley, M., Eger, et al
  1991; 625: 707-724

- **RECENT ADVANCES IN MR IMAGING SPECTROSCOPY OF CEREBRAL-ISCHEMIA** *AMERICAN JOURNAL OF ROENTGENOLOGY*
  Baker, L. L., Kucharczyk, J., Sevick, R. J., Mintorovitch, J., Moseley, M. E.
  1991; 156 (6): 1133-1143

- **DIFFUSION PERFUSION MR IMAGING OF ACUTE CEREBRAL-ISCHEMIA** *MEETING/WORKSHOP ON FUTURE DIRECTIONS IN MRI OF DIFFUSION AND MICROCIRCULATION*
  Kucharczyk, J., Mintorovitch, J., ASGARI, H. S., Moseley, M.
  WILLIAMS & WILKINS.1991: 311–15

- **Magnetic resonance imaging of diffusion and perfusion.** *Topics in magnetic resonance imaging*
  Moseley, M. E., Wendland, M. F., Kucharczyk, J.
  1991; 3 (3): 50-67

- **ANISOTROPY IN DIFFUSION-WEIGHTED MRI** *MEETING/WORKSHOP ON FUTURE DIRECTIONS IN MRI OF DIFFUSION AND MICROCIRCULATION*
  Moseley, M. E., Kucharczyk, J., ASGARI, H. S., Norman, D.
  WILLIAMS & WILKINS.1991: 321–26

- **DIFFUSION-WEIGHTED MR IMAGING OF EXTRAAXIAL TUMORS** *MEETING/WORKSHOP ON FUTURE DIRECTIONS IN MRI OF DIFFUSION AND MICROCIRCULATION*
  Tsuruda, J. S., Chew, W. M., Moseley, M. E., Norman, D.
  WILLIAMS & WILKINS.1991: 316–20

- **DETECTION WITH ECHO-PLANAR MR IMAGING OF TRANSIT OF SUSCEPTIBILITY CONTRAST-MEDIUM IN A RAT MODEL OF REGIONAL BRAIN ISCHEMIA** *JMRI-JOURNAL OF MAGNETIC RESONANCE IMAGING*
  Wendland, M. F., White, D. L., Aicher, K. P., Tzika, A. A., Moseley, M. E.
  1991; 1 (3): 285-292

- **ISCHEMIC BRAIN-DAMAGE - REDUCTION BY SODIUM-CALCIUM ION CHANNEL MODULATOR RS-87476** *RADIOLOGY*
  Kucharczyk, J., Mintorovitch, J., Moseley, M. E., ASGARI, H. S., Sevick, R. J., Derugin, N., Norman, D.
  1991; 179 (1): 221-227

- **MAGNETIC-RESONANCE** *RADIOLOGY*
  Ehman, R. L., Bryan, R. N., Crues, J. V., Hricak, H., Kressel, H. Y., Lenkinski, R. E., Mitchell, D. G., Moseley, M. E., Riederer, S. J., Ross, J. R.
  1991; 178 (3): 907-910

- **COMPARISON OF DIFFUSION-WEIGHTED AND T2-WEIGHTED MRI FOR THE EARLY DETECTION OF CEREBRAL-ISCHEMIA AND REPERFUSION IN RATS** *MAGNETIC RESONANCE IN MEDICINE*
  Mintorovitch, J., Moseley, M. E., CHILEUITT, L., Shimizu, H., Cohen, Y., Weinstein, P. R.
  1991; 18 (1): 39-50

- **ULTRAFAST MAGNETIC-RESONANCE-IMAGING - DIFFUSION AND PERFUSION** *JOURNAL OF THE CANADIAN ASSOCIATION OF RADIOLOGISTS-JOURNAL DE L ASSOCIATION CANADIENNE DES RADIOLOGISTES*
  Moseley, M. E., Sevick, R., Wendland, M. F., White, D. L., Mintorovitch, J., ASGARI, H. S., Kucharczyk, J.
  1991; 42 (1): 31-38

- **EARLY CHANGES IN DIFFUSION AND PERFUSION FOLLOWING CEREBRAL-ISCHEMIA** *1991 ANNUAL INTERNATIONAL CONF OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOC*

Moseley, M. E., Asgari, H., Mintorovitch, J., Kucharczyk, J.
I E E E.1991: 279–280

- **INVIVO F-19 NUCLEAR-MAGNETIC-RESONANCE BRAIN STUDIES OF HALOTHANE, ISOFLURANE, AND DESFLURANE - RAPID ELIMINATION AND NO ABUNDANT SATURABLE BINDING** *CONF ON MOLECULAR AND CELLULAR MECHANISMS OF ALCOHOL AND ANESTHETICS*
  Litt, L., Lockhart, S., Cohen, Y., Yasuda, N., Kim, F., Freire, B., Laster, M., Peterson, N., Taheri, S., Chang, L. H., Sessler, D. I., Moseley, M., Eger, et al
  NEW YORK ACAD SCIENCES.1991: 707–724

- **CONTRAST-ENHANCED MAGNETIC-RESONANCE-IMAGING OF TUMOR-BEARING MICE TREATED WITH HUMAN RECOMBINANT TUMOR-NECROSIS-FACTOR-ALPHA** *CANCER RESEARCH*
  Aicher, K. P., DUPON, J. W., White, D. L., Aukerman, S. L., Moseley, M. E., JUSTER, R., Rosenau, W., WINKELHAKE, J. L., Brasch, R. C.
  1990; 50 (22): 7376-7381

- **DIFFUSION-WEIGHTED MR-IMAGING OF THE BRAIN - VALUE OF DIFFERENTIATING BETWEEN EXTRAAXIAL CYSTS AND EPIDERMOID TUMORS** *AMERICAN JOURNAL OF ROENTGENOLOGY*
  Tsuruda, J. S., Chew, W. M., Moseley, M. E., Norman, D.
  1990; 155 (5): 1059-1065

- **DIFFUSION-WEIGHTED MR IMAGING OF THE BRAIN - VALUE OF DIFFERENTIATING BETWEEN EXTRAAXIAL CYSTS AND EPIDERMOID TUMORS** *AMERICAN JOURNAL OF NEURORADIOLOGY*
  Tsuruda, J. S., Chew, W. M., Moseley, M. E., Norman, D.
  1990; 11 (5): 925-931

- **MACROMOLECULAR MAGNETIC-RESONANCE-IMAGING CONTRAST-MEDIA - ACCUMULATED EXPERIENCE** *1989 SYMP ON CONTRAST MEDIA RESEARCH*
  Brasch, R. C., Moseley, M. E., DUPON, J., Wang, S. C., Aicher, K. P., WIKSTROM, M., Schmiedl, U., Wolfe, C. L., Ogan, M. D., GROOD, W., Paajanen, H., White, D.
  LIPPINCOTT WILLIAMS & WILKINS.1990: S51–S52

- **EARLY DETECTION OF PERFUSION DEFICITS CAUSED BY REGIONAL CEREBRAL-ISCHEMIA IN CATS - T2-WEIGHTED MAGNETIC-SUSCEPTIBILITY MRI USING A NONIONIC DYSPROSIUM CONTRAST AGENT** *1989 SYMP ON CONTRAST MEDIA RESEARCH*
  Rocklage, S. M., Moseley, M. E., Kucharczyk, J., Norman, D., Quay, S. C.
  LIPPINCOTT WILLIAMS & WILKINS.1990: S37–S38

- **DIFFUSION-WEIGHTED MR IMAGING OF ANISOTROPIC WATER DIFFUSION IN CAT CENTRAL-NERVOUS-SYSTEM** *75TH SCIENTIFIC ASSEMBLY AND ANNUAL MEETING OF THE RADIOLOGICAL SOC OF NORTH AMERICA*
  Moseley, M. E., Cohen, Y., Kucharczyk, J., Mintorovitch, J., ASGARI, H. S., Wendland, M. F., Tsuruda, J., Norman, D.
  RADIOLOGICAL SOC NORTH AMER.1990: 439–45

- **LOCALIZATION OF P-31 MR SIGNAL WITH USE OF SUPERPARAMAGNETIC IRON-OXIDE PARTICLES** *RADIOLOGY*
  ENGELSTAD, B. L., White, D. L., Moseley, M. E., Stark, D. D.
  1990; 176 (2): 467-472

- **DIFFUSION-WEIGHTED MR IMAGING OF ACUTE STROKE - CORRELATION WITH T2-WEIGHTED AND MAGNETIC SUSCEPTIBILITY-ENHANCED MR IMAGING IN CATS** *AMERICAN JOURNAL OF NEURORADIOLOGY*
  Moseley, M. E., Kucharczyk, J., Mintorovitch, J., Cohen, Y., Kurhanewicz, J., Derugin, N., Asgari, H., Norman, D.
  1990; 11 (3): 423-429

- **EVALUATION OF GD-DTPA LABELED DEXTRAN AS AN INTRAVASCULAR MR CONTRAST AGENT - IMAGING CHARACTERISTICS IN NORMAL RAT-TISSUES** *RADIOLOGY*
  Wang, S. C., WIKSTROM, M. G., White, D. L., Klaveness, J., Holtz, E., Rongved, P., Moseley, M. E., Brasch, R. C.
  1990; 175 (2): 483-488

- **EARLY DETECTION OF REGIONAL CEREBRAL-ISCHEMIA IN CATS - COMPARISON OF DIFFUSION-WEIGHTED AND T2-WEIGHTED MRI AND SPECTROSCOPY** *MAGNETIC RESONANCE IN MEDICINE*
  Moseley, M. E., Cohen, Y., Mintorovitch, J., CHILEUITT, L., Shimizu, H., Kucharczyk, J., Wendland, M. F., Weinstein, P. R.
  1990; 14 (2): 330-346

- **HISTOLOGIC CORRELATION IN MAGNETIC-RESONANCE-IMAGING OF FEMORAL-HEAD OSTEONECROSIS** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
  Jergesen, H. E., Lang, P., Moseley, M., Genant, H. K.

1990: 150-163

- **EARLY DETECTION OF ISCHEMIC-INJURY - COMPARISON OF SPECTROSCOPY, DIFFUSION-WEIGHTED, T2-WEIGHTED, AND MAGNETIC SUSCEPTIBILITY-WEIGHTED MRI IN CATS** *8TH INTERNATIONAL SYMP ON BRAIN EDEMA*
  Moseley, M. E., Mintorovitch, J., Cohen, Y., ASGARI, H. S., Derugin, N., Norman, D., Kucharczyk, J.
  SPRINGER-VERLAG.1990: 207–209

- **MR EVALUATION OF CALCIUM ENTRY BLOCKERS WITH PUTATIVE CEREBROPROTECTIVE EFFECTS IN ACUTE CEREBRAL-ISCHEMIA** *8TH INTERNATIONAL SYMP ON BRAIN EDEMA*
  Kucharczyk, J., MINTOROVICH, J., Sevick, R., Asgari, H., Moseley, M.
  SPRINGER-VERLAG.1990: 254–255

- **Albumin labeled with Gd-DTPA. An intravascular contrast-enhancing agent for magnetic resonance blood pool and perfusion imaging.** *Acta radiologica. Supplementum*
  Schmiedl, U., Brasch, R. C., Ogan, M. D., Moseley, M. E.
  1990; 374: 99-102

- **Early detection of ischemic injury: comparison of spectroscopy, diffusion-, T2-, and magnetic susceptibility-weighted MRI in cats.** *Acta neurochirurgica. Supplementum*
  Moseley, M. E., Mintorovitch, J., Cohen, Y., ASGARI, H. S., Derugin, N., Norman, D., Kucharczyk, J.
  1990; 51: 207-209

- **DIFFUSION-WEIGHTED MR IMAGING AND T2-WEIGHTED MR IMAGING IN ACUTE CEREBRAL-ISCHEMIA - COMPARISON AND CORRELATION WITH HISTOPATHOLOGY** *8TH INTERNATIONAL SYMP ON BRAIN EDEMA*
  Sevick, R. J., Kucharczyk, J., Mintorovitch, J., Moseley, M. E., Derugin, N., Norman, D.
  SPRINGER-VERLAG.1990: 210–212

- **MRS OF ISCHEMIC HYPOXIC BRAIN DISEASE** *RESEARCH SYMP OF THE ASSOC OF UNIVERSITY RADIOLOGISTS : MAGNETIC RESONANCE SPECTROSCOPY*
  Kucharczyk, J., Moseley, M., Kurhanewicz, J., Norman, D.
  LIPPINCOTT-RAVEN PUBL.1989: 951–54

- **DEMARCATION OF MYOCARDIAL ISCHEMIA - MAGNETIC-SUSCEPTIBILITY EFFECT OF CONTRAST-MEDIUM IN MR IMAGING** *RADIOLOGY*
  Saeed, M., Wendland, M. F., Tomei, E., Rocklage, S. M., Quay, S. C., Moseley, M. E., Wolfe, C., Higgins, C. B.
  1989; 173 (3): 763-767

- **ASSESSMENT OF MYOCARDIAL SALVAGE AFTER ISCHEMIA AND REPERFUSION USING MAGNETIC-RESONANCE IMAGING AND SPECTROSCOPY** *CIRCULATION*
  Wolfe, C. L., Moseley, M. E., WIKSTROM, M. G., Sievers, R. E., Wendland, M. F., DUPON, J. W., Finkbeiner, W. E., Lipton, M. J., Parmley, W. W., Brasch, R. C.
  1989; 80 (4): 969-982

- **P-31 MR SPECTROSCOPY IN ASSESSING TESTICULAR TORSION - RAT MODEL** *RADIOLOGY*
  Tzika, A. A., Vigneron, D. B., Hricak, H., Moseley, M. E., James, T. L., Kogan, B. A.
  1989; 172 (3): 753-757

- **ASCORBATE-INDUCED CANCELLATION OF NITROXIDE CONTRAST-MEDIA ENHANCEMENT OF MR-IMAGES** *INVESTIGATIVE RADIOLOGY*
  WIKSTROM, M. G., White, D. L., Moseley, M. E., DUPON, J. W., Brasch, R. C.
  1989; 24 (9): 692-696

- **USE OF RADIO-FREQUENCY FIELD GRADIENTS TO IMAGE BLOOD-FLOW AND PERFUSION INVIVO** *RADIOLOGY*
  Karczmar, G. S., TAVARES, N. J., Moseley, M. E.
  1989; 172 (2): 363-366

- **CONTRAST-ENHANCED MRI OF TUMORS - COMPARISON OF GD-DTPA AND A MACROMOLECULAR AGENT** *INVESTIGATIVE RADIOLOGY*
  WIKSTROM, M. G., Moseley, M. E., White, D. L., DUPON, J. W., WINKELHAKE, J. L., KOPPLIN, J., Brasch, R. C.
  1989; 24 (8): 609-615

- **METABOLIC AND ANATOMIC DEVELOPMENT OF THE CHICK-EMBRYO AS STUDIED BY P-31 MAGNETIC-RESONANCE SPECTROSCOPY AND PROTON MRI** *PEDIATRIC RADIOLOGY*

Moseley, M. E., Wendland, M. F., Darnell, D. K., Gooding, C. A.
1989; 19 (6-7): 400-405

- **MAGNETIC-RESONANCE IMAGING OF THE ISCHEMIC FEMORAL-HEAD IN PIGS - DEPENDENCY OF SIGNAL INTENSITIES AND RELAXATION-TIMES ON ELAPSED TIME** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
  Lang, P., Jergesen, H. E., Genant, H. K., Moseley, M. E., SCHULTEMONTING, J.
  1989: 272-280

- **A MODEL OF ACUTE REGIONAL MYOCARDIAL ISCHEMIA AND REPERFUSION IN THE RAT** *MAGNETIC RESONANCE IN MEDICINE*
  Sievers, R. E., Schmiedl, U., Wolfe, C. L., Moseley, M. E., Parmley, W. W., Brasch, R. C., Lipton, M. J.
  1989; 10 (2): 172-181

- **MAGNETIC-RESONANCE IMAGING AND P-31 MAGNETIC-RESONANCE SPECTROSCOPY FOR EVALUATING FOCAL CEREBRAL-ISCHEMIA** *JOURNAL OF NEUROSURGERY*
  Germano, I. M., Pitts, L. H., Berry, I., Moseley, M.
  1989; 70 (4): 612-618

- **VASCULAR MAPPING USING ALBUMIN-(GD-DTPA), AN INTRAVASCULAR MR CONTRAST AGENT, AND PROJECTION MR IMAGING** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*
  Moseley, M. E., White, D. L., Wang, S. C., WIKSTROM, M. G., DUPON, J. W., Gobbel, G., Roth, K., Brasch, R. C.
  1989; 13 (2): 215-221

- **ACUTE MYOCARDIAL ISCHEMIA AND REPERFUSION - MR IMAGING WITH ALBUMIN-GD-DTPA** *RADIOLOGY*
  Schmiedl, U., Sievers, R. E., Brasch, R. C., Wolfe, C. L., Chew, W. M., Ogan, M. D., ENGESETH, H., Lipton, M. J., Moseley, M. E.
  1989; 170 (2): 351-356

- **Assessment of male infertility: correlation between results of semen analysis and phosphorus-31 magnetic resonance spectroscopy.** *Urology*
  Bretan, P. N., Vigneron, D. B., MCCLURE, R. D., Hricak, H., TOM, R. A., Moseley, M., Tanagho, E. A., James, T. L.
  1989; 33 (2): 116-119

- **NICARDIPINE REDUCES ISCHEMIC BRAIN INJURY - MAGNETIC-RESONANCE IMAGING SPECTROSCOPY STUDY IN CATS** *STROKE*
  Kucharczyk, J., Chew, W., Derugin, N., Moseley, M., Rollin, C., Berry, I., Norman, D.
  1989; 20 (2): 268-274

- **ASSESSMENT OF MALE-INFERTILITY - CORRELATION BETWEEN RESULTS OF SEMEN ANALYSIS AND P-31 MAGNETIC-RESONANCE SPECTROSCOPY** *UROLOGY*
  Bretan, P. N., Vigneron, D. B., Hricak, H., TOM, R. A., Moseley, M., Tanagho, E. A., James, T. L.
  1989; 33 (2): 116-119

- **STEREOSCOPIC MR IMAGING** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*
  Moseley, M. E., White, D. L., Wang, S. C., WIKSTROM, M., Gobbel, G., Roth, K.
  1989; 13 (1): 167-173

- **AVASCULAR NECROSIS OF THE FEMORAL-HEAD - HIGH-FIELD-STRENGTH MR IMAGING WITH HISTOLOGIC CORRELATION** *RADIOLOGY*
  Lang, P., Jergesen, H. E., Moseley, M. E., Block, J. E., Chafetz, N. I., Genant, H. K.
  1988; 169 (2): 517-524

- **CHARACTERIZATION OF HIGH-ENERGY PHOSPHATE-COMPOUNDS DURING REPERFUSION OF THE IRREVERSIBLY INJURED MYOCARDIUM USING P-31 MRS** *MAGNETIC RESONANCE IN MEDICINE*
  Wendland, M. F., White, R. D., Derugin, N., Finkbeiner, W. E., McNamara, M. T., Moseley, M. E., Lipton, M. J., Higgins, C. B.
  1988; 7 (2): 172-183

- **FERROUS INTRAOCULAR FOREIGN-BODIES AND MAGNETIC-RESONANCE IMAGING** *AMERICAN JOURNAL OF OPHTHALMOLOGY*
  Williams, S., Char, D. H., Dillon, W. P., Lincoff, N., Moseley, M.
  1988; 105 (4): 398-401

- **THE EFFECT OF HYPOXIA ON TRAUMATIC HEAD-INJURY IN RATS - ALTERATIONS IN NEUROLOGIC FUNCTION, BRAIN EDEMA, AND CEREBRAL BLOOD-FLOW** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
  Ishige, N., Pitts, L. H., Berry, I., Carlson, S. G., Nishimura, M. C., Moseley, M. E., Weinstein, P. R.
  1987; 7 (6): 759-767

- **INSITU BRAIN METABOLISM** *ANNALS OF THE NEW YORK ACADEMY OF SCIENCES*
  James, T. L., Chang, L. H., Chew, W., GONZALEZMENDEZ, R., Litt, L., Mills, P., Moseley, M., Pereira, B., Sessler, D. I., Weinstein, P. R.
  1987; 508: 64-80

- **LOCALIZED IMAGING USING STIMULATED ECHOES** *MAGNETIC RESONANCE IN MEDICINE*
  Mills, P., Chew, W., Litt, L., Moseley, M.
  1987; 5 (4): 384-389

- **MAGNETIC-RESONANCE-IMAGING OF MYOCARDIAL-INFARCTION USING ALBUMIN-(GD-DTPA), A MACROMOLECULAR BLOOD-VOLUME CONTRAST AGENT IN A RAT MODEL** *INVESTIGATIVE RADIOLOGY*
  Schmiedl, U., Moseley, M. E., Sievers, R., Ogan, M. D., Chew, W. M., ENGESETH, H., Finkbeiner, W. E., Lipton, M. J., Brasch, R. C.
  1987; 22 (9): 713-721

- **ALBUMIN LABELED WITH GD-DTPA - AN INTRAVASCULAR CONTRAST-ENHANCING AGENT FOR MAGNETIC-RESONANCE BLOOD POOL IMAGING - PREPARATION AND CHARACTERIZATION** *INVESTIGATIVE RADIOLOGY*
  Ogan, M. D., Schmiedl, U., Moseley, M. E., Grodd, W., Paajanen, H., Brasch, R. C.
  1987; 22 (8): 665-671

- **AN INVIVO STUDY OF HALOTHANE UPTAKE AND ELIMINATION IN THE RAT-BRAIN WITH FLUORINE NUCLEAR-MAGNETIC-RESONANCE SPECTROSCOPY** *ANESTHESIOLOGY*
  Litt, L., GONZALEZMENDEZ, R., James, T. L., Sessler, D. I., Mills, P., Chew, W., Moseley, M., Pereira, B., Severinghaus, J. W., Hamilton, W. K.
  1987; 67 (2): 161-168

- **AN INVIVO F-19 NUCLEAR-MAGNETIC-RESONANCE STUDY OF ISOFLURANE ELIMINATION FROM THE RABBIT BRAIN** *ANESTHESIOLOGY*
  Mills, P., Sessler, D. I., Moseley, M., Chew, W., Pereira, B., James, T. L., Litt, L.
  1987; 67 (2): 169-173

- **LACTATE ACCUMULATION IN ISCHEMIC-ISOLATED AND ANOXIC-ISOLATED RAT HEARTS ASSESSED BY H-1 SPECTROSCOPY** *INVESTIGATIVE RADIOLOGY*
  Richards, T. L., Terrier, F., Sievers, R. E., Lipton, M. J., Moseley, M. E., Higgins, C. B.
  1987; 22 (8): 638-641

- **COMPARISON OF INITIAL BIODISTRIBUTION PATTERNS OF GD-DTPA AND ALBUMIN-(GD-DTPA) USING RAPID SPIN-ECHO MR IMAGING** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*
  Schmiedl, U., Moseley, M. E., Ogan, M. D., Chew, W. M., Brasch, R. C.
  1987; 11 (2): 306-313

- **ASSESSMENT OF TESTICULAR METABOLIC INTEGRITY WITH P-31 MR SPECTROSCOPY** *RADIOLOGY*
  Bretan, P. N., Vigneron, D. B., Hricak, H., MCCLURE, R. D., YEN, T. S., Moseley, M., Tanagho, E. A., James, T. L.
  1987; 162 (3): 867-871

- **MR IMAGING AND SPECTROSCOPY IN CLINICAL AND EXPERIMENTAL CEREBRAL-ISCHEMIA - A REVIEW** *AMERICAN JOURNAL OF ROENTGENOLOGY*
  BRANTZAWADZKI, M., Weinstein, P., Bartkowski, H., Moseley, M.
  1987; 148 (3): 579-588

- **Spin-echo fluorine magnetic resonance imaging at 2 T: in vivo spatial distribution of halothane in the rabbit head.** *Magnetic resonance imaging*
  Chew, W. M., Moseley, M. E., Mills, P. A., Sessler, D., González-Méndez, R., James, T. L., Litt, L.
  1987; 5 (1): 51-56

- **MR IMAGING AND SPECTROSCOPY IN CLINICAL AND EXPERIMENTAL CEREBRAL-ISCHEMIA - A REVIEW** *AMERICAN JOURNAL OF NEURORADIOLOGY*
  BRANTZAWADZKI, M., Weinstein, P., Bartkowski, H., Moseley, M.
  1987; 8 (1): 39-48

- **Contrast-enhancing properties of Gd-DTPA at 2.0 Tesla.** *Radiation medicine*
  Schmiedl, U., Moseley, M. M., Ogan, M. D., Chew, W. M., Brasch, R. C.
  1987; 5 (1): 1-5

- **COMPARISON OF THE CONTRAST-ENHANCING PROPERTIES OF ALBUMIN-(GD-DTPA) AND GD-DTPA AT 2.0-T - AN EXPERIMENTAL-STUDY IN RATS** *AMERICAN JOURNAL OF ROENTGENOLOGY*
  Schmiedl, U., Ogan, M. D., Moseley, M. E., Brasch, R. C.
  1986; 147 (6): 1263-1270
- **Combined magnetic resonance imaging and bihemispheric magnetic resonance spectroscopy in acute experimental focal cerebral ischemia.** *Acta radiologica. Supplementum*
  Levy, R. M., Berry, I., Moseley, M. E., Weinstein, P. R.
  1986; 369: 507-511
- **Magnetic resonance imaging in the evaluation of nimodipine-treated acute experimental focal cerebral ischemia.** *Acta radiologica. Supplementum*
  Germano, I. M., Bartkowski, H. M., Berry, I., Moseley, M., Brant-Zawadzki, M., Pitts, L. H.
  1986; 369: 49-52
- **Combined magnetic resonance imaging and spectroscopy in experimental regional injury of the brain. Ischemia and impact trauma.** *Acta radiologica. Supplementum*
  Berry, I., Moseley, M., Germano, I. M., Ishige, N., Nishimura, M. C., Bartkowski, H. M., Pitts, L. H., Brant-Zawadzki, M.
  1986; 369: 338-349
- **A NOVEL DOUBLE-SURFACE COIL APPROACH TO P-31 SPECTROSCOPY - A STUDY OF HEMISPHERIC BRAIN INJURY IN THE RAT** *MAGNETIC RESONANCE IN MEDICINE*
  Chew, W. M., Moseley, M. E., Nishimura, M. C., Hashimoto, T., Pitts, L. H., James, T. L.
  1985; 2 (6): 567-575
- **MAGNETIC-RESONANCE IMAGING AND SPECTROSCOPY OF HEPATIC IRON OVERLOAD** *RADIOLOGY*
  Stark, D. D., Moseley, M. E., Bacon, B. R., Moss, A. A., Goldberg, H. I., Bass, N. M., James, T. L.
  1985; 154 (1): 137-142
- **Magnetic field dependence of spin-lattice relaxation enhancement using piperidinyl nitroxyl spin-labels.** *Magnetic resonance imaging*
  LOVIN, J. D., WESBEY, G. E., ENGELSTAD, B. L., Sosnovsky, G., Moseley, M., TUCK, D. L., Brasch, R. C.
  1985; 3 (1): 73-81
- **GALLBLADDER BILE - AN EXPERIMENTAL-STUDY IN DOGS USING MR IMAGING AND PROTON MR SPECTROSCOPY** *RADIOLOGY*
  DEMAS, B. E., Hricak, H., Moseley, M., Wall, S. D., Moon, K., Goldberg, H. I., Margulis, A. R.
  1985; 157 (2): 453-455
- **NMR IMAGING AND SPECTROSCOPY OF EXPERIMENTAL BRAIN EDEMA** *JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE*
  Bartkowski, H. M., Pitts, L. H., Nishimura, M., BRANTZAWADZKI, M., Moseley, M., Young, G.
  1985; 25 (3): 192-196
- **CHARACTERIZATION OF LYMPHADENOPATHY BY MAGNETIC-RESONANCE RELAXATION-TIMES - PRELIMINARY-RESULTS** *RADIOLOGY*
  DOOMS, G. C., Hricak, H., Moseley, M. E., Bottles, K., Fisher, M., Higgins, C. B.
  1985; 155 (3): 691-697
- **In vivo sodium-23 magnetic resonance surface coil imaging: observing experimental cerebral ischemia in the rat.** *Magnetic resonance imaging*
  Moseley, M. E., Chew, W. M., Nishimura, M. C., Richards, T. L., Murphy-Boesch, J., Young, G. B., MARSCHNER, T. M., Pitts, L. H., James, T. L.
  1985; 3 (4): 383-387
- **TRANSLATIONAL MOLECULAR SELF-DIFFUSION IN MAGNETIC-RESONANCE IMAGING .2. MEASUREMENT OF THE SELF-DIFFUSION COEFFICIENT** *INVESTIGATIVE RADIOLOGY*
  WESBEY, G. E., Moseley, M. E., Ehman, R. L.
  1984; 19 (6): 491-498
- **TRANSLATIONAL DIFFUSION IN DISCOTIC MESOPHASES STUDIED BY THE NUCLEAR MAGNETIC-RESONANCE PULSED FIELD GRADIENT-METHOD** *JOURNAL OF PHYSICAL CHEMISTRY*
  Dong, R. Y., Goldfarb, D., Moseley, M. E., Luz, Z., Zimmermann, H.
  1984; 88 (14): 3148-3152
- **Translational Diffusion of CH4 and CH2Cl2 Dissolved in Cholesteric Liquid Crystals.** *Mol. Cryst. Liq. Cryst.*
  Moseley, M. E., et al

1984; 95 (279-285)

- **Proton nuclear magnetic resonance spectroscopy of normal and edematous brain tissue in vitro: changes in relaxation during tissue storage.** *Magnetic resonance imaging*
  Moseley, M. E., Nishimura, M. C., Pitts, L. H., Bartkowski, H. M., James, T. L.
  1984; 2 (3): 205-209
- **TRANSLATIONAL MOLECULAR SELF-DIFFUSION IN MAGNETIC-RESONANCE IMAGING .1. EFFECTS ON OBSERVED SPIN-SPIN RELAXATION** *INVESTIGATIVE RADIOLOGY*
  WESBEY, G. E., Moseley, M. E., Ehman, R. L.
  1984; 19 (6): 484-490
- **Translational Diffusion in Discotic Mesophases Studied by the NMR Pulsed-Field Gradient Method.** *J. Phys.Chem*
  Dong, R. Y., Goldfarb, D., Moseley, M. E., Luz, Z., Zimmerman, H.
  1984; 88
- **Anisotropic Solvent Translational Diffusion in PBLG Solution.** *J. Phys. Chem. 87, 18-21 (1983).*
  Moseley, M. E.
  1983; 87 (18-21)
- **ANISOTROPIC SOLVENT TRANSLATIONAL DIFFUSION IN SOLUTIONS OF POLY(GAMMA-BENZYL-L-GLUTAMATE)** *JOURNAL OF PHYSICAL CHEMISTRY*
  MOSELEY, M. E.
  1983; 87 (1): 18–20
- **ANISOTROPIC TRANSLATIONAL DIFFUSION OF METHANE IN N-(4-NORMAL-PENTYLOXYBENZYLIDENE)-4-NORMAL-HEXYLANILINE (50.6)** *MOLECULAR CRYSTALS AND LIQUID CRYSTALS*
  Moseley, M. E., Loewenstein, A.
  1983; 95 (1-2): 51-58
- **TRANSLATIONAL DIFFUSION OF CH4 AND CH2CL2 DISSOLVED IN CHOLESTERIC LIQUID-CRYSTALS** *MOLECULAR CRYSTALS AND LIQUID CRYSTALS*
  Moseley, M. E., Poupko, R., Luz, Z.
  1983; 95 (3-4): 279-285
- **Anisotropic Translational Diffusion of Methane in N-(4-n-pentyloxybenzylidene)-4-n-hexylanilene (50.6).** *Mol. Cryst. Liq. Cryst. 95, 279-285 (1983).*
  Moseley, M. E., et al
  1983; 95 (279-285)
- **Determination of Pitch in a Cholesteric DSCG-Water Lyomesophase by NMR Techniques.** *Mol. Cryst. Liq. Cryst. 89, 119-135 (1982).*
  Goldfarb, D., Moseley, M. E., Labes, M. M., Luz, Z.
  1982; 89 (119-135)
- **ANISOTROPIC TRANSLATIONAL DIFFUSION OF METHANE AND CHLOROFORM IN THERMOTROPIC NEMATIC AND SMECTIC LIQUID-CRYSTALS** *MOLECULAR CRYSTALS AND LIQUID CRYSTALS*
  Moseley, M. E., Loewenstein, A.
  1982; 90 (1-2): 117-144
- **RING INVERSION IN PARA-DIOXANE - A DEUTERIUM NMR-STUDY IN LIQUID-CRYSTALLINE SOLVENTS** *JOURNAL OF MAGNETIC RESONANCE*
  Moseley, M. E., Poupko, R., Luz, Z.
  1982; 48 (3): 354-360
- **DETERMINATION OF PITCH IN A CHOLESTERIC DSCG-WATER LYOMESOPHASE BY NMR TECHNIQUES** *MOLECULAR CRYSTALS AND LIQUID CRYSTALS*
  Goldfarb, D., Moseley, M. E., Labes, M. M., Luz, Z.
  1982; 89 (1-4): 119-135
- **Ring Inversion in p-Dioxane: A Deuterium NMR Study in Liquid Crystalline Solvents.** *J. Magn. Reson. 48, 354-361 (1982).*
  Moseley, M. E., et al
  1982; 48 (354-361)

- **Anisotropic Translational Diffusion of Methane and Chloroform in Thermotropic Nematic and Smectic Liquid Crystals.** *Mol. Cryst. Liq. Cryst.*
  Moseley, M. E., et al
  1982; 90 (117-140)
- **MOLECULAR-MOTION OF SMALL MOLECULES IN CELLULOSE GELS STUDIED BY NMR** *JOURNAL OF APPLIED POLYMER SCIENCE*
  Nystrom, B., Moseley, M. E., BROWN, W., Roots, J.
  1981; 26 (10): 3385-3394
- **FOURIER-TRANSFORM NMR SELF-DIFFUSION AND MICRO-EMULSION STRUCTURE** *JOURNAL OF COLLOID AND INTERFACE SCIENCE*
  Lindman, B., STILBS, P., Moseley, M. E.
  1981; 83 (2): 569-582
- **SOLVENT SELF-DIFFUSION IN SEMIDILUTE POLYSTYRENE SOLUTIONS - PULSED-GRADIENT SPIN-ECHO MEASUREMENTS ON A STANDARD FOURIER-TRANSFORM NMR SPECTROMETER** *POLYMER*
  Nystrom, B., Moseley, M. E., STILBS, P., Roots, J.
  1981; 22 (2): 218-220
- **DYNAMICS OF MACROMOLECULAR CHAINS - C-13 SPIN RELAXATION STUDY OF SHORT-CHAIN POLYSTYRENES IN DEUTERO-CHLOROFORM SOLUTION** *POLYMER*
  STILBS, P., Moseley, M. E.
  1981; 22 (3): 321-326
- **ON THE NH PROTON TUNNELLING RATE IN MESO-TETRAPHENYLPORPHINE (TPP)** *JOURNAL OF THE CHEMICAL SOCIETY-FARADAY TRANSACTIONS II*
  STILBS, P., Moseley, M. E.
  1980; 76: 729-731
- **FOURIER-TRANSFORM NMR SELF-DIFFUSION MEASUREMENTS ON MICRO-EMULSIONS** *JOURNAL OF MAGNETIC RESONANCE*
  STILBS, P., MOSELEY, M. E., LINDMAN, B.
  1980; 40 (2): 401–4
- **C-13 PULSED-GRADIENT SPIN-ECHO STUDIES, A METHOD FOR THE ELIMINATION OF J-MODULATION AND PROTON-EXCHANGE EFFECTS IN SELF-DIFFUSION MEASUREMENTS** *CHEMICA SCRIPTA*
  STILBS, P., MOSELEY, M. E.
  1980; 15 (4-5): 215–16
- **FOURIER-TRANSFORM C-13 PULSED-GRADIENT SPIN-ECHO STUDIES - THE SELF-DIFFUSION OF TRANS-DECALIN IN THE POLYSTYRENE-TRANS-DECALIN SYSTEM** *CHEMICA SCRIPTA*
  Moseley, M. E., STILBS, P.
  1980; 16 (4): 114-116
- **ANISOTROPIC MOLECULAR-REORIENTATION OF TRANS-DECALIN IN SOLUTION - EXPERIMENTAL TEST OF HYDRODYNAMIC MODELS** *CHEMICA SCRIPTA*
  Moseley, M. E.
  1980; 16 (1-2): 28-33
- **MULTICOMPONENT SELF-DIFFUSION MEASUREMENT BY THE PULSED-GRADIENT SPIN-ECHO METHOD ON STANDARD FOURIER-TRANSFORM NMR SPECTROMETERS** *CHEMICA SCRIPTA*
  STILBS, P., Moseley, M. E.
  1980; 15 (4-5): 176-179
- **NUCLEAR SPIN-ECHO EXPERIMENTS ON STANDARD FOURIER-TRANSFORM NMR SPECTROMETERS - APPLICATION TO MULTICOMPONENT SELF-DIFFUSION STUDIES** *CHEMICA SCRIPTA*
  STILBS, P., Moseley, M. E.
  1979; 13 (1): 26-28
- **APPLICABILITY OF WOESSNER EQUATIONS FOR THE ANALYSIS OF C-13 SPIN-LATTICE RELAXATION DATA** *JOURNAL OF MAGNETIC RESONANCE*
  STILBS, P., MOSELEY, M. E.
  1979; 33 (1): 209–10

- **STUDY OF N-14 RELAXATION AND NITROGEN-PROTON SPIN COUPLING IN WATSON-CRICK BASE PAIR MODELS THROUGH FOURIER-TRANSFORM MEASUREMENTS ON NH PROTON SPIN-LATTICE RELAXATION IN THE ROTATING FRAME** *CANADIAN JOURNAL OF CHEMISTRY-REVUE CANADIENNE DE CHIMIE*
  Moseley, M. E., STILBS, P.
  1979; 57 (9): 1075-1079

- **CHEMICAL EXCHANGE-RATES FROM FOURIER-TRANSFORM MEASUREMENTS OF NUCLEAR-SPIN-LATTICE RELAXATION IN ROTATING FRAME - APPLICATION TO HINDERED INTERNAL-ROTATION IN UREAS** *JOURNAL OF MAGNETIC RESONANCE*
  STILBS, P., Moseley, M. E.
  1978; 31 (1): 55-61

- **C-13 NUCLEAR-SPIN - LATTICE-RELAXATION STUDY OF ANISOTROPIC SOLVENT ROTATIONAL DIFFUSION IN POLYSTYRENE-TRANS-DECALIN SYSTEM** *POLYMER*
  Moseley, M. E., STILBS, P.
  1978; 19 (10): 1133-1136

- **STUDY OF N-14 RELAXATION AND NITROGEN-PROTON SPIN COUPLING IN NUCLEOSIDE, INDOLE, AND EPSILON-CAPROLACTAM SYSTEMS THROUGH FOURIER-TRANSFORM MEASUREMENTS OF NH PROTON SPIN-LATTICE RELAXATION IN ROTATING FRAME** *CANADIAN JOURNAL OF CHEMISTRY-REVUE CANADIENNE DE CHIMIE*
  Moseley, M. E., STILBS, P.
  1978; 56 (9): 1302-1305