

Journal Articles (18)

1. Cameron E², Dyke JP, Hernandez N, Louis ED, Dydak U* (2018). Cerebral Gray Matter Volume Losses in Essential Tremor: A Case- Control Study Using High Resolution Tissue Probability Maps. *Parkinsonism Relat Disord*. 2018 Jun;51:85-90.
2. Cheng H*, Kellar D, Lake A, Finn P, Rebec GV, Dharmadhikari S, Dydak U, Newman S. Effects of alcohol cues on MRS glutamate levels in the anterior cingulate. *Alcohol Alcohol*. 2018 May 1;53(3):209-215.
3. Ma RE², Ward EJ², Yeh CL², Long Z², Snyder S, Gokalp Yavuz F, Zauber SE, Dydak U* (2018). Thalamic GABA as early marker of manganese-induced toxicity: correlation with exposure levels and neurological functions. *Neurotoxicology*. 2018 Jan; 64:30-42.
4. Pesch B*, Dydak U*[#], Lotz A, Casjens S, Quetscher C, Lehnert M, Abramowski J, Stewig C, Yeh CL², Weiss T, Van Thriel C, Herrmann L, Muhlack S, Voitalla D, Glaubitz B, Schmidt-Wilcke T, Brüning T (2018). Association of exposure to manganese and iron with relaxation rates R1 and R2* - magnetic resonance imaging results from the WELDOX II study. *Neurotoxicology*. 2018 Jan; 64:68-77.
5. Bowler RM, Yeh, CL², Adams SW, Ward EJ², Ma R², Dharmadhikari S², Snyder SA, Wright CW, Dydak U* (2018). Association of MRI T1 Relaxation Time with Neuropsychological Test Performance in Manganese-Exposed Welders. *Neurotoxicology*. 2018 Jan;64:19-29.
6. Casjens A*, Dydak U, Dharmadhikari S², Lotz A, Lehnert M, Quetscher C, Stewig C, Glaubitz B, Schmidt-Wilcke T, Yeh CL², Weiss T, VanThriel C, Hermann L, Muhlack S, Voitalla D, Aschner M, Brüning T, Pesch B (2018). Association of exposure to manganese and iron with striatal and thalamic GABA and other neurometabolites – neuroimaging results from the WELDOX II study. *Neurotoxicology*. 2018 Jan;64:60-67.
7. Louis E*, Hernandez N, Dyke J, Ma RE², Dydak U (2017). In vivo Dentate Nucleus Gamma-aminobutyric Acid Concentration in Essential Tremor vs. Controls. *Cerebellum* 2018; 17(2):165-172. PMID: PMC5851820
8. Specht AJ, Kponee K, Nkpaa KW, Balcom PH, Weuve J, **Nie LH**, Weisskopf MG. Validation of X-ray Fluorescence Measurements of Metals in Toenail Clippings against Inductively Coupled Plasma Mass Spectrometry in a Nigerian Population. *Physiol Meas*. Epub ahead of publication. 2018 Aug 31;39(8):085007. doi: 10.1088/1361-6579/aad947.
9. Lin Y, Huang L, Specht AJ, Xu J*, Yan C, Geng H, Shen X, **Nie LH***, Howard H. The association of bone lead and blood lead with child attention-deficit-hyperactivity-disorder-like behavior. *Sci Total Environ*. 659(2018)161-167
10. Rolle-McFarland D, Liu Y, Zhou J, Mostafaei F, Zhou Y, Li Y, Fan Q, Zheng W, **Nie LH***, Wells EM*. 2018. Development of a cumulative exposure index (CEI) for manganese and comparison with bone manganese and other biomarkers of manganese exposure. *International Journal of Environmental Research and Public Health*. E-Pub ahead of print. 15: 1341. doi: 10.3390/ijerph15071341.
11. Specht AJ, Weisskopf M, **Nie LH***. Childhood lead biokinetics and associations with age among a group of lead poisoned children in China. *Journal of Exposure Science & Environmental Epidemiology*, E-Pub ahead of print, doi: 10.1038/s41370-018-0036-y.
12. Coyne M, Neumann C, Zhang X, Byrne P, Liu Y, Weaver CM, **Nie LH***. Compact DD generator based In Vivo Neutron Activation Analysis (IVNAA) System to Determine Sodium Concentrations in Human Bone. *Physiological Measurement*. 39(2018)055004. doi: 10.1088/1361-6579/aabe66.
13. Abel MR and **Nie LH***. Monte Carlo Simulations of Elemental Imaging using the Neutron Associated Particle Technique. *Medical Physics*, 45(2018)1631-1644.
14. Specht AJ, Lin Y, Xu J, Weisskopf M, **Nie LH***. Bone Lead Levels in an Environmentally Exposed Elderly Population in Shanghai, China. *Science of Total Environment*. 626(2018)96-98

15. Liu Y, Rolle-McFarland D, Mostafaei F, Zhou Y, Li Y, Zheng W, Wells EM*, **Nie LH***. In Vivo Neutron Activation Analysis (IVNAA) of Bone Manganese (Mn) in Workers, Physiological Measurement, 39(2018)035003
16. Specht A, Parish CN, Wallens EK, Watson RT, **Nie LH***, Weisskopf MG. Validation of X-ray Fluorescence Bone Lead Measurements of Condor Bones. Science of Total Environment. 615(2018)398-403
17. Zhang X, Specht AJ, Weisskopf MG, Weuve J, **Nie LH***. Quantification of Manganese and Mercury in Toenail In Vivo Using Portable X-ray Fluorescence (XRF). Biomarkers, 23(2018)154-160
18. Wells EM*, Liu Y, Rolle D, Mostafaei F, Zheng W, **Nie LH***. In Vivo Measurement of Bone Manganese and Association with Manual Dexterity: a Pilot Study. Environmental Research, 160(2018)35-38

Conference Presentations / Abstracts (31)

1. Klem M and **Stantz K**. Feasibility of a prototype RACT scanner to Image Proton Beam in the Brain, Annual Medical Physics, SU-E-202-1, Medical Physics 45(6): 2722, 2018 (selected for Oral presentation)
2. Klem M, Moskvin V, Hecksel D, Pankuch M, **Stantz K**. Design and Construction of a prototype RACT scanner, SU-F-KDBR1-05, Medical Physics 45(6):2724, 2018 (selected for Oral presentation)
3. Miles D, Moskvin V, **Stantz K**. A Monte Carlo study of STING induction in radiation therapy, TH-EF-KDRBRA1-01, Medical Physics 45(6):2792, 2018 (selected for Oral presentation)
4. Miles D, Nguyen T, Moustaki A, Stirm F, Youngblood B, **Stantz K**. Photoacoustic CT to characterize acute and chronic hypoxia, TU-K-207-06, Medical Physics 45(6):2774, 2018 (selected for oral presentation)
5. Napiwocki M and Le Y. A Plan Quality Assurance Methods for HDR Brest Brachytherapy Balloon Applicator, SU-H330-GePD-F7-6, Medical Physics 45(6):2727, 2018
6. Diller E, Lober R, Parker J. Using Nosologic Imaging Algorithms to Quantitatively Stage Differentiation in Adult Primary Glioma, SU-H330-GePD-F9-6, Medical Physics 45(6):2727, 2018
7. Boria A, **Perez-Torres C*** (2018) Measurement of Radiation-Induced Injury in Mouse Brain by Magnetic Resonance Imaging and Histology. Annual Meeting of The American Association of Physicists in Medicine. Nashville TN. Poster
8. McIlrath DR, **Perez-Torres C*** (2018) MRI of Whole Thoracic Radiation Injury Murine Model Of Pulmonary Fibrosis. Annual Meeting of The American Association of Physicists in Medicine. Nashville TN. E-Poster
9. Athanasiadi I*, Rancilio NJ, Plantenga J, Dahl S, **Perez-Torres CJ** (2018) Radiation induced brain injury in a mouse model utilizing a novel positional device, IMRT planning, and a 6 MV linear accelerator. American College of Veterinary Radiology Scientific Conference. Fort Worth TX.
10. Boria A, Lampion NR, Roach EA, and **Perez-Torres CJ*** (2018) In vivo MRI of radiation-induced effects caused by mouse head irradiation. 64th Annual Meeting Of The Radiation Research Society, Chicago IL. Poster
11. **Uzay E Emir**, Pingyu Xia, Xiaopeng Zhou, Mark Chiew, Adam Steel, M Albert Thomas, **Ulrike Dydak**, Non-water Suppressed GABA editing Magnetic Resonance Spectroscopic Imaging using density weighted concentric rings k-space trajectory, ISMRM, 2018
12. Xia P, Keehn BM, Zhou X, Dydak U, Emir UE. Feasibility of High Resolution Magnetic Resonance Spectroscopic Imaging in Children with Autism Spectrum Disorder. Purdue Autism Research Conference, West Lafayette, IN, Oct 18, 2018.
13. Edmondson DA, Xia P, Keehn BM, Dydak U. Neurochemistry and the Visual Search Advantage in Autism Spectrum Disorder. Oral presentation. Purdue Autism Research Conference, West Lafayette, IN, Oct 18, 2018.

14. Alhulail A, Xia P, Zhou X, Thomas MA, Dydak U, Emir UE. Musculoskeletal Fat Quantification by Using High-Resolution Metabolite Cycling Magnetic Resonance Spectroscopic Imaging at 3 T, MRS Workshop, Utrecht, The Netherlands, Oct 2018.
15. Emir UE, Xia P, Zhou X, Chiew M, Thomas MA, Dydak U. “Density-Weighted Concentric Ring Trajectory using simultaneous multi-slice (SMS) acceleration: 3D Metabolite-cycled Magnetic Resonance Spectroscopy Imaging at 3 T”, MRS Workshop, Oct 2018, Utrecht, The Netherlands
16. Bartolomeo L, Wright A, Ma R, Hummer T, Francis M, Visco A, Mehdiyou N, Bolbecker AR, Moravec L, Hetrick WP, Dydak U, O’Donnell BF, Breier A. Relationship of Brain Metabolites to Neurocognition in Early Stage Psychosis. Oral presentation at the 32nd Annual Meeting of the Society for Research in Psychopathology, Indianapolis, IN, USA, September 20-23, 2018.
17. Cameron EM, Ostrowski K, Dyke JP, Bogner W, Ukropec J, Louis ED, Dydak U. T2* MRI Presents Differences in Iron Deposition in Essential tremor and Parkinson’s Disease. AAPM Annual Meeting, Nashville, Tennessee, July 28 – Aug 2, 2018.
18. Cameron EM, Dyke JP, Louis ED, Dydak U. On the Importance of Using High-Resolution Atlases for Voxel-Based Morphometry of High-Resolution MRI Data: A Case-Control Study on Essential Tremor. Submitted to ISMRM 26th Scientific Meeting & Exhibition, Paris, France, June 16-21,2018. (Educational Stipend)
19. Yeh CL, Dydak U. Towards Quantification of Manganese Deposition in the Human Brain in the Presence of Iron: A Calibration Study. Submitted to ISMRM 26th Scientific Meeting & Exhibition, Paris, France, June 16-21,2018.
20. Edmondson DA, Xia P, Patterson DA, Keehn B, Dydak U. Cortical GABA levels correlate with visual search performance in children with autism spectrum disorder. ISMRM 26th Scientific Meeting & Exhibition, Paris, France, June 16-21,2018. (Educational Stipend)
21. Emir UE, Xia P, Xiaopeng Z, Chiew M, Steel A, Thomas MA, Dydak U. Non-water suppressed GABA Edited Magnetic Resonance Spectroscopic Imaging using Density Weighted Concentric Rings k-space Trajectory. ISMRM 26th Scientific Meeting & Exhibition, Paris, France, June 16-21,2018.
22. Edmondson DA, Yeh CL, Davis J, Helie S, Dydak U. Using MRI and unsupervised learning methods to characterize whole-brain Mn accumulation in welders. Toxicology and Risk Assessment Conference (TRAC), Cincinnati, OH, April 23-26, 2018
23. Lotz A, Pesch B, Casjens S, Lehnert M, Glaubitz B, Quetscher C, Yeh CL, Gabriele S, Weiss T, Schmidt-Wilcke T, Dydak U, Van Thriel C, Brüning T. Ist die Handgelenks-Finger-Geschwindigkeit bei Schweißern aufgrund einer Manganexposition verändert? Ergebnisse der WELDOX II Studie. 58th Annual Meeting of the German Society for Occupational and Environmental Medicine (DGAUM), Munich, Germany, March 7-9, 2018.
24. Coyne M, Neumann C, Zhang X, Byrne P, Lobene A, Lachcik P, Weaver CM, **Nie LH***. Quantification of Sodium (Na) in Bone with In Vivo Neutron Activation Analysis (IVNAA) and Its Implications on Na Retention Studies. Metals Study Symposium, June. 14-15, 2018, Boston MA
25. Neumann C, Coyne M, Zhang X, Byrne P, **Nie LH***. Quantification of Manganese in Bone using In Vivo Neutron Activation Analysis (IVNAA). Metals Study Symposium, June.14-15, 2018, Boston, MA
26. Zhang X, Specht AJ, Weisskopf MG, Weuve J, **Nie LH***. Quantification of Bone Lead and Toenail Manganese and Mercury In Vivo with X-ray Fluorescence Technology. Metals Study Symposium, June.14-15, 2018, Boston MA
27. **Nie LH***, Liu Y, Rolle-McFarland D, Mostafaei F, Zhou Y, Li Y, Zheng W, Wells E. In Vivo Neutron Activation Analysis of Bone Manganese (MnBn) in Workers. Metals Study Symposium. June. 14-15, 2018, Boston MA
28. Abel MR, **Nie LH***. Monte Carlo Simulation of Elemental Imaging Using Neutron Associated Particle Technique. Annual HPS meeting, Jul.15-19, 2018, Cleveland, OH

29. Hasan Z, Rolle-McFarland DR, Liu Y, Mostafaei F, Zheng W, **Nie LH**, Wells E. The Association between Olfactory and Cognitive Function Tests with Aluminum Biomarkers in an Occupationally Exposed Population from China. ISEE annual meeting, Aug.26-30, 2018, Ottawa, Canada
30. Zhang X, Specht AJ, Weisskopf MG, Weuve J, **Nie LH***. Quantification of Bone Lead and Toenail Manganese and Mercury In Vivo with X-ray Fluorescence Technology. ERC UofChicago Center PPRT meeting, Mar. 8-9, 2018, Chicago, IL
31. Rolle-McFarland D, Liu Y, Mostafaei F, Zheng W, **Nie LH**, Wells E. Association between Blood, Nail, and Bone Manganese with Motor Function among Chinese Workers. SOT annual meeting, Mar.11-15, 2018, San Antonio, TX