

Publications

1. **Dharmadhikari S**, Romito L, Dziedzic M, **Dydak U**, Xu J, Bodkin C L, Manchanda S, Byrd K. GABA and Glutamate Levels in Occlusal Splint-Wearing Males with Possible Bruxism. Published online in March 2015, Archives of Oral Biology. doi:10.1016/j.archoralbio.2015.03.006.
2. **Alsanea F**, Moskvin V **Stantz K**. Feasibility of RACT for 3D dose measurement and range verification in a water phantom. *Med Phys* **42**(2):937-946, 2015. doi: 10.1118/1.4906241. (Editor's Choice Award)
3. **Lee CW**, Guo L, Matei D, **Stantz K** (2015) Development of Follicle-Stimulating Hormone Receptor Binding Probes to Image Ovarian Xenografts. *J Biotechnol Biomater* 5:198. doi:10.4172/2155-952X.1000198
4. **Sowers D**, **Liu Y**, **Mostafaei F**, **Blake S**, **Nie LH** (2015). A Dosimetry Study of Deuterium-Deuterium Neutron Generator-Based *in vivo* Neutron Activation Analysis. *Health Physics*, 109: 566-572
5. **Mostafaei F**, **Blake SP**, **Liu Y**, **Sowers DA**, **Nie LH** (2015). Compact DD Generator-based Neutron Activation Analysis (NAA) System to Determine Fluorine in Human Bone In Vivo: A Feasibility Study. *Physiological Measurement*, 36: 2057-2067
6. Yang, Y.; Zheng, Y.; **Tomaselli, E.**; Wei Fang.; and **Liu, S.** Impact of boronate-capping groups on biological characteristics of ^{99m}Tc(III) complexes [^{99m}TcCl(CDO)(CDOH)₂B-R] (CDOH₂ = cyclohexanedione dioxime). *Bioconj. Chem.* **2015**, 26: 316–328.
7. Zheng, Y.; Ji, S.; Yang, Y.; **Tomaselli, E.**; and **Liu, S.** ¹¹¹In-Labeled cyclic RGD peptides useful as integrin $\alpha_v\beta_3$ -targeted radiotracers for breast tumor imaging. *Nucl. Med. Biol.* **2015**, 42: 137-145.
8. **Srivastava SP**, **Das IJ**, Andrews J, Cheng CW, Dose perturbation due to metallic breast expander in electron and photon beam treatment of breast cancer, *J Radiat Oncol*, 3, 65-72, 2014; DOI: 10.1007/s13566-013-0109-4.
9. **Srivastava, S**, Cheng CW, **Das IJ**, Image Guidance-Based Target Volume Margin Expansion in IMRT of Head and Neck Cancer, *Tech Cancer Res Treat*, ePpub November 28, (doi: 10.1177/1533034614561162 2014).
10. Hansen T, Bartlett G, Manina E, **Srivastava SP**, Cox J, **Das IJ**, Dosimetric comparison of techniques, Savi, IMRT and proton beam in partial breast irradiation, *Int J Particle Therapy*, 2(2) 376-384, 2015, DOI: 10.14338/IJPT-15-00006.1.
11. **Srivastava S**, Cheng CW, **Das IJ**, Effect of slice thickness on target and organs at risk volumes, dosimetric coverage and radiobiological impact in IMRT planning, *Clin Transl Oncol* 2015 10.1007/s12094-015-1390-z.
12. **Srivastava S**, Cheng CW, **Das IJ**, The dosimetric and radiobiological impact of grid size on head and neck IMRT, (in review *Physica Medica*, 2015).

Abstracts/presentations:

1. **Dharmadhikari S**, **Ma R**, **Yeh CL**, Snyder S, Zauber SE, Dydak U. MRS of basal-ganglia in Parkinson's Disease reveals higher GABA levels. *ISMRM 23rd Scientific Meeting & Exhibition, Toronto, Canada, May30-June5 2015. Proc. Intl. Soc. Mag. Reson. Med.* 23:2209
2. **Ma R**, Lotz A, Dydak U. Increased GABA Levels in Manganese Neurotoxicity: Biochemical Effect or Mn-induced Change of GABA T1 Relaxation Time? *ISMRM 23rd Scientific Meeting & Exhibition, Toronto, Canada, May30-June5 2015. Proc. Intl. Soc. Mag. Reson. Med.* 23:4650
3. **Yeh CL**, Ward E, Snyder S, Rosenthal F, Dydak U. Manganese Accumulations in Brain and Toenails reflect Different Time Periods of Exposure. *ISMRM 23rd Scientific Meeting & Exhibition, Toronto, Canada, May30-June5 2015. Proc. Intl. Soc. Mag. Reson. Med.* 23:1914

4. Zauber SE, Dharmadhikari S, Snyder S, Dydak U. Elevated Thalamic GABA Levels in Parkinson disease, measured by 3 Tesla MR spectroscopy, correlate with disease severity. *American Academy of Neurology 67th Annual Meeting, April 18 - 25, 2015, Washington, DC.*
5. Dydak U, Dharmadhikari S, Snyder S, Zauber SE. Increased Thalamic GABA Levels Correlate with Parkinson Disease Severity. *AD/PD Conference 2015, Nice, France, March 18-21 2015.*
6. Kornblith ES, Bowler RM, Moriyaso M, Garcia R, Ma R, Dharmadhikari S, Dydak U. Normative data for healthy English-speaking adults on the learning, interference and post-interference recall trials (1-7) of the WHO-UCLA-AVLT. *International Neuropsychological Society Meeting (INS) Annual Convention, Denver, CO, USA, Feb 4-7, 2015.*
7. Ma R, Zauber E, Yeh CL, Long Z, Snyder S, Dydak U. *In Vivo* Changes in Basal Ganglia GABA Levels Indicate That Manganese Targets the Indirect Pathway. *Society of Toxicology 54th annual meeting, San Diego, CA, USA, March 22-26 2015.*
8. Yeh CL, Ward E, Snyder S, Rosenthal F, **Dydak U**. Manganese accumulations in brain and in toenails reflect different time periods of exposure. *Society of Toxicology 54th annual meeting, San Diego, CA, USA, March 22-26 2015.*
9. Verleker AP, Fang Q, Choi M-R, Clare S, **Stantz KM**. An empirical approach to estimate near-infrared photon propagation and optically induced drug release in brain tissues. *Proc SPIE BiOS 9308-29: 1-8, 2015 (doi: 10.1117/12.2079991)*
10. Sick J, Rancilio N, Blake S, Heng H, Poulson J, Knapp D, **Stantz K**. Ultrasound guided radiation therapy of the canine urinary bladder using a custom designed image guidance platform. *Spring Clinical Meeting of the American Association of Physicists in Medicine. Program and Abstracts, St. Louis, MO, March 7-10, 2015.*
(http://www.jacmp.org/index.php/jacmp/article/viewFile/5634/pdf_315)
11. Wu J, Wu H, **Das I**, Dosimetric Comparison of HDR Brachytherapy and Intensity Modulated Proton Therapy, *Med Phys, 41(6), 251, 2014.*
12. Srivastava S, Cheng C, **Das I**, The Effect of Slice Thickness on IMRT Planning, *Med Phys, 41(6), 297, 2014.*
13. Srivastava S, Cheng C, **Das I**, Impact of Calculation Grid Size On Dosimetry and Radiobiological Parameters for Head and Neck IMRT, *Med Phys, 41(6), 330-331, 2014.*
14. Srivastava SP, Cheng CW, **Das I**, Effect of slice thickness on target and organs at risk volumes, dosimetric coverage and radiobiological impact in IMRT planning, *Int J Radiat Oncol Biol Phys 90(1S) S867-S868, 2014.*
15. Srivastava S, Andersen A, Lulu B, Cheng C, **Das I**, Estimation of whole body dose from cranial irradiation from C and perfection series Gamma knife units, *Med Phys 42, 3417-3418, 2015.*
16. Srivastava S, Andersen A, Cheng C, **Das I**, IMRT dosimetry differences in an institution with community and academic model, *Med Phys 42, 3627, 2015.*
17. Hansen T, Bartlett G, Srivastava SP, Cox J, **Das IJ**, Dosimetric comparison of techniques, Savi, IMRT and proton beam in partial breast irradiation, *Int J Radiat Oncol Biol Phys, 93 (3S), E8, 2015.*
18. Sowers D, Liu Y, Mostafaei F, Blake S, **Nie LH**. Deuterium-Deuterium Neutron Generator for Neutron Activation Analysis In Vivo: A Dosimetry Study. Abstract accepted and project presented at the 2015 HPS annual meeting, Jul.12-16, Indianapolis, IN
19. Hsieh M, Liu Y, **Nie LH**. A D-D Based Neutron Generator System for Boron Neutron Capture Therapy: A Feasibility Study. Abstract accepted and project presented at the 2015 AAPM annual meeting, Jul.12-16, Anaheim, CA (**PGSG Travel Award To Hsieh**)
20. **Nie LH**. Noninvasive Quantification of Metals in Human Tissues In Vivo. Abstracted accepted and research presented at the 2015 ISES annual meeting (Invited Speaker), Oct. 18-22, Henderson, NV
21. **Nie LH**. Noninvasive Quantification of Metals in Human Bone In Vivo. Abstract accepted and research presented at the 2015 SOT annual meeting (Co-chair for the symposium), Mar.22-26, San Diego, CA

22. **Nie LH**, Liu Y, Mostafaei F, Rolle D, Zheng W, Wells E. A Pilot Study on Mn Exposure and Neurological Effects Using Bone Mn as a Biomarker. Abstract accepted and project presented at the 2015 University of Cincinnati PRP symposium (Invited Speaker), Oct. 8-9, Cincinnati, OH