

CURRICULUM VITAE

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Personal Data: Born 9/30/1977, Chicago, IL
Married with 2 children

Education: University of Illinois at Urbana-Champaign
Champaign, IL, Biology, 1999
University of Wisconsin-Madison
Madison, WI, B.S., 2006

Hospital Positions:

Research Technician, Department of Neuroscience
Rush Presbyterian-St. Luke's Medical Center, Chicago, IL, 2000 - 2003
Research Assistant/Graduate Student, Department of Medical Physics
University of Wisconsin-Madison, Madison, WI, 2004 - 2011
Medical Physicist/Assistant Radiation Safety Officer, Department of Medical Physics
Texas Health Presbyterian Hospital Dallas, Dallas, TX, 2011- 2014
Medical Physicist, Department of Radiology
University of Washington Medical Center, Seattle, WA, 2014 - Present

Honors:

Graduate Research Assistantship, University of Wisconsin-Madison, 2004 – 2011
Student Travel Award, American Society for Neural Transplant and Repair, 2006
Student Travel Award, World Molecular Imaging Congress, 2009

Board Certification:

American Board of Radiology, Diagnostic Medical Physics, 2014
Mammography Quality Standards Act, approved, 2014

Professional Organizations:

American Association of Physicists in Medicine (AAPM), 2004-present
Health Physics Society, 2012-present

Teaching Responsibilities:

Lecturer, Diagnostic Radiology Imaging Physics Course: Radiology resident instruction in the physics of diagnostic radiology.

Department of Radiology, University of Washington, Seattle, WA,
2014-Present

Lecturer, Medical Student Clerkship, Quarterly Medical Student Clerkship Physics lectures as part of the Medical Student Radiology Education Lecture Series, Department of Radiology, University of Washington, Seattle, WA,
2014-Present

Bibliography:

Manuscripts in Refereed Scientific Journals

1. Emborg ME, Tetrud JW, Moirano J, McLaughlin WW, Bankiewicz KS. Rest tremor in rhesus monkeys with MPTP-induced parkinsonism. *Frontiers in Bioscience*; 2003 May 1;8:a148-54.
2. Emborg ME, **Moirano J**, Schafernak KT, Moirano M, Evans M, Konecny T, Roitberg B, Ambarish P, Mangubat E, Ma Y, Eidelberg D, Holden J, Kordower JH, Leestma JE. Basal ganglia lesions after MPTP administration in rhesus monkeys. *Neurobiol Dis*. 2006 Aug;23(2):281-9.
3. Emborg ME, Carbon M, Holden JE, During MJ, Ma Y, Tang C, **Moirano J**, Fitzsimons H, Roitberg BZ, Tuccar E, Roberts A, Kaplitt MG, Eidelberg D. Subthalamic glutamic acid decarboxylase gene therapy: changes in motor function and cortical metabolism. *J Cereb Blood Flow Metab*. 2007 Mar;27(3):501-9. Jul 12.
4. Emborg ME, Ebert AD, **Moirano J**, Peng S, Suzuki M, Capowski E, Joers V, Roitberg BZ, Aebischer P, Svendsen CN. GDNF-secreting human neural progenitor cells increase tyrosine hydroxylase and VMAT2 expression in MPTP-treated cynomolgus monkeys. *Cell Transplant*. 2008;17(4):383-95.
5. Emborg ME, **Moirano JM**, Raschke J, Bondarenko V, Zufferey R, Peng S, Ebert AD, Joers V, Roitberg B, Holden JE, Koprach J, Lipton J, Kordower JH, Aebischer P. Response of aged parkinsonian monkeys to in vivo gene transfer of GDNF. *Neurobiology of Disease*. 2009, Nov;36(2):303-11.
6. Vandehey NT, **Moirano JM**, Converse AK, Holden J, Mukherjee J, Murali D, Nickles RJ, Davidson R, Schneider M, Christian BT. High affinity dopamine D₂/D₃ PET radioligands 18F-fallypride and 11C-FLB₄₅₇: A comparison of kinetics in extrastriatal regions using a multiple injection protocol. *J Cereb Blood Flow Metab*. 2010 May;30(5):994-1007.

7. Hillmer AT, Wooten DW, **Moirano JM**, Slesarev M, Barnhart TE, Engle JW, Nickles RJ, Murali D, Schneider ML, Mukherjee J, Christian BT. Specific $\alpha 4\beta 2$ nicotinic acetylcholine receptor binding of [F-18]nifene in the rhesus monkey. *Synapse*. 2011 Dec;65(12):1309-18.
8. Wooten DW, Hillmer AT, **Moirano JM**, Ahlers EO, Slesarev M, Barnhart TE, Mukherjee J, Schneider ML, Christian BT. Measurement of 5-HT(1A) receptor density and in-vivo binding parameters of [(18)F]mefway in the nonhuman primate. *J Cereb Blood Flow Metab*. 2012 Aug;32(8):1546-58.
9. Wooten DW, Hillmer AT, **Moirano JM**, Tudorascu DL, Ahlers EO, Slesarev MS, Barnhart TE, Mukherjee J, Schneider ML, Christian BT. 5-HT1A sex based differences in Bmax, in vivo KD, and BPND in the nonhuman primate. *Neuroimage*. 2013 Aug 15;77:125-32.
10. Converse AK, Moore CF, **Moirano JM**, Ahlers EO, Larson JA, Engle JW, Barnhart TE, Murali D, Christian BT, DeJesus OT, Holden JE, Nickles RJ, Schneider ML. (2013) Prenatal stress induces increased striatal dopamine transporter binding in adult nonhuman primates. *Biol Psychiatry*. 2013 Oct 1;74(7):502-10.
11. Converse AK, Moore CF, Holden JE, Ahlers EO, **Moirano JM**, Larson JA, Resch LM, DeJesus OT, Barnhart TE, Nickles RJ, Murali D, Christian BT, (2014) Schneider ML. Moderate-level prenatal alcohol exposure induces sex differences in dopamine d1 receptor binding in adult rhesus monkeys. *Alcohol Clin Exp Res*. 2014 Dec;38(12):2934-43.
12. Clements J, **Moirano J**, Sherry C, Barr P, Berg J (2015) Best practices for evaluating and tracking protective garments. *J Am Coll Radiol*. 2015 May;12(5):531-2.

Book Chapters

1. **Moirano, J** and Emborg, ME. "Nonhuman Primate Models for Testing Gene Therapy for Neurodegenerative Disorders" in Gene Therapy in the Central Nervous System. Eds Kaplitt, M and Doring, M. Academic Press 2006.109-117

Oral Presentations

1. Converse AK, DeJesus OT, Flores LG, Holden JE, Kelley AE, **Moirano JM**, Nickles RJ, Oakes TR, Roberts AD, Ruth TJ, Vandehey NT, Davidson RJ (2005) Development of a dual tracer PET method for imaging dopaminergic neuromodulation [invited plenary talk]. *Proceedings of the 9th International Conference on Advanced Technology and Particle Physics: Astroparticle, Particle and Space Physics, Detectors and Medical Physics Applications* 682-691, 17-21 October 2005, Villa Olmo, Como
2. **Moirano J**, Zufferey R, Peng S, Ebert A, Joers V, Breburda E, Roitberg B, Holden J, Koprlich J, Lipton J, Kordower JH, Aebischer P, Emborg ME. (2006) Lentiviral Delivery

of GDNF in Aged MPTP-Treated Rhesus Monkeys: Correlations Between Functional Measures *American Society for Neural Therapy and Repair* Clearwater 4-7 May 2006

3. Vandehey NT, **Moirano J**, Murali DM, Vogt KA, Converse AK, Nickles RJ, Muhkerjee J, Larson, J, Schneider M, Davidson R, Christian B. (2008) A comparison of PET tracers for measuring extrastriatal dopamine D₂/D₃ binding. *Society for Neuroscience Annual Meeting*, 15-18 Nov 2008, Washington DC
4. Vandehey N, **Moirano J**, Murali D, Converse A, Engle J, Nickles RJ, Holden J, Muhkerjee J, Schneider M, Christian B. (2009) Considerations in choosing a tracer for measuring extrastriatal dopamine D₂/D₃ binding. *Society of Nuclear Medicine Annual Meeting*, 13-17 June 2009 Toronto Canada
5. **Moirano JM** (2013) Resolving Common Technologist Radiation Safety Issues. *Society For Nuclear Medicine and Molecular Imaging – Southwest Chapter Annual Meeting* 5-7 April Las Colinas, TX