

Curriculum vitae

Christopher Pierson, MD, PhD

The Research Institute at Nationwide Children's Hospital
Research II Bldg- 5th Floor, WA5016
700 Children's Drive
Columbus, OH 43205
P: 614-355-2723
christopher.pierson@nationwidechildrens.org

ACADEMIC APPOINTMENTS:

- July 2007-present Assistant Professor, Department of Pathology, The Ohio State University College of Medicine and Public Health, Columbus, OH.
- July 2007-present Principle Investigator, The Research Institute at Nationwide Children's Hospital, Center for Childhood Cancer, Columbus, OH.
- July 2007- present Faculty, Integrated Biomedical Graduate Program, The Ohio State University.
- July 2004- June 2007 Instructor in Pathology, Department of Pathology, Harvard Medical School, Boston, MA.

HOSPITAL APPOINTMENTS:

- July 2007- present Neuropathologist, Department of Laboratory Medicine, Nationwide Children's Hospital, Columbus, OH.
- July 2005- June 2007 Associate Pathologist, Department of Pathology, Division of Neuropathology, Children's Hospital Boston, Boston, MA.
- November 2004- June 2007 Associate Pathologist, Department of Pathology, Division of Neuropathology Brigham and Women's Hospital, Boston, MA.

EDUCATION AND TRAINING:

- Research Fellowship: Alan H. Beggs PhD Laboratory, Children's Hospital Boston, Division of Genetics/ Program in Genomics, Boston, MA. March 2004- June 2007.
- Neuropathology Fellowship: Combined Brigham and Women's Hospital and Children's Hospital Boston Neuropathology Training Program, Boston, MA. July 2002- June 2004.
- Anatomic Pathology Residency: Wayne State University School of Medicine/Detroit Medical Center, Department of Pathology. July 1997 - June 2002.
- Graduate: PhD, Major in Pathology, Wayne State University School of Medicine Department of Pathology 1998 - 2002. GPA 4.0/4.0.
- Thesis: "Proinsulin C-peptide Deficiency Partially Accounts for the Differences in Peripheral Nerve Regeneration Between Type 1- and Type 2- Diabetic Neuropathies."
Advisor: Anders Sima, M.D., Ph.D.
- Professional: MD Wayne State University School of Medicine 1997.

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EDUCATION AND TRAINING (continued):

Undergraduate: BS, Michigan State University, Microbiology and Health Humanities, with honors 1993.

PUBLICATIONS:

1) **CR Pierson**, RD Folkerth, SS Billiards, FL Trachtenberg, ME Drinkwater, JJ Volpe, HC Kinney. Gray Matter Injury Associated with Periventricular Leukomalacia in the Premature Infant. *Acta Neuropathologica (Berl)* 2007.

2) **CR Pierson**, PB Agrawal, J Blasko, AH Beggs. Myofiber size correlates with *MTM1* mutation type and outcome in X-linked Myotubular Myopathy. *Neuromuscular Disorders* (2007) 17: 562-568.

3) RH Brown Jr., PE Grant, **CR Pierson**. Case Records of Massachusetts General Hospital. Case 35-2006: A Newborn Boy with Hypotonia. *N Engl J Med* (2006) 355: 2132-2142.

4) KC Gorson, LS Adelman, **CR Pierson**, AH Beggs. Sporadic, Adult-Onset Nemaline Myopathy Presenting as Camptocormia (Bent-Spine Syndrome). *J Clin Neuromusc Dis* (2006) 8: 7-11.

5) A Sima, W Zhang, Z-G Li, Y Murakawa, **CR Pierson**. Molecular Alterations Underlie Nodal and Paranodal Degeneration in Type 1 Diabetic Neuropathy and are Prevented by C-peptide. *Diabetes* (2004) 53: 1556-1563.

6) **CR Pierson**, W Zhang, A Sima. Proinsulin C-peptide Replacement in Type 1 Diabetic BB/Wor-rats Prevents Deficits in Nerve Fiber Regeneration. *J Neuropathol Exp Neurol* (2003) 62: 765-779.

7) **CR Pierson**, W Zhang, Y Murakawa, A Sima. Insulin Deficiency Rather than Hyperglycemia Accounts for Impaired Neurotrophic Responses and Nerve Fiber Regeneration in Type 1 Diabetic Neuropathy. *J Neuropathol Exp Neurol* (2003) 62: 260-271.

8) NV Adsay, K Merati, H Nassar, J Shia, F Sarkar, **CR Pierson**, JD Cheng, DW Visscher, RH Hruban, DS Klimstra. Pathogenesis of Colloid (Pure Mucinous) Carcinoma of Exocrine Organs. *Am J Surg Pathol* (2003) 27: 571-578.

9) **CR Pierson**, W Zhang, Y Murakawa, A Sima. Early Gene Responses of Trophic Factors in Nerve Regeneration Differ in Experimental Type 1 and Type 2 Diabetic Polyneuropathies. *J Neuropathol Exp Neurol* (2002) 61: 857-871.

10) **CR Pierson**, R McGowen, DJ Grignon, W Sakr, J Dey, S Sheng. Maspin is Up-regulated in Premalignant Prostate Epithelia. *The Prostate* (2002) 53:255-262.

11) Y Murakawa, W Zhang, **CR Pierson**, T Brismar, C-G Ostenson, S Efendic, A Sima. Sustained Impaired Glucose Tolerance in the GK-rat Causes Peripheral Neuropathy. *Metab Res Rev* (2002) 18: 473-483.

12) X Gang, **CR Pierson**, Y Murakawa, A Sima. Altered Tubulin and Neurofilament Expression and Impaired Axonal Growth in Diabetic Nerve Regeneration. *J Neuropathol Exp Neurol* (2002) 61: 164-175.

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Publications (continued):

- 13) W Zhang, M Yorek, **CR Pierson**, Y Murakawa, A Breidenbach, A Sima. Human C-peptide Dose Dependently Prevents Early Neuropathy in the BB/Wor-rat. *J Exp Diabetes Res* (2001) 2:187-193.
- 14) NV Adsay, J Cheng, **CR Pierson**, DS Klimstra. Colloid Carcinoma of the Pancreas. *Case Rev Surg Pathol* (2001) 6: 115-120.
- 15) **CR Pierson**, M Schober, T Wallis, F Sarkar, PHB Sorensen, JN Eble, JR Strigley, EC Jones, DJ Grignon. Mixed Epithelial and Stromal Tumor of the Kidney Lacks the Genetic Alterations of Cellular Congenital Mesoblastic Nephroma. *Human Pathol* (2001) 32(5): 513-520.
- 16) NV Adsay, **C. Pierson**, F Sarkar, J Abrams, D Weaver, KC Conlon, MF Brennan, DS Klimstra Colloid (Mucinous Non-Cystic) Carcinoma of the Pancreas. *Am J Surg Pathol* (2001) 25(1): 26-42.
- 17) **CR Pierson**, W Sakr, F Sarkar, JE Pontes, J Crissman, DJ Grignon. Retinoblastoma Gene Expression as a Prognostic Indicator in Invasive Bladder Cancer. *J Urologic Pathol* (2000) 12:1-12.
- 18) MK Gugnani, **CR Pierson**, R Vander Heide, RE Girgis. Pulmonary Edema Complicating Prostacyclin Therapy in Pulmonary Hypertension Associated with Scleroderma. *Arthritis and Rheum* (2000) 43: 699-703.
- 19) **CR Pierson**, H Nassar, W Sakr, R Banerjee, DJ Grignon. Primary Malignant Fibrous Histiocytoma of the Urinary Bladder: A Case Report and Review of the Literature. *J Urologic Pathol* (1999) 11:195-205.
- 20) D Nie, GG Hillman, T Geddes, K Tang, **CR Pierson**, DJ Grignon, KV Honn. Platelet-type 12-lipoxygenase Regulates Angiogenesis in Human Prostate Carcinoma. *Adv Exp Med Biol* (1999) 469:623-630.
- 21) D Nie, GG Hillman, T Geddes, K Tang, **CR Pierson**, DJ Grignon, KV Honn. Platelet-type 12-lipoxygenase in Human Prostate Carcinoma Stimulates Angiogenesis and Tumor Growth. *Cancer Res* (1998) 58:4047-4051.

BOOK CHAPTERS AND INVITED REVIEWS:

- 22) SS Billiards, **CR Pierson**, RL Haynes, RD Folkerth, HC Kinney. Is the Late Preterm Infant More Vulnerable to Gray Matter Injury than the Term Infant? *Clin Perinatol* (2006) 915-933.
- 23) **CR Pierson**, K Tomczak, P Agrawal, B Moghadaszadeh, AH Beggs. The Myotubular and Centronuclear Myopathies. *J Neuropathol Exp Neurol* (2005) 64: 555-564.
- 24) **CR Pierson** and A Sima. Metabolic Alterations in Experimental Models of Diabetic Neuropathy. In: *Diabetic Neuropathy*. Eds: F.A. Gries, N.E. Cameron, P.A Low, D. Ziegler. Thieme International, Stuttgart, Germany. 2003, 96-105.

PUBLISHED ABSTRACTS

- **CR Pierson**, ET DeChene, C Kretz, J Laporte, MA Barger, AS Geggel, AH Beggs. Autosomal Centronuclear Myopathies: A Clinicopathologic Study of 16 Cases. 12th International Congress of the World Muscle Society, Giardini Naxos-Taormina, Italy, October 17-20, 2007. *Neuromuscular disorders* 17 (2007) 880. doi:10.1016/j.nmd.2007.06.397. Poster Presentation (C.P.4.07).

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Published Abstracts (continued):

-**CR Pierson**, RD Folkerth, FL Trachtenberg, ME Drinkwater, JJ Volpe, HC Kinney. Substantial Gray Matter Injury is Associated with Periventricular Leukomalacia in the Premature Infant. XVI International Congress of Neuropathology, San Francisco, CA. Sept 10-15, 2006. Brain Pathol (2006) 16:Suppl 1, S87. Platform Presentation.

- **CR Pierson**, J Blasko, F Shapiro, B Darras, A Buj-Bello, JL Mandel, AH Beggs. X-linked Myotubular Myopathy: A Study of Muscle Morphology in Eleven Biopsies From Ten Patients with Documented MTM1 Mutations. International Congress of Myology. Nantes, France, May 9-13, 2005. Poster presentation.

-**CR Pierson**, K Richkind, KL Ligon, LC Goumnerova, U De Girolami. Primary Meningeal Sarcomatosis (PMS): A Case Report with Cytogenetic Findings and a Review of the Literature. J Neuropathol Exp Neurol (2004). American Association of Neuropathologists, 80th Annual Meeting, June 2004, Cleveland, OH. Poster presentation.

-**CR Pierson**, BT Darras, W Xin, U De Girolami. Late Infantile Neuronal Ceroid Lipofuscinosis Due to Heterozygous CLN2 Mutations Including a Novel T3915G Point Mutation in One Allele J Neuropathol Exp Neurol (2004). American Association of Neuropathologists, 80th Annual Meeting, June 2004, Cleveland, OH. Poster presentation.

- **CR Pierson**, RD Folkerth, RL Haynes, ME Drinkwater, HC Kinney. Gray Matter Injury in Premature Infants with or without Periventricular Leukomalacia (PVL). J Neuropathol Exp Neurol (2003) 62:159. American Association of Neuropathologists 79th Annual Meeting, June 2003, Orlando, FL. Platform presentation.

-**CR Pierson**, J Garbern, JA Golden, W Kupsky, A Sima. Neuronal System Degeneration in Pelizaeus-Merzbacher Disease with PLP1 Gene Duplication. J Neuropathol Exp Neurol (2002) 61:34. American Association of Neuropathologists 78th Annual Meeting, June 2002, Denver, CO. Platform presentation.

- A Sima, Y Murkawa, W Zhang, **CR Pierson**. Immediate Early Gene Responses and Nerve Regeneration Differ in Type 1 and Type 2 Diabetic Neuropathy. J Neuropathol Exp Neurol (2002) 61:90. American Association of Neuropathologists 78th Annual Meeting Denver, CO, June 2002. Poster presentation.

- **CR Pierson**, W Zhang, Y Murakawa, J Wahren, A Sima. Molecular Pathology of the Node of Ranvier in Type I Diabetic Neuropathy: A Role for Insulin and C-Peptide Deficiencies? American Diabetes Association 61st Annual Meeting & Scientific Sessions, June 2001, Philadelphia, PA. Poster presentation.

- A Sima, Y Murakawa, W Zhang, J Wahren, **CR Pierson**. Alterations in Insulin Receptor Isoform Expression in Sciatic Nerve and Dorsal Root Ganglia in Type I BB/W-, BB/W-C-Peptide Treated and Type II BB/Z-Rats. American Diabetes Association 61st Annual Meeting & Scientific Sessions, June 2001, Philadelphia, PA. Platform presentation.

- A Sima, M Yorek, **CR Pierson**, Y Murakawa, A Breidenbach, W Zhang. Dose Dependent Prevention of Early Neuropathy in the BB/Wor-rat with Human C-Peptide. American Diabetes Association 61st Annual Meeting & Scientific Sessions, June 2001, Philadelphia, PA. Poster presentation.

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Published Abstracts (continued):

- N Adsay, **CR Pierson**, F Sarkar, S Zee, D Klimstra. Immunophenotypic Features of Intraductal Papillary Mucinous Neoplasms (IPMN) of the Pancreas: Comparative Immunohistochemical Analysis of Oncoprotein Expression in Various Components of IPMNs. *Int J Pancreatol* (2000) 28(2):103. Combined meeting of the International Association of Pancreatology and the American Pancreatic Association, November 2000, Chicago, IL. Poster presentation.

-A Sima, K Sugimoto, W Zhang, **CR Pierson**, Y Murakawa. C-peptide Prevents Nodal and Paranodal Structural and Molecular Changes in Type I Diabetic Neuropathy. *Diabetes* (2000) Vol. 49: Suppl 1A167. 60th Scientific Sessions American Diabetes Association, June 2000, San Antonio, TX. Poster presentation.

- **CR Pierson**, R McGowen, C Butler, D Grignon, W Sakr, S Sheng. Maspin Expression as a Marker in the Progression of Prostatic Carcinoma (PC): An Immunohistochemical Study. *Mod Pathol* (2000) 13(3): 111A. United States and Canadian Academy of Pathology Annual Meeting, New Orleans, LA, March 2000. Poster presentation.

- **CR Pierson**, T Wallis, J Eble, J Srigley, E Jones, D Grignon, N Adsay. Solid Cystic Tumor of the Kidney Lacks Cytogenetic Abnormalities Typical of Mesoblastic Nephroma. *Mod Pathol* (1999) 12(1): 104A. United States and Canadian Academy of Pathology Annual Meeting, San Francisco, CA, March 1999. Poster presentation.

- N Adsay, **CR Pierson**, F Sarkar, DS Klimstra. Invasive Mucinous Colloid-Type Adenocarcinoma of the Pancreas: A Distinct Clinicopathologic Entity. *Mod Pathol* (1999) 12(1): 159A. United States and Canadian Academy of Pathology Annual Meeting, San Francisco, CA, March 1999. Platform presentation.

INVITED PRESENTATIONS:

“An Introduction to Peripheral Nerve Pathology”. Boston University School of Medicine, Department of Pathology. Boston, MA. February 20, 2007.

“Pathology of Mitochondrial and Peroxisomal Disorders” as part of a mini-symposium on metabolic diseases at the annual meeting of the American College of Veterinary Pathologists and American Society of Veterinary Clinical Pathologists. Boston, MA. December 3-7, 2005.

“A Newborn Boy with Hypotonia” with RH Brown Jr. and PE Grant as part of the Case Records of Massachusetts General Hospital. Boston, MA. February 2005.

“Merosin-deficient Congenital Muscular Dystrophy.” In the Diagnostic Slide Session at the American Association of Neuropathologists, 80th Annual Meeting, Cleveland, OH. June 2004.

CERTIFICATIONS:

Ohio Medical License

Massachusetts Medical License

Diplomate, Anatomic Pathology, American Board of Pathology, July 2002.

Diplomate, Neuropathology, American Board of Pathology, September 2005

