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**2014-present:** Research Instructor in the laboratory of P. Jeffrey Conn, Ph.D. Lee E. Limbird Professor of Pharmacology, Director, Vanderbilt Center for Neuroscience Drug Discovery, Department of Pharmacology,Vanderbilt University, Nashville.

**2006-2013:** Research Instructor in the laboratory of Dr. Jonathan L. Haines, Louise B. McGavock Professor of Human Genetics, Department of Molecular Physiology & Biophysics, Vanderbilt University , Nashville.

**2001-2006:** Laboratory Manager in the laboratory of Dr. Jonathan L. Haines, Louise B. McGavock Professor of Human Genetics, Department of Molecular Physiology & Biophysics, Vanderbilt University , Nashville.

**1998-2001**: Research associate in the laboratory of Pr. M. P. Stone, Department of Chemistry, Vanderbilt University, Nashville.

**1994-98:** Research associate in the laboratory of Pr. L.J. Marnett, Department of Biochemistry, Vanderbilt University, Nashville.

**1994**: Ph.D. in Molecular Pharmacochemistry (Professor C. G. Wermuth, Louis Pasteur University, Strasbourg, France)

**1990**: D.E.A. in Medicinal Chemistry (Advanced Graduate Degree, equivalent to a Master in Science, Louis Pasteur University, Strasbourg, France)

**1989**: Maîtrise of Biochemistry (equivalent to a Bachelor in Science, Louis Pasteur University, Strasbourg, France)

## Award

**1990-1993**: Industrial Graduate Student Fellowship in Medicinal Chemistry from Servier.

## Publications

1. Jeff JM, Brown-Gentry K, Goodloe R, Ritchie MD, Denny JC, Kho AN, Armstrong LL, McClellan B Jr, Mayo P, Allen M, Jin H, Gillani NB, **Schnetz-Boutaud N**, Dilks HH, Basford MA, Pacheco JA, Jarvik GP, Chisholm RL, Roden DM, Hayes MG, Crawford DC. Replication of SCN5A Associations with Electrocardio-graphic Traits in African Americans from Clinical and Epidemiologic Studies. Evol Comput Mach Learn Data Min Bioinform. 2014;2014:939-951

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4. Crawford DC, Dumitrescu L, Goodloe R, Brown-Gentry K, Boston J, McClellan B Jr, Sutcliffe C, Wiseman R, Baker P, Pericak-Vance MA, Scott WK, Allen M, Mayo P, **Schnetz-Boutaud N**, Dilks HH, Haines JL, Pollin TI. Rare Variant APOC3 R19X Is Associated With Cardio-Protective Profiles in a Diverse Population-Based Survey as Part of the Epidemiologic Architecture for Genes Linked to Environment Study. Circ Cardiovasc Genet. 2014 Dec;7(6):848-53

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7. Goodloe R, Brown-Gentry K, Gillani NB, Jin H, Mayo P, Allen M, McClellan B Jr, Boston J, Sutcliffe C, **Schnetz-Boutaud N**, Dilks HH, Crawford DC. Lipid trait-associated genetic variation is associated with gallstone disease in the diverse Third National Health and Nutrition Examination Survey (NHANES III). BMC Med Genet. 2013 Nov 21;14:12

8. International Multiple Sclerosis Genetics Consortium (IMSGC), Beecham AH, Patsopoulos NA, Xifara DK, Davis MF, Kemppinen A, Cotsapas C, Shah TS, Spencer C, Booth D, Goris A, Oturai A, Saarela J, Fontaine B, Hemmer B, Martin C, Zipp F, D'Alfonso S, Martinelli-Boneschi F, Taylor B, Harbo HF, Kockum I, Hillert J, Olsson T, Ban M, Oksenberg JR, Hintzen R, Barcellos LF; Wellcome Trust Case Control Consortium 2 (WTCCC2); International IBD Genetics Consortium (IIBDGC), Agliardi C, Alfredsson L, Alizadeh M, Anderson C, Andrews R, Søndergaard HB, Baker A, Band G, Baranzini SE, Barizzone N, Barrett J, Bellenguez C, Bergamaschi L, Bernardinelli L,

Berthele A, Biberacher V, Binder TM, Blackburn H, Bomfim IL, Brambilla P, Broadley S, Brochet B, Brundin L, Buck D, Butzkueven H, Caillier SJ, Camu W, Carpentier W, Cavalla P, Celius EG, Coman I, Comi G, Corrado L, Cosemans L, Cournu-Rebeix I, Cree BA, Cusi D, Damotte V, Defer G, Delgado SR, Deloukas P, di Sapio A, Dilthey AT, Donnelly P, Dubois B, Duddy M, Edkins S, Elovaara I, Esposito F, Evangelou N, Fiddes B, Field J, Franke A, Freeman C, Frohlich IY, Galimberti D, Gieger C, Gourraud PA, Graetz C, Graham A, Grummel V, Guaschino C, Hadjixenofontos A, Hakonarson H, Halfpenny C, Hall G, Hall P, Hamsten A, Harley J, Harrower T, Hawkins C, Hellenthal G, Hillier C, Hobart J, Hoshi M, Hunt SE, Jagodic M, Jelčić I, Jochim A, Kendall B, Kermode A, Kilpatrick T, Koivisto K, Konidari I, Korn T, Kronsbein H, Langford C, Larsson M, Lathrop M, Lebrun-Frenay C, Lechner-Scott J, Lee MH, Leone MA, Leppä V, Liberatore G, Lie BA, Lill CM, Lindén M, Link J, Luessi F, Lycke J, Macciardi F, Männistö S, Manrique CP, Martin R, Martinelli V, Mason D, Mazibrada G, McCabe C, Mero IL, Mescheriakova J, Moutsianas L, Myhr KM, Nagels G, Nicholas R, Nilsson P, Piehl F, Pirinen M, Price SE, Quach H, Reunanen M, Robberecht W, Robertson NP, Rodegher M, Rog D, Salvetti M, **Schnetz-Boutaud NC**, Sellebjerg F, Selter RC, Schaefer C, Shaunak S, Shen L, Shields S, Siffrin V, Slee M, Sorensen PS, Sorosina M, Sospedra M, Spurkland A, Strange A, Sundqvist E, Thijs V, Thorpe J, Ticca A, Tienari P, van Duijn C, Visser EM, Vucic S, Westerlind H, Wiley JS, Wilkins A, Wilson JF, Winkelmann J, Zajicek J, Zindler E, Haines JL, Pericak-Vance MA, Ivinson AJ, Stewart G, Hafler D, Hauser SL, Compston A, McVean G, De Jager P, Sawcer SJ, McCauley JL. Analysis of immune-related loci identifies 48 new susceptibility variants for multiple sclerosis. Nat Genet. 2013 Nov;45(11):1353-60

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Pleiotropy and Selection into Context Defines a New Paradigm for Interpreting Genetic Data. Circ Cardiovasc Genet. 2013 Jun; 6(3):299-307

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11**. Schnetz-Boutaud NC**, Hoffman J, Coe JE, Murdock DG, Pericak-Vance MA, Haines JL. Identification and Confirmation of an Exonic Splicing Enhancer Variation in Exon 5 of the Alzheimer Disease Associated PICALM Gene. Ann Hum Genet. 2012 Nov;76(6):448-53

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individuals at high risk for age-related macular degeneration. PLoS One. 2011 Mar 24;6(3)

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Autism Research. 2008 dec:1(6):364-369

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Conserved Sequences (MCS) as useful markers in association studies: a practical approach. BMC Genomics. 2007 Aug 6;8:266

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34. Liang X, **Schnetz-Boutaud N**, Bartlett J, Anderson BM, Gwirtsma H, Schmechel D, Carney R, Gilbert JR, Pericak-Vance MA, Haines JL. Association Analysis of Genetic Polymorphisms in the CDC2 Gene with Late-Onset Alzheimer Disease. Dement Geriatr Cogn Disord. 2006 Dec 8;23(2):126-132

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36. Haines JL, **Schnetz-Boutaud N**, Schmidt S, Scott WK, Agarwal A, Postel EA, Olson L, Kenealy SJ, Hauser M, Gilbert JR, Pericak-Vance MA. Functional candidate genes in age-related macular degeneration: significant association with VEGF, VLDLR, and LRP6. Invest Ophthalmol Vis Sci. 2006 Jan;47(1):329-35

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53. **Schnetz N**, Guedat P, Spiess B, Schlewer G. Synthesis of thio analogues of myo-inositol-1 monophosphate, as possible inhibitors of myo-inositol-1 monophosphatase. Bull. Soc. Chim. Fr.,133, (1996) 205-208.

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## Communications at Meetings

Employing a phenome-wide association study approach to investigate the pleiotropic nature of mitochondrial DNA variation. S. L. Mitchell, S. A. Pendergrass, R. Goodloe, K. Brown-Gentry, R. McClellan, J. Boston, M. Allen, P. Mayo, **N. Schnetz-Boutaud**, D. G.

Murdock, D. C. Crawford. American Society for Human Genetics, Annual Meeting, October 22-26, 2013, Boston, MA

Genetic Risk Score Modeling in Age-Related Macular Degeneration. J. N. Cooke Bailey, J. D. Hoffman, L. M. Olson, W. Cade, **N. Schnetz-Boutaud**, P. Mayo, M. Allen[1], A. Agarwal, M. A. Brantley, W. K. Scott, M. A. Pericak-Vance, J. L. Haines. American Society for Human Genetics, Annual Meeting, October 22-26, 2013, Boston, MA

Rare variant APOC3 R19X is associated with cardio-protective profiles in a diverse population-based survey as part of the Population Architecture using Genomics and Epidemiology (PAGE) study. D. C. Crawford, L. Dumitrescu, R. Goodloe[1], K. Brown-Gentry[1], C. Sutcliffe[1], R. Wiseman[1], P. Baker[1], H. H. Dilks[1,2], J. Boston, B. McClellan, Jr., P. Mayo, M. Allen, **N. Schnetz-Boutaud**, J. L. Haines, T. I. Pollin . American Society for Human Genetics, Annual Meeting, November 6-10, 2012, San Francisco, CA

Cluster Analysis Defines Subgroups of Phenotypic Expression for Autism Spectrum Disorders. O. J. Veatch, B. Yaspan, **N. Schnetz-Boutaud**, M. A. Pericak-Vance, J. L. Haines . American Society for Human Genetics, Annual Meeting, November 6-10, 2012, San Francisco, CA

Genome-wide association study (GWAS)-identified genetic variants for lipid traits are associated with gallstone disease in the diverse Third National Health and Nutrition Examination Survey. R. Goodloe, K. Brown-Gentry, N. Gillani, H. Jin, P. Mayo, M. Allen, B. McClellan, J. Boston, C. Sutcliffe, **N. Schnetz-Boutaud**, H. Dilks, D. Crawford.

American Society for Human Genetics, Annual Meeting, November 6-10, 2012, San Francisco, CA

A Phenome-Wide Association Study (PheWAS) using multiple National Health and Nutrition Examination Surveys (NHANES) to identify pleiotropy. M. A. Hall, A. Verma, K. D. Brown-Gentry, R. Goodloe, J. Boston, S. Wilson, B. McClellan, C. Sutcliffe[2], H. H. Dilks, N. B. Gillani, H. Jin, P. Mayo, M. Allen, **N. Schnetz-Boutaud**, S. A. Pendergrass, D. C. Crawford, M. D. Ritchie. American Society for Human Genetics, Annual Meeting, November 6-10, 2012, San Francisco, CA

Common cardiovascular disease risk factors are associated with mitochondrial DNA levels. S. Mitchell, K. Brown-Gentry, M. Allen, L. Hunt, P. Mayo, **N. Schnetz-Boutaud**, D. C. Crawford, D. G. Murdock. American Society for Human Genetics, Annual Meeting, November 6-10, 2012, San Francisco, CA

Identification of An Exonic Splicing Enhancer Variation in Exon 5 of the Alzheimer Disease Associated PICALM Gene. Nathalie Schnetz-Boutaud, Joshua Hoffman, Jared Coe, Deborah Murdock, Margaret Pericak-Vance, Jonathan Haines. Alzheimer's Association 2011 International Conference on Alzheimer's Disease (ICAD 2011), Paris

Positive and balancing selection acting on the lectin-like oxidized low density lipoprotein receptor 1 (OLR1) intronic regions. I. M. Predazzi, A. Rokas, **N. Schnetz-Boutaud**, N. D. Williams, A. Tacconelli, A. Deinard, J. L. Haines, G. Novelli, G. Sirugo, S. M. Williams. American Society for Human Genetics, Annual Meeting, October 11-15, 2011, Montreal, Canada

Identification and Confirmation of an Exonic Splicing Enhancer Variation in Exon 5 of the Alzheimer Disease Associated PICALM Gene. **N. C. Schnetz-Boutaud**, J. Hoffman, D. G. Murdock, M. A. Pericak-Vance, J. L. Haines. American Society for Human Genetics, Annual Meeting, October 11-15, 2011, Montreal, Canada

Distribution of Mitochondrial Haplogroups in the National Health and Nutrition Examination Surveys. S. Mitchell, K. D. Brown-Gentry, P. Mayo, M. Allen, **N. Schnetz-Boutaud,** D. Murdock, D. C. American Society for Human Genetics, Annual Meeting, October 11-15, 2011, Montreal, Canada

Using Cluster Analysis to Identify Homogenous Subgroups Within the Autism Spectrum. O. J. Veatch, B. L. Yaspan, **N. Schnetz-Boutaud**, M. A. Pericak-Vance, J. L. Haines . American Society for Human Genetics, Annual Meeting, October 11-15, 2011, Montreal, Canada

BAC-Based Small-Molecule Screen to Investigate Regulation of the Macular Degeneration Candidate Gene HTRA1. J. D. Hoffman, P. C. Mayo, **N. C. Schnetz-Boutaud**, D. P. Mortlock, J. L. American Society for Human Genetics, Annual Meeting, October 11-15, 2011, Montreal, Canada

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