

Curriculum Vitae

BIOGRAPHICAL

Name: Brion Sean Maher
Business Address: Department of Psychiatry/VCU
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EDUCATION

Bachelor of Science	Biological Sciences	University of Pittsburgh	1994
Master of Science	Human Genetics	University of Pittsburgh	1997
Doctor of Philosophy	Human Genetics	University of Pittsburgh	2000

RESEARCH AND PROFESSIONAL EXPERIENCE

2006-present Assistant Professor
Virginia Institute for Psychiatric and Behavioral Genetics,
Department of Psychiatry and Human Genetics (pending), Virginia Commonwealth
University

2002-2006 Assistant Professor
Center for Craniofacial and Dental Genetics, Division of Oral Biology, School of Dental
Medicine, University of Pittsburgh
Member, Center for Education and Drug Abuse Research, University of Pittsburgh

2000-2002 Research Associate
Division of Oral Biology, School of Dental Medicine, University of Pittsburgh

1997-2000 Graduate Student Researcher
Cleft-Palate Craniofacial Center and Department of Human Genetics, University of
Pittsburgh

1995-1997 Graduate Student Researcher
Center for Education and Drug Abuse Research and Department of Human Genetics,
University of Pittsburgh

1994-1995 Research Associate
Neuropsychology and Drug Project, University of Pittsburgh Medical Center

1990-1994 Research Assistant
Center for Education and Drug Abuse Research, University of Pittsburgh Medical Center

Publications

1. Panzak G, Tarter RE, Murali S, Switala J, **Maher B**, & Van Thiel D (1998) Isometric muscle strength in alcoholic and nonalcoholic liver transplantation candidates. *Am J Drug Alcohol Abuse* 24(3): 499-512.
2. **Maher BS**, Marazita ML, Moss HB & Vanyukov MM (1999) Segregation analysis of attention deficit hyperactivity disorder. *Am J Med Genet* 88:71-78.
3. Marazita ML, **Maher BS**, Cooper ME, Silvestri JM, Huffman AD, Smok-Pearsall SM, Kowal MH, and DE Weese-Mayer (2001) Genetic segregation analysis of autonomic nervous system dysfunction in families of probands with idiopathic congenital central hypoventilation syndrome. *Am J Med Genet* 100: 229-236.
4. Weese-Mayer DE, Silvestri JM, Huffman AD, Smok-Pearsall SM, Kowal MH, **Maher BS**, Cooper ME and ML Marazita (2001) Case/control family study of ANS dysfunction in idiopathic congenital hypoventilation syndrome. *Am J Med Genet* 100: 237-245
5. **Maher BS**, Vanyukov MM, Cooper ME, Neiswanger K, Marazita ML (2001) QTL analysis of the liability underlying a common oligogenic disease. *Genetic Epidemiology* 21(Suppl 1):S720-S725.
6. Vanyukov MM, **Maher BS**, Ferrell RE, Devlin B, Marazita ML, Kirillova GP (2001) The dopamine receptor D5 gene and the liability to substance dependence in males: A replication. *J Child Adol Subst Abuse* 10(4):55-63.
7. **Maher BS**, ML Marazita, WN Zubenko, DG Spiker, DE Giles, BB Kaplan, GS Zubenko (2002) Genetic Segregation Analysis of Recurrent, Early-Onset Major Depression: Evidence for Single Major Locus Transmission. *Am J Med Genet* 114(2):214-221.
8. ML Marazita, LL Field, ME Cooper, R Tobias, **Maher BS**, S Peanchitlertkajorn, Y-e Liu. Non-syndromic cleft lip with or without cleft palate in China: Assessment of candidate regions. *Cleft Palate-Craniofacial Journal*, 39(2):149-156, 2002.
9. Marazita ML, Field LL, Cooper ME, Tobias R, **Maher BS**, Peanchitlertkajorn S, Liu Y-e. (2002) Genome-scan for loci involved in cleft lip with or without cleft palate in Chinese multiplex families. *American Journal of Human Genetics* 71(2):349-64.
10. Al-Bustan SA, El-Zawahri MM, Al-Adsani AM, Bang RL, Ghunaim I, **Maher BS**, Weinberg S, Marazita ML. (2002) Epidemiological and genetic study of 121 cases of oral clefts in Kuwait. *Orthod Craniofac Res* 5(3):154-60.
11. **Maher BS**, Marazita ML, Ferrell RE, Vanyukov MM. (2002) Dopamine system genes and attention deficit hyperactivity disorder: A meta-analysis. *Psychiat Genet* 12(4):207-15.
12. **Maher BS**, ML Marazita, WN Zubenko, BB Kaplan, GS Zubenko. (2002) Genetic segregation analysis of alcohol and other substance use disorders in families with recurrent, early-onset major depression. *Am J Drug Alcohol Abuse* 28(4):711-31.
13. Zubenko GS, Hughes HB, **Maher BS**, Stiffler JS, Zubenko WN, Marazita ML. (2002) Genetic linkage of region containing the CREB1 gene to depressive disorders in women from families with recurrent, early-onset, major depression. *Am J Med Genet (Neuropsychiat Genet)*, 114(8):980-987.
14. Weese-Mayer DE, Berry-Kravis EM, **Maher BS**, Silvestri JM, Curran ME, Marazita ML (2003) Sudden Infant Death Syndrome: Association with a promoter polymorphism of the serotonin transporter gene. *Am J Med Genet* 117A(3):268-274.
15. El-Gheriani AA, **Maher BS**, El-Gheriani AS, Sciote JJ, Abu-shahba FA, Al-Azemi R, Marazita ML (2003). Segregation Analysis of Mandibular Prognathism in Libya. *Journal of Dental Research* 82(7): 523-527

16. Zubenko GS, Hughes HB 3rd, Stiffler JS, Brechbiel A, Zubenko WN, **Maher BS**, Marazita ML. (2003) Sequence variations in CREB1 cosegregate with depressive disorders in women. *Mol Psychiatry*. 2003 8(6):611-8.
17. Weese-Mayer DE, Zhou L, Berry-Kravis EM, **Maher BS**, Silvestri JM, Marazita ML. (2003) Association of the serotonin transporter gene with sudden infant death syndrome: a haplotype analysis. *Am J Med Genet*. 122A(3):238-45.
18. Zubenko GS, **Maher B**, Hughes HB 3rd, Zubenko WN, Stiffler JS, Kaplan BB, Marazita ML. (2003) Genome-wide linkage survey for genetic loci that influence the development of depressive disorders in families with recurrent, early-onset, major depression. *Am J Med Genet* 123B(1):1-18.
19. Vanyukov MM, Tarter RE, Kirisci L, Kirillova GP, **Maher BS**, and Clark DB. (2003) Liability to substance use disorders: 1. Common mechanisms and manifestations. *Neurosci Biobehav Rev* 27(6): 507-15
20. Vanyukov MM, Kirisci L, Tarter RE, Simkevitz HF, Kirillova GP, **Maher BS**, and Clark DB. (2003) Liability to substance use disorders: 2. A measurement approach. *Neurosci Biobehav Rev* 27(6): 517-26
21. Weese-Mayer DE, Zhou L, Berry-Kravis EM, Silvestri BS, **Maher BS**, Curran ME, Marazita ML. (2003) Idiopathic Congenital Central Hypoventilation Syndrome: Analysis of genes pertinent to early autonomic nervous system embryologic development and identification of mutations in PHOX2b. *Am J Med Gen* 123A(3):267-78.
22. Vanyukov MM, **Maher BS**, Devlin B, Tarter RE, Kirillova GP, Yu LM, Ferrell RE (2004) Haplotypes of the Monoamine Oxidase Genes and the Risk for Substance Use Disorders. *Am J Med Genet* 125B(1):120-5.
23. Moreno LM, Arcos-Burgos M, Marazita ML, Krahn K, **Maher BS**, Cooper ME, Valencia C, Lidral AC (2004) Genetic analysis of candidate loci in nonsyndromic cleft lip families from Antioquia-Colombia and Ohio. *Am J Med Genet* 125A(2):135-44.
24. Zuccherro TM, Cooper ME, **Maher BS**, Daack-Hirsch S, Nepomuceno B, Ribeiro L, Caprau D, Christensen K, Suzuki Y, Machida J, Natsume N, Yoshiura K, Vieira AR, Orioli IM, Castilla EE, Moreno L, Arcos-Burgos M, Lidral AC, Field LL, Liu YE, Ray A, Goldstein TH, Schultz RE, Shi M, Johnson MK, Kondo S, Schutte BC, Marazita ML, Murray JC. (2004) Interferon regulatory factor 6 (IRF6) gene variants and the risk of isolated cleft lip or palate. *N Engl J Med*. 351(8):769-80.
25. Zubenko GS, **Maher BS**, Hughes HB 3rd, Zubenko WN, Scott Stiffler J, Marazita ML. (2004) Genome-wide linkage survey for genetic loci that affect the risk of suicide attempts in families with recurrent, early-onset, major depression. *Am J Med Genet*. 129B(1):47-54.
26. Weese-Mayer DE, Berry-Kravis EM, Zhou L, **Maher BS**, Curran ME, Silvestri JM, Marazita ML. (2004) Sudden infant death syndrome: case-control frequency differences at genes pertinent to early autonomic nervous system embryologic development. *Pediatr Res*. 56(3):391-5.
27. Marazita ML, Murray JC, Lidral AC, Arcos-Burgos M, Cooper ME, Goldstein T, **Maher BS**, Daack-Hirsch S, Schultz R, Mansilla MA, Field LL, Liu YE, Prescott N, Malcolm S, Winter R, Ray A, Moreno L, Valencia C, Neiswanger K, Wyszynski DF, Bailey-Wilson JE, Albacha-Hejazi H, Beaty TH, McIntosh I, Hetmanski JB, Tuncbilek G, Edwards M, Harkin L, Scott R, Roddick LG. (2004) Meta-analysis of 13 genome scans reveals multiple cleft lip/palate genes with novel loci on 9q21 and 2q32-35. *Am J Hum Genet*. 75(2):161-73.
28. Spallek H, Etzel KR, **Maher BS**. (2005) Dental school applicants' use of website information during the application process. *J Dent Educ*. 69(12):1359-67.
29. **Maher BS**, Brock GN. (2005) Approaches to detecting gene x gene interaction in Genetic Analysis Workshop 14 pedigrees. *Genet Epidemiol*. 29 Suppl 1:S116-9.

30. Bailey-Wilson JE, Almasy L, de Andrade M, Bailey J, Bickeböller H, Cordell H, Daw W, Goldin L, Goode E, Gray-McGuire C, Hening W, Jarvik G, **Maher BS**, Mendell N, Paterson A, Rice J, Satten G, Suarez B, Veiland V, Wilcox M, Zhang H, Ziegler A, MacCluer JW (2005) Genetic Analysis Workshop 14: Microsatellite and SNP Marker Loci for Genome-wide Scans. *BMC Genetics*. 6(Suppl 1):S1.
31. Brock GN, **Maher BS**, Goldstein TH, Cooper ME, Marazita ML (2005) Methods for detecting gene × gene interaction in multiplex extended pedigrees. *BMC Genetics* 2005, 6(Suppl 1):S144.
32. Cooper ME, Goldstein TH, **Maher BS**, Marazita ML (2005) Identifying genomic regions for fine-mapping using genome scan meta-analysis (GSMA) to identify the minimum regions of maximum significance (MRMS) across populations. *BMC Genetics* 6(Suppl 1):S42.
33. Todd ES, Weinberg SM, Berry-Kravis EM, Silvestri JM, Kenny AS, Rand CM, Zhou L, **Maher BS**, Marazita ML, Weese-Mayer DE. (2006) Facial phenotype in children and young adults with PHOX2B-determined congenital central hypoventilation syndrome: quantitative pattern of dysmorphology. *Pediatr Res*. 59(1):39-45.
34. Weinberg S, **Maher B**, Marazita M. (2006) Parental craniofacial morphology in cleft lip with or without cleft palate as determined by cephalometry: a meta-analysis. *Orthod Craniofac Res* 9(1):18-30.
35. **Maher BS**, Marazita ML, Rand C, Zhou L, Berry-Kravis EM, Weese-Mayer DE. Related (2006) 3' UTR polymorphism of the serotonin transporter gene and sudden infant death syndrome: Haplotype analysis. *Am J Med Genet A* 140(13):1453-7
36. Rand CM, Weese-Mayer DE, **Maher BS**, Marazita ML, Berry-Kravis EM (2006) Nicotine metabolizing genes GSTT1 and CYP1A1 in sudden infant death syndrome. *Am J Med Genet A* 140(13):1447-52.
37. Rand CM, Weese-Mayer DE, Zhou L, **Maher BS**, Cooper ME, Marazita ML, Berry-Kravis EM (2006) Sudden Infant Death Syndrome: Case-Control Frequency Differences in Paired Like Homeobox (PHOX)2B Gene. *Am J Med Genet A* 140(15): 1687-1691
38. Weinberg SM, Jenkins EA, Marazita ML, **Maher BS** (2006) Minor physical anomalies in schizophrenia: a meta-analysis. In press, *Schizophr Res*.
39. Vanyukov MM, **Maher BS**, Devlin B, Kirillova GP, Kirisci L, Yu LM, Ferrell RE (Submitted) The MAOA promoter polymorphism, disruptive behavior disorders, and early onset substance use disorder: Gene-environment interaction.

Book Chapter

1. Vanyukov MM, **Maher BS**, Ferrell RE, Devlin B, Marazita ML, Kirillova GP (2002) The dopamine receptor D5 gene and the liability to substance dependence in males: A replication. In RE Tarter and MM Vanyukov (Eds.), *Etiology of SUD in Children and Adolescents: Emerging Findings from CEDAR*. (pp. 55-63). New York: Haworth Press

Published Abstracts

1. Moreno L, Arcos-Burgos M, Marazita M, Neal K, **Maher BS**, Valencia C, Fonseca I, Lidral AC (1999) Genetic analysis of candidate genes in nonsyndromic cleft lip with or without cleft palate families. *Am J Hum Genet* 65(4): A461.
2. **Maher BS**, Marazita ML & Vanyukov MM (1999) Segregation analysis of inattention and hyperactivity-impulsivity. *Am J Hum Genet* 65(4): A389.
3. King S, Moreno L, Arcos-Burgos M, Marazita M, Neal K, **Maher BS**, Valencia C, Fonseca I, Lidral AC (2000) Genetic analysis of candidate genes in nonsyndromic cleft lip families. *J Dent Res* 79: 590.
4. Weese-Mayer DE, Silvestri J, Huffman A, Smok-Pearsall S, Kowal M, **Maher B**, Cooper M and M Marazita (2000) Autonomic nervous system dysfunction (ANSF): Genetic segregation analysis in idiopathic congenital central hypoventilation syndrome (CCHS) kindreds. *Am J Respir Crit Care Med* 161:A805.

5. Weese-Mayer DE, Silvestri J, Huffman A, Smok-Pearsall S, Kowal M, **Maher B**, Cooper M and Marazita (2000) Autonomic nervous system dysfunction (ANSF): Genetic segregation analysis in idiopathic congenital central hypoventilation syndrome (CCHS) kindreds. *Pediatr Res* 47:484A.
6. **Maher BS**, ML Marazita, RE Ferrell, RE Tarter & MM Vanyukov (2000) Dopamine system genes and attention deficit hyperactivity disorder: Evidence for gene-gene interaction. *Am J Hum Genet* 67(4): 231.
7. Moreno L, Arcos-Burgos M, Marazita M, Nash K, **Maher BS**, Valencia C, Fonseca I, Lidral AC (2000) Genetic analysis of candidate genes in nonsyndromic cleft lip with or without cleft palate families. *Am J Hum Genet* 67(4): 346.
8. Vanyukov MM, **Maher BS**, Simkevitz HF, Kirisci L, Ferrell RE, Marazita ML, Kirillova GP, Tarter RE (2000) The dopamine system genes and the risk for substance abuse. *Am J Hum Genet* 67(4): 347.
9. Marazita ML, **Maher BS**, Cooper ME, Silvestri JM, Huffman AD, Smok-Pearsall SM, Kowal MH, and DE Weese-Mayer (2000) Case/control family study design to investigate the genetics of autonomic nervous system dysfunction. *Genet Epi* 19: 262
10. **Maher BS**, ML Marazita, RE Ferrell, RE Tarter & MM Vanyukov (2000) Genetics of attention deficit hyperactivity disorder: A meta-analysis. *Genet Epi* 19: 261.
11. Marazita ML, ME Cooper, **BS Maher**, Y Liu, LL Field (2001) Assessment of candidate regions for oral-facial clefts in China. *J Dent Res* 80: 89.
12. **Maher BS**, MM Vanyukov, ML Marazita, HF Simkevitz, L Kirisci, RE Ferrell, GP Kirillova, RE Tarter (2001) An item response theory approach to phenotype refinement for genetic studies. *Eur J Hum Genet* 9(S1): 297.
13. Cooper ME, LL Field, **BS Maher**, R Tobias, G Tuncbilek, G Gursu, ML Marazita. (2001) Cleft lip with or without cleft palate in Turkey: assessment of candidate regions. *Am J Hum Genet* 69(4): A1910.
14. **Maher BS**, M.M. Vanyukov, R.E. Ferrell, M.L. Marazita. (2001) Incorporating parental phenotypes into the quantitative TDT. *Am J Hum Genet* 69(4): A1324.
15. Marazita ML, LL Field, ME Cooper, **BS Maher**, Y Liu, G Tuncbilek, G Gursu. (2001) Comparative genome scans of cleft lip with or without cleft palate in Chinese and Turkish families. *Am J Hum Genet* 69(4): A1930.
16. Vanyukov MM, **BS Maher**, RE Ferrell, L Kirisci, HF Simkevitz, GP Kirillova, B Devlin, ML Marazita, RE Tarter. (2001) Dopamine system genes, sensation seeking, and the risk for substance use disorders. *Am J Hum Genet* 69(4): A2319.
17. SM Weinberg, K Neiswanger, MP Mooney, RS Faix, **BS Maher**, SS Petiprin, KM Bardi, RF Giles, A Bowen, RA Martin. (2002) Ultrasound analysis of orbicularis oris muscle defects in relatives of individuals with cleft lip with or without cleft palate and their relatives. *Am J Hum Genet* 71(4): A536.
18. Strassberg MB, Murrelle L, Corey L, Marazita ML, **Maher BS**, Vanyukov MM (2002). A twin study of ADHD. *Am J Hum Genet* 71(4): A642.
19. Moreno L, Marazita M, Arcos-Burgos M, Krahn K, **Maher BS**, Cooper ME, Valencia C, Lidral AC (2002) Genetic analysis of candidate genes in nonsyndromic cleft lip families. *Am J Hum Genet* 71(4): A1796.
20. Vanyukov MM, **BS Maher**, B Devlin, RE Ferrell, GP Kirillova, RE Tarter. Cladistic analysis of MAOA haplotypes and association with the risk for substance use disorders. *Am J Hum Genet* 71(4): A1799.
21. **Maher BS**, B Devlin, ML Marazita, MM Vanyukov, RE Ferrell. Cladistic analysis of MAOA haplotypes and association with the risk for attention deficit hyperactivity disorder. *Am J Hum Genet* 71(4): A1807

22. Zuccherro T, Cooper M, Caprau D, Ribiero L, Suzuki Y, Yoshiura Y, Christensen K, Moreno L, Johnson M, Field L, Liu Y, Ray A, **Maher B**, Goldstein T, Lidral A, Kondo S, Schutte B, Marazita M, Murray JC. (2003). IRF6 is a major modifier for nonsyndromic cleft with or without cleft palate. *Am J Hum Genet* 73(5): A4.
23. Nguyen H, Roeder K, Devlin B, **Maher BS**, Yu LM, Ferrell RE, Vanyukov MM (2003) A method for inferring evolutionary relationships among haplotypes, exemplified by haplotypes at the monoamine oxidase locus. *Am J Hum Genet* 73(5): A1203.
24. Zhang Y, Wang L, **Maher BS**, Ferrell RE, Morel PA, Medsger TA (2003). Evaluation of the Human Fas (-670 A/G) and Fas Ligand (-844 C/T) Single Nucleotide Polymorphisms in Scleroderma Patients from North America. *Am J Hum Genet* 73(5): A1959.
25. Vanyukov MM, **Maher BS**, Devlin B, Tarter RE, Kirisci L, Kirillova GP, Tarter RE. (2003). The MAOA promoter polymorphism and disruptive behavior disorders: Gene-environment interaction. *Am J Hum Genet* 73(5): A2057.
26. **Maher BS**, Vanyukov MM, Marazita ML, Ferrell RE (2003) Dopamine system genes and human motor activity. *Am J Hum Genet* 73(5): A2063.
27. **Maher BS**, Ferrell RE, Devlin B, Kirillova GP, Tarter RE, Vanyukov MM (2004) Endophenotypes of attention deficit hyperactivity disorder and the dopamine system. *Neuropsychiat Genet* 130B (1): 14.
28. **Maher BS**, Habeych M, Kirillova GP, Devlin B, Tarter RE, Ferrell RE, Vanyukov MM (2005) Dopamine system genes and P300 amplitude. *Neuropsychiat Genet* 138B (1): 111.

Presentations and Invited Talks

1. Panzak GL, Tarter RE, Switala J, Murali S, Lu S, **Maher B**, & Van Thiel D (1996) Isometric muscle strength in alcoholic and nonalcoholic liver transplantation candidates. International Transplant Nurses Society.
2. Peruchini EM, Moreno L, Arcos-Burgos M, Marazita M, Neal K, **Maher BS**, Valencia C, Fonseca I, Lidral AC (2000) Analysis of TGFB3 as a candidate gene for nonsyndromic cleft lip. American Association of Orthodontists.
3. Vanyukov M, **Maher BS**, Simkevitz HF, Kirisci L, Ferrell RE, Marazita ML, Kirillova GP, Mezzich AC, Tarter RE. (2000) Substance abuse and disruptive behavior: A genetic connection. Society for Prevention Research.
4. **Maher BS**. (2000) Genetic Analyses of Attention Deficit Hyperactivity Disorder and Its Underlying Dimensions, Department of Human Genetics Seminar Series, Graduate School of Public Health, University of Pittsburgh, October 20, 2000.
5. Marazita ML, SL Wenger, K Neiswanger, ME Cooper, **B Maher**, S Petiprin, M Hummel, M Ghalicheba (2001) Oral-facial cleft families in Appalachia: Phenotypes and genetics. Seventh Annual Research Day, West Virginia University School of Dentistry
6. Marazita ML, TC Hart, Y Zhang, PS Hart, ME Cooper, **B Maher**, C Martin, R Meckstroth, R Crout (2001) Transmission disequilibrium analyses between caries phenotypes and genetic polymorphisms with oral-health relevance. Seventh Annual Research Day, West Virginia University School of Dentistry
7. **Maher BS**, ML Marazita, RE Ferrell, RE Tarter & MM Vanyukov (2001) Dopamine system genes and attention deficit hyperactivity disorder: Evidence for gene-gene interaction. Research Day, School of Pharmacy, University of Pittsburgh.
8. El-Gheriani AA, **BS Maher**, AS El-Gheriani, FA El-Magburi, MK Nair, JJ Sciote, RE Ferrell, F Hammad, F Reybod, AA Sultan, MM Rahouma, ML Marazita (2002) Segregation Analysis of Mandibular Prognathism in Libya. International Association for Dental Research 80th General Session.

9. Zuccherro T, Cooper M, Caprau D, Ribiero L, Suzuki Y, Yoshiura Y, Christensen K, Moreno L, Johnson M, Field L, Liu Y, Ray A, **Maher B**, Goldstein T, Lidral A, Kondo S, Schutte B, Marazita M, Murray JC. (2003). IRF6 is a major modifier for nonsyndromic cleft with or without cleft palate. American Society of Human Genetics 2003 Annual Meeting, Plenary Session.
10. **Maher BS**. A Preliminary Investigation of the Relationship between Attention Deficit Hyperactivity Disorder and Dental Caries. University of Pittsburgh School of Dental Medicine Spring Research Symposium. April 13, 2004
11. **Maher BS** and G Brock. Gene-Gene Interaction. Genetic Analysis Workshop 14. Noordwijk, The Netherlands. September 8, 2004
12. **Maher BS**. Endophenotypes of Attention Deficit Hyperactivity Disorder and the Dopamine System. University of Pittsburgh School of Pharmacy Seminar Series. September 21, 2004
13. **Maher BS**, Ferrell RE, Devlin B, Kirillova GP, Tarter RE, and Vanyukov MM. Endophenotypes of Attention Deficit Hyperactivity Disorder and the Dopamine System. XIIth World Congress of Psychiatric Genetics, Dublin, Ireland. October 10, 2004.
14. **Maher BS**, TH Goldstein, ME Cooper, MA Mansilla, S Daack-Hirsch, ML Marazita. JC Murray. Genomewide scan for epistasis in multiplex nonsyndromic cleft lip with or without palate families. American Society of Human Genetics Annual Meeting, Platform Session, October 28, 2004
15. Vanyukov MM, **BS Maher**, B Devlin, GP Kirillova, RE Tarter, RE Ferrell. Dopamine system genes and characteristics of mental activity. American Society of Human Genetics Annual Meeting, Platform Session, October 30, 2004
16. **Maher BS**, ME Cooper, DW McNeil, RJ Crout, RJ Weyant, and ML Marazita. Genetic Segregation Analysis of Caries Risk. IADR/AADR/CADR 83rd General Session, March 9, 2005
17. **Maher BS**, Goldstein TH, Weyant RJ, Marazita ML. Methods for Detecting Gene-Gene Interaction in Extended Pedigrees. American Society of Human Genetics Annual Meeting, Platform Session, October 27, 2005
18. **Maher BS**. Detecting gene-gene interaction in pedigree data. University of Pittsburgh School of Pharmacy Seminar Series. October 31, 2005
19. **Maher BS**. ADHD, Endophenotypes and the Dopamine System. Institute for Behavioral Genetics, University of Colorado at Boulder. February 27, 2006
20. **Maher BS**. ADHD, Endophenotypes and the Dopamine System. Virginia Institute for Psychiatric and Behavioral Genetics, Medical College of Virginia. March 2, 2006
21. **Maher BS**. Childhood Behavioral Influences on Oral Health. University of Pittsburgh School of Dental Medicine Grand Rounds Lecture Series. March 9, 2006.
22. **Maher BS**, Weyant RJ, Goldstein TH, Marazita ML. Initial Discovery and Replication in Whole Genome Association Scans: A Sequential Analysis Approach. American Society of Human Genetics Annual Meeting, Platform Session, October 12, 2006
23. **Maher BS**. Initial Discovery and Replication in Large Scale Genetic Association Studies: A Sequential Analysis Approach. Medical College of Virginia, Department of Human Genetics Seminar Series, January 8, 2007

Teaching

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|-------------|---|
| Fall 1999 | Introduction to Life Sciences (3 credits, undergraduate). Community College of Allegheny County |
| Spring 2000 | Introduction to Biology 1 (4 credits, undergraduate). Community College of Allegheny County |

Fall 2000	Introduction to Anatomy and Physiology 1 (4 credits, undergraduate). Community College of Allegheny County
Fall 2000	Medical Genetics, University of Pittsburgh School of Medicine, Problem Session Facilitator
Spring 2001	Introduction to Biology 2 (4 credits, undergraduate). Community College of Allegheny County
Fall 2001	Introduction to Biology 1 (4 credits, undergraduate). Community College of Allegheny County
Fall 2001	Introduction to Anatomy and Physiology 1 (4 credits, undergraduate). Community College of Allegheny County
Spring 2002	Introduction to Anatomy and Physiology 2 (4 credits, undergraduate). Community College of Allegheny County
Spring 2002	Introduction to Biology 2 (4 credits, undergraduate). Community College of Allegheny County
Summer 2002	Introduction to Biology 1 (4 credits, undergraduate). Community College of Allegheny County
Fall 2002	Introduction to Anatomy and Physiology 1 (4 credits, undergraduate). Community College of Allegheny County
Fall 2002	Introduction to Anatomy and Physiology 2 (4 credits, undergraduate). Community College of Allegheny County
December 2002	Special Topics: Analytical Methods in Human Genetics (3 credits, graduate). Sao Paulo State University, Botucatu, Sao Paulo Brazil.
Summer 2003	Introduction to Anatomy and Physiology 1 (4 credits, undergraduate). Community College of Allegheny County
Fall 2003	Medical Genetics, University of Pittsburgh School of Medicine, Problem Session Facilitator
Summer 2004	Pathobiology I, University of Pittsburgh School of Dental Medicine (OMP 2281), 2 hrs, Genetic Basis of Disease
Fall 2004	Medical Genetics, University of Pittsburgh School of Medicine, Problem Session Facilitator
Spring 2005	Current Topics in Oral Health (1 credit, 3 rd year, DENT 5340), Course Director
Summer 2005	Pathobiology I, University of Pittsburgh School of Dental Medicine (OMP 2281), 2 hrs, Genetic Basis of Disease
Fall 2005	Medical Genetics, University of Pittsburgh School of Medicine, Lecturer and Problem Session Facilitator
Spring 2006	Current Topics in Oral Health (1 credit, 3 rd year, DENT 5340), Course Director
Spring 2006	Introduction to Anatomy and Physiology 2 (4 credits, undergraduate). Community College of Allegheny County

Service on Masters and Doctoral Committees

2003	Abdelhakim El-Gheriani D.M.D., M.S., Segregation Analysis of Mandibular Prognathism.
2006	Elizabeth A. Jenkins, M.S., A Study of Minor Physical Anomalies in Twin Pairs Age 5-12 Years: A Predictor of Behavioral Variation?
2007	Seth M. Weinberg, Ph.D., A Three Dimensional Morphometric Analysis of the Craniofacial Complex in the Unaffected Relatives of Individuals with Nonsyndromic Orofacial Clefts.

Other

CME Review Author

Weese-Mayer DE, **Maher BS**. eNeonatal Review, May 2004

http://www.hopkinscme.org/ofp/eneonatalreview/pdfs/eNeonatal_may04.pdf

Section Editor

Proceedings of Genetic Analysis Workshop 14

BMC Genetics

Ad hoc reviewer

Journal of Abnormal Psychology

Neuropsychiatric Genetics

Advances in Dental Research

Current Genomics

Drug and Alcohol Dependence

Archives of General Psychiatry

Human Genetics

Molecular Psychiatry

Journal of Dental Research

BMC Genetics

Grant Support

Active

R01DA019157-01 Vanyukov (PI)

9-30-04 to 7-31-09

NIH/NIDA

“Substance use disorder liability: Candidate Gene Systems”

The goal of this grant is to evaluate genetic and environmental factors involved in substance abuse and its precursors.

Role: Co-I

1-R01-DE14899 Marazita (PI)

9-30-02 to 9-29-09

NIH/NIDCR

“Genetic Factors contributing to oral health disparities in Appalachia”

The aim of this grant is to perform longitudinal, population-based, oral health assessments of children and their care-givers in West Virginia in order to identify factors contributing to the poor oral health seen in this population. Genetic factors will be the particular focus of this project.

Role: Co-I.

R01-DE014889-S1 Marazita (PI)

12-01-04 to 05-31-09

NIH/NIDCR

“Psychosocial influences on rural children’s Oral Health”

Role: Co-I

Pending Funding

R03 DE016632 **Maher (PI)** 12-1-05 to 11-30-07

NIH/NIDCR

“Statistical Genetic Analyses of Orofacial Cleft Families”

This project seeks to elucidate the contribution of multiple interacting genes to nonsyndromic cleft lip/palate in a large international sample of multiplex extended pedigrees.

R01 Michael M. Vanyukov - University of Pittsburgh (PI) 12-1-06 to 11-30-11

NIH/NIDA

Gene Systems in Adolescent Female Drug Dependence

The goal of this project is to evaluate the contribution of specific dopamine system related candidate genes to female adolescent onset substance abuse.

Role: Co-I

R01 Seth Dobrin – Marshfield Clinic Research Foundation (PI) 12-1-06 to 11-30-09

NIH/NIMH

Genetic and Genomic Architecture of Bipolar Disorder

The goal of this project is to identify genomic regions contributing to the risk for Bipolar Disorder in a sample of Irish sibpairs and trios.

Role: Co-I

R01 HD052953-01 Jeffrey C. Murray – University of Iowa (PI) 4-1-2006 to 3-31-2011

NIH/NICHHD

Identification of Maternal and Fetal Genetic Factors in Preterm Birth

Role: Co-I

Previous Funding

Nathan Cummings Foundation

“Behavioral Influences on Childhood Oral Health”

12-1-03 to 11-30-04

Role: PI

Young Investigator Research Grant (Zhang PI) 3-1-03 to 2-28-04

Pulmonary Fibrosis Foundation

“Genetic Predisposition to Pulmonary Fibrosis”

The goal of this grant is to identify and verify the genetic factors that play roles in the development of pulmonary fibrosis in patients with idiopathic pulmonary fibrosis. **Role: Consultant.**

Center for Inherited Disease Research 2002-2003

(CIDR, co-I's: Zubenko, Maher, Marazita)

“Genome scan for early-onset recurrent depression”

The grant was for genotyping services---a 10 cM genome-scan for extended kindreds with early-onset recurrent depression. **Role: Co-I**