

Center for Oral Health Research in Appalachia (COHRA)

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6. Ozbek, Umut. Doctor of Philosophy, Department of Biostatistics, University of Pittsburgh, 2013. Title of Dissertation: "Statistical Methods for Recovering GWAS Data."
7. Begum, Ferdouse. Doctor of Philosophy, Department of Biostatistics, University of Pittsburgh, 2013. Title of Dissertation: "GWAS Meta-Analysis: Methodology and Application to Human Meiotic Recombination."
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 64. Graff M, Gordon-Larsen P, White CC, Ngwa JS, Workalemahu T, Esko T, Amin N, Scheet P, Schurmann C, Teumer A, Fox CS, Lu QI, Van Dam RM, Strachan D, Metspalu A, van Duijn CM, Schlessinger D, Voelzke H, Schaffer JR, Marazita ML, Crout RJ, North K, Berndt S, Cupples L. The association between 32 common genetic BMI loci and longitudinal BMI across the transition from adolescence to young adulthood: a meta-analysis. *Poster*: Obesity 2011, 29th Annual Scientific Meeting, Orlando, Florida, USA, October 1-5, 2011. *Obesity* **19** (Suppl. 1): S231, 2011.
 65. Geller F, Feenstra B, Zhang H, Shaffer JR, Hansen T, Boyd HA, Nohr EA, Timpson NJ, Evans DM, Weyant RJ, Levy SM, Lathrop M, Davey Smith G, Murray JC, Werge T, Marazita ML, Sørensen TIA, Melbye M. Genome-wide association study identifies four loci associated with eruption of permanent teeth (Abstract #699; www.icgh2011.org). *Poster*: 12th International Conference of Human Genetics

- and 61st Annual Meeting of the American Society of Human Genetics, Montreal, Quebec, Canada, October 11-15, 2011.
66. Laurie CC, Laurie CA, Doheny K, Zelnick L, McHugh C, Shen J, Zheng X, Ling H, Hetrick K, Pugh E, Mirel D, Amos C, Beaty T, Bierut L, Caporaso N, Freedman N, Feingold E, Li J, Haiman C, Heit J, Lowe W, Manolio T, Marazita M, Murray J, Pasquale L, Jarvik G, Ruczinski I, Seshan V, Weir B, GENEVA consortium. Somatic mosaicism of large chromosomal anomalies in blood cells of normal adults (Abstract #129; www.icgh2011.org). *Oral platform presentation*: 12th International Conference of Human Genetics and 61st Annual Meeting of the American Society of Human Genetics, Montreal, Quebec, Canada, October 11-15, 2011.
 67. Lee M, T.Cuenco K, Zhen Z, Shaffer JR, Wang X, Barmada MM, Weyant RJ, Crout RJ, McNeil DW, Weeks DE, Feingold E, Marazita ML. Identification of gene networks for caries of pit and fissure vs. smooth tooth surfaces through GWAS and protein network integration (Abstract #708; www.icgh2011.org). *Poster*: 12th International Conference of Human Genetics and 61st Annual Meeting of the American Society of Human Genetics, Montreal, Quebec, Canada, October 11-15, 2011.
 68. Shaffer JR, Zeng Z, Wang X, Lee M, T.Cuenco K, Barmada MM, Polk DE, Weyant RJ, Crout R, McNeil DW, Weeks DE, Feingold E, Marazita ML. In silico candidate gene study for childhood tooth decay (Abstract #658; www.icgh2011.org). *Poster*: 12th International Conference of Human Genetics and 61st Annual Meeting of the American Society of Human Genetics, Montreal, Quebec, Canada, October 11-15, 2011.
 69. Wang X, Vieira AR, Shaffer JR, Begum F, Lee M, T.Cuenco K, Zheng Z, Polk DE, Barmada MM, Noel J, Anjomshoaa I, Weeks DE, Feingold E, Marazita ML. Follow-up GWAS analysis and in silico candidate gene study for dental caries in permanent dentition (Abstract #743; www.icgh2011.org). *Poster*: 12th International Conference of Human Genetics and 61st Annual Meeting of the American Society of Human Genetics, Montreal, Quebec, Canada, October 11-15, 2011.
 70. Zeng Z, Shaffer JR, Wang X, Lee M, T.Cuenco K, Barmada MM, Polk DE, Weyant RJ, Crout R, McNeil DW, Weeks DE, Feingold E, Marazita ML. GWAS for childhood tooth decay implicates novel genes for pit and fissure and smooth surfaces (Abstract #652; www.icgh2011.org). *Poster*: 12th International Conference of Human Genetics and 61st Annual Meeting of the American Society of Human Genetics, Montreal, Quebec, Canada, October 11-15, 2011.
 71. McNeil DW, Arnwine C, Vargovich AM, Randall CL, Harris M, Weinstein B. Persistence of emotional pain, trauma, and joy across time. *Poster*: 45th Annual Convention of the Association for Behavioral and Cognitive Therapies, Toronto, Ontario, Canada, November 10-13, 2011.
 72. Randall CL, Vargovich AM, Warman P, Hamer C, Weinstein B, McNeil DW. Prediction of PTSD symptoms: The role of emotional pain and depression. *Poster*: 45th Annual Convention of the Association for Behavioral and Cognitive Therapies, Toronto, Ontario, Canada, November 10-13, 2011.
 73. Shulman GP, Randall CL, McNeil DW. The gagging reflex's association with dental fear in Appalachia. *Poster*: 45th Annual Convention of the Association for Behavioral and Cognitive Therapies (Behavioral Medicine Special Interest Group), Toronto, Ontario, Canada, November 10 - 13, 2011.
 74. Vargovich AM, Randall CL, Shulman G, Clemens S, Ho C, Myers A, McNeil DW. Physical pain

tolerance in individuals with a significant history of emotional pain. *Poster*: 45th Annual Convention of the Association for Behavioral and Cognitive Therapies, Toronto, Ontario, Canada, November 10-13, 2011.

75. McNeil DW, Heaton L, Randall CL. Understanding and assessing dental anxiety, fear, and phobia (Lunch and Learning #26639). *Oral platform presentation*: 41st Annual Meeting of the American Association for Dental Research, Tampa, Florida, USA, March 21-24, 2012.
76. Randall CL, McNeil DW, Stuchell RN. Beliefs and fears about the dentist in an emergency clinic (Abstract #1412). *Poster*: 41st Annual Meeting of the American Association for Dental Research, Tampa, Florida, USA, March 21-24, 2012.
77. McNeil DW, Randall CL, Shulman GP. The relation between gagging and beliefs about dentists and dental treatment. *Poster*: 33rd Annual Meeting & Scientific Session of the Society of Behavioral Medicine, New Orleans, Louisiana, USA, April 11-14, 2012.
78. Vargovich AM, Randall CL, Quentin L, Shulman GP, McNeil, DW. Influences of anxiety sensitivity and posttraumatic stress symptomatology on pain responsivity. *Poster*: 33rd Annual Meeting & Scientific Session of the Society of Behavioral Medicine, New Orleans, Louisiana, USA, April 11-14, 2012.
79. McNeil DW, Randall CL. Predicting emergency dental service utilization in Appalachia over a decade. *Oral platform presentation*: 90th General Session of the International Association for Dental Research, Iguacu Falls, Brazil, June 20-23, 2012.
80. Randall CL, Shaffer JR, Wang X, McNeil DW, Crout RJ, Weyant RJ, Marazita ML. Relation between dental fear and fear of pain: how heritable? *Oral platform presentation*: 90th General Session of the International Association for Dental Research, Iguacu Falls, Brazil, June 20-23, 2012.

Recipient of the 2012 IADR Behavioral, Epidemiologic and Health Services Research (BEHSR) Outstanding Student Abstract Award.

81. Srinivasan U, Wen A, Zhang L, Marrs CF, Goldberg D, Thomas J, Weyant R, Crout R, McNeil D, Marazita M, Foxman B. Changes in oral microbiota profiles associated with caries: a pilot study. *Oral platform presentation*: International Society for Microbial Ecology, Copenhagen, Denmark, August 19-24, 2012.
82. Srinivasan U, Wen A, Marrs C, Zhang L, Weyant B, McNeil D, Marazita M, Crout R, Foxman B. Exploring the effect of dentition, dental decay and familiarity on oral health using metabolomics. *Oral platform presentation*: 11th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases. New Orleans, Louisiana, USA, October 30-November 2, 2012.
83. Harari O, Goate A, GENEVA Alcohol Consumption Working Group. Pathway analysis of the GENEVA Alcohol Consumption GWAS Meta-Analysis (Abstract #2228F). *Poster*: 62nd Annual Meeting of the American Society of Human Genetics, San Francisco, California, USA, November 6-10, 2012.
84. Lee M, T.Cuenco K, Zeng Z, Wang X, Shaffer JR, Feingold E, Weeks DE, Weyant RJ, Crout RJ, McNeil DW, Marazita ML. Identification of host gene-gene interaction in saliva flow and *Streptococcus mutans* using MDR (Abstract #1471F). *Poster*: 62nd Annual Meeting of the American

Society of Human Genetics, San Francisco, California, USA, November 6-10, 2012.

85. Lewis D, Feingold E, Zeng Z, Shaffer J, Wang X, Weyant R, McNeil D, Marazita M. The effect of race, sex, age, socioeconomic, behavioral factors, and genetics on dental caries in different tooth surfaces (Abstract #2034W). *Poster: 62nd Annual Meeting of the American Society of Human Genetics, San Francisco, California, USA, November 6-10, 2012.*
86. Mukhopadhyay N, Govil M, Zheng Z, Feingold E, Weeks DE, Shaffer JR, Wang X, Weyant RJ, Crout R, McNeil DW, Marazita ML. Whole genome linkage analysis to identify genes for childhood dental caries (Abstract #2178W). *Poster: 62nd Annual Meeting of the American Society of Human Genetics, San Francisco, California, USA, November 6-10, 2012.*
87. Shaffer JR, Feingold E, Wang X, Lee M, T.Cuenco K, Weeks DE, Weyant RJ, Crout R, McNeil DW, Marazita ML. GWAS needs a good phenotype: clustering tooth surfaces into biologically-informative dental caries outcomes (Abstract #2142W). *Poster: 62nd Annual Meeting of the American Society of Human Genetics, San Francisco, California, USA, November 6-10, 2012.*
88. T.Cuenco K, Lee MK, Zeng Z, Shaffer JR, Wang X, Feingold E, Weeks DE, Levy SM, Weyant RJ, Crout RJ, McNeil DW, Marazita ML. Overlapping G x G interactions associated with caries in permanent and primary dentition (Abstract #1464T). *Poster: 62nd Annual Meeting of the American Society of Human Genetics, San Francisco, California, USA, November 6-10, 2012.*
89. Wang X, Zeng Z, Shaffer JR, Feingold E, Weeks DE, Lee M, T.Cuenco K, Weyant RJ, Crout R, McNeil DW, Marazita ML. OFCD syndrome gene BCOR is associated with dental caries (Abstract #2156F). *Poster: 62nd Annual Meeting of the American Society of Human Genetics, San Francisco, California, USA, November 6-10, 2012.*
90. McNeil DW, Randall CL, Crout RJ, Weyant RJ, Marazita ML. Age-associated dental fear and fear of pain in adolescence (Abstract #245). *Oral platform presentation: IADR/AADR/CADR 91st General Session, Seattle, Washington, USA, March 20-23, 2013. Journal of Dental Research 92 (Special Issue A): 245, 2013. (www.dentalresearch.org).*
91. Mukhopadhyay N, Govil M, Zeng Z, Feingold E, Weeks DE, Shaffer JR, Wang X, Weyant RJ, Crout RJ, McNeil DW, Marazita ML. Genome-wide linkage analysis to identify risk genes for dental caries (Abstract #2899). *Oral platform presentation: IADR/AADR/CADR 91st General Session & Exhibition, Seattle, Washington, USA, March 20-23, 2013. Journal of Dental Research 92 (Special Issue A): 2899, 2013. (www.dentalresearch.org; www.iadr.org).*
92. Randall CL, McNeil DW, Wiener RC, Crout RJ, Weyant RJ, Marazita ML. Fears about pain and dentistry as predictors of oral health (Abstract #246). *Oral platform presentation: IADR/AADR/CADR 91st General Session, Seattle, Washington, USA, March 20-23, 2013. Journal of Dental Research 92 (Special Issue A): 246, 2013. (www.dentalresearch.org).*
93. Wiener RC, McNeil DW, Crout RJ, Weyant RJ, Marazita ML. Cariology and dental fear in Appalachian youth and adults (Abstract #796). *Poster: IADR/AADR/CADR 91st General Session, Seattle, Washington, USA, March 20-23, 2013. Journal of Dental Research 92 (Special Issue A): 796, 2013. (www.dentalresearch.org).*
94. Crout R, McNeil DW, Weyant R, Foxman B, Casto GT, Marazita ML. Genetic factors contributing to oral health disparities in Appalachia: Review of study findings, follow-up research and implication for

education and practice. *Oral platform presentation*: 21st Annual West Virginia Rural Health Conference, Roanoke, West Virginia, USA, October 21-23, 2013.

95. Lewis D, Shaffer JR, Feingold E, Cooper M, Weyant RJ, McNeil D, Crout R, Reis S, Vieira A, Vanyukov M, Marazita M. Replication of GWAS results for dental caries in the permanent dentition (Abstract #930W). *Poster*: 63rd Annual Meeting of the American Society of Human Genetics, Boston, Massachusetts, USA, October 22-26, 2013.
96. Shaffer JR, Weyant RJ, Crout R, McNeil DW, Marazita ML. Unexpected pleiotropy: do asthma and dental caries share a genetic basis? (Abstract #1166F). *Poster*: 63rd Annual Meeting of the American Society of Human Genetics, Boston, Massachusetts, USA, October 22-26, 2013.
97. McNeil DW, Randall CL, Crout RJ, Weyant RJ, Marazita ML. Adolescent fear of pain is a function of parent fear of pain. *Oral platform presentation*: 35th Annual Meeting & Scientific Sessions of the Society of Behavioral Medicine, Philadelphia, Pennsylvania, USA, April 23-26, 2014. *Annals of Behavioral Medicine* **47**: s277, 2014.
98. Shungin D, Cornelis MC, Divaris K, Holtfreter B, Shaffer JR, Yu YH, Barros SP, Beck JD, Biffar R, Boerwinkle EA, Crout RJ, Ganna A, Hallmans G, Hindy G, Hu FB, Kraft P, McNeil DW, Melander O, Moss KL, North KE, Orho-Melander M, Pedersen NL, Ridker PM, Rimm EB, Rose LM, Rukh G, Teumer A, Weyant RJ, Chasman DI, Joshipura K, Kocher T, Magnusson PKE, Marazita ML, Nilsson P, Offenbacher S, Smith GD, Lundberg P, Palmer TM, Timpson NJ, Johansson I, Franks PW. Is Body Mass Index Causally Related with Periodontitis? Results from Mendelian Randomization study in the Gene-Lifestyle Interactions and Dental Endpoints (GLIDE) Consortium. *Poster*: Obesity Week: The 23rd Annual Conference of the International Genetic Epidemiology Society, Vienna, Austria, August 28 – 30, 2014.
99. Colavincenzo J, Lewis D, Shaffer J, Feingold E, Cooper M, Vanyukov M, Maher B, Reis S, McNeil D, Crout R, Weyant R, Levy S, Vieira A, Marazita M. The role of selected ion channel genes in dental caries (Abstract #971M). *Poster*: 64th Annual Meeting of the American Society of Human Genetics, San Diego, CA, USA, October 18-22, 2014.
100. Lewis D, Shaffer J, Feingold E, Cooper M, Vanyukov M, Maher B, Reis S, McNeil D, Crout R, Weyant R, Levy S, Vieira A, Marazita M. The role of selected ion channel genes in dental caries (Abstract #837T). *Poster*: 64th Annual Meeting of the American Society of Human Genetics, San Diego, CA, USA, October 18-22, 2014.
101. Shungin D, Cornelis MC, Divaris K, Holtfreter B, Shaffer JR, Yu YH, Barros SP, Beck JD, Biffar R, Boerwinkle EA, Crout RJ, Ganna A, Hallmans G, Hindy G, Hu FB, Kraft P, McNeil DW, Melander O, Moss KL, North KE, Orho-Melander M, Pedersen NL, Ridker PM, Rimm EB, Rose LM, Rukh G, Teumer A, Weyant RJ, Chasman DI, Joshipura K, Kocher T, Magnusson PKE, Marazita ML, Nilsson P, Offenbacher S, Smith GD, Lundberg P, Palmer TM, Timpson NJ, Johansson I, Franks PW. Is Body Mass Index Causally Related with Periodontitis? Results from Mendelian Randomization study in the Gene-Lifestyle Interactions and Dental Endpoints (GLIDE) Consortium. *Poster*: Obesity Week: the Annual Meetings of the American Society for Metabolic and Bariatric Surgery and The Obesity Society, Boston, Massachusetts, USA, November 2 – 7, 2014.
102. Ward DM, Randall CL, McNeil DW, Crout RJ, Weyant RJ, Marazita ML. Oral health status of African Americans living in Appalachia: The role of dental care-related fear, fear of pain, and health locus of control. *Poster*: 48th Annual Convention of the Association for Behavioral and Cognitive

Therapies, Philadelphia, PA, USA. November 20-23, 2014.

103. Crout R, Casto G, McNeil DW, Weyant R, Chapman S, Hobbs G, Marazita M. Oral health disparity research in Appalachia: West Virginia recruitment strategies (Abstract 4144). *Poster*: IADR/AADR/CADR 93rd General Session & Exhibition, Boston, Massachusetts, USA, March 11-14, 2015. *Journal of Dental Research* **94** (Special Issue A): 4144, 2015. (www.dentalresearch.org).
104. Duverger O, O'Hara T, Shaffer JR, Donahue D, Zerfas P, Dullnig A, Creceluis C, Beniash E, Marazita ML, Morasso MI. Hair keratins as structural organic components of mature enamel: the link between hair disorders and susceptibility of dental caries (Abstract 3419). *Oral platform presentation*: IADR/AADR/CADR 93rd General Session & Exhibition, Boston, Massachusetts, USA, March 11-14, 2015. *Journal of Dental Research* **94** (Special Issue A): 3419, 2015. (www.dentalresearch.org).
105. Foxman B, Srinivasan U, Li JL, Shedden K, Crout RJ, McNeil DW, Weyant R, Marazita ML. Effects of family, dentition and dental caries on the oral microbiome (Abstract 2627). *Poster*: IADR/AADR/CADR 93rd General Session & Exhibition, Boston, Massachusetts, USA, March 11-14, 2015. *Journal of Dental Research* **94** (Special Issue A): 2627, 2015. (www.dentalresearch.org).
106. Hayes SE, McNeil DW, Polk D, Metzger A, Neiswanger K, Crout RJ, Weyant RJ, Foxman B, Marazita ML. Educational level and depression predict oral health status among antenatal women in north central Appalachia (Abstract 216). *Epidemiology Forum Oral platform presentation*: IADR/AADR/CADR 93rd General Session & Exhibition, Boston, Massachusetts, USA, March 11-14, 2015. *Journal of Dental Research* **94** (Special Issue A): 216, 2015. (www.dentalresearch.org).
107. Lewis D, Shaffer J, Feingold E, Weyant R, McNeil DW, Crout RJ, Reis SE, Levy S, Vanyukov M, Vieira A, Marazita ML. GWAS follow-up study of caries in the permanent dentition (Abstract 3092). *Poster*: IADR/AADR/CADR 93rd General Session & Exhibition, Boston, Massachusetts, USA, March 11-14, 2015. *Journal of Dental Research* **94** (Special Issue A): 3092, 2015. (www.dentalresearch.org).
108. Luo T, Srinivasan U, Ramadugu K, Trumble E, Li J, Neiswanger K, McNeil DW, Crout RJ, Weyant R, Marazita ML, Foxman B. Validation of specimen collection methods for oral microbial community analysis (Abstract 4083). *Poster*: IADR/AADR/CADR 93rd General Session & Exhibition, Boston, Massachusetts, USA, March 11-14, 2015. *Journal of Dental Research* **94** (Special Issue A): 4083, 2015. (www.dentalresearch.org).
109. McNeil DW. Sugar-sweetened beverages and oral health issues in Northern Appalachia (Abstract 3364). *Oral platform presentation*: IADR/AADR/CADR 93rd General Session & Exhibition, Boston, Massachusetts, USA, March 11-14, 2015. *Journal of Dental Research* **94** (Special Issue A): 3364, 2015. (www.dentalresearch.org).
110. Mukhopadhyay N, Govil M, Feingold E, Shaffer J, McNeil DW, Weyant R, Crout RJ, Slayton RL, Levy S, Vieira A, Marazita ML. Multi-population study of risk genes for age-adjusted dental caries (Abstract 493). *Oral platform presentation*: IADR/AADR/CADR 93rd General Session & Exhibition, Boston, Massachusetts, USA, March 11-14, 2015. *Journal of Dental Research* **94** (Special Issue A): 493, 2015. (www.dentalresearch.org).
111. Randall CL, Shaffer J, McNeil DW, Crout RJ, Weyant R, Marazita ML. Dental fear and MCR1 genotype: fear of pain as mediator (Abstract 2478). *Poster*: IADR/AADR/CADR 93rd General Session & Exhibition, Boston, Massachusetts, USA, March 11-14, 2015. *Journal of Dental Research*

94 (Special Issue A): 2478, 2015. (www.dentalresearch.org).

Awarded the Outstanding Pre-Doctoral Student Abstract by the Behavioral, Epidemiologic and Health Services Research Group (BEHSR) of the International Association for Dental Research (IADR).

112. Shaffer JR, Carlson JC, McNeil DW, Weyant R, Crout RJ, Feingold E, Marazita ML. Dioxin receptor gene AHR is associated with early childhood caries (Abstract 1952). *Oral platform presentation: IADR/AADR/CADR 93rd General Session & Exhibition, Boston, Massachusetts, USA, March 11-14, 2015. Journal of Dental Research* 94 (Special Issue A): 1952, 2015. (www.dentalresearch.org).
113. McNeil DW, Hayes SE, Randall CL, Polk DE, Neiswanger K, Shaffer JR, Weyant RJ, Foxman B, Kao E, Crout RJ, Chapman S, Brown LJ, Law M, Kerwin E, Maurer JL, Marazita ML. Oral health among pregnant women in northern Appalachia: Effects of depression and rurality. *Oral platform presentation: West Virginia Clinical and Translational Science Meeting & Appalachian Translational Research Network Health Summit, Charleston, West Virginia, USA, October 16, 2015. Awarded a Top Presentation Award.*
114. Hayes SE, McNeil DW, Chertok IRA, Wiener RC, Neiswanger K, Maurer JL, Crout RJ, Weyant RJ, Foxman B, Marazita ML. Association of maternal gingival health and breastfeeding in a cohort of postpartum women in north central Appalachia. *Poster: Hinman Student Research Symposium, Memphis, Tennessee, USA, October 30 – November 1, 2015.*
115. Hayes SE, McNeil DW, Chertok IRA, Wiener RC, Randall CL, Neiswanger K, Weyant RJ, Foxman B, Crout RJ, Marazita ML. Breastfeeding and smoking predict Appalachian maternal oral health. *Oral platform presentation: 45th Annual AADR Meeting & Exhibition/40th Annual CADR Meeting, Los Angeles, California, USA, March 16-19, 2016. Journal of Dental Research, 2016. (www.dentalresearch.org).*
116. McNeil DW, Randall CL, Hayes SE, Neiswanger K, Weyant RJ, Foxman B, Crout RJ, Marazita ML. Perinatal distress associated with oral health in north central Appalachia. *Oral platform presentation: 45th Annual AADR Meeting & Exhibition/40th Annual CADR Meeting, Los Angeles, California, USA, March 16-19, 2016. Journal of Dental Research, 2016. (www.dentalresearch.org).*
117. Alotaibi RN, Lee M, Carlson J, Neiswanger K, Shaffer J, Cooper M, McNeil D, Weyant R, Foxman B, Crout RJ, Marazita ML. Role of environmental and behavioral factors on dental caries patterns. *Poster: 45th Annual AADR Meeting & Exhibition/40th Annual CADR Meeting, Los Angeles, California, USA, March 16-19, 2016. Journal of Dental Research, 2016. (www.dentalresearch.org).*
118. Ramadugu K, Luo T, Srinivasan U, Gicquelais R, Stafford EB, McNeil DW, Crout RJ, Weyant RJ, Marazita ML, Foxman B. The salivary microbiome of mother-infant pairs from 2 to 24 months. *Poster: 13th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases, Antwerp, Belgium, May 10-13, 2016. Awarded Best Poster of the meeting.*
119. Ramadugu K, Luo T, Srinivasan U, Gicquelais R, Stafford EB, McNeil DW, Crout RJ, Weyant RJ, Marazita ML, Foxman B. Delivery mode and development of the salivary microbiome. *Poster: 16th International Symposium on Microbial Ecology, Montreal, Canada, August 21-26, 2016.*
120. Randall CL, McNeil DW, Shaffer JR, Weyant RJ, Crout RJ, Marazita ML. *MC1R* gene variation and dental care-related fear: Evidence of fear of pain as mediator. *Poster presentation. 66th Annual Meeting of the American Society of Human Genetics; 2016; Vancouver, British Columbia, CA,*

October 18-22, 2016.

121. Edwards CB, Wright CD, Randall CL, McNeil DW, Neiswanger K, Crout RJ, Weyant RJ, Foxman B, Marazita ML. Fatalistic thinking and relation to general and oral health among adults in north central Appalachia. *Poster: 50th Annual Convention of the Association for Behavioral and Cognitive Therapies*, New York, New York, USA, October 27-30, 2016.
122. Duverger, O, Shaffer JR, Colavincenzo J, Marazita ML, Morasso MI. Mutations in Keratins Involved in Pachyonychia Congenita are Associated with Dental Enamel Defects. *Submitted. 9th Annual meeting of Enamel Symposium; 2016*, North Yorkshire, UK, October 30 – November 3, 2016.
123. Addicks SH, McNeil DW, Chertok IAZ, Wiener RC, Randall CL, Neiswanger K, Weyant RJ, Foxman B, Crout RJ, Marazita ML. Exploring the associations among oral health, fear of pain, and breastfeeding in a rural Appalachian sample. *Oral platform presentation: IADR/AADR/CADR 95th General Session & Exhibition*, San Francisco, California, USA, March 22-25, 2017.
124. Alotaibi RN, Howe BJ, Chernus JM, Mukhopadhyay N, Sanchez CA, Cooper ME, Deleyiannis FW, Neiswanger K, Resick J, Vieira AR, Shaffer JR, Moreno-Uribe LM, Marazita ML. Genome-wide association study of dental caries in orofacial cleft families. *Poster: IADR/AADR/CADR 95th General Session & Exhibition*, San Francisco, California, USA, March 22-25, 2017.
125. Mukhopadhyay N, Howe BJ, Chernus JM, Alotaibi R, Sanchez CA, Cooper ME, Emanuele BJ, Deleyiannis FW, Neiswanger K, Resick J, Vieira AR, Govil M, Shaffer JR, Moreno-Uribe LM, Marazita ML. Multi-ethnic genome-wide association of caries combining adults and children (Abstract 1836). *Poster: IADR/AADR/CADR 95th General Session & Exhibition*, San Francisco, California, USA, March 22-25, 2017.
126. Randall CL. Dental Care-Related Anxiety and Fear: Conceptualization, Assessment, and Treatment *Oral platform presentation: IADR/AADR/CADR 95th General Session & Exhibition*, San Francisco, California, USA, March 22-25, 2017.
127. Wright CD, Edwards CB, McNeil DW, Crout RJ, Neiswanger K, Weyant RJ, Foxman B, Marazita ML. Periodontal disease and quality of life: Impact of dental fear. *Poster: IADR/AADR/CADR 95th General Session & Exhibition*, San Francisco, California, USA, March 22-25, 2017.
128. Wright CD, Randall CL, Chernus J, McNeil DW, Feingold E, Neiswanger K, Crout RJ, Weyant RJ, Shaffer JR, Marazita ML. Fear of minor pain is associated with specific genetic loci: Relation to oral health. *Poster: Association for Psychological Science Conference*, Boston, Massachusetts, USA, May 25-28, 2017.
129. Haworth S, Shungin D, van der Tas J, Vucic S, Gomez CM, Yakimov V, Shaffer J, Lee MK, Standl M, Wang C, Bønnelykke K, Waage J, Jesson LE, Nørrisgaard P, Joro R, Seppälä I, Lehtimäki T, Lakka T, Bisgaard H, Pennell C, Kühnisch J, Marazita M, Geller F, Rivadeneira F, Wolvius E, West N, Thomas S, Franks P, Timpson N, Johansson I. Genome wide meta-analysis for dental caries in childhood. *Poster: 67th Annual Meeting of the American Society of Human Genetics; 2017*; Orlando, Florida, USA, October 17-21, 2017.
130. Markunas CA, Hancock DB, Guo Y, Reginsson GW, Sherva R, Loukola A, Minica C, Gaddis NC, Lutz SM, Gudbjartsson DF, Young KA, McNeil DW, Qaiser B, Madden PAF, Farrer LA, Vink J, Saccone NL, Neale MC, Kranzler HR, Marazita ML, Boomsma DL, Gelernter J, Kaprio J, Caporaso NE, Thorgeirsson TE, Hokanson JE, Bierut LJ, Cox N, Stefansson K, Johnson EO. Genetically driven gene expression associated with nicotine dependence across ten brain regions reveals novel genes and brain regions. *Oral platform presentation: 67th Annual Meeting of the American Society of Human Genetics; 2017*; Orlando, Florida, USA, October 17-21, 2017.
131. Orlova E, Lee MK, Feingold E, McNeil DW, Crout RJ, Weyant RJ, Marazita ML, Shaffer JR GWAS

- of Early Childhood Caries in an Appalachian Population. *Poster*: 67th Annual Meeting of the American Society of Human Genetics; 2017; Orlando, Florida, USA, October 17-21, 2017.
132. Shaffer JR, Chernus JM, Randall CL, Wright CD, McNeil DW, Crout RJ, Weyant RJ, Marazita ML. Genome-wide association study of dental treatment-related fear and anxiety nominates novel genes. *Poster*: 67th Annual Meeting of the American Society of Human Genetics; 2017; Orlando, Florida, USA, October 17-21, 2017.
133. Shungin D, Haworth S, Teumer A, Alaraudanjoki V, Divaris K, Grinde K, Hindy G, Holtfreter B, Lee MK, Pesonen P, Agler C, Anttonen V, Kocher T, Marazita ML, Offenbacher S, Orho-Melander M, John R, Shaffer JR, Sofer T, Franks PW, Timpson NJ, Johansson I. Meta-analysis of GWAS elucidates genetic architecture of dental caries. *Poster*: 67th Annual Meeting of the American Society of Human Genetics; 2017; Orlando, Florida, USA, October 17-21, 2017.
134. Arias MC, Wright CD, Flatley M, Manegold EM, Kao E, Neiswanger K, Weyant RJ, Foxman B, Crout RJ, Marazita ML, McNeil DW. Smoking during and after pregnancy in West Virginia: Targeting time points for intervention. *Poster*: West Virginia Rural health Association Conference, Davis, West Virginia, USA, October 2017.
135. Wright CD, McNeil DW, Neiswanger K, Foxman B, Weyant RJ, Crout RJ, Marazita ML. Oral health implications of depressive symptom trajectories in perinatal women. *Oral platform presentation*: Hinman Student Research Symposium, Memphis, TN, USA, November 3-5, 2017. **Student representative for WVU School of Dentistry**
136. Wright CD, McNeil DW, Manegold EM, Addicks SH, Neiswanger K, Crout RJ, Weyant RJ, Foxman B, Marazita ML. Depression trajectories of perinatal and postpartum women in Appalachia: Results of a latent class growth analysis. *Poster*: 51st Annual Convention of the Association for Behavioral and Cognitive Therapies, San Diego, CA, USA, November 16-19, 2017.
137. Markunas CA, Hancock DB, Guo Y, Corradin O, Reginsson GW, Sherva R, Loukola A, Minica C, Gaddis NC, Lutz SM, Gudbjartsson DF, Young KA, McNeil DW, Palviainen T, Madden PAF, Farrer LA, Vink J, Saccone NL, Neale MC, Kranzler HR, Marazita ML, Boomsma DL, Gelernter J, Kaprio J, Caporaso NE, Thorgeirsson TE, Hokanson JE, Bierut LJ, Cox N, Stefansson K, Johnson EO. Genetically driven gene expression associated with nicotine dependence across ten brain regions reveals novel genes and brain regions. *Oral platform presentation*: NIDA Genetics Consortium Meeting; Rockville, Maryland, USA, January 8-9, 2018.
138. Arias MC, Wright CD, McNeil DW, Kao EC, Alexander L, Neiswanger K, Weyant R, Foxman B, Crout RJ, Marazita ML. Smoking trajectories during pregnancy and postpartum in north central Appalachia. *Oral platform presentation*: 47th Annual AADR Meeting & Exhibition/42th Annual CADR Meeting, Fort Lauderdale, FL, USA, March 21-24, 2018.
139. Kao EC, Arias MC, McNeil DW, Alexander L, Neiswanger K, Weyant R, Foxman B, Crout RJ, Marazita ML. Postpartum smoking: depression, stress, and oral health in Appalachia. *Poster*: 47th Annual AADR Meeting & Exhibition/42th Annual CADR Meeting, Fort Lauderdale, FL, USA, March 21-24, 2018.
140. Meadows Y, Hamrick C, Dieringer BM, Dillon JC, Randall CL, Neiswanger K, Crout RJ, Weyant R, Marazita ML, McNeil DW. Exploring intergenerational transmission of dental fear in school-aged children. *Poster*: 47th Annual AADR Meeting & Exhibition/42th Annual CADR Meeting, Fort Lauderdale, FL, USA, March 21-24, 2018.
141. Wright CD, Arias MC, McNeil DW, Neiswanger K, Crout RJ, Weyant R, Foxman B, Marazita ML. Gingival health trajectories and perceived stress during the perinatal period. *Oral platform presentation*: 47th Annual AADR Meeting & Exhibition/42th Annual CADR Meeting, Fort Lauderdale,

FL, USA, March 21-24, 2018.

142. Zhou Y, Cuddy R, McNeil DW, Wright C, Polk D, Crout RJ, Weyant R, Feingold E, Neiswanger K, Marazita ML, Shaffer JR. Oral health and dental utilization differs by rurality in Appalachia. *Oral platform presentation: 47th Annual AADR Meeting & Exhibition/42th Annual CADR Meeting*, Fort Lauderdale, FL, USA, March 21-24, 2018.
143. Alexander L, McNeil DW, Arias MC, Wright CD, Kao E, Neiswanger K, Weyant RJ, Foxman B, Crout RJ, Marazita ML (2957971). Implications of perinatal smoking trajectories in Appalachia in the USA. *Oral Platform Presentation: 96th General Session and Exhibition of the IADR*, London, England, July 25-28, 2018.
144. Alotaibi RN, Chernus JM, Neiswanger K, Mukhopadhyay N, Howe B, Moreno-Urbe LM, Sanchez C, Vieira AR, McNeil DW, Shaffer JR, Marazita ML. Genome-wide association study of dental caries in diverse Caucasian populations (2959634). *Oral platform presentation: 96th General Session and Exhibition of the IADR*, London, England, July 25-28, 2018.
145. Blostein F, Jansen EC, Jones AD, Marazita ML, Foxman B. Dietary patterns and dental decay among teenagers and adults (2960118). *Poster: 96th General Session and Exhibition of the IADR*, London, England, July 25-28, 2018.
146. Burgette J, Polk DE, Shah N, Malik A, Crout RJ, McNeil, Foxman B, Weyant RJ, Marazita ML. Mother's perceived social support and children's dental caries in northern Appalachia (2956115). *Oral Platform Presentation: 96th General Session and Exhibition of the IADR*, London, England, July 25-28, 2018.
147. McNeil DW, Shaffer JR, Chernus JM, Randall CL, Wright CD, Liu D, Crout RJ, Weyant RJ, Neiswanger K, Marazita ML. Biological influences on dental fear and anxiety: Genome-wide association study (2960779). *Oral Platform Presentation: 96th General Session and Exhibition of the IADR*, London, England, July 25-28, 2018. 147.
148. Orlova E, Carlson JC, Lee MK, Feingold E, McNeil DW, Crout RJ, Weyant RJ, Marazita ML, Shaffer JR. Genome Scans of Caries in African-Americans Show Genetic Heterogeneity (2960346). *Oral platform presentation: 96th General Session and Exhibition of the IADR*, London, England, July 25-28, 2018.
149. Orlova E, Chernus J, Carlson JC, Lee MK, Feingold E, McNeil DW, Crout RJ, Weyant RJ, Marazita ML, Shaffer JR. GWAS genome scans of early childhood caries phenotypes identify novel associations (2960655). *Oral platform presentation: 96th General Session and Exhibition of the IADR*, London, England, July 25-28, 2018.
150. Ramadugu K, Jiang W, Salzman B, Davis E, Rickard A, Neiswanger K, McNeil D, Marazita M, Foxman B (2959857). *Candida albicans* and caries in post-partum Appalachian women (2959857). *Poster: 96th General Session and Exhibition of the IADR*, London, England, July 25-28, 2018.
151. Haworth S (GLIDE Consortium). 69 genetic loci discovered for dental disease in 506,667 adults (2956337). *Oral Platform Presentation: 96th General Session and Exhibition of the IADR*, London, England, July 25-28, 2018.
152. Shungin D (GLIDE Consortium). Shared genetic contributions between oral and general health using GWAS in 506,667 adults (2955892). *Oral Platform Presentation: 96th General Session and Exhibition of the IADR*, London, England, July 25-28, 2018.
153. Blostein F, Foote S, Salzman E, Martin E, Marazita M, Foxman B. Herpes virus acquisition in infancy:

- association with the salivary microbiome? (MEEG2018_0304). *Poster*: 14th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infections Disease (MEEGID XIV), Sitges, Spain, November 6 – 9, 2018.
154. Nelson CI, Wright CD, Arias MC, McNeil DW, Kao E, Neiswanger K, Weyant RJ, Foxman B, Crout RJ, Marazita ML. Effects of maternal depression and oral health on child oral health. *Abstract*: 52nd Annual Convention of the Association for Behavioral and Cognitive Therapies, Washington, D.C., USA, November 15-18, 2018.
 155. Nelson CI, Kao E, Neiswanger K, Alexander L, Weyant RJ, Foxman B, Crout RJ, Marazita ML, McNeil DW. Pregnancy effects on pain-related and dental fears in Appalachian women. *Poster*: 31st APS Annual Convention, Washington, DC, USA, May 23-26, 2019.
 156. Nelson CI, Durkin K, Williford DN, Alexander L, Kao, E, Neiswanger K, Weyant RJ, Foxman B, Crout RJ, Marazita ML, McNeil DW. Effects of Culture and Pregnancy on Fear of Pain in Appalachian Women. *Poster*: IADR/AADR/CADR/ 97th General Session and Exhibition, Vancouver, BC, Canada, June 19-22, 2019.
 157. Snell AK, Burgette J, Weyant RJ, Crout R, McNeil DW, Foxman B, Marazita ML. Concordance between mother's perception and child dental caries experience (3169277). *Oral Platform Presentation*: IADR/AADR/CADR/ 97th General Session and Exhibition, Vancouver, BC, Canada, June 19-22, 2019. Awarded an AADR Bloc Travel Grant.
 158. Wright CD, McNeil DW. Gastrointestinal distress as mediator between psychological stress and periodontal inflammation (3185243). *Oral Platform Presentation*: IADR/AADR/CADR/ 97th General Session and Exhibition, Vancouver, BC, Canada, June 19-22, 2019.
 159. Quach BC, Bray M, Gaddis NC, Liu M, Palviainen T, Reginsson GW, Zellers S, Sherva R, Minica CC, Aliev F, Nothnagel M, Young KA, Young H, Marks J, Guo Y, Waldrop, A Landi MT, McNeil DW, Farrer LA, Markunas CA, Vink J, Iacono WG, Kranzler HR, Saccone NL, Neale MC, Madden P, Rietschel M, Marazita, ML, McGue M, Baker TB, Winterer G, Grucza R, Boomsma DI, Dick D, Gelernter J, Thorgeirsson TE, Caporaso NE, Kaprio J, Stefansson K, Hokanson JE, Vrieze S, Bierut LJ, Johnson EO, Hancock DB. Genome-wide association meta-analysis of nicotine dependence reveals novel loci and shared genetic influences with multiple traits: Findings from the iNDiGO (Nicotine Dependence GenOmics) consortium (Program #2193/W). *Poster*: 69th Annual Meeting of the American Society of Human Genetics, Houston, Texas, USA, October 15-18, 2019,
 160. Zhou Y, McNeil DW, Wehby GL, Deleyiannis FW, Hecht JT, Weyant RJ, Crout RJ, Feingold E, Marazita ML, Shaffer JR. Common and low-frequency coding variants at the ERN1 and XBPI loci are associated with dental caries in the primary dentition. *Poster*: 69th Annual Meeting of the American Society of Human Genetics, Houston, Texas, USA, October 15-19, 2019.
 161. Brumbaugh JT, Nelson CI, Kao E, Neiswanger K, Weyant RJ, Foxman B, Crout RJ, Alexander L, Marazita ML, McNeil DW. Associations between orofacial pain and psychological distress in pregnant women. *Submitted*: 53rd Annual Convention of the Association for Behavioral and Cognitive Therapies, Atlanta, GA, USA, November 21-24, 2019.
 162. Alotaibi RN, Howe BJ, Moreno Uribe LM, Valencia-Ramirez6 L, Restrepo-Muñeton C, Deleyiannis F, Padilla C, Orioli IM, Buxó-Martínez CJ, Hecht JT, Wehby GL, Neiswanger K, Shaffer JR, Weinberg SM, Marazita ML. Multivariate GWAS of correlated dental traits in a multiethnic cohort (3321231). *Oral Platform Presentation*: IADR/AADR/CADR/ 98th General Session and Exhibition, Washington, DC, USA, March 18-21, 2020.
 163. Brumbaugh J, Nelson CI, Wright CD, Kao EC, Neiswanger K, Weyant R, Foxman B, Crout RJ, Alexander L, Marazita ML, McNeil DW. Toothache and psychological distress in women during and

after pregnancy (3321257). *Poster*: IADR/AADR/CADR/ 98th General Session and Exhibition, Washington, DC, USA, March 18-21, 2020.

164. Burgette JM, Dahl Z, Marquart NA, Brown LJ, Weyant R, McNeil DW, Crout RJ, Foxman B, Marazita ML. Pilot analysis on mother's social network and child dental utilization (3310979). *Oral Platform Presentation*: IADR/ AADR/CADR/ 98th General Session and Exhibition, Washington, DC, USA, March 18-21, 2020.

Finalist for the Joseph Lister Award for New Investigators

165. Dahl Z, Marquart NA, Brown LJ, Weyant R, McNeil DW, Crout RJ, Foxman B, Marazita ML, Burgette JM. Opposition to the age one dental visit by dentists (3305811). *Oral Platform Presentation*: IADR/AADR/CADR/ 98th General Session and Exhibition, Washington, DC, USA, March 18-21, 2020.
166. Marquart NA, Dahl Z, Brown LJ, Weyant R, McNeil DW, Crout RJ, Foxman B, Marazita ML, Burgette JM. Influence of researchers on mother-child dental experience (3314655). *Oral Platform Presentation*: IADR/AADR/ CADR/ 98th General Session and Exhibition, Washington, DC, USA, March 18-21, 2020.
167. Mukhopadhyay N, Shaffer JR, Neiswanger K, Weyant R, Foxman B, Crout RJ, McNeil DW, Marazita ML. Identifying genes underlying lifetime caries risk in an Appalachian sample (3314857). *ePoster*: IADR/ AADR/CADR/ 98th General Session and Exhibition, Washington, DC, USA, March 18-21, 2020.
168. Orlova E, Mukhopadhyay N, Lee M, McNeil DW, Crout RJ, Weyant R, Feingold E, Shaffer JR, Marazita ML. Exome-wide rare variant analysis of early childhood caries. *ePoster*: IADR/ AADR/CADR/ 98th General Session and Exhibition, Washington, DC, USA, March 18-21, 2020.
169. Shaffer JR, McNeil DW, Zhou Y, Brumbaugh J, Wright CD, Randall CL, Chernus J, Foxman B, Weyant R, Crout RJ, Reis SE, Marazita ML. Genome-wide scan of dental fear and anxiety nominates novel genes (3324104). *Oral Platform Presentation*: IADR/ AADR/CADR/ 98th General Session and Exhibition, Washington, DC, USA, March 18-21, 2020.
170. Zhou Y, McNeil DW, Crout RJ, Weyant R, Reis SE, Marazita ML, Shaffer JR. Exome-wide low-frequency coding variants contribute to a chronic periodontitis-related phenotype (3319043). *Oral Platform Presentation and Poster*: IADR/ AADR/CADR/ 98th General Session and Exhibition, Washington, DC, USA, March 18-21, 2020.

Finalist in the AADR Hatton Competition for Postdoctoral Fellows

171. Zou T, Marazita ML, Warren J, Levy S, Shaffer JR. Genome-wide association study of longitudinal dental caries trajectory clusters (3314747). *Poster*: IADR/ AADR/CADR/ 98th General Session and Exhibition, Washington, DC, USA, March 18-21, 2020.
172. Alotaibi RN, Howe B, Moreno Uribe L, Valencia-Ramírez C, Restrepo Muñeton CP, Neiswanger K, Shaffer JR, Weinberg SM, Marazita ML. GWAS of enamel hypoplasia in a multiethnic cohort. *Abstract*: 10th International Symposium of Dental Enamel Wheeling, West Virginia, USA, May 3-7, 2020.

MEETING SYMPOSIA:

1. McNeil DW, Organizer. Understanding and assessing dental anxiety, fear, and phobia (Session 26639). *Lunch and Learning*: 41st Annual Meeting of the American Association for Dental Research, Tampa, Florida, USA, March 21-24, 2012.
2. McNeil DW, Chair. Dental fear and anxiety: behavioral sequelae over time. *Symposium*: 90th General Session of the International Association for Dental Research, Iguacu Falls, Brazil, June 20-23, 2012.
3. Armfield JM, McNeil DW, Chairs. Dental Fear and Oral Health in Challenging Population Groups. *Oral Session #55*: IADR/AADR/CADR 91st General Session, Seattle, Washington, USA, March 20-23, 2013.
4. McNeil DW, Marazita, ML, Foxman B, Chairs. Determinants of Oral Health among Families in Appalachia (Session 327). *Symposium*: IADR/AADR/CADR 93rd General Session & Exhibition, Boston, Massachusetts, USA, March 11-14, 2015.
5. McNeil DW, Chair. Behavioral Dentistry: Evidence-Basis and Vision for the Future. *Symposium*: IADR/AADR/CADR 95th General Session & Exhibition, San Francisco, California, USA, March 22-25, 2017.
6. McNeil DW, Randall CL, Organizers. Behavioral and Social Oral Health Sciences Summit. *Satellite Symposium* of the IADR/AADR/CADR 98th General Session & Exhibition, Washington, DC, USA, March 16, 2020.