**COHRA Bibliography**

**Student Dissertations and Theses:**

1. Whelan, Melanie M. Doctor of Philosophy in Nursing received, West Virginia University, 2010. Title of Dissertation: “The Application of the Vulnerable Populations Conceptual Framework to Determine Factors Predictive of Overweight and Obesity in Appalachian Children and Adolescents.”
2. Commander, Sara. M.S. in Genetic Counseling received, University of Pittsburgh, 2011. Title of Thesis: “Investigation of Genetic Association of *MMP10* with Dental Caries.”
3. Wiener, R. Constance. Doctor of Philosophy in Public Health Sciences received, West Virginia University, 2012. Title of Dissertation: “Epipathogenesis of Caries: Analyses of Family Structure, Fear, and Fatalism upon World Health Organization Decayed, Missing, and Filled Teeth Severity in Appalachia West Virginia and Pennsylvania.”
4. Zheng, Xiaojing. Doctor of Philosophy in Biostatistics received, University of Pittsburgh, 2012. Title of Dissertation: “Statistical Methods and Analysis for Human Genetic Copy Number Variation and Homozygosity Mapping. Doctoral Dissertation, University of Pittsburgh.”
5. Ozbek, Umut. Doctor of Philosophy in Biostatistics received, University of Pittsburgh, 2013. Title of Dissertation: “Statistical Methods for Recovering GWAS Data. Doctoral Dissertation, University of Pittsburgh.”
6. Begum, Ferdouse. Doctor of Philosophy in Biostatistics received, University of Pittsburgh, 2013. Title of Dissertation: “GWAS Meta-Analysis: Methodology and Application to Human Meiotic Recombination. Doctoral Dissertation, University of Pittsburgh.”
7. Zeng, Zhen. M.S. in Human Genetics received, University of Pittsburgh, 2014. Title of Thesis: “Genome-wide Association Studies of Pit and Fissure Surface Caries and Smooth Surface Caries in the Permanent Dentition.”
8. Lewis, Deyana D. Doctor of Philosophy in Human Genetics received, University of Pittsburgh, 2015.  Title of Dissertation: “Candidate Genes and Replication Studies of Dental Caries.”
9. Mukhopadhyay, Nandita. Doctor of Philosophy in Human Genetics received, University of Pittsburgh, 2016. Title of Dissertation: “Computational Methods for Calculating Meiotic Recombination from Nuclear Pedigrees."

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**In Press:**

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1. Shaffer JR, McNeil DW, Crout RJ, Weyant RJ, Marazita ML. Association between dental caries and asthma: shared genetics and environment. *CDOE,* (submitted).
2. Lewis DD, Shaffer JR, Feingold E, Cooper M, Vanyukov MM, Maher BS, Slayton RL, Willing MC, Reis SE, McNeil DW, Crout RJ, Weyant RJ, Levy SM, Vieira AR, Marazita, ML. Ion channel genes CACNA2D1, KCNH1, and KCNK5 are associated with dental caries (submitted).
3. Govil M, Mukhopadhyay N, Weeks DE, Feingold E, Shaffer JR, Levy SM, Vieira AR, Slayton RL, McNeil DW, Weyant RJ, Crout RJ, Marazita ML. Novel caries loci in children and adults implicated by genome-wide linkage. (submitted).
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**Book Chapters:**

1. McNeil DW, Crout RJ, Marazita ML. Oral health in Appalachia. In *Appalachian Health and Well-Being.* (RL Ludke and PJ Obermiller, eds), Lexington: University Press of Kentucky, pp 275-294, 2012*.*
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**NATIONAL MEETING PRESENTATIONS, POSTERS, and ABSTRACTS:**

1. McNeil DW, Cohen LL, Crout RJ, Berk NW, Weyant RJ, Lawrence SM, Davis BA, Patthoff EB, Vowles KE, Sorrell JT, Tarter RE. Dental fear differences in Appalachian children and their parents. *Poster*: Annual Meeting of the Association for Advancement of Behavior Therapy, Philadelphia, Pennsylvania, USA, November, 2001.
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26. Marazita ML, Cooper ME, Wendell SK, Dilettuso BA, Kureichyk A, Regina RL, Brown ML, Barkanic GE, Crout RJ, McNeil DW, Weyant RJ. Genetic and other associations with dental caries in mixed dentition (Abstract #579). *Oral platform presentation*: 37th Annual American Association for Dental Research, Dallas, Texas, USA, April 2-5, 2008. *Journal of Dental Research* **87** (Spec Issue A): abs # 579, 2008. ([www.dentalresearch.org](http://www.dentalresearch.org)).
27. Cooper ME, Wendell SK, Dilettuso BA, Kureichyk AL, Regina RL, Brown ML, Barkanic GE, Crout RJ, McNeil DW, Weyant RJ, Marazita ML. Association study of candidate genes for dental caries in adults (Abstract #580). *Oral platform presentation*: 37th Annual American Association for Dental Research, Dallas, Texas, USA, April 2-5, 2008. *Journal of Dental Research* **87** (Spec Issue A): abs # 580, 2008. ([www.dentalresearch.org](http://www.dentalresearch.org)).
28. Polk DE, Weyant RJ, Marazita ML, Crout RJ, McNeil DW, Barkanic G. DMFT in children Is associated with multiple maternal factors (Abstract #530). *Oral platform presentation*: 37th Annual American Association for Dental Research, Dallas, Texas, USA, April 2-5, 2008. *Journal of Dental Research* **87** (Spec Issue A): abs # 530, 2008. ([www.dentalresearch.org](http://www.dentalresearch.org)).
29. Choi D, Drake D, Banas JA, Gadre D, Olson B, Crout RJ, McNeil DW, Weyant RJ, Marazita ML. *Streptococcus mutans* strain variability and dental caries (Abstract #419). *Poster*: 37th Annual American Association for Dental Research, Dallas, Texas, USA, April 2-5, 2008. *Journal of Dental Research* **87** (Spec Issue A): abs # 419, 2008. ([www.dentalresearch.org](http://www.dentalresearch.org)).
30. Crout RJ, Thomas JG, Gray DM, McNeil DW, Weyant RJ, Marazita ML. Defining an oral microbial signature (OMS) in an Appalachian population (Abstract #1190). *Poster*: 37th Annual American Association for Dental Research, Dallas, Texas, USA, April 2-5, 2008. *Journal of Dental Research* **87** (Spec Issue A): abs # 1190, 2008. ([www.dentalresearch.org](http://www.dentalresearch.org)).
31. McNeil DW, Henderson SA, Crout RJ, Polk D, Weyant RJ, Marazita ML. Dental fear among youth in Appalachia (Abstract #879). *Poster*: 37th Annual American Association for Dental Research, Dallas, Texas, USA, April 2-5, 2008. *Journal of Dental Research* **87** (Spec Issue A): abs #879, 2008. ([www.dentalresearch.org](http://www.dentalresearch.org)).
32. Neiswanger K, Weyant RJ, Crout RJ, McNeil DW, Marazita ML. Accuracy of NicAlertTM strips tested with urine and saliva (Abstract #884). *Poster*: 37th Annual American Association for Dental Research, Dallas, Texas, USA, April 2-5, 2008. *Journal of Dental Research* **87** (Spec Issue A): abs # 884, 2008. ([www.dentalresearch.org](http://www.dentalresearch.org)).
33. Wang XJ, Marazita ML, Levy SM, Santiago S, Broffitt B, Smith BJ, Lidral AC, Willing M. Genetic and environmental factors associated with dental caries in children (Abstract #174). *Poster* *for Hatton Award competition*: 37th Annual American Association for Dental Research, Dallas, Texas, USA, April 2-5, 2008. *Journal of Dental Research* **87** (Spec Issue A): abs # 174, 2008. ([www.dentalresearch.org](http://www.dentalresearch.org)).
34. Wendell SK, Cooper ME, Dilettuso BA, Kureichyk AL, Brown ML, Regina RL, Barkanic GE, Crout RJ, McNeil DW, Weyant RJ, Marazita ML. Association of candidate genes with dental caries in young children (Abstract #903). *Poster*: 37th Annual American Association for Dental Research, Dallas, Texas, USA, April 2-5, 2008. *Journal of Dental Research* **87** (Spec Issue A): abs # 903, 2008. ([www.dentalresearch.org](http://www.dentalresearch.org)).
35. Polk DE, Weyant RJ, Marazita ML, Crout RJ, McNeil DW, Barkanic G. When do the disparities in caries due to socioeconomic status occur? (Abstract #1664). *Poster*: 66th Annual Meeting of the American Psychosomatic Society, Baltimore Maryland, USA, March 12-15, 2008. *Psychosomatic Medicine* **70**(3): A95, 2008.
36. Crout R, McNeil D, Thomas J, Polk D, Weyant R, Marazita M. Disparities in rural Appalachian families: adult periodontal findings. *Poster*: 94th Annual Meeting of the American Academy of Periodontology, Seattle, Washington, USA, September 5-9, 2008.
37. McNeil D, Crout R, Polk D, Weyant R, Marazita M. Promoting oral health literacy and satisfaction in Appalachia through technology. *Poster:* 42nd Annual Convention of the Association for Behavioral and Cognitive Therapies, Orlando, Florida, USA, November 13-16, 2008.
38. Gadre DV, Olson B, Drake D, Weyant RJ, McNeil DW, Crout R, Thomas J, Marazita M. Diversity of *Streptococcus mutans* genotypes from lower socioeconomic Appalachian families. *Poster:* 87th General Session & Exhibition of the IADR/38th Annual Meeting of the AADR, Miami, Florida, USA, April 1-4, 2009.
39. Tworek C, Crout R, McNeil D, Weyant R, Marazita M. Smokeless tobacco use and oral health in rural Appalachia. *Poster*: 87th General Session & Exhibition of the IADR/38th Annual Meeting of the AADR, Miami, Florida, USA, April 1-4, 2009.
40. McNeil D, Crout R, Weyant R, Marazita M. Dental and pain fears among youth and parents in Appalachia. *Poster*: 87th General Session & Exhibition of the IADR/38th Annual Meeting of the AADR, Miami, Florida, USA, April 1-4, 2009.
41. Choi D, Banas J, Drake D, Kramer K, Dawson D, McNeil D, Crout R, Weyant R, Marazita M. *Streptococcus mutans* genotypes: biofilm formation and acidogenicity. *Poster:* 87th General Session & Exhibition of the IADR/38th Annual Meeting of the AADR, Miami, Florida, USA, April 1-4, 2009.
42. Gray D, Thomas J, Crout R, McNeil D, Weyant R, Marazita M. Identifying abiotic consequences of tooth placement utilizing enzymatic detection. *Poster*: 87th General Session & Exhibition of the IADR/38th Annual Meeting of the AADR, Miami, Florida, USA, April 1-4, 2009.
43. Crout R, McNeil D, Casto G, Weyant R, Marazita M. Desire for endodontic therapy in an Appalachian community. *Poster*: Annual Session of the American Association of Endodontists (AAE), Orlando, Florida, USA, April 29 – May 2, 2009.
44. Shaffer JR, Wang XJ, Weyant RJ, Cuenco KT, Crout R, McNeil DW, Marazita ML. Evidence of age-dependent genetic effects on tooth decay: heritability estimates suggest genes influencing dental caries differ between primary and permanent dentitions. *Poster*: 59th Annual Meeting of the American Society of Human Genetics, Honolulu, Hawaii, USA, October 20-24, 2009.
45. Cuenco KT, Wendell SK, Thomas JG, Gray DM, Wang XJ, Weyant RJ, Crout RM, McNeil DW,Marazita ML. Functional variant of the bitter taste receptor gene associated with oral microbial profiles in the COHRA study. *Poster*: 59th Annual Meeting of the American Society of Human Genetics, Honolulu, Hawaii, USA, October 20-24, 2009.
46. Moeller J, Marazita ML,Feingold E, Cuenco K, Weyant R, DeSensi R**.** Familial correlations in dental caries and periodontal disease: indicators and risk factors. *Poster*: 28th Annual Education Conference of the National Society of Genetic Counselors, Atlanta, Georgia, USA, November 11-15, 2009.
47. Choi D, Banas J, Drake D, Lynch D, Dawson D, Dramer K, McNeil D, Crout R, Weyant R, Marazita M.  *Streptococcus mutans* genotypes: planktonic acid tolerance. *Oral platform presentation*: 39th Annual American Association of Dental Research Annual Meeting, Washington, DC, USA, March 3-6, 2010. *Journal of Dental Research* **89** (Special Issue A): 648, 2010. ([www.dentalresearch.org](http://www.dentalresearch.org)).
48. Marazita ML, Shaffer JR, Wang XJ, Lee MK, Begum F, Feingold E, Weeks DE, Barmada MM, Cuenco KT, Wendell S, Crosslin D, Laurie C, Weir B, Doheny K, Pugh E, Weyant FJ, Crout R, McNeil D, Levy SM, Slayton RL, Willing M, Broffitt B, Vieira AR. Genome-wide association study of caries in the primary dentition. *Oral platform presentation*: 39th Annual American Association of Dental Research Annual Meeting, Washington, DC, USA, March 3-6, 2010. *Journal of Dental Research* **89** (Special Issue A): 1507, 2010. ([www.dentalresearch.org](http://www.dentalresearch.org)).
49. Marazita ML**.** Feasibility of large genetic population-based studies on caries. *Oral platform presentation:* 88th General Session of the International Association of Dental Research, Barcelona, Spain, July 14-17, 2010. *Journal of Dental Research* **89** (Spec Issue B): 177, 2010 ([www.dentalresearch.org](http://www.dentalresearch.org)).
50. Srinivasan U, Wen A, Zhang L, Ferrer E, Marrs CF, Goldberg D, Thomas J, Weyant R, Crout R, McNeil D, Marazita M, Foxman B.  Does oral bacterial diversity predict progression to caries to children? Results of a pilot study. *Poster*: International Society of Microbial Ecology, Seattle, Washington, USA, August 23-27, 2010.
51. Motlagh H, Thomas JG, Crout R, McNeil DW, Marazita ML**,** Weyant RJ. Women, Oral Flora, and Northern Appalachia: Is there a Unique Microbial Signature? *Poster*: Fourth American Dental Education Association (ADEA) International Women’s Leadership Conference**,** Salvador, Brazil, September 5-8, 2010.
52. LeeMK, CuencoKT, WangX, ShafferJR, BegumF, FeingoldE, WeeksDE, BarmadaMM, WendellS, CrosslinD, LaurieC, WeirB, DohenyK, PughE, WeyantRJ, VieiraA, CroutRJ, McNeilDW, Levy SM, SlaytonRL, WillingMC, BroffittB, Marazita ML. Genome-wide association study of saliva flow rates from the GENEVA-COHRA study (Abstract/Program #1075). *Poster*: 60th Annual Meeting of the American Society of Human Genetics, Washington, DC, USA, November 2-6, 2010.
53. Ling H,Shaffer JR, Beaty TH,Marazita ML, Ruczinski I, Feingold E, Laurie CC, Crosslin D, Weir B, Scott AF, Doheny KF, Pugh EW. Description of transmission distortion in two family-based GWAS (Abstract/Program #2695). *Poster*: 60th Annual Meeting of the American Society of Human Genetics, Washington, DC, USA, November 2-6, 2010.
54. Feingold E, Shaffer JR, Wang XJ, Lee MK, Begum F, Weeks DE, Barmada M, T.Cuenco K, Wendell S, Crosslin D, Laurie C, Doheny K, Pugh E, Geller F, Feenstra B, Zhang H, Boyd H, Melbye M, Weyant RJ, Crout R, McNeil D, Levy SM, Slayton RL, Willing M, Broffitt B, Marazita ML. Whole genome-scan of genetic determinants for dental caries in the primary dentition (Abstract/Program #1043). *Poster*: 60th Annual Meeting of the American Society of Human Genetics, Washington, DC, USA, November 2-6, 2010.
55. Wang XJ, Shaffer JR, Feingold E, Lee MK, T.Cuenco K, Begum F, Weeks DE, Barmada M, Wendell S, Crosslin D, Laurie C, Weir B, Doheny K, Pugh E, Weyant RJ, Vieira A, Crout R, McNeil D, Marazita ML Whole genome-scan of genetic determinants for dental caries in the permanent dentition (Abstract/Program #1093). *Poster*: 60th Annual Meeting of the American Society of Human Genetics, Washington, DC, USA, November 2-6, 2010.
56. Nelson S, Crosslin D, Browning BL, Feingold E, Marazita ML, Laurie CC. Effects of ignoring relatedness among study subjects in genotype imputation analyses (Abstract/Program #3030). *Poster*: 60th Annual Meeting of the American Society of Human Genetics, Washington, DC, USA, November 2-6, 2010.
57. Zheng X, Shaffer JR, McHugh C, Laurie C, Pugh E, Doheny K, Melbye M, Murray JC, Marazita ML, Feingold E. Using family data as a verification standard to evaluate CNV calling strategies (Abstract/Program #1842). *Poster*: 60th Annual Meeting of the American Society of Human Genetics, Washington, DC, USA, November 2-6, 2010.
58. Deeley K, Callahan N, Noel J, Anjomshoaa I, Carricato W, Schulhof L, DeSensi R, Ghandi P, Resick J, Brandon C, Rozhon C, Patir A, Yildirim M, Poletta FA, Mereb J, Letra AMG, Menezes R, Wendell S, Lopez-Camelo J, Castilla E, Orioli I, Seymen F, Weyant R, Crout RJ, McNeil DW, Modesto A, Marazita ML, Vieira A. Quantifying Streptococcus mutans infection from human DNA samples (Abstract #17). *Oral platform presentation:* IADR/AADR/CADR 89th General Session, San Diego, California, USA, March 16-19, 2011. *Journal of Dental Research* **90** (Special Issue A): 17, 2011. ([www.dentalresearch.org](http://www.dentalresearch.org)).
59. McNeil DW, Vargovich AM, Crout RJ, Weyant R, Marazita ML. Dental fear and relation to fear of pain in Appalachia (Abstract #3357). *Poster:* IADR/AADR/CADR 89th General Session, San Diego, California, USA, March 16-19, 2011. *Journal of Dental Research* **90** (Special Issue A): 3357, 2011.([www.dentalresearch.org](http://www.dentalresearch.org)).
60. Randall C, McNeil DW, Crout R, Weyant R, Marazita ML. Automated psychosocial assessment in oral health research (Abstract #2109). *Poster:* IADR/AADR/CADR 89th General Session, San Diego, California, USA, March 16-19, 2011. *Journal of Dental Research* **90** (Special Issue A): 2109, 2011.([www.dentalresearch.org](http://www.dentalresearch.org)).
61. Lee M, T.CuencoK, WangX, ShafferJR, BegumF, FeingoldE, WeeksDE, BarmadaMM, WendellS, CrosslinD, LaurieC, DohenyKF, PughE, WeyantRJ, CroutRJ, McNeilDW, MarazitaML. Genome-wide association study of saliva flow rate and integration of protein-gene networks (Abstract #P08.63). *Poster*: European Human Genetics Conference 2011, Amsterdam RAI, the Netherlands, May 28-31, 2011. *European Journal of Human Genetics* **19** (Suppl. 2): 261, 2011.
62. Modesto A, Deeley K, Castilla E, Seymen F, Marazita ML, Vieira AR. Detection of *Streptococcus mutans* in human DNA from saliva. *Poster (P26-464) in the Morita Prize session:* 23rd Congress of the International Association of Paediatric Dentistry, Athens, Greece, June 15-18, 2011. *International Journal of Pediatric Dentistry* **21** (Suppl. 1): 223, 2011.
63. Graff M, Gordon-Larsen P, Ngwa JS, Workalemahu T, Lu Q, Esko T, Metspalu A, Amin N, Schlessinger D, Fox CS, Cupples LA, Berndt S, Strachan D, Teumer A, Voelzke H, Scheet P, Schurmann C, Van Dam RM, North K, Schaffer JR, Marazita ML, Crout R, White CC, van Duijn CM. A meta-analysis of genetic loci for BMI in adolescence. *Oral platform presentation:* Obesity 2011, 29th Annual Scientific Meeting, Orlando, Florida, USA, October 1-5, 2011. *Obesity* **19** (Suppl. 1): S65, 2011.
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. GellerF, FeenstraB, ZhangH, ShafferJR, HansenT, BoydHA, Nohr EA, Timpson NJ, Evans DM, WeyantRJ, LevySM, Lathrop M, Davey Smith G, MurrayJC, WergeT, MarazitaML, SørensenTIA, MelbyeM. Genome-wide association study identifies four loci associated with eruption of permanent teeth (Abstract #699; www.icgh 2011.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.icgh 2011.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.icgh 2011.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.icgh 2011.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.icgh 2011.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.icgh 2011.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. 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, Iguaçu Falls, Brazil, June 20-23, 2012.

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

1. 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, Iguaçu Falls, Brazil, June 20-23, 2012.
2. 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.
3. 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 familiality 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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](http://www.dentalresearch.org)).
12. 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](http://www.dentalresearch.org); [www.iadr.org](http://www.iadr.org)).
13. 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](http://www.dentalresearch.org)).
14. 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](http://www.dentalresearch.org)).
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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](http://www.dentalresearch.org)).
25. Duverger O, Ohara 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](http://www.dentalresearch.org)).
26. 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](http://www.dentalresearch.org)).
27. 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](http://www.dentalresearch.org)).
28. 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](http://www.dentalresearch.org)).
29. 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](http://www.dentalresearch.org)).
30. 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](http://www.dentalresearch.org)).
31. 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](http://www.dentalresearch.org)).
32. 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](http://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).**

1. 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](http://www.dentalresearch.org)).
2. 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.**

1. 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.
2. 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](http://www.dentalresearch.org)).
3. 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](http://www.dentalresearch.org)).
4. 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](http://www.dentalresearch.org)).
5. 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**.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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. *Abstract:* IADR/AADR/CADR 95th General Session & Exhibition, San Francisco, California, USA, March 22-25, 2017.
11. 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:* IADR/AADR/CADR 95th General Session & Exhibition, San Francisco, California, USA, March 22-25, 2017.
12. Wright CD, Edwards CB, McNeil DW, Crout RJ, Neiswanger K, Weyant R, Foxman B, Marazita ML. Periodontal disease and quality of life: Impact of dental fear. *Abstract:* IADR/AADR/CADR 95th General Session & Exhibition, San Francisco, California, USA, March 22-25, 2017.

**NATIONAL 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, Iguaçu Falls, Brazil, June 20-23, 2012.

1. 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.
2. 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.