

MARY L. MARAZITA

BIOGRAPHICAL

Name: Mary Louise Marazita	Birth Place: Cheboygan, Michigan
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EDUCATION AND TRAINING

UNDERGRADUATE:

Dates Attended	Name and Location of Institution	Degree Received and Year	Major Subject
1972-1976	Michigan State University East Lansing, MI	B.S., 1976	Animal Husbandry

GRADUATE:

Dates Attended	Name and Location of Institution	Degree Received and Year	Discipline and Major Advisor
1977-1980	University of North Carolina Chapel Hill, NC	Ph.D., 1980	Genetics Dr. Robert C. Elston

POSTGRADUATE:

Dates Attended	Name and Location of Institution	Discipline and Program Director
1980-1982	University of Southern California Los Angeles, CA	Craniofacial Biology Program Director: Dr. Harold Slavkin Mentor: Dr. Michael Melnick

APPOINTMENTS AND POSITIONS

ACADEMIC:

Name and Location of Institution	Rank/Title	Years Inclusive
Neuropsychiatric Institute University of California, Los Angeles, CA	Senior Statistician	1982–1986
Departments of Biostatistics and Biomathematics University of Californ, Los Angeles, CA	Lecturer	1984–1986
Mental Retardation Research Center, Neuropsychiatric Institute , University of California Los Angeles, CA	Member	1985–1986
Department of Human Genetics , Medical College of Virginia, Virginia Commonwealth University Richmond, VA	Assistant Professor	1986–1992
	Associate Professor (with tenure)	1993
School of Dentistry , Medical College of Virginia, Virginia Commonwealth University Richmond, VA	Affiliate Assistant Professor	1992–1993
Cleft Palate-Craniofacial Center School of Dental Medicine, University of Pittsburgh, Pittsburgh, PA	Director	1993–2000
Department of Oral and Maxillofacial Surgery School of Dental Medicine, University of Pittsburgh, Pittsburgh, PA	Associate Professor (with tenure)	1993–1997
	Professor	1997–2006
Department of Human Genetics Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA	Associate Professor	1993–1997
	Professor	1997–present
Division of Oral Biology (NOTE academic unit prior to establishment of the Department of Oral Biology in 2006—see below); School of Dental Medicine, University of Pittsburgh, Pittsburgh, PA	Interim Head	1999–2000
	Head	2000–2006
Center for Craniofacial and Dental Genetics School of Dental Medicine, University of Pittsburgh, Pittsburgh, PA	Director	2001–present
School of Dental Medicine University of Pittsburgh, Pittsburgh, PA	Interim Director, Research	2000

	Assistant Dean of Research	2000–2001
	Associate Dean of Research	2001-2013
Department of Psychiatry School of Medicine, University of Pittsburgh, Pittsburgh, PA	Assistant Professor	1995-2003
	Professor	2003–present
Department of Oral Biology (NOTE Department established in 2006, Marazita first Chair) School of Dental Medicine, University of Pittsburgh, Pittsburgh, PA	Professor	2006–present
	Chair	2006–2009
	Vice Chair	2009–2018
Clinical and Translational Science Institute Schools of the Health Sciences, University of Pittsburgh, Pittsburgh, PA	Professor	2008–present

NON-ACADEMIC:

Years Inclusive	Name and Location of Institution	Rank/Title or Position
1986-1993	Division of Maternal and Child Health Virginia Department of Health Richmond, VA	Genetic Epidemiology Consultant and Director, Virginia Congenital Anomalies Reporting and Education System (VaCARES)

MAJOR NATIONAL SERVICE	
Years	Activity
2007-2011	NHGRI, member, GENEVA Steering Committee
2007-2012	NHGRI/RTI, member, PhenX Steering Committee
2011-2015	Member, National Advisory Dental and Craniofacial Research Council (NADCRC)
2010-2011	NIDCR, member, Director Search Committee
2013-present	NHGRI/RTI, co-Chair, PhenX Steering Committee
2013-present	NIDCR, member, FaceBase Steering Committee
2014-2015	NIH Director's Office, Member, NIH Big Data to Knowledge (BD2K) Multi-Council Working Group
2016-present	Center for Inherited Disease (CIDR), Research Access Committee, NHGRI
2018-present	NIH All of Us, Member, Research Program Scientific Priorities Working Group
2018-present	Chair, Craniofacial Clinical Science Oversight Committee (CSOC), NIDCR

CERTIFICATION AND LICENSURE

SPECIALITY CERTIFICATION:	
Certifying Board	Year
American Board of Medical Genetics (Ph.D. Medical Geneticist)	1987, certificate number 870237
American College of Medical Genetics	1993-present, Founding Fellow of the American College of Medical Genetics

ACTIVITIES AND POSITIONS RELATED TO BOARD CERTIFICATION:	
Years	Description of Activity
2000–2002	Member, Maintenance of Certification Committee, American Board of Medical Genetics
1999–2002	Secretary, Board of Directors, American Board of Medical Genetics
1998–2002	Member, Accreditation Committee, American Board of Medical Genetics
1997–2002	Chief, Ph.D. Medical Geneticist Examination, 1999 and 2002 Board Exams Item writer, 1999 and 2002 General Board Exams American Board of Medical Genetics
1997–2002	Member, Board of Directors, American Board of Medical Genetics (position held after national election)
1997–1998	Member, Credentials Committee, American Board of Medical Genetics
1994–2000	Director, Ph.D. Medical Genetics Training Track, Department of Human Genetics, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA
1993–present	Founding Fellow, American College of Medical Genetics
1991–1996	Item writer, 1993 and 1996 Ph.D. Medical Geneticist Board Exams American Board of Medical Genetics, National Board of Medical Examiners

DENTAL OR OTHER PROFESSIONAL LICENSURE:

Not applicable

MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES		
Year	Organization	
1995–2000	Tissue Engineering Society	

1993–2000	Pennsylvania Federation of Cleft Palate Clinics	
1993–present	American Cleft Palate-Craniofacial Association	
1992–present	American Association for Dental Research	
1992–present	International Association for Dental Research	
1985–present	International Genetic Epidemiology Society	
1986–2002	Mid Atlantic Region Human Genetics Network(MARHGN)	
1980–present	Behavior Genetics Association	
1978–present	American Society of Human Genetics	

HONORS	
Year	Title of Award
2017	Walter J Gies Award for Best Paper Published in the Journal of Dental Research in 2015
2017	Giddon Award for the best oral health behavioral science research article, presented by the Behavioral, Epidemiologic and Health Services Research Scientific Group of the IADR
2013	Walter J Gies Award for Best Paper Published in the Journal of Dental Research in 2012
2011	University of Pittsburgh, Chancellor’s Distinguished Researcher Award (Senior Scholar)
1980–1982	NIH Postdoctoral Fellowship, Craniofacial Biology
1977–1980	NIH Predoctoral Fellowship, Human Genetics
1975–1976	American Society of Animal Science Scholarship

PUBLICATIONS

This link provides a list of published work in NCBI “My Bibliography”:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/mary.marazita.1/bibliography/40302951/public/?sort=date&direction=descending>

PUBLICATION IMPACT

MARAZITA GOOGLE SCHOLAR CITATION METRICS (accessed April 25, 2019)			
	ALL	SINCE 2014	DEFINITION
Citations	20,108	9,510	Citations, ALL = number of citations to all publications Citations, SINCE 2014 = number of new citations since 2014 to all publications
i10-index	266	198	i10-index, ALL =number of publications with at least 10 citations.

			i10-index, SINCE 2014 =number of publications with at least 10 new citations since 2014
h-index	76	52	h-index, ALL = the largest number h such that h publications have at least h citations. 20=good, 40=outstanding, 60=exceptional h-index, SINCE 2014 = the largest number h such that h publications have at least h new citations since 2014.
Erdős number = 5			https://oakland.edu/enp/ https://oakland.edu/enp/compute/

PEER-REVIEWED PAPERS:

1. Melnick M, Jaskol T, **Marazita ML**. Localization of H-2K in developing mouse palates using monoclonal antibody. *Journal of Embryology and Experimental Morphology* **70**: 45-60, 1982. [PMID 6754848]
2. Melnick M, **Marazita ML**, Jaskol T. Corticosteroid-induced abnormality in mice and H-2 haplotype: Cytoplasmic inheritance. *Immunogenetics* **17**: 141-146, 1983. [PMID 6681803]
3. Melnick M, Jaskol T, **Marazita ML**. H-2 haplotype and the embryo toxicity of serum from non-pregnant congenic mice. *Immunogenetics* **18**: 131-135, 1983. [PMID 6885118]
4. **Marazita ML**, Elston RC, Namboodiri KK, Hames CG. Factors contributing to the variability in serum lipid levels and blood pressure in a large kindred. *American Journal of Epidemiology* **118**: 806-817, 1983. [PMID 6650482]
5. **Marazita ML**, Spence MA, Melnick M. Genetic analysis of cleft lip with or without cleft palate in Danish kindreds. *American Journal of Medical Genetics* **19**: 9-18, 1984. [PMID 6496575]
6. Spence MA, Falk CT, Neiswanger K, Field LL, **Marazita ML**, Allan FH, Jr., Siervogel RM, Roche AF, Sparkes RS. Estimating the recombination frequency for the PTC-Kell linkage. *Human Genetics* **67**: 183-186, 1984. [PMID 6745938]
7. Spence MA, Field LL, **Marazita ML**, Joseph J, Sparkes M, Crist M, Crandall BF, Anderson CE, Bateman JB, Rotter JI, Kidd KK, Hodge SE, Sparkes RS. Estimating the recombination frequency for the MN and the Ss loci. *Human Heredity* **34**: 343-347, 1984. [PMID 6510930]
8. Falk CT, Spence MA, **Marazita ML**, Field LL, Allen FH, Siervogel RM, Roche AF,

- Crandall BF, Neiswanger K, Sparkes RS. Evidence for heterogeneity for the PTC-Kell linkage. Human Gene Mapping VII, Los Angeles, California, August 1983. *Cytogenetics and Cell Genetics* **37**: 467, 1984.
9. Spence MA, **Marazita ML**, Sparkes MC, Crist M, Field LL, Joseph J, Sparkes RS. Recombination frequency for the MN and Ss loci. Human Gene Mapping VII, Los Angeles, California, August 1983. *Cytogenetics and Cell Genetics* **37**: 589-90, 1984.
 10. Ritvo ER, Spence MA, Freeman BJ, Mason-Brothers A, Mo A, **Marazita ML**. Evidence of autosomal recessive inheritance in 46 families with multiple incidences of autism. *American Journal of Psychiatry* **142**: 187-192, 1985. [PMID 4038589]
 11. Spence MA, Ritvo ER, **Marazita ML**, Funderburk SE, Sparkes RS, Freeman BJ. Gene mapping studies with the syndrome of autism. *Behavior Genetics* **15**: 1-13, 1985. [PMID 3985910]
 12. Haile RWC, Goldstein A, Field LL, **Marazita ML**. A linkage analysis of the Gm locus and multiple sclerosis. *Genetic Epidemiology* **2**: 29-34, 1985. [PMID 3876966]
 13. Sparkes RS, Spence MA, Gottlieb NL, Gray RG, Crist M, Sparkes MC, **Marazita ML**. Genetic linkage analysis of Carpal Tunnel Syndrome. *Human Heredity* **35**: 288-291, 1985. [PMID 4043979]
 14. Spence MA, **Marazita ML**, Hodge SE. Genetic Analysis Workshop III: Two point analysis of multipoint data. *Genetic Epidemiology* **2**: 225-226, 1985.
 15. **Marazita ML**, Spence MA, Sparkes RS, Field LL, Crandall BF, Sparkes MC, Crist M. Linkage relations of GPT (glutamic-pyruvate transaminase). Human Gene Mapping VIII, Helsinki, Finland, August 1985. *Cytogenetics and Cell Genetics* **40**: 690-691, 1985.
 16. **Marazita ML**, Spence MA, Sparkes RS, Field LL, Sparkes MC, Crist M. Linkage relations of CHE2 (cholinesterase-2). Human Gene Mapping VIII, Helsinki, Finland, August 1985. *Cytogenetics and Cell Genetics* **40**: 690-691, 1985.
 17. **Marazita ML**, Spence MA, Boustany R-M, Fleishnick E, Martin JB, Kolodny EH. Linkage relations of PLG (plasminogen). Human Gene Mapping VIII, Helsinki, Finland, August 1985. *Cytogenetics and Cell Genetics* **40**: 689, 1985.
 18. **Marazita ML**, Cederbaum SD, Spence MA, Crandall BF, Sparkes RS, Sparkes MC, Crist M. Possible heterogeneity in the linkage between autosomal dominant CMT1 (Charcot-Marie-Tooth neuropathy type I) and Fy. Human Gene Mapping VIII, Helsinki, Finland, August 1985. *Cytogenetics and Cell Genetics* **40**: 688-689, 1985.
 19. Bateman JB, Sparkes RS, **Marazita ML**, Spence MA, Broughton WL. Colobomatous microphthalmia possibly linked to PGP. Human Gene Mapping VIII, Helsinki, Finland,

August 1985. *Cytogenetics and Cell Genetics* **40**: 577, 1985.

20. Bateman JB, Spence MA, **Marazita ML**, Sparkes RS. Linkage analysis in 3 families with autosomal dominant cataracts. Human Gene Mapping VIII, Helsinki, Finland, August 1985. *Cytogenetics and Cell Genetics* **40**: 577-578, 1985.
21. Spence MA, Heyman A, **Marazita ML**, Sparkes RS, Weinberg T. A linkage study in 18 families with Alzheimer's disease. Human Gene Mapping VIII, Helsinki, Finland, August 1985. *Cytogenetics and Cell Genetics* **40**: 752, 1985.
22. Spence MA, Sparkes RS, **Marazita ML**, Field LL. Estimating the recombination frequency for PGP-HP on chromosome 16. Human Gene Mapping VIII, Helsinki, Finland, August 1985. *Cytogenetics and Cell Genetics* **40**: 753, 1985.
23. Spence MA, Sparkes RS, **Marazita ML**, Dowton B, Li R. Linkage analysis of one family with platelet deficiency. Human Gene Mapping VIII, Helsinki, Finland, August 1985. *Cytogenetics and Cell Genetics* **40**: 753, 1985.
24. Sparkes RS, Bass HN, Spence MA, Sparkes MC, Crandall BF, Crist M, **Marazita ML**. Linkage analysis in congenital contractural arachnodactyly. Human Gene Mapping VIII, Helsinki, Finland, August 1985. *Cytogenetics and Cell Genetics* **40**: 750, 1985.
25. Sparkes RS, Heckenlively JR, Spence MA, Sparkes MC, Crist M, **Marazita ML**. Linkage analysis of dominantly inherited cone rod dystrophy. Human Gene Mapping VIII, Helsinki, Finland, August 1985. *Cytogenetics and Cell Genetics* **40**: 751, 1985.
26. Sparkes RS, Heckenlively JR, Spence MA, Sparkes MC, Crist M, **Marazita ML**. Linkage analysis in dominant optic atrophy. Human Gene Mapping VIII, Helsinki, Finland, August 1985. *Cytogenetics and Cell Genetics* **40**: 750, 1985.
27. Sparkes RS, Spence MA, Gottlieb NL, Gray RG, Crist M, Sparkes MC, **Marazita ML**. Genetic linkage analysis in the carpal tunnel syndrome. Human Gene Mapping VIII, Helsinki, Finland, August 1985. *Cytogenetics and Cell Genetics* **40**: 751, 1985.
28. Sparkes RS, Spence MA, Sparkes MC, Crist M, **Marazita ML**, Crandall BF. Linkage analysis with the P blood group. Human Gene Mapping VIII, Helsinki, Finland, August 1985. *Cytogenetics and Cell Genetics* **40**: 752, 1985.
29. Field LL, **Marazita ML**, Spence MA, Crandall BF, Sparkes RS. Is Jk linked to IGK on chromosome 2? Human Gene Mapping VIII, Helsinki, Finland, August 1985. *Cytogenetics and Cell Genetics* **40**: 628-629, 1985.
30. Spence MA, Heyman A, **Marazita ML**, Sparkes RS, Weinberg T. Genetic linkage studies in Alzheimer's disease. *Neurology* **36**: 581-584, 1986. [PMID 3960338]
31. Bateman B, Spence MA, **Marazita ML**, Sparkes RS. Genetic linkage analysis of autosomal dominant congenital cataracts. *American Journal of Ophthalmology* **101**:

- 218-225, 1986. [PMID 3456204]
32. Melnick M, **Marazita ML**, Hu DN. Genetic analysis of cleft lip with or without cleft palate in Chinese kindreds. *American Journal of Medical Genetics Supplement 2*: 183-190, 1986. [PMID 3146289]
 33. **Marazita ML**, Spence MA. Linkage analysis and multi-point mapping of 11p markers. *Genetic Epidemiology Supplement 1*: 159-164, 1986. [PMID 3471660]
 34. **Marazita ML**, Spence MA. Linkage analysis of G8 with Huntington's Disease. *Genetic Epidemiology Supplement 1*: 247-250, 1986. [PMID 2883083]
 35. **Marazita ML**, Goldstein AM, Smalley SL, Spence MA. Cleft lip with or without cleft palate: Reanalysis of a three-generation family study from England. *Genetic Epidemiology 3*: 335-342, 1986. [PMID 3781238]
 36. Spence MA, Parry DM, Bader JL, **Marazita ML**, Bocian M, Funderburk SJ, Mulvihill JJ. Genetic linkage analysis of neurofibromatosis. *Annals of the New York Academy of Sciences 486*: 287-292, 1986. [PMID 3105393]
 37. Seizinger BR, Tanzi RE, Gilliam TC, Bader JL, Parry DM, Spence MA, **Marazita ML**, Gibbons K, Hobbs W, Gusella JF. Genetic linkage analysis of neurofibromatosis with DNA markers. *Annals of the New York Academy of Sciences 486*: 310-315, 1986. [PMID 3105395]
 38. **Marazita ML**, Spence MA, Melnick M. Major gene determination of liability to cleft lip with or without cleft palate: A multi-racial view. *Journal of Craniofacial Genetics and Developmental Biology Supplement 2*: 89-97, 1986. [PMID: 3491127]
 39. Bocian M, Spence MA, **Marazita ML**, Walker AP, Weissberg D. Familial diaphragmatic defects: Early prenatal diagnosis and evidence for major gene inheritance. *American Journal of Medical Genetics Supplement 2*: 163-176, 1986. [PMID 3146286]
 40. Farrer LA, Spence MA, Bonne-Tamir B, Bowcock AM, Cavalli-Sforza LL, Cortessis V, Frydman M, Herbert J, Kidd JR, Kidd KK, **Marazita ML**, Sparkes RS. Evidence for exclusion of the Kell blood group (KEL) from more than one-half of the human genetic linkage map. Human Gene Mapping IX. *Cytogenetics and Cell Genetics 46*: 613, 1987.
 41. Goldstein AW, Haile R, **Marazita ML**, Paganini-Hill A. A genetic epidemiologic investigation of breast cancer in families with bilateral breast cancer. I. Segregation analysis. *Journal of the National Cancer Institute 78*: 911-918, 1987. [PMID 3472000]
 42. **Marazita ML**, Elston RC, Namboodiri KK, Hames CG. Genetic analysis of serum lipid levels and blood pressure in a large kindred. *American Journal of Medical Genetics 26*: 511-519, 1987. [PMID 3565465]
 43. Boustany R-M, Ethier M, Fleischnick E, Alper CA, **Marazita ML**, Spence MA, Martin JB, Kolodny LH. The autosomal dominant form of "pure" familial spastic paraplegia:

- clinical findings and linkage analysis of a large pedigree. *Neurology* **37**: 910-915, 1987. [PMID 3587641]
44. **Marazita ML**, Spence MA, Heyman A. Tests for genetic heterogeneity among 18 families with Alzheimer's disease. *Neurology* **37**: 1678-1679, 1987. [PMID 2958722]
 45. **Marazita ML**. Review of MENDEL. *Genetic Epidemiology* **5**: 477-479, 1988. [PMID 3061871]
 46. **Marazita ML**, Jaskoll T, Melnick M. Corticosteroid-induced cleft palate in short ear mice. *Journal of Craniofacial Genetics and Developmental Biology* **8**: 47-51, 1988. [PMID 3209678]
 47. Barrett DJ, Bateman JB, Sparkes RS, Spence MA, **Marazita ML**, Gorin MB, Bhat SP, Horwitz J, Straatsma BR. Genetic linkage analysis of autosomal dominant congenital cataracts with lens-specific DNA probes and polymorphic phenotypic markers. *Ophthalmology* **95**: 538-544, 1988. [PMID 3174013]
 48. Cox NJ, Hodge SE, **Marazita ML**, Spence MA, Kidd KK. Some effects of selection strategies on linkage analysis. *Genetic Epidemiology* **5**: 289-297, 1988. [PMID 3049227]
 49. Barbosa CE, **Marazita ML**, Rogers A, Faison GE, Davis SB. Virginia Cares. *Perinatal Information Consortium-III Chronicle II*: 6-7, 1989.
 50. **Marazita ML**, Nance WE, Arnos KE. Further comments on the genetics of prelingual deafness. (Letter to the Editor), *American Journal of Human Genetics* **45**: 637-638, 1989. [PMCID PMC1683511]
 51. **Marazita ML**, Keats BJB, Spence MA, Sparkes RS, Field LL, Sparkes MC, Crist M. Mapping studies of the serum cholinesterase-2 locus (CHE2). *Human Genetics* **83**: 139-144, 1989. [PMID 2777253]
 52. Shaffer LG, **Marazita ML**, Bodurtha JN, Nance WE. Evidence for a major gene in familial anencephaly. *American Journal of Medical Genetics* **36**: 97-101, 1990. [PMID 2333913]
 53. **Marazita ML**, Keats BJB, Spence MA, Sparkes RS, Field LL. Mapping studies of the serum cholinesterase-2 locus (CHE2). *Human Gene Mapping X, Cytogenetics and Cell Genetics* **51**: 1039-1040, 1990. [PMID 2777253]
 54. **Marazita ML**, Hart TC, Kelson T, Burmeister JA, Schenkein HA, Spence JE, Nance WE. Linkage analysis of juvenile periodontitis (JP) with G6PD and PI. *Human Gene Mapping X, Cytogenetics and Cell Genetics* **51**: 1039, 1990.
 55. Hart TC, **Marazita ML**, Schenkein HA, Brooks CN, Gunsolley JA, Diehl SR. No female preponderance in juvenile periodontitis after correction for clinical ascertainment

- bias. *Journal of Periodontology* **62**: 745-749, 1991. [PMID 1765937]
56. Stevens C, Arnos K, Bodurtha J, Wright L, Rawlings B, **Marazita ML**, Nance W, Diehl S. Ascertainment of families with hereditary deafness for linkage studies: Waardenburg and Usher Syndromes. *Annals of the New York Academy of Sciences* **630**: 293-294, 1991. [PMID 1952611]
 57. **Marazita ML**, Ploughman LM, Linyear A. VaCARES finds geographical variation in birth defects. *VH: Virginia's Health March/April*: page 3, 1991.
 58. Nemana LJR, **Marazita ML**, Melnick M. A genetic analysis of cleft lip with or without cleft palate in Madras, India. *American Journal of Medical Genetics* **42**: 5-10, 1992. [PMID: 1308365]
 59. Farrer LA, Grundfast KM, Amos J, Arnos KS, Asher JH, Beighton P, Diehl SR, Fex J, Foy C, Friedman TB, Greenberg J, Hoth C, **Marazita ML**, Milunsky A, Morell R, Nance WE, V Newton V, Ramesar R, San Augustin TB, Skare J, Stevens RA, Wagner RG Jr., Wilcox ER, Winship I, Read AP. Waardenburg syndrome (WS) type 1 is caused by defects at multiple loci, one of which is near ALPP on chromosome 2: First report of the WS consortium. *American Journal of Human Genetics* **50**: 902-913, 1992. [PMCID PMC1682585]
 60. **Marazita ML**, Bodurtha JN, Corey L, Rogers A, Harshbarger A, Barbosa C, Funkhouser L, Linyear A, Nance WE. Pilot projects in the development of the Virginia Congenital Anomalies Reporting and Education System (VaCARES). *Southern Medical Journal* **85**: 608-615, 1992. [PMID 1604389]
 61. Flood T, Brewster M, Harris J, Keefer S, Merz R, Howe H, Hanson J, Panny S, Schramm W, Seeland M, Olsen C, Murray A, **Marazita ML**, Lemeir M (authors alphabetical by state). Spina bifida prevalence at birth—United States, 1983-1990, *Morbidity and Mortality Weekly Report* **41**: 497-500, 1992.
 62. Hart TC, **Marazita ML**, Schenkein H. Re-interpretation of the evidence for X-linked dominant inheritance of juvenile periodontitis. *Journal of Periodontology* **63**: 169-173, 1992. [PMID 1593411]
 63. Arnos KA, Cunningham M, Israel J, **Marazita ML**. An innovative approach to genetic counseling services for the deaf population. *American Journal of Medical Genetics* **44**: 345-351, 1992. [PMID 1488983]
 64. **Marazita ML**, Liu Y-e, Spence MA, Hu DN, Melnick M. Cleft lip with or without cleft palate in Shanghai, China: Evidence for an autosomal major locus. *American Journal of Human Genetics* **51**: 648-653, 1992. [PMID: 1307687; PMCID PMC1682698]
 65. **Marazita ML**. Jumbled Genes (Letter to the Editor). *Scientific American* **267**: 10, 1992. [PMID 1411458]
 66. **Marazita ML**, Ploughman LM, Arnos KS, Rawlings B, Remington E, Nance WE.

Genetic epidemiological studies of early-onset deafness in the U.S. school-age population. *American Journal of Medical Genetics* **46**: 486-491, 1993. [PMID 8322805]

67. Hart TC, **Marazita ML**, McKanna KM, Schenkein HA, Diehl SR. Reevaluation of the chromosome 4q candidate region for early onset periodontitis. *Human Genetics* **91**: 416-422, 1993. [PMID 8100208]
68. Ray AK, Field LL, **Marazita ML**. Nonsyndromic cleft lip with or without cleft palate in West Bengal, India: evidence of an autosomal major locus. *American Journal of Human Genetics* **52**: 1006-1011, 1993. [PMID: 8488830; PMCID PMC1682042]
69. Miller LL, Ploughman LM, **Marazita ML**. Heterogeneity testing for Alzheimer's disease both within and between data sets. *Genetic Epidemiology* **10**: 443-447, 1993. [PMID 8314041]
70. Weese-Mayer DE, Silvestri JM, **Marazita ML**, Hoo JJ. Congenital central hypoventilation syndrome: Inheritance and relation to SIDS. *American Journal of Medical Genetics* **47**: 360-367, 1993. [PMID 8135282]
71. Weissbecker KA, Wolf B, Eaves LJ, **Marazita ML**, Nance WE. Combined pedigree and twin family study to determine the sources of variation in serum biotinidase activity: the usefulness of multiple study designs. *American Journal of Medical Genetics* **47**: 231-240, 1993. [PMID 8213911]
72. **Marazita ML**, Spence MA, Melnick M. Reply to Hook. (Letter to the Editor), *American Journal of Human Genetics* **52**: 1270-71, 1993. [PMCID PMC1682260]
73. Shaw D, Ray A, **Marazita ML**, Field LL. Further evidence of a relationship between the retinoic acid receptor alpha locus and nonsyndromic cleft lip with or without cleft palate (CL+P) (Letter to the Editor), *American Journal of Human Genetics* **53**: 1156-1157, 1993. [PMCID PMC1682320]
74. **Marazita ML**, Burmeister JA, Gunsolley JC, Koertge TE, Lake K, Schenkein H. Evidence for autosomal dominant inheritance and race-specific heterogeneity in early-onset periodontitis. *Journal of Periodontology* **65**: 623-630, 1994. [PMID 8083796]
75. Field LL, Ray AK, **Marazita ML**. Transforming growth factor alpha (TGFA): a modifying locus for nonsyndromic cleft lip with or without cleft palate? *European Journal of Human Genetics* **2**: 159-165, 1994. [PMID 7834275]
76. Reynolds JE, Arnos KS, Landa BL, Stevens CA, Salbert BA, Wright L, Duke B, Hunt W, **Marazita ML**, Ploughman L, MacLean C, Nance WE, Diehl SR. Analysis of locus heterogeneity in Waardenburg syndrome types 1 and 2 using highly informative microsatellite markers. *Human Heredity* **45**: 243-252, 1995. [PMID 7590754]
77. Reynolds JE, Meyer JM, Landa B, Stevens CA, Arnos KS, Israel J, **Marazita ML**, Bodurtha J, Nance WE, Diehl SR. Analysis of variability of clinical manifestations in

Waardenburg syndrome. *American Journal of Medical Genetics* **57**: 540-547, 1995. [PMID 7573125]

78. Hoffman EP, **Marazita ML**. Book Review: “*The Calculation of Genetic Risks: Worked Examples in DNA Diagnostics.*” *American Journal of Human Genetics* **56**: 350-351, 1995. [PMCID PMC1801319]
79. **Marazita ML**. Letter to the editor: Defining proband. *American Journal of Human Genetics* **57**: 981-982, 1995. [PMCID PMC1801480]
80. **Marazita ML**. Letter to the editor: AJHG proband definition. *Growth Genetics and Hormones* **11**: 1, 1995.
81. Yuan H, **Marazita ML**, Hill SY. Segregation analysis of alcoholism in high density families: a replication. *American Journal of Medical Genetics (Neuropsychiatric Genetics)* **67**: 71-76, 1996. [PMID 8678118]
82. Reynolds JE, **Marazita ML**, Meyer JM, Stevens CA, Eaves LJ, Arnos KS, Ploughman LM, MacLean C, Nance WE, Diehl SR. Major locus contributions to variability of the craniofacial feature dystopia canthorum in Waardenburg syndrome. *American Journal of Human Genetics* **58**: 384-392, 1996. [PMCID PMC1914540]
83. **Marazita ML**, Lu H, Cooper ME, Quinn SM, Zhang J-b, Burmeister JA, Califano JV, Pandey JP, Schenkein HA, Tew JG. Genetic segregation analyses of serum IgG2 levels. *American Journal of Human Genetics* **58**: 1042-1049, 1996. [PMCID PMC1914630]
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115. Cooper ME, Sank JR, **Marazita ML**. Birth prevalence of cleft lip with or cleft palate in Asian populations: A meta-analysis. *Poster*: 54th annual meeting of the American Society of Human Genetics, Toronto, Ontario, October 26-30, 2004.
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 128. Mishima H, Moreno LM, Maher BS, Cooper ME, Goldstein T, Mach A, Valencia C, Hing A, Lammer E, Jones M, Robin N, Busch T, Arcos-Burgos M, **Marazita ML**, Lidral AC. Fine mapping of two genetic loci for nonsyndromic cleft lip. Sarnat Award Finalist. *Poster*: 83rd Annual Meeting of the International Association for Dental Research/34th Annual meeting of the American Association of Dental Research, Baltimore, MD, March 9-12, 2005.
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 132. Todd ES, Weinberg SM, Silvestri JM, Kenny AS, Berry-Kravis EM, Zhou L, Maher BS, **Marazita ML**, Weese-Mayer DE. Facial Phenotype in Children with Congenital Central Hypoventilation Syndrome (CCHS): Pattern of Dysmorphology and *PHOX2b*-Genotype/Phenotype Correlation. *Poster*: 2005 annual meeting of the Pediatric Academic

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138. Mishima H, Moreno LM, Busch T, Arcos-Burgos M, Valencia C, Hing A, Lammer E, Jones M, Robin N, Mahaer BS, Cooepr ME, Goldstein T, Mach A, **Marazita ML**, Lidral AC. Candidate Genes in Cleft Lip Loci at 1p22-p33, 3q26-q28, 15q12-q14 and 17q12-31. *Poster*: 55th annual meeting of the American Society of Human Genetics, Salt Lake City, Utah, October 25-29, 2005.
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 147. Lepp N, Caprau D, Johnson K, **Marazita ML**, Dagle J, Murray J. Single nucleotide polymorphisms in smooth muscle regulation genes as risk factors for spontaneous preterm delivery. Society for Pediatric Research, *Pediatric Research* **58**: 818, 2005.
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155. Noorchashm N, Deleyiannis F, Weinberg S, Neiswanger K, Brandon C, Scott N, Bardi K, Cooper ME, Vieira A, Murray JC, **Marazita ML**. A study of candidate markers for oral-facial clefts in Guatemalan families. *Presented: 63rd annual meeting of the American Cleft Palate-Craniofacial Association, Vancouver, British Columbia, April 3-8, 2006.*
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161. Todd ES, Scott NM, Weese-Mayer DE, Weinberg SM, Berry-Kravis EM, Silvestri JM, Kenny AS, Hauptman SA, Zhou L, **Marazita ML**. Characterization of dermatoglyphics in *PHOX2B*-confirmed Congenital Central Hypoventilation Syndrome (CCHS). *Poster: 2006 Pediatric Academic Societies Meeting, San Francisco, CA, April 29-May 2, 2006.*
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 167. Weyant RJ, Polk D, McNeil DN, Crout R, **Marazita ML**. Familial transmission of gingival bleeding risk. *Poster*: Gordon Research Conference on Periodontal Disease, Il Ciocco, Barga, Italy, June 4-9, 2006.
 168. Bardi KM, Cooper ME, Polk DE, Brandon CA, **Marazita ML**. Investigation of Subjective Social Status in CL/P Case versus Control. *Poster*: 56th annual meeting of the American Society of Human Genetics, New Orleans, Louisiana, October 9-13, 2006.
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 170. Chirigos KW, Neiswanger K, Bardi KM, Brandon CA Cooper ME, **Marazita ML**. Families with nonsyndromic cleft lip with or without cleft palate (CL/P) have an increased frequency of lip print whorl patterns associated with IRF6. *Poster*: 56th annual meeting of the American Society of Human Genetics, New Orleans, Louisiana, October 9-13, 2006.
 171. Deeley K, Rose EK, Brandon CA, Resick JM, Wendell S, **Marazita ML**, Vieira AR. Ameloblastin (AMBN) is Associated with Low Caries Experience. *Poster*: 56th annual meeting of the American Society of Human Genetics, New Orleans, Louisiana, October 9-13, 2006.
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 173. Letra A, Menezes R, Granjeiro MJ, Cooper ME, **Marazita ML**, Vieira AR. Defining Subphenotypes for Orofacial Clefts Based on Dental Development. *Poster*: 56th annual meeting of the American Society of Human Genetics, New Orleans, Louisiana, October 9-13, 2006.
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178. Vieira AR, Gamboa G, Orbiso M, McHenry TH, Cooper ME, Daack-Hirsch S, **Marazita ML**, Murray JC. Dental Anomalies as an Extended Phenotype of Orofacial Clefts: Genome Wide Reanalysis of 12 Multiplex Filipino Families. *Poster*: 56th annual meeting of the American Society of Human Genetics, New Orleans, Louisiana, October 9-13, 2006.
179. Weinberg SM, Maher BS, Mooney MP, Neiswanger K, Richtsmeier JT, Siegel MI, **Marazita ML**. 3D Morphometric Analysis of the Craniofacial Complex in First Degree Relatives of Individuals with Orofacial Clefts. *Poster*: 56th annual meeting of the American Society of Human Genetics, New Orleans, Louisiana, October 9-13, 2006.
180. Lourenco-Silva A, Ribeiro LA, Cooper ME, **Marazita ML**, Moretti-Ferreira D, Murray JC. Analysis of candidate genes for nonsyndromic cleft lip and/or palate in Brazilian trios with both a parent and offspring affected. *Poster*: 56th annual meeting of the American Society of Human Genetics, New Orleans, Louisiana, October 9-13, 2006.
181. Mansilla MA, Moreno LM, Johnson M, Bullard SA, Jugessur A, Lie RT, Wilcox A, Christensen K, McHenry TH, Maher BS, Cooper ME, Chines P, Lidral AC, **Marazita ML**, J. C. Murray. Variants in FOXE1 are Highly Associated with Nonsyndromic Cleft Lip with or without Cleft Palate. *Poster*: 56th annual meeting of the American Society of Human Genetics, New Orleans, Louisiana, October 9-13, 2006.
182. Mishima H, Bullard SA, Moreno LM, Busch T, Arcos-Burgos M, Valencia C, Hing A, Lammer EJ, Jones M, Robin N, Maher BS, Cooper ME, McHenry T, **Marazita ML**, Lidral AC. The role of Wnt9b during primary palatogenesis. *Poster*: 56th annual meeting of the American Society of Human Genetics, New Orleans, Louisiana, October 9-13, 2006.
183. Moreno LM, Bullard SA, Martin J, Mansilla MA, Johnson M, Arcos-Burgos M, Mishima H, Maher BS, McHenry TH, Cooper ME, Valencia-Ramirez C, Hing A, Lammer EJ, Jones M, Jugessur A, Robin NH, Chines P, Murray JC, **Marazita ML**, Lidral AC. Evidence for FOXE1 having an etiologic role in nonsyndromic cleft lip with or without cleft palate (CL/P). *Poster*: 56th annual meeting of the American Society of Human

Genetics, New Orleans, Louisiana, October 9-13, 2006.

184. Riley BM, Mansilla MA, Raffensperger L, Maher B, **Marazita ML**, Mohammadi M, Murray JC. Mutations in FGF Signaling Pathway Genes Contribute to Cleft Lip and Palate. *Presented*: 56th annual meeting of the American Society of Human Genetics, New Orleans, Louisiana, October 9-13, 2006.
185. Selby EM, McNeil DW, McCoy ME, **Marazita ML**. Fears of negative evaluation and other social anxieties associated with oral-facial clefts. *Poster*: 40th annual convention, Association for Behavioral and Cognitive Therapies, Chicago, Illinois, November 16-19, 2006.
186. Rogers CR, Cooper ME, Weinberg SM, Brandon CA, Bardi KM, Neiswanger K, Mooney MP, Resick JM, Deleyiannis FWB, **Marazita ML**. Orbicularis oris muscle discontinuities as an expanded phenotypic feature in orofacial cleft families. *Presented* (Resident award competition): Northeastern Society of Plastic Surgery meeting, Nov. 30-Dec. 2, 2006.
187. Thomas JG, Gray DM, Crout R, McNeil DM, Weyant RJ, **Marazita ML**. Unmasking *Candida albicans* as an Emerging Oral Microbial Signature. *Poster*: 85th General Session of IADR/AADR/CADR in New Orleans, LA, March 21-24, 2007. *Journal of Dental Research* **86** (Spec Issue A): 2213, 2007 (www.dentalresearch.org).
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190. Burrows AM, Rogers CR, Mooney MP, Weinberg SM, Waller BM, Parr LA, Bonar CJ, Deleyiannis FWB, Siegel MI, **Marazita ML**. Comparative micro-anatomy of the orbicularis oris muscle in chimpanzees and humans: implications for the evolution of human speech. *American Journal of Physical Anthropology* **44**: 82, 2007.
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192. **Marazita ML**, Vieira AR, Weinberg S, Mooney MP, Nopoulos P, Jones M, Murray JC. Expanded phenotypic features in nonsyndromic orofacial clefts: Panel discussion on clinical implications. *Panel discussion*: 64th Annual Meeting of the American Cleft Palate-Craniofacial Association, Broomfield, CO, April 23-28, 2007.
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 313. Middlebrooks C, Olive R T, Tinker S, Allen EG, Bean L, Chowdhury R, Begum F., **Marazita ML**, Cheung V, Feingold E, Sherman SL. Aberrant Recombination in Trisomy 21 Nondisjunction is Associated with Differential Hot-Spot Usage. *Poster presentation* (Abstract #679 www.icgh 2011.org), 12th International Conference of Human Genetics and 61st Annual Meeting of the American Society of Human Genetics, October 11-15, 2011, Montreal, Quebec, Canada.
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 315. Geller F, Feenstra B, Zhang H, Shaffer JR, Hansen T, Boyd HA, Weyant RJ, Levy SM, Murray JC, Werge T, **Marazita ML**, Sørensen TIA, Melbye M. Genome-Wide Association Study Identifies Four Loci associated with Eruption of Permanent Teeth. *Poster presentation* (Abstract #699; www.icgh 2011.org), 12th International Conference of Human Genetics and 61st Annual Meeting of the American Society of Human Genetics, October 11-15, 2011, Montreal, Quebec, Canada.
 316. **Marazita ML**, Cooper ME, Govil M, DeSensi RS, McHenry T, Weinberg S, Murray JC, Neiswanger K, Brandon C, Czeizel AE, Vieira AR, Castilla EE, Poletta F, Resick JM,

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317. Letra A, Bjork B, Copper M, Szabo-Rogers H, Brandon C, Resick J, Bardi K, Deleyiannis FWB, Field LL, Czeiczel AE, Ma L, Garlet GP, Poletta FA, Mereb JC, Jopez-Camelo JS, Castilla EC, Orioli IM, Wendell SK, Liu KL, **Marazita ML**, Vieira AR, Menezes R. Statistical and biological evidence for AXIN2/IRF6 interaction in oral facial clefting. *Poster presentation* (Abstract #988; www.icgh 2011.org), 12th International Conference of Human Genetics and 61st Annual Meeting of the American Society of Human Genetics, October 11-15, 2011, Montreal, Quebec, Canada.
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 323. Bailey-Wilson JE, Parker MM, Szymczak S, Li Q, Cropp C, Noethen M, Hetmanski JB, Ling H, Pugh EW, Duggal P, Taub MA, Ruczinski I, Scott AF, **Marazita ML**, Murray JC, Mangold E, Beaty TH. Using whole exome sequencing to identify rare causal variants for oral clefts in multiplex families. *Submitted*: 21st Annual Meeting of the International Genetic Epidemiology Society, Stevenson, WA, USA, October 18-20, 2012
 324. Beaty TH, Ruczinski I, Scott AF, Parker MM, Bailey-Wilson JE, **Marazita ML**, Murray JC, Mangold E, Noethen M, Hetmanski JB, Ling H, Pugh EW, Duggal P, Taub MA, Szymczak S, Li Q, Cropp. Using whole exome sequencing to identify rare causal variants for oral clefts in multiplex families. *Submitted*: 62nd Annual Meeting of the American Society of Human Genetics, San Francisco, CA, USA, November 6-10, 2012

325. Govil M, Mukhopadhyay N, Silva RM, Vieira AR, Weinberg SM, Neiswanger K, **Marazita ML**. Concurrent Modeling of Multiple Phenotypes and Genotypes in Family Data: Implications for Cleft Gene Discovery. *Poster*. 62nd Annual Meeting of the American Society of Human Genetics, San Francisco, CA, USA, November 6-10, 2012
326. Cuenco K, Lee MK, Zeng Z, Shaffer JR, Wang X, Feingold E, Weeks DE, Weyant R, Crout R, McNeil DW, **Marazita ML**. Overlapping G x G interactions associated with caries in permanent and primary dentition. *Poster*. 62nd Annual Meeting of the American Society of Human Genetics, San Francisco, CA, USA, November 6-10, 2012
327. Feenstra B, Kemp J, Lawlor D, Lawlor D, Freathy R, Cavadino A, Huikari V, Kaakinen M, Mcelroy JJ, Muglia L, Jacobsson B, Myhre R, Myking S, Boyd H, Eleanor F, Shaffer J, Murray, J, Melbye M. Genome-Wide Association Study of Preterm Delivery in Mothers. *Poster*. 62nd Annual Meeting of the American Society of Human Genetics, San Francisco, CA, USA, November 6-10, 2012
328. Harris CC, Leslie EJ, RS Fulton, TL Miner, Appelbaum EL, Fronick CC, Mead M, Larson DE, Mansilla MA, Lidral AC, Wehby GL, Hecht JT, **Marazita ML**, Scott AF, Beaty TH, Murray JC, Wilson RK, Weinstock GW. Deep Sequencing of Genomic Regions Associated with Cleft Lip Susceptibility. *Poster*. Annual Meeting of the American Society of Human Genetics, San Francisco, CA, USA, November 6-10, 2012
329. Miller SF, Nidey N, Weinberg S, **Marazita ML**, Murray JC, Wehby G, Moreno LM, Genotype-phenotype correlations of facial shape and asymmetry in unaffected relatives of children with non-syndromic cleft lip/palate and controls. *Poster*. 62nd Annual Meeting of the American Society of Human Genetics, San Francisco, CA, USA, November 6-10, 2012
330. Lee M, Cuenco KT, Zheng Z, Wang X, Shaffer J R, Feingold E, Weeks DE Weyant RJ, Crout RJ, McNeil DW, **Marazita ML**. Identification of gene-gene interaction in saliva flow and Streptococcus mutans using MDR. *Poster*.: 62nd Annual Meeting of the American Society of Human Genetics, San Francisco, CA, USA, November 6-10, 2012
331. Lewis D, Feingold E, Zeng Z, Shaffer JR, Wang X, **Marazita ML**. The effect of race, sex, age, socioeconomic, behavioral factors, and genetics on dental caries in different tooth surfaces. *Poster*. 62nd Annual Meeting of the American Society of Human Genetics, San Francisco, CA, USA, November 6-10, 2012
332. Mukhopadhyay N, Govil M, Zeng Z, Feingold E, Weeks DE, Shaffer JR, Wang X, Weyant RJ, Crout R, McNeill DW, **Marazita ML**. Whole Genome Linkage Analysis to Identify Genes for Childhood Dental Caries. *Poster*. 62nd Annual Meeting of the American Society of Human Genetics, San Francisco, CA, USA, November 6-10, 2012
333. Shaffer JR, Feingold E, Wang X, Lee M, 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. *Poster*. 62nd Annual Meeting of the American Society of Human Genetics, San Francisco, CA, USA, November 6-10, 2012
334. Ruczinski I, Beaty T; Younkin S; Scharpf R, Schwender S, **Marazita ML**, Scott A. Fast detection of de-novo copy number variants from case-parent SNP arrays identifies a deletion on chromosome 7p14.1 associated with non-syndromic isolated cleft lip/palate,

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335. Wang X Zeng A, Shaffer JR, Fenigold E, Weeks DW, Lee M, T.Cuenco K, Wendell SK, Weyant RJ, Crout R, McNeil DW, **Marazita ML**. OFCD syndrome gene *BCOR* is associated with dental caries, *Poster Presentation*. 62nd Annual Meeting of the American Society of Human Genetics, San Francisco, CA, USA, November 6-10, 2012
 336. Silva RM, Cooper ME, Letra A, Czeizel E, Deleyiannis F, Lian Ma, Eduardo Castilla, Fernando Poletta, Field LL, **Marazita ML**. Association analysis of chromosome 3q markers in nonsyndromic cleft lip/palate. *Poster Presentation*. 62nd Annual Meeting of the American Society of Human Genetics, San Francisco, CA, USA, November 6-10, 2012
 337. Srinivasan U, Wen A, Marrs C, Zhang L, Weyant B, McNeil D, **Marazita ML**, Crout R, Foxman B. Exploring the Effect Of Dentition, Dental Decay and Familiality On Oral Health Using Metabolomics. *Poster Presentation*. 11th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases, New Orleans, LA, USA, October 30 – November 2, 2012
 338. Govil M, Mukhopadhyay N, Pancoska P, Neiswanger N, Weinberg SM, Vieira AR, **Marazita ML**. Craniofacial Trait Elucidation: Integrating Multi-Phenotypes in Family-Based Genetic Association Analyses. *Oral Platform presentation: IADR/AADR/CADR General Session & Exhibition*, March 20 – 23, 2013, Seattle, Washington, USA.
 339. Mukhopadhyay N, Govil M, Zeng Z, Feingold E, Weeks DE, Shaffer JR, Wang X, Weyant RJ, Crout Sr. RJ, McNeil DW, **Marazita ML**. Genome-Wide Linkage Analysis to Identify Risk Genes for Dental Caries. *Oral Platform presentation: IADR/AADR/CADR General Session & Exhibition*, March 20 – 23, 2013, Seattle, Washington, USA. [Oral Presentation]
 340. Pancoska P, Mukhopadhyay N, **Marazita ML**, McHenry TH, Resick JM, Sanchez CA, DeSensi RS, Weinberg SM, Neiswanger K, Govil M. NPS: Characterizing Oro-Facial Cleft Heterogeneity through Personalized Phenotype Networks. *Poster: IADR/AADR/CADR General Session & Exhibition*, March 20 – 23, 2013, Seattle, Washington, USA. *Poster Presentation*
 341. Govil M, Mukhopadhyay N, Pancoska P, Silva RM, Vieira AR, Weinberg SM, Neiswanger K, **Marazita ML**. *Oral Platform presentation: Concurrently modeling multiple phenotypes and genotypes in family data: implications for oral facial cleft gene discovery*. 12th International Congress on Cleft Lip/Palate and Related Craniofacial Anomalies, May 5 - 10, 2013, Orlando, Florida.
 342. May MA, Brandon C, Valdez S, Deleyiannis F, **Marazita ML**, Weinberg S. Evidence of olfactory deficits in individuals with nonsyndromic orofacial clefts and their first-degree relatives. *Oral Platform presentation: 12TH International Congress on Cleft Lip/Palate and Related Craniofacial Anomalies*, Lake Buena Vista, FL, USA, May 5-10, 2013
 343. Weinberg SW, **Marazita ML**, Raffensperger ZD, Gandhi P, Cunningham ML, Heike CL, Kau Chung H, Hecht JT, Murray JC, Nidey NL. The 3D Facial Norms Project: A

- craniofacial anthropometric repository for research and clinicians. *Oral Platform presentation: 12TH International Congress on Cleft Lip/Palate and Related Craniofacial Anomalies, Lake Buena Vista, FL, USA, May 5-10, 2013*
344. Nidey N, Rigdon J, Sanchez P, **Marazita ML**, Murray JC. FaceBase Biorepository *Oral Platform presentation: 12TH International Congress on Cleft Lip/Palate and Related Craniofacial Anomalies, Lake Buena Vista, FL, USA, May 5-10, 2013*
 345. Aspinall A, Raj S, Savarirayan R, Jugessur A, **Marazita ML**, Kilpatrick N. Expandig the cleft phenotype: Dental characteristics of unaffected parents of children with cleft lip and palate. *Oral Platform presentation: 12TH International Congress on Cleft Lip/Palate and Related Craniofacial Anomalies, Lake Buena Vista, FL, USA, May 5-10, 2013*
 346. Kilpatrick N, Reid J, Vallino Napoli L, Raj S, **Marazita ML**, Jugessur A, Savarirayan R. Expanding the cleft phenotype: Speech characteristics of parents of Australian children with cleft lip and palate. *Oral Platform presentation: 12TH International Congress on Cleft Lip/Palate and Related Craniofacial Anomalies, Lake Buena Vista, FL, USA, May 5-10, 2013*
 347. Vieira AR, Silva RM, Poletta FA, Mereb JC, Castilla EE, Ieda M, Orioli, **Marazita ML**. Expression of *IRF6* in Whole Saliva of Adults as a Predictor of Oral Clefts Risk. *Oral Platform presentation: 12TH International Congress on Cleft Lip/Palate and Related Craniofacial Anomalies, Lake Buena Vista, FL, USA, May 5-10, 2013*
 348. **Marazita ML**, Cooper M, Ford M, Cohn E, Weinberg S, Czeizel E, Hecht J, Deleyiannis FWB. *Oral Platform presentation: Velopharyngeal insufficiency (VPI) in Families of Individuals With Cleft Lip With or Without Cleft Palate (CL/P). 12TH International Congress on Cleft Lip/Palate and Related Craniofacial Anomalies, Lake Buena Vista, FL, USA, May 5-10, 2013*
 349. Mansilla MA, Suzuki S, Smith B, Henkel L, Petrin A, Cooper ME, **Marazita ML** and Murray JC. Additional genetic evidence confirms *MAFB* as a candidate gene for clefting in Asian populations. *Oral Platform presentation: 12TH International Congress on Cleft Lip/Palate and Related Craniofacial Anomalies, Lake Buena Vista, FL, USA, May 5-10, 2013*
 350. Bailey-Wilson JE, Parker MM, Szymczak S, Li Q, Cropp CD, Nöthen MM, Hetmanski JB, Ling H, Pugh EW, Duggal P, Taub MA, Ruczinski I, Scott AF, **Marazita ML**, Albacha-Hejazi H, Mangold E, Beaty TH. Analyses of WES Data In Multiplex Syrian Non -Syndromic Oral Cleft Families: *Poster Presentation. International Genetic Epidemiology Society 22nd Annual Conference in Chcago, IL September 15-17, 2013*
 351. T.Cuenco K, Lee M, Zheng X, Feingold E, Weeks DE, Weyant RJ, Crout RJ, McNeil CW, **Marazita ML**. Genome-wide CNV association study of primary caries. *Poster Presentation. 63rd American Society of Human Genetics Annual Meeting in Boston, MA October 22-26, 2013.*
 352. Lee M, T.Cuenco K, Zheng X, Feingold E, Weeks DE, Weyant RJ, Crout RJ, McNeil DW, **Marazita ML**. Identification of CNVs association in saliva flow using PennCNV. *Poster Presentation. 63rd American Society of Human Genetics Annual Meeting in Boston, MA October 22-26, 2013.*

353. Bailey-Wilson JE, Parker MM, Szymczak S, Li Q, Cropp CD, Nöthen MM, Hetmanski JB, Ling H, Pugh EW, Duggal P, Taub MA, Ruczinski I, Scott AF, **Marazita ML**, Albacha-Hejazi H, Mangold E, Beaty TH. Analyses of WWS Data In Multiplex Syrian Oral Cleft Families. *Poster Presentation*. 63rd American Society of Human Genetics Annual Meeting in Boston, MA October 22-26, 2013.
354. Lewis D, Shaffer J, Feingold E, Cooper C, Weyant R, McNeil D, Crout R, Reis S, Vieira A, Vanyukov M, **Marazita ML**. Replication of GWAS results for dental caries in the permanent dentition *Poster Presentation*. 63rd American Society of Human Genetics Annual Meeting in Boston, MA October 22-26, 2013.
355. Ruczinski I, Bureau A, Parker MM, Taub MA, **Marazita ML**, Murray JC, Bailey-Wilson JE, Cropp CD, Mangold E, Noethen M, Hetmanski JB, Balakrishnan P, Wang H, Ling H, Scott AF, Beaty TH. Evidence for causality of rare variants based on exact sharing probabilities in affected relatives. *Oral Platform Presentation*. 63rd American Society of Human Genetics Annual Meeting in Boston, MA October 22-26, 2013.
356. Lidral AC, Bullard SA, Cornell RA, Bonde G, Visel A, Moreno LM, Machida J, Amendt B, **Marazita ML**. Identification of Human Craniofacial, Thyroid and Heart Enhancers at the FOXE1 Locus. *Oral Platform Presentation*. 63rd American Society of Human Genetics Annual Meeting in Boston, MA October 22-26, 2013.
357. Wang Q, Jia P, T.Cuenca K, Zeng Z, Feingold E, **Marazita ML**, Wang L, Zhao Z. Explore genetic components underlying dental caries through geneset- and network-assisted approaches. *Oral Poster Presentation*. 63rd American Society of Human Genetics Annual Meeting in Boston, MA October 22-26, 2013.
358. Leslie EJ, Steinberg KM, Koboldt DC, Harris C, Larson DE, Fulton RS, Wehby GL, Hecht JT, Beaty TH, Scott A, **Marazita ML**, Weinstock GW, Murray JC. Identification of de novo variants contributing to nonsyndromic cleft lip and palate. *Poster Presentation*. 63rd American Society of Human Genetics Annual Meeting in Boston, MA October 22-26, 2013.
359. Shaffer JR, Weyant RJ, Crout R, McNeil DW, **Marazita ML**. Unexpected pleiotropy: Do asthma and dental caries share a genetic basis? *Poster Presentation*. 63rd American Society of Human Genetics Annual Meeting in Boston, MA October 22-26, 2013.
360. **Marazita ML**, Hochheiser H, Murray, JC. The FaceBase Hub: A resource for translational craniofacial genetics. *Poster Presentation*. 36th Society of Craniofacial Genetics and Developmental Biology in Boston MA October 22, 2013.
361. Nidey N, Wehby G, **Marazita ML**. Parental Diagnosis of Oral Clefts, Early Life Healthcare Experiences, and Maternal Wellbeing. *Oral Platform Presentation*. American Cleft Palate Craniofacial Association Convention in Indianapolis, In March 30 – April 2, 2014
362. Hopkins M, Miller SF, Resick JM, Nidey N, Wehby G, **Marazita ML**. Microesthetic Dental Analysis in Parents of Children with Oral Clefts. American Cleft Palate Craniofacial Association Convention in Indianapolis, In March 30 – April 2, 2014.
363. Howe B, Moreno L, Cooper ME, Resick JM, Vieira AR, Nidey N, Wehby G, **Marazita ML**. Spectrum of Dental Phenotypes in Orofacial Clefting. American Cleft Palate

Craniofacial Association Convention in Indianapolis, In March 30 – April 2, 2014.

364. Hamilton CM, Pan H, Brown D, Eubanks E, Hendershot T, Huggins W, Levy J, Nettles D, Maiese D, Pratt J, McCarty CA, **Marazita ML** Ramos EM. The PhenX Toolkit: Phenotype and Exposure Measures for Collaborative Research. The Human Variome Project Consortium in Paris, France, In May 19 - 23, 2014.
365. Butali A, Mossey PA, Adeyemo WL, Mekonen EA, Gaines L, Busch T, Braimah RO, Aregbesola SB, Rigdon J, Emeka C, James O, Ogunlewe O, Ladeinde AL, Abate F, Hailu T, Ibrahim M, Gravem P, Deribew M, Gesses M, Adeyemo A, **Marazita ML**, Murray JC. Candidate Genes for Non-syndromic Orofacial Clefts Identified by GWAS Were Assessed in Two African Populations. *Poster*. 64th Annual meeting of the American Society of Human Genetics; October 18-22, 2014; San Diego, CA, USA.
366. Leslie EJ, Taub MA, Zhang Q, Meltz Steinberg K, Koboldt DC, Kousa Y, Larson DE, Bidinger J, Wang H, Fulton RS, Cornell RA, Schutte BC, Fakhouri WD, Wehby GL, Moreno LM, Ruczinski I, Hecht JT, Scott A, Christensen K, Lidral AC, Beatty TH, Weinstock GW, Murray JC, **Marazita ML**. Targeted sequencing of GWAS loci: insight into genetic etiology of cleft lip and palate. *Poster*. 64th Annual meeting of the American Society of Human Genetics; October 18-22, 2014; San Diego, CA, USA.
367. Colavincenzo J, Shaffer JR, Feingold E, Sanchez C, McHenry T, Deleyiannis FWB, McNeil DW, Crout R, Weyant RJ, **Marazita ML**. Genome-wide association studies for dental caries in African American and Latino populations: Novel genes, heterogeneity, and replication. *Poster*. 64th Annual meeting of the American Society of Human Genetics; October 18-22, 2014; San Diego, CA, USA.
368. Lewis D, Shaffer JR, Feingold E, Cooper M, Vanyukov M, Maher B, Reis S, McNeil W, Crout R, Weyant R, Levy S, Vieira A, **Marazita ML**. The role of selected ion channel genes in dental caries. *Poster*. 64th Annual meeting of the American Society of Human Genetics; October 18-22, 2014; San Diego, CA, USA.
369. Holzinger ER, Li Q, Parker M, Hetmanski JB, **Marazita ML**, Mangold E, Nothen MM, Murray JC, Scott A, Beatty TH, Bailey-Wilson JE. Exome sequencing of multiplex oral clefts families detects recurrent shared rare variants in 9 genes. *Poster*. 64th Annual meeting of the American Society of Human Genetics; October 18-22, 2014; San Diego, CA, USA.
370. Wolf Z, Arzi B, Leslie E, Shaffer J, Brand H, Willet C, Karmi N, McHenry T, Feingold E, Wang X, Murray J, **Marazita ML**, Wade C, Bannasch D. Parallel Studies in Humans and Dogs Implicate ADAMTS20 in Cleft Lip and Palate Formation. *Platform presentation*. 64th Annual meeting of the American Society of Human Genetics; October 18-22, 2014; San Diego, CA, USA.
371. Huggins W, Pan H, Nettles DS, Bullard EB, Hendershot T, Pratt JG, Maiese DR, Brown DC, Phillips M, Brandon TH, Tiffany ST, Brown GK, Byers PH, **Marazita ML**, McCarty CA, Conway KP, Farber GK, Wanke KL, Ramos EM, Hamilton CM. The PhenX Toolkit: A Genomic Resource for Standard Measures of Phenotypes and Exposures. *Poster*. 64th Annual meeting of the American Society of Human Genetics; October 18-22, 2014; San Diego, CA, USA.

372. Buxó-Martínez CJ, Debs N, Salcedo MI, Lopez-Del Valle LM, Soto M, **Marazita ML**, Murray J. IRF6 Missense Mutations and Oral Clefts in Puerto Rican Hispanics. Oral Presentation. 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14
373. Hong J, Raffensberger Z, **Marazita ML**, Weinberg SM, Moreno Uribe LM, Hecht JT, Deleyiannis FW, Christensen K. Nasal Asymmetry in the Unaffected Parents of Children with Orofacial Clefts: A Possible Phenotypic Risk. *Poster*. 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14
374. McNeil DW, Arias MC, Randall CL, Crout RJ, Weyant R, **Marazita ML**, Zoellner J, Porter K. Sugar-Sweetened Beverage Use and Caries among Adolescents in Northern Appalachia. *Oral presentation*. 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14
375. Raffensberger Z, Sandoval RS, **Marazita ML**, Weinberg SE, Heike CL, Hecht HT, Kau C, Moreno LM. Craniofacial anthropometric norms: a comparison of two datasets. *Oral Presentation*. 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14
376. Crout RJ, Beach J, Casto G, McNeil DW, Chapman S, Weyant R, **Marazita ML**, Oral health disparity research in Appalachia: West Virginia recruitment strategies. *Poster*. 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14
377. Leslie EJ, **Marazita ML**, Taub MA, Lin H, Lidral AL, Steinberg KM, Koboldt DC, Larson DE, Fulton RS, Weinstock G, Zhang Q, Beaty T, Kousa A, Fakhouri WD, Murray J, Cornell R. Functional variants in/near PAX7, FGFR2, and NOG in orofacial clefting. *Oral presentation*. 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14
378. Miller SF, Moreno LM, Hartsfield JK, Shaffer J, **Marazita ML**, Levy J, Warren J. Exploratory Genome-Wide Association Study of Dental Arch Shape. *Poster*. 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14
379. Randall CL, McNeil DW, Crout RJ, Shaffer J, Weyant R, **Marazita ML**. Dental Fear and MC1R Genotype: Fear of Pain as Mediator. *Poster*. 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14
380. Duverger O, Ohara T, Morasso M, Shaffer JR, Beniash E, **Marazita ML**, Donahue D, Zervas P, Dullnig A, Crecelius C. Hair keratins as structural organic components of mature enamel: the link between hair disorders and susceptibility to dental caries. *Oral presentation*. 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14
381. Lewis D, Shaffer J, Feingold E, Vanyukov M, **Marazita ML**, McNeil DW, Crout RJ,

- Reis SE, Levy S, Vanyukov M, Vieira A, Weyant R. GWAS Follow-Up Study of Caries in the Permanent Dentition. *Poster*. 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14
382. Mukhopadhyay N, Govil M, Weyant R, Vieira A, **Marazita ML**, Feingold E, Shaffer J, McNeil DW, Crout RJ, Slayton RL, Levy S. Multi-population Study of Risk Genes for Age-adjusted Dental Caries. *Oral Presentation*. 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14 Submitted, 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14
 383. Shaffer JR, Carlson JC, Weyant R, Feingold E, **Marazita ML**, McNeil DW, Crout RJ. Dioxin receptor gene AHR is associated with early childhood caries. *Oral presentation*. 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14
 384. Foxman B, Srinivasan U, Li JL, Crout RJ, McNeil DW, Weyant R, **Marazita ML**. Effects of family, dentition and dental caries on the oral microbiome. Submitted, 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14
 385. Luo T, Srinivasan U, Ramadugu K, Trumble E, Li J, Foxman B, Neiswanger K, Weyant R, **Marazita ML**, McNeil DW, Crout RJ. Validation Of Specimen Collection Methods For Oral Microbial Community Analysis. *Poster*. 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14
 386. 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. *Poster presentation*, 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14
 387. Neiswanger K, McNeil DW, Weyant R, Foxman B, Crout RJ, **Marazita ML**. Introduction to COHRA: Study Designs and Methods K. *Oral presentation*. 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14
 388. Weyant R, Polk D, Carlson JC, McNeil DW, Crout RJ, Foxman B, **Marazita ML**. Family Function Measure Predicts Caries in Northern Appalachia Children. *Oral presentation*. 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14
 389. McNeil DW, Weyant R, Crout RJ, Foxman B, **Marazita ML**. Psychosocial Determinants of Oral Health in Northern Appalachia. *Oral presentation*. 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14
 390. **Marazita ML**, Shaffer J, Feingold E, Stanley B, Carlson JC, Lewis, Wang X, McNeil

- DW, Weyant R, Neiswanger K, Foxman B, Crout RJ. Genetic Risk Factors for Dental Caries in Children and Adults. *Oral presentation*. 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14.
391. Foxman B, Srinivasan U, Li JJ, Marrs CF, McNeil DW, Crout RJ, Weyant R. **Marazita ML**. Oral Microbiota and Dental Decay: It's a Family Thing. *Oral presentation*. 93rd General Session and Exhibition of the IADR/44th Annual Meeting of the AADR/39th Annual Meeting of the CADR; 2015; Boston, MA, USA, March 11-14
 392. Begum F, Ruczinski I, **Marazita ML**, Murray JC, Beaty TH, Taub MA. Can rare variants account for signals from common variants? *Poster Presentation*. Symposium on Advances in Genomics, Epidemiology and Statistics 2015; Philadelphia, PA, USA. May 29.
 393. 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.
 394. Leslie EJ, Shaffer JR, Carlson JC, Feingold E, Weinberg SM, Laurie C, Doheny K, Neiswanger K, Moreno L, Lidral A, Czeizel A, Padilla C, Deleyannis F, Field LL, Wehby G, Vieira AR, Castilla E, Butali A, Hecht J, Buxo C, Christensen K, Ma L, Murray JC, **Marazita ML**. Multi-ethnic genome-wide association studies of CL/P identify novel risk genes and evidence for genetic modifiers. *Platform presentation*. 38th Annual Meeting of the Society for Craniofacial Genetics & Biological Development; 2015, Baltimore, MD, USA; October 5-6
 395. Carlson C, Leslie EJ, Shaffer JR, Schwender H, Taub MA, Ruczinski I, Murray JC, Beaty TH, **Marazita ML**, Feingold E. Methods for detecting modifier genes responsible for phenotypic heterogeneity. *Poster presentation*. 65th Annual Meeting of the American Society of Human Genetics Annual Meeting; 2015; Baltimore, MD, USA, October 6-10
 396. Govil M, Mukhopadhyaya N, Sanchez CA, Deleyiannis FW, Neiswanger K, Resick JM, Vieira AR, Letra AM, Silva RM, **Marazita ML**. Whole genome linkage study for caries risk in Guatemalans identifies novel genetic regions. *Poster presentation*. 65th Annual Meeting of the American Society of Human Genetics Annual Meeting; 2015; Baltimore, MD, USA, October 6-10
 397. Begum F, Taub MA, Ruczinski I, Leslie EJ, Koboldt DC, Beaty TH, Murray, JC. **Marazita ML**. Can rare variants account for signals from common variants? *Poster presentation*. 65th Annual Meeting of the American Society of Human Genetics Annual Meeting; 2015; Baltimore, MD, USA, October 6-10
 398. Li Q, Holzinger E, Hetmanski J, **Marazita ML**, Beaty TH, Bailey-Wilson J. Modified Random Forest Algorithm to Identify Gene-Gene Interaction in Case-Parent Trios Studies of Oral Cleft. *Poster presentation*. 65th Annual Meeting of the American Society of Human Genetics Annual Meeting; 2015; Baltimore, MD, USA, October 6-10

399. Huggins W, Pan H, Nettles DS, Hendershot T, Maiese DR, Brown DC, Levy J, Phillips M, Gaddis N, Bakalov V, Qin Y, Troiano RP, Himes J, Byers P, Butte N, Smith S, Harris PA, **Marazita ML**, McCarty CA, Farber GK, Wanke KL, Iglesias B, Ramos EM, Hamilton CM. The PhenX Toolkit: A Genomic Resource for Collaborative and Translational Biomedical Research. *Poster presentation*. 65th Annual Meeting of the American Society of Human Genetics Annual Meeting; 2015; Baltimore, MD, USA, October 6-10
400. Buxo-Maratinez CJ, Lopez-Del Valle LM, Cordero JF, Debs N, Salcedo MI, Garcia-Fragoso L, Soto M, Ryckman KK, Mukhopadhyay N, Govil M, Butali A, **Marazita ML**, Murray JC. Identifying Candidate Genes Associated with Non-syndromic Orofacial Cleft Risk in Puerto Rican Hispanics. *Poster presentation*. 65th Annual Meeting of the American Society of Human Genetics Annual Meeting; 2015; Baltimore, MD, USA, October 6-10
401. Mukhopadhyay N, Govil M, Sanchez CA, Deleyiannis FW, Neiswanger K, Resick JM, Vieira AR, Silva RM, Letra AM, **Marazita ML**. Replication study of whole genome association for caries in a Guatemalan population. *Poster presentation*. 65th Annual Meeting of the American Society of Human Genetics Annual Meeting; 2015; Baltimore, MD, USA, October 6-10
402. Leslie EJ, Carlson JC, Shaffer JR, Feingold E, Laurie C, Doheny K, Moreno L, Czeizel AE, Field LL, Deleyiannis F, Wheby G, Castilla EE, Vieira A, Butali A, Christensen K, Ma L, Buxo-Martinez CJ, Hecht JT, Neiswanger K, Lidral AC, Beaty TH, Murray JC, Weinberg SM, **Marazita ML**. Uncovering novel genes contributing to phenotypic heterogeneity in a common birth defect. *Poster presentation*. 65th Annual Meeting of the American Society of Human Genetics Annual Meeting; 2015; Baltimore, MD, USA, October 6-10
403. Weinberg SM, Lee MK, Leslie EJ, Hecht JT, Heike CL, Cunningham ML, Wehby GL, Moreno LM, Nidey NL, Feingold E, **Marazita ML**, Shaffer JR. Genome-wide association study reveals novel loci influencing normal human facial morphology. *Platform presentation*. 73rd Annual Meeting, American Cleft Palate-Craniofacial Association; 2016; Atlanta, GA, USA; October 5-6
404. Alotaibi R, Lee MK, Carlson J, Neiswanger K, Shaffer JR, Cooper ME, McNeil DW, Weyant RJ, Foxman B, Crout RJ, **Marazita ML**. Role of Environmental and Behavioral Factors on the Pattern of Dental Caries. *Poster presentation*. 45th Annual meeting of American Association for Dental Research; 2016, Los Angeles, CA; USA; March 16-19
405. Hayes SE, McNeil DW, Klana RA, Chertok R, Wiener C, Cameron LR, Neiswanger K, Weyant RJ, Foxman B, Crout RJ, **Marazita ML**. Breastfeeding and smoking predict Appalachian maternal oral health. *Oral Presentation*. 45th Annual meeting of American Association for Dental Research; 2016, Los Angeles, CA; USA; March 16-19
406. McNeil DW, Randall CL, Hayes SE, Neiswanger K, Weyant RJ, Foxman B, Crout RJ, **Marazita ML**. Perceived Stress, Depression, and Dental Fear are Associated with Oral Health in Pregnant Women in Northern Appalachia. *Platform presentation*. 45th Annual meeting of American Association for Dental Research; 2016, Los Angeles, CA; USA; March 16-19

407. Buxo-Martinez CJ, Rodriguez DA, Standley J, Debs N, Salcedo MI, Garcia-Fragoso L, Lopez-Del Valle LM, Soto M, Cordero JF, Butali A, Murray JC, **Marazita ML**. Identification of Rare *ADCY9* Mutations and Non-syndromic Oral Clefts in Puerto Ricans. *Oral Presentation*. 45th Annual meeting of American Association for Dental Research; 2016, Los Angeles, CA; USA; March 16-19
408. Replication of Genome-wide Association Candidate Genes in Three sub-Saharan African Populations. Gowans L, Mossey P, Busch T, Eshete M, Adeyemo W, Aregbesola B, Donkor P, **Marazita ML**, Adeyemo A, Murray J, Butali A, *Poster presentation*. 45th Annual meeting of American Association for Dental Research; 2016, Los Angeles, CA; USA; March 16-19
409. Perinatal distress associated with oral health in North Central Appalachia. *Oral presentation*. 45th Annual meeting of American Association for Dental Research; 2016, Los Angeles, CA; USA; March 16-19
410. Rourke R, Weinberg SM, **Marazita ML**, Jabbour N. Diagnosing Subtle Palatal Anomalies: Validation of Video-Analysis And Assessment Protocol for Diagnosing Occult Submucous Cleft Palate. *Submitted*. American Society of Pediatric Otolaryngology; 2016; Chicago, IL; USA; May 20-22
411. Phillips M, Grant Tracey, Huggins W, Terry S, Bodurtha J, Giampietro P, Heral L, Lewis J, Powell C, Soden S, Valdez R, Hendershot T, Maiese DR, Iglesias B, Ramos EM, Werner EM, Eckman JR, Hassell KL, Klings ES, Adams RJ, Panepinto JA, **Marazita ML**, McCarty CA, Hamilton CM. The PhenX Toolkit: Standard Measures to Assess Rare Genetic Conditions and Sickle Cell Disease. *Poster presentation*. Annual Clinical Genetics Meeting; 2016, Tampa, FL, USA, March 8 -12
412. Van Bemmelen DM, Wanke KL, Conway KP, Prochaska JJ, Swan GE, Brandon TH, Tiffany ST, Joseph AM, O'Malley SS, Chaloupka FJ, Ribisl K, Vallone D, Hendershot TP, Brown DC, Nettles DS, Maiese DR, Ramos EM, **Marazita ML**, McCarty CA, Hamilton CM. The PhenX Toolkit: Consensus Measures for e-Cigarettes Research. *Poster presentation*. Society of Toxicology 55th Annual Meeting and ToxExpo; 2016; New Orleans, Louisiana; USA; March 13-17
413. Carlson JC, Warzynski AR, Neiswanger K, Marshall TA, Shaffer JR, Maurer JL, Chapman S, Zovko JG, McNeil DW, Weyant RJ, Foxman B, Crout JR, **Marazita ML**. Dietary Habits of Mothers and Infants in Northern Appalachia. *Poster presentation*. American Dental Hygienist Association 93rd Annual Session; 2016; Pittsburgh, PA: USA; June 8 – 14
414. Eshete MA, Adeyemo WL, Gowans LJJ, Mossey PA, Busch T, James O, Augustine-Akpan EA, **Marazita ML**, Adeyemo AA, Murray JC, Butali A, Functional Mutations in GRHL3 gene are Associated with Cleft Palate in sub-Saharan African Populations. *Poster presentation*. 66th Annual Meeting of the American Society of Human Genetics; 2016; Vancouver, British Columbia, CA, October 18-22
415. Randall CL, McNeil DW, Shaffer JR, Crout RJ, Weyant 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

416. Carlson JC, Leslie EJ, Shaffer JR, Christensen K, Deleyiannis F, Hecht JT, Moreno Uribe L, Wehby GL, Feingold E, Weinberg SM, **Marazita ML**. Genome-wide interaction study implicates *VGLL2* and alcohol exposure in orofacial clefting. *Poster presentation. 66th Annual Meeting of the American Society of Human Genetics; 2016; Vancouver, British Columbia, CA, October 18-22*
417. Hancock DB, Reginsson GB, Gaddis NC, Lutz SM, Sherva R, Loukola A, Minica C, Chen X, Markunas CA, Gu F, McNeil DW, Landi MT, Madden P, Farrer LA, Vink J, Saccone NL, Kranzler HR, **Marazita ML**, Boomsma D, Baker TB, Gelernter J, Kaprio J, Caporaso NE, Thorgeirsson TE, Hokanson JE, Bierut LJ, Stefansson K, Johnson EO. *DNMT3B* SNP contributes to nicotine dependence across 16 GWAS samples of European and African ancestry and influences expression. *Oral platform presentation. 66th Annual Meeting of the American Society of Human Genetics; 2016; Vancouver, British Columbia, CA, October 18-22*
418. Lee MK, Leslie EJ, Carlson JC, Orlova E, Feingold E, **Marazita ML**, Shaffer JR, Weinberg SM. Genome-wide association study of multivariate measures of human facial morphology. *Poster presentation. 66th Annual Meeting of the American Society of Human Genetics; 2016; Vancouver, British Columbia, CA, October 18-22*
419. Leslie EJ, Carlson JC, Shaffer JR, Butali A, Buxo CJ, Christensen K, Deleyiannis F, Hecht JT, Moreno L, Orioli IM, Vieira AR, Wehby GL, Feingold E, Weinberg SM, Murray JC, Beaty TH, **Marazita ML**. Genome-wide analyses reveal subtype-specific genetic effects in orofacial cleft birth defects. *Poster presentation. 66th Annual Meeting of the American Society of Human Genetics; 2016; Vancouver, British Columbia, CA, October 18-22*
420. Orlova E, Lee MK, Adkiahari K, Li J, Gallo C, Poletti G, Shuler-Faccini L, Bortolini MC, Canizales-Quinteros S, Rothhammer F, Bedoya G, Gonzalez-José R, Balding D, Leslie EJ, Feingold E, Hecht JT, Wehby GL, Moreno LM, Ding A, Tan J, Yang Y, Jin L, **Marazita ML**, Cox T, Wang T, Ruiz-Linares A, Shaffer JR, Weinberg SM. Trans-Ethnic Genome-Wide Meta-Analysis of over 9000 Individuals Reveals Multiple Associations with Earlobe Attachment. *Poster presentation. 66th Annual Meeting of the American Society of Human Genetics; 2016; Vancouver, British Columbia, CA, October 18-22*
421. Hendershot T, Pan H, Huggins W, Phillips M, Hwang S, Qin Y, Bakalov V, Levy J, Nettles D, Maiese D, Boyles R, Dolan SM, Dison L, Swan GE, Prochaska JJ, McCarty CA, **Marazita ML**, Ramos EM, Hamilton CM. The PhenX Toolkit: Standard Measures

for Collaborative Research. *Poster presentation* 66th Annual Meeting of the American Society of Human Genetics; 2016; Vancouver, British Columbia, CA, October 18-22

422. Suzuki S, Ono M, Niimi T, Yamamoto M, Imura H, Nguyen C, Leslie EJ, Cooper ME, Natsume N, Nguyen M, **Marazita ML**, Murray JC. Replication study of GWAS candidate genes for non-syndromic cleft lip and/or cleft palate in Vietnamese population. *Poster presentation*. 66th Annual Meeting of the American Society of Human Genetics; 2016; Vancouver, British Columbia, CA, October 18-22.
423. Fu J, Beaty T, Scott AF, M. Parker, Wilson J, **Marazita ML**, Mangold E, Albach-Hejazi H, Murray JC, Bureau A, Carey J, Cristiano S, I. Ruczinski I, Scharpf R. Whole exome association of rare deletions in multiplex oral cleft families. *Oral platform presentation*. 66th Annual Meeting of the American Society of Human Genetics; 2016; Vancouver, British Columbia, CA, October 18-22.
424. Cornell R, Liu H, Leslie E, Dunnwald M. **Marazita ML**, Lidral A. Identification of non-coding variants at 1p22 that are pathogenic for nonsyndromic orofacial clefting. *Oral platform presentation*. 66th Annual Meeting of the American Society of Human Genetics; 2016; Vancouver, British Columbia, CA, October 18-22
425. Duverger, O, Shaffer JR, Colavincenzo J, **Marazita ML**, Morasso MI. Mutations in Keratins Involved in Pachyonychia Congenita are Associated with Dental Enamel Defects. *Oral presentation*. 9th Annual meeting of Enamel Symposium; 2016, North Yorkshire, UK; October 30 – November 3
426. LeClair J, Leslie EJ, Carlson JC, Feingold E, Buxo CJ, Castilla EE, Christensen K, Deleyiannia F, Field LL, Hecht JT, Moreno L, Orioli LM, Padilla C, Vieira AR, Wehby GL, Weinberg SM, Murray, JC, **Marazita ML**, Shaffer JR. Association of Low-Frequency Variants in Regulatory Regions with Non-Syndromic Orofacial Clefts. *Poster presentation*. 123rd Annual Meeting of the American Mathematical Association; 2017; Atlanta, GA, USA, January 4 – 7.
427. Li M., Liu H, Busch T, Eshete M., Adeyemo W. L., Gowans L. J.J., Augustine-Akpan E-A, Oseni O.G, **Marazita M.L.**, Adebawale A., Mossey P. A., Cornell R.A, Murray J. C., Butali A. Damaging Functional *GRHL3* Mutations Identified in Cleft Palate from Africa. *Poster presentation*. 95th General Session & Exhibition of the IADR/46th Annual Meeting of the AADR/41st Annual Meeting of the CADR, March 22-25, 2017. San Francisco, Calif., USA. *J Dent Res*, Vol 96 (Special Issue A):3755, 2017 (www.iadr.org).
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429. Alotaibi RN, Howe BJ, Chernus JM, Mukhopadhyay N, Sanchez CA, Cooper ME, Deleyiannis FW, Neiswanger K, Leslie EJ, Carlson JC, Resick JM, Vieira AR, Shaffer JR, Moreno-Urbe LM, **Marazita ML**. Genome-Wide Association Study of Dental Caries in Orofacial Cleft Families. *Poster presentation*. 95th General Session & Exhibition of the IADR/46th Annual Meeting of the AADR/41st Annual Meeting of the CADR, March 22-25, 2017. San Francisco, Calif., USA. *J Dent Res*, Vol 96 (Special Issue A):1835, 2017 (www.iadr.org).
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432. 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. *Poster presentation*. 95th General Session & Exhibition of the IADR/46th Annual Meeting of the AADR/41st Annual Meeting of the CADR, March 22-25, 2017. San Francisco, Calif., USA. *J Dent Res*, Vol 96 (Special Issue A):1204, 2017 (www.iadr.org).
433. Addicks SH, McNeil DW, Chertok IAZ, Wiener C, 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 Symposium Presentation (Session: Oral Health of Minority Women and Mother)*. 95th General Session & Exhibition of the IADR/46th Annual Meeting of the AADR/41st Annual Meeting of the CADR, March 22-25, 2017. San Francisco, Calif., USA. *J Dent Res*, Vol 96 (Special Issue A):1667, 2017 (www.iadr.org).
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435. Wright CD, Randall CL, Chernus J, McNeil DW, Feingold E, Crout RJ, Neiswanger K, Weyant RJ, Shaffer JR, **Marazita ML**. Fear of Minor Pain is Associated with Specific Genetic Loci: Relation to Oral Health. *Submitted*. 29th Annual Convention of the Association for Psychological Sciences, May 25-28, 2017. Boston, MA, USA.

436. Shungin D, Haworth S, Teumer A, Alaraudanjoki V, Divaris K, Grinde K, Hindy G, Golfreter B, Lee MK, Pesonen P, Agler C, Anttonen V, Kocher T, **Marazita ML**, Offenbacher S, Orho-Melander M, Shaffer JR, Sofer T, Franks PW, Timpson NJ, Johansson I. Meta-analysis of GWAS elucidates genetic architecture of dental caries. *Poster presentation*. 67th Annual Meeting of the American Society of Human Genetics; 2017; Oct 17-21, Orlando, FL.
437. Leslie EJ, Carlson JC, Standley J, Petrin A, Shaffer JR, Butali A, Buxo CJ, Christensen K, Deleyiannis F, Hecht JT, Field LL, Moreno LM, Orioli IM, Padilla C, Suzkui S, Nagato N Garidkhuu A, Vieira AR, Weinberg SM, Wehby GL, Feingold E, Murray JC, **Marazita ML**. Identification of 16q21 as a modifier locus for nonsyndromic orofacial cleft subphenotypes. *Poster presentation*. 67th Annual Meeting of the American Society of Human Genetics; 2017; Oct 17-21, Orlando, FL.
438. Begum F, Bureau A, Ruczinski I, Hetmenseki J, Parker MM, Albacha-Hejazi H, Scott AF, Murray JC, **Marazita ML**, Bailey-Wilson JE, Beaty TH, Taub MA. Potentially causal rare variants identified using whole genome sequencing of distant relatives from multiplex families with oral clefts. *Poster presentation*. 67th Annual Meeting of the American Society of Human Genetics; 2017; Oct 17-21, Orlando, FL.
439. Ratowiecki J, Lopez-Camelo JS, Carvalho FM, Brandon CA, Vieira AR, **Marazita ML**, Orioli IM, Castilla EE, Poletta FA. Fluctuating dermatoglyphic asymmetry and familial recurrence of Cleft Lip/Palate in a high-prevalence cluster of South America. *Poster presentation*. 67th Annual Meeting of the American Society of Human Genetics; 2017; Oct 17-21, Orlando, FL.
440. Haworth S, Shungin D, van der Ras, J, Vucic S, Gomez CM, Yakimov V, Shaffer JR, Lee MK, Standl M, Wang C, Bonnelykke K, Waage J, Jesson LE, Norrisgaard P, Joro R, Seppala I, Lehtimaki T, Lakka T, Bisgaard H, Pennell C, Kuhnisch J, **Marazita ML**, Gelle F, Rivadeneira F, Wolvius Eppo, West N, Thomas S, Franks P, Timpson N, Johansson. Genome wide association study suggests a predominantly environmental aetiology for dental caries in childhood. *Poster presentation*. 67th Annual Meeting of the American Society of Human Genetics; 2017; Oct 17-21, Orlando, FL.
441. Carlson, JC, Nidey NL, Shaffer JR, Butali A, Buxo CJ, Christensen K, Deleyiannis F, Hecht JT, Field LL, Moreno LM, Orioli IM, Padilla C, Vieira AR, Weinberg SM, Wehby GL, Feingold E, Murray JC, **Marazita ML**, Leslie EJ. Exploring the impact of sex-specific genetic effects on orofacial clefting. *Poster presentation*. 67th Annual Meeting of the American Society of Human Genetics; 2017; Oct 17-21, Orlando, FL.
442. 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 presentation*. 67th Annual Meeting of the American Society of Human Genetics; 2017; Oct 17-21, Orlando, FL.
443. 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 presentation*. 67th Annual Meeting of the American Society of Human Genetics; 2017; Oct 17-21, Orlando, FL.
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- Weinberg SM. Genome-wide association study of cranial vault shape reveals novel loci at 15q26.3 and 17q11.2. *Poster presentation*. 67th Annual Meeting of the American Society of Human Genetics; 2017; Oct 17-21, Orlando, FL.
445. Markunas CA, Hancock DB, Guo Y, Reginsson GW, Sherva R, Lukola A, Minici C, Gaddis NC, Lutz SM, Gudbjartsson DF, Young KA, McNeil DW, Qaiser Bennish, Madden PS, Farrer LA, Vink J, Saccone NL, Neale MC, Kranzler HR, **Marazita ML**, Boomsma DI, Gelernter J, Kaprio J, Caporsar 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. *Platform presentation*. 67th Annual Meeting of the American Society of Human Genetics; 2017; Oct 17-21, Orlando, FL.
 446. Roosenboom J, Chernus J, Leslie EJ, Ford M, Feingold E, Shaffer JR, Weinberg SM, **Marazita ML**. GWAS reveals loci associated with velopharyngeal insufficiency. *Poster presentation*. 67th Annual Meeting of the American Society of Human Genetics; 2017; Oct 17-21, Orlando, FL.
 447. Feingold E, Chernus J, Bowser J, Roosenboom J, Rajagopalan S, Neiswanger K, Leslie EJ, Carlson J, Sanchez C, Soejima T, Czeizel A, Hecht JT, Castilla EE, Salamanca J, Orioli IM, Poletta FA, Weinberg SM, **Marazita ML**. GWAS of fingerprint patterns. *Poster presentation*. 67th Annual Meeting of the American Society of Human Genetics; 2017; Oct 17-21, Orlando, FL.
 448. Wright CD, McNeil DW, Manegold EM, Addicks SH, Neiswanger K, Crout RJ, Foxman B, **Marazita ML**. Depression trajectories of perinatal and postpartum women in Appalachia: Results of a latent class growth analysis. *Poster presentation*. Association for Behavioral and Cognitive Therapies (ABCT) Annual Convention. 2017, Nov 16 - 19, San Diego, California, USA
 449. 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, Qaisar B, Maddan PA, Farrer LA, Vink J, Saccone NL, Neale MC, Kranzler HR, **Marazita ML**, Boomsma DI, 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. *Poster presentation*. NIDA Genetics Consortium Meeting. 2018; Jan 8-9, Bethesda, MD, USA
 450. Wright CD, Mangold EM, McNeil DW, 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 presentation*. Association for Behavioral and Cognitive Therapies (ABCT) Annual Convention. 2017, Nov 16 - 19, San Diego, California, USA
 451. Arias MC, Wright CD, McNeil DW, Kao E, Alexander L, Neiswanger K, Weyant RJ, Foxman B, Crout RJ, **Marazita ML**. Smoking Trajectories during Pregnancy and Postpartum in North Central Appalachia. *Platform presentation*: 47th Annual Meeting of the AADR, Fort Lauderdale, FL, USA March 21-24, 2018.
 452. Bello-Rivera C, Busch T, Toraño A, Debs N, Salcedo M, López-Del Valle L, Ledesma R,

- Soto-Ortiz M, Cordero J, **Marazita ML**, Butali A, Buxó-Martínez C. Novel *GRHL3* Exonic/Intronic Variants in Puerto Ricans With Cleft Palate. Poster presentation: 47th Annual Meeting of the AADR, Fort Lauderdale, FL., USA March 21-24, 2018.
453. Butali A, Busch T, Mossey P, Adeyemo W, Gowans L, Eshete M, **Marazita ML**, Murray JC, Adeyemo A. Identification of Novel Candidate Genes in a Genome-wide Association study for Orofacial Clefts in sub-Saharan African Populations. Platform presentation: 47th Annual Meeting of the AADR, Fort Lauderdale, FL, USA March 21-24, 2018.
 454. Kao E, Arias MC, McNeil DW, Alexander L, Neiswanger K, Weyant RJ, Foxman B, Crout RJ, **Marazita ML**. Postpartum Smoking: Depression, Stress, and Oral Health in Appalachia. Poster presentation: 47th Annual Meeting of the AADR, Fort Lauderdale, FL, USA March 21-24, 2018.
 455. Meadows Y, Hamrick C, Dieringer BM, Dillon JC, Randall CL, Neiswanger K, Crout RJ, Weyant RJ, **Marazita ML**, McNeil DW. Exploring intergenerational transmission of dental fear in school-aged children. Poster presentation: 47th Annual Meeting of the AADR, Fort Lauderdale, FL, USA March 21-24, 2018.
 456. Miller SF, Weinberg SM, Nidey NL, **Marazita ML**, Wehby GL, Moreno L. Morphological integration and facial shape of unaffected relatives of individuals with orofacial clefts. Poster presentation: 47th Annual Meeting of the AADR, Fort Lauderdale, FL., USA March 21-24, 2018.
 457. Rodriguez D, Busch T, Standley J, Bello-Rivera C, Toraño A, Debs N, Salcedo M, Gracia-Fragoso L, López-Del Valle L, Soto-Ortiz M, Ledesma R, Cordero J, **Marazita ML**, Murray JC, Butali A, Buxó-Martínez C. Rare *ADCY9* Mutations in Puerto Rican Children With Orofacial Clefts. Poster presentation: 47th Annual Meeting of the AADR, Fort Lauderdale, FL, USA March 21-24, 2018.
 458. Toraño-Rodríguez AM, Busch T, Bello C, Debs N, Elias-Boneta A, López-Del Valle L, Soto-Ortiz M, Cordero J, **Marazita ML**, Murray JC, Butali A, Buxó-Martínez C. Novel *IRF6* Mutation: Puerto Rican van der Woude Syndrome Family. Poster presentation: 47th Annual Meeting of the AADR, Fort Lauderdale, FL, USA March 21-24, 2018.
 459. Wright CD, Arias MC, McNeil DW, Neiswanger K, Crout RJ, Weyant RJ, Foxman B, **Marazita ML**. Gingival health trajectories and perceived stress during the perinatal period. Platform presentation: 47th Annual Meeting of the AADR, Fort Lauderdale, FL, USA March 21-24, 2018.
 460. Zhou Y, Cuddy R, McNeil D, Polk D, Crout R, Weyant RJ, Feingold E, Neiswanger K, **Marazita ML**, Shaffer JR. Oral Health Status and Dental Utilization Differs by Rurality in Appalachia. Platform presentation: 47th Annual Meeting of the AADR, Fort Lauderdale, FL, USA March 21-24, 2018.
 461. Butali A, **Marazita ML** et al. Genome-wide Analyses Identify Eight Novel Risk Loci for Orofacial clefts in the African Population. Platform presentation: 75th Annual Meeting of the American Cleft Palate-Craniofacial Association; Pittsburgh, PA, USA; April 10-14, 2018.
 462. Chernus JM, Roosenboom J, Ford M, Feingold E, Shaffer JR, Uribe LM, Buxó CJ, Hecht

- JT, Deleyiannis FWB, Leslie EJ, Weinberg SM, **Marazita ML**. A genome-wide association study of velopharyngeal insufficiency. Poster presentation: 75th Annual Meeting of the American Cleft Palate-Craniofacial Association; Pittsburgh, PA, USA; April 10-14, 2018.
463. Ford M, Lee MK, Roosenboom J, Chernus JM, Moreno LM, Valencia-Ramirez LC, Butali A, Buxó CJ, Deleyiannis FWB, Hecht JT, Long RE, Leslie EJ, Shaffer JR, Feingold E, Weinberg SM, **Marazita ML**. Velopharyngeal Insufficiency in a multiethnic cohort of families with a history of nonsyndromic orofacial clefting and population-based controls. Poster presentation: 75th Annual Meeting of the American Cleft Palate-Craniofacial Association; Pittsburgh, PA, USA; April 10-14, 2018.
 464. Indencleef K, Roosenboom J, Moreno LM, Wehby G, Hecht JT, Deleyiannis FWB, Christensen K, Leslie EJ, Peeters H, **Marazita ML**, Weinberg SM, Hens G, Claes P. Modular characterization of facial endophenotypes in parents of individuals with non-syndromic orofacial clefts. Platform presentation: 75th Annual Meeting of the American Cleft Palate-Craniofacial Association; Pittsburgh, PA, USA; April 10-14, 2018.
 465. Carlson JC, Anand D, Shaffer JR, Buxó CJ, Christensen K, Deleyiannis FWB, Hecht JT, Moreno LM, Orioli LM, Vieira AR, Wehby GL, Weinberg SM, Murray JC, Beaty TH, Feingold E, **Marazita ML**, Leslie EJ. A systematic analysis of orofacial clefts reveals subtype-specific genetic effects. Platform presentation: 75th Annual Meeting of the American Cleft Palate-Craniofacial Association; Pittsburgh, PA, USA; April 10-14, 2018.
 466. **Marazita ML**, Lee MK, Roosenboom J, Leslie EJ, Sanchez C, Shaffer JR, Feingold E, Wehby G, Moreno Uribe L, Valencia-Ramirez LC, Deleyiannis FWB, Vieira AR, Padilla C, Butali A, Orioli I, Buxó CJ, Christensen K, Hecht JT, Murray JC, Weinberg SM. Subepithelial *orbicularis oris* muscle discontinuities in a multiethnic sample of individuals with nonsyndromic isolated cleft palate versus controls. Platform presentation: 75th Annual Meeting of the American Cleft Palate-Craniofacial Association; Pittsburgh, PA, USA; April 10-14, 2018.
 467. Rajagopalan S, Chernus J, Carlson JC, Lee MK, Leslie EJ, Mukhopadhyay N, Soejima T, Sanchez CA, Hecht JT, Orioli I, Weinberg SM, **Marazita ML**. Dermatoglyphic Analysis of Individuals with Nonsyndromic Clefts, Unaffected Family Members, and Controls. *Poster presentation*: 75th Annual Meeting of the American Cleft Palate-Craniofacial Association; Pittsburgh, PA, USA; April 10-14, 2018.
 468. Roosenboom J, Lee MK, Feingold E, **Marazita ML**, Maga M, Shaffer JR, Weinberg SM. Mapping Genetic Variants for Cranial Vault Shape in Humans. *Poster presentation*: 75th Annual Meeting of the American Cleft Palate-Craniofacial Association; Pittsburgh, PA, USA; April 10-14, 2018.
 469. Zhang C, Miller S, Roosenboom J, Wehby GL, Moreno Uribe LM, Hecht JT, Deleyiannis FWB, Christensen K, **Marazita ML**, Weinberg SM. Nasal Asymmetry as a potential risk marker for non-syndromic cleft lip with or without palate (NSCL/P). *Oral Platform presentation*: 75th Annual Meeting of the American Cleft Palate-Craniofacial Association; Pittsburgh, PA, USA; April 10-14, 2018.
 470. 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: IADR/PER 96th General Session and Exhibition, London, England July 25-28, 2018.*
471. 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: IADR/PER 96th General Session and Exhibition, London, England July 25-28, 2018.*
 472. Blostein F, Jansen EC, Jones AD, **Marazita ML**, Foxman B. Dietary Patterns and Dental Decay Among Teenagers and Adults. *Poster Presentation: IADR/PER 96th General Session and Exhibition, London, England July 25-28, 2018.*
 473. 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. *Oral Platform Presentation: IADR/PER 96th General Session and Exhibition, London, England July 25-28, 2018*
 474. Haworth S and the GLIDE consortium. 69 Genetic Loci Discovered for Dental Diseases in 506,667 Adults. *Oral Platform Presentation: IADR/PER 96th General Session and Exhibition, London, England July 25-28, 2018.*
 475. **Marazita ML**. Genomic and Phenotypic Studies in Orofacial Cleft Families. *Invited Keynote Presentation (Craniofacial Biology Section): IADR/PER 96th General Session and Exhibition, London, England July 25-28, 2018.*
 476. 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 *Oral Platform Presentation: IADR/PER 96th General Session and Exhibition, London, England July 25-28, 2018.*
 477. 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. *Oral Platform Presentation: IADR/PER 96th General Session and Exhibition, London, England July 25-28, 2018. (* to be presented by Mary Marazita)*
 478. 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. *Oral Platform Presentation: IADR/PER 96th General Session and Exhibition, London, England July 25-28, 2018, London, England July 25-28, 2018. (* to be presented by John Shaffer)*
 479. Ramadugu K, Jiang W, Salzman B, Davis E, Rickard A, Neiswanger K*, McNeil D, **Marazita ML**, Foxman B. Candida albicans and Caries in Post-partum Appalachian Women (2959857). *Poster Presentation: IADR/PER 96th General Session and Exhibition, London, England July 25-28, 2018. (* to be presented by Kathy Neiswanger)*
 480. Roosenboom J, Lee MK, Indencleef K, Feingold E, **Marazita ML**, Shriver MD, Claes P, Shaffer JR, Weinberg SM. The effect of SNPs associated with testosterone levels on human facial morphology. *Oral Platform Presentation: IADR/PER 96th General Session*

and Exhibition, London, England July 25-28, 2018.

481. Shungin D, and the GLIDE consortium. Shared Genetic Contributions between Oral and General Health Using GWAS in 506,667 Adults. *Oral Platform Presentation: IADR/PER 96th General Session and Exhibition, London, England July 25-28, 2018.*
482. Butali A, Mossey PA, Adeyemo WL, Eshete MA, Gowans LJJ, **Marazita ML**, Murray JC, Adeyemo AA. Genome-wide Analyses Identify *CTNNA2* and *SULT2A1* as Candidate Genes for Cleft Palate Only in the African Population. *Oral presentation #333: 68th Annual Meeting of the American Society of Human Genetics; San Diego, CA, October 18-22, 2018.*
483. Indencleef K, White JD, Li J, Ortega-Castrillón A, Mohammed J, Swigut T, Lee MK, González-Zarzar T, Zaidi AA, Roosenboom J, Shaffer JR, Feingold E, Richmond S, Eller RJ, Walsh S, **Marazita ML**, Wysocka J, Hens G, Weinberg SM, Shriver MD, Claes P. Meta-analysis of global-to-local genome-mapping on modular facial shape reveals 75 associated loci. *Poster presentation #2647T (*Reviewers' Choice, i.e. in the top 10% of abstracts): 68th Annual Meeting of the American Society of Human Genetics; San Diego, CA, October 18-22, 2018.*
484. Lee MK, Roosenboom J, Feingold E, **Marazita ML**, Shaffer JR, Weinberg SM. Genome-wide association studies of human facial width-to-height ratios. *Poster presentation #2581T: 68th Annual Meeting of the American Society of Human Genetics; San Diego, CA, October 18-22, 2018.*
485. Leslie EJ, Moreno-Uribe L, Chopra P, Cutler DJ, Feingold E, Valencia-Ramirez C, Restrepo C, Lidral A, Arcos-Burgos M, Liao E, Cornell RA, Mary L. Marazita, Lina Moreno-Uribe, **Marazita ML**. Insights into the etiology of nonsyndromic orofacial clefting by WGS of Colombian trios. *Poster presentation #2525F: 68th Annual Meeting of the American Society of Human Genetics; San Diego, CA, October 18-22, 2018.*
486. Mukhopadhyay N, Feingold E, Leslie EJ, Wehby G, Moreno-Uribe L, Hecht JT, Deleyiannis FWB, Beaty TH, Murray JC, **Marazita ML**. Association analyses of common SNPs and indels from whole genome sequencing of orofacial cleft (OFC) trios of European ancestry. *Poster presentation #2596T: 68th Annual Meeting of the American Society of Human Genetics; San Diego, CA, October 18-22, 2018.*
487. Roosenboom J, Lee MK, Feingold E, **Marazita ML**, Shriver MD, Wysocka J, Claes P, Shaffer JR, Weinberg SM. Detailed annotation of genetic signals associated with human nose morphology. *Poster presentation #2649W: 68th Annual Meeting of the American Society of Human Genetics; San Diego, CA, October 18-22, 2018.*
488. Shaffer JR, LeClair J, Carlson JC, Feingold E, Buxó CJ, Christensen K, Deleyiannis FWB, Field LL, Hecht JT, Moreno L, Orioli IM, Padilla C, Vieira AR, Wehby GL, Murray JC, Weinberg SM, **Marazita ML**, Leslie EJ. Association of Low-Frequency Variants in Regulatory Regions with Non-Syndromic Orofacial Clefts. *Poster presentation #3377F: 68th Annual Meeting of the American Society of Human Genetics; San Diego, CA, October 18-22, 2018.*
489. Zhou Y, Roosenboom J, Lee MK, Hecht JT, Heike CL, Wehby GL, Christensen K, Moreno LM, Feingold E, **Marazita ML**, Claes P, Weinberg SM, Shaffer JR. Genetic

association of ER stress sensors IRE1 and XBP1 with cranial vault shape and nasal shape in humans. *Poster presentation #2311T*: 68th Annual Meeting of the American Society of Human Genetics; San Diego, CA, October 18-22, 2018.

490. Sardzinski LW, Welhaven AE, Xie XJ, Wehby GL, Weinberg, **Marazita ML**, Moreno Uribe LM, Howe BJ. Phenotypic Spectrum of Enamel Defects in Nonsyndromic Orofacial Clefting. *Oral presentation*, University of Iowa College of Dentistry 2019 Local AADR Research Day, February 12, 2019, Iowa City, Iowa. **NOTE: this presentation was awarded second place in the ADA Pre-Doctoral Poster/Table Clinic Competition.**
491. Ali S, Ehrlich DE, Moreno Uribe LM, Amendt BA, Lee MK, Shaffer JR, **Marazita ML**, Weinberg SM, Miller SF. Linking the Expression of Facial Shape and BMI via the Hippo Signaling Pathway, *Oral Presentation: Experimental Biology Annual Meeting*, Orlando, Florida, USA April 6-9, 2019
492. Ruiz J, Branham N, Ngyuen L, Ehrlich DE, Moskal RJ, Lee MK, **Marazita ML**, Weinberg SM, Miller SF. Do Unaffected Parents of Children with Orofacial Clefts have Decreased Facial Integration Compared to Controls? *Poster Presentation: Experimental Biology Annual Meeting*. Orlando, Florida, USA April 6-9, 2019
493. Howe BJ, Want T, Zeng E, Xie XJ, Dawson DV, Padilla C, Hect JT, Poleta FA, Orioli LM, Buxo Martinez CJ, Deleyiannis F, Butali A, Wehby GL, Weinberg SM, **Marazita ML**, Moreno Uribe LM. Agenesis Patterns in Orofacial Clefting using Interpretable Machine Learning. *Oral presentation (abstract #3176619)*, IADR/AADR/CADR 97th General Session & Exhibition; Vancouver, British Columbia, Canada; June 19-22, 2019
494. Nelson CI, Durkin K, Williford MS, 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 presentation (abstract # 3182407)*, IADR/AADR/CADR 97th General Session & Exhibition; Vancouver, British Columbia, Canada; June 19-22, 2019
495. Ragodos R, Wang T, Wehby GL, Weinberg SM, Dawson DV, **Maraztia ML**, Moreno Uribe LM, Howe BJ. Dental Anomaly Image Classification Using a Convolutional Neural Network. *Oral Presentation (abstract #3181814)*, IADR/AADR/CADR 97th General Session & Exhibition; Vancouver, British Columbia, Canada; June 19-22, 2019
496. Snell AK, Burgette JM, Weyant RJ, Crout RJ, McNeil DW, Foxman B, Marazita ML. Concordance between Mother's Perception and Child Dental Caries Experience. *Oral presentation (abstract 3169277)*, IADR/AADR/CADR 97th General Session & Exhibition; Vancouver, British Columbia, Canada; June 19-22, 2019. **NOTE: this presentation was awarded a 2019 American Association for Dental Research (AADR) Bloc Travel Grant for the first author.**
497. Zeng E, Xie SJ, Wang T, Dawson DV, Padilla C, Hecht JT, Poletta FA, Orioli IM, Buso Martinez CJ, Deleyiannis F, Butali A, Wehby GL, Weinberg SM, **Marazita ML**, Moreno Uribe LM, Howe BJ. Patterns of Dental Anomalies in Orofacial Clefting using Hierarchical Clustering. *Oral presentation (abstract #318505)*, IADR/AADR/CADR 97th General Session & Exhibition; Vancouver, British Columbia, Canada; June 19-22, 2019.

PROFESSIONAL ACTIVITIES

TEACHING:

GRADUATE STUDENTS TRAINED:

Ph.D. Students, Mentor/Committee Chair:

Rasha Alotaibi, Ph.D. candidate in Oral Biology, University of Pittsburgh.

Deyana Lewis

Ph.D. in Human Genetics received, University of Pittsburgh, 2015; Title of dissertation: "Candidate genes and replication studies of dental caries".

Brion Maher

Ph.D. in Human Genetics received, University of Pittsburgh, 2000; Title of dissertation: "Genetic analyses of attention deficit hyperactivity disorder and its underlying dimensions."

Seth Weinberg

Ph.D. in Anthropology received (co-chair with Michael Siegel), University of Pittsburgh, 2007; Title of dissertation: "Three-Dimensional Morphometric Analysis of the Craniofacial Complex in the Unaffected Relatives of Individuals with Nonsyndromic Orofacial Clefts."

Ph.D. Students, Committee Member:

Katharyn Maria Baca

Ph.D. in Epidemiology received, University of Pittsburgh, 2015; Title of dissertation: "Preeclampsia risk, maternal 25-hydroxyvitamin D concentration, and variation in vitamin D metabolism pathway genes"

Michael Barmada

Ph.D. in Human Genetics received, University of Pittsburgh, 1999; Title of dissertation: "Genetic epidemiology of Type 2 (non-insulin dependent) Diabetes Mellitus."

Enoch Bortey

Ph.D. in Biostatistics received, MCV, 1990; Title of dissertation: "Hypothesis testing based on ranks in multivariate linear models."

Sean Davis

Ph.D. in Human Genetics received, University of Pittsburgh, 1997; Title of dissertation: "Nonparametric statistics in linkage analysis."

Christine Gammage

Ph.D. candidate in Behavioral Medicine, Temple University/University of Pittsburgh (on leave).

Tom Hart D.D.S.

Ph.D. in Human Genetics received, MCV, 1991; Title of dissertation: "Genetic studies of juvenile periodontitis."

Amy Kreithen

Ph.D. candidate in Anthropology, University of Pittsburgh (withdrew).

Nandita Mukhopadhyay

Ph.D. in Human Genetics received, University of Pittsburgh, 2016. Title of dissertation: “Computational methods for calculating meiotic recombination from nuclear pedigrees”.

Ekaterina Orlova

Ph.D. candidate in Human Genetics, University of Pittsburgh.

Beth Stasiowski

Ph.D. in Human Genetics received, MCV, 1992; Title of dissertation: “Cytogenetic and molecular analyses of families with recurrent trisomy 21.”

Ying Su

Ph.D. in Human Genetics received, MCV, 1991; Title of dissertation: “Linkage analysis of schizophrenia in Irish pedigrees: exclusion of candidate regions on chromosomes 5q and 11q.”

Megan Lynn Weber

Ph.D. in Oral Biology received, University of Pittsburgh 2016; title of dissertation: “Examining the relationship between the genotype and redefined phenotype of dental caries”.

Karen Weissbecker

Ph.D. in Human Genetics received, MCV, 1988; Title of dissertation: “A genetic and biochemical study of variation of normal and abnormal biotinidase activity.”

Eddie Weller

Ph.D. in Biostatistics received, MCV, 1992; Title of dissertation: “A multivariate rank test under ordered alternatives.”

Yuqiao (Jennifer) Zhou.

Ph.D. candidate in Oral Biology, University of Pittsburgh.

Ph.D. Students, Outside Thesis Reader:

Lakshmi Nemana

Ph.D. in Genetics received May 1988, Madras Institute of Medical Science, Madras, India; Title of dissertation: “Genetic analysis of nonsyndromic cleft lip with or without cleft palate in Madras, India.”

Master’s Students, Mentor/Committee Chair:

Alyssa Azevedo

MS candidate in Genetic Counseling, University of Pittsburgh.

Carla Brandon

MS in Human Genetics received, University of Pittsburgh, May 2004; Title of thesis: “Dermatoglyphic phenotype of nail-patella syndrome.”

Abigail Byrnes

M.S. in Genetic Counseling received, University of Pittsburgh, April 2001; Title of thesis: “Parental evaluation of the experience of being informed that a child has a cleft lip and/or palate.”

Abdelhakim A El-Gheriani, D.D.S.

M.S. in Human Genetics received, University of Pittsburgh, June 2003; Title of thesis: “Segregation analysis of mandibular prognathism in Libya.”

Shane Holmes, D.D.S.

M.S. in Orthodontics candidate, University of Pittsburgh, received, 2000; Title of thesis:

- “Asymmetry measurements in cleft lip with or without cleft palate in China.”
 Elena M Infanta
 M.S. Genetic Counseling received, University of Pittsburgh, 2010; Title of thesis:
 “Phenotypic and genetic analysis of indices of liability to addiction.”
- Elizabeth Jenkins
 M.S. in Genetic Counseling received, University of Pittsburgh, 2006; Title of thesis “A
 study of minor physical anomalies in twin pairs age 5-12 years: a predictor of behavioral
 variation?”
- Cherise Klotz
 M.S. in Genetic Counseling received, University of Pittsburgh, 2009; Title of thesis:
 “Revisiting the recurrence risk of nonsyncromic cleft lip with or without cleft palate.”
- Brion Maher
 M.S. received in Human Genetics, University of Pittsburgh, 1997; Title of thesis:
 “Genetic segregation analysis of ADHD.”
- Rachel Malinowski (Nusbaum)
 M.S. in Genetic Counseling received, University of Pittsburgh, 2005; Title of thesis:
 “Assessing the impact of prenatal diagnosis of clefting on the maternal/paternal birth
 experience.”
- Jennifer Moeller
 M.S. in Genetic Counseling received, University of Pittsburgh, 2009; Title of thesis:
 “Familial correlation in periodontal disease: indicators and risk factors.”
- Dawn Nicotra
 M.S. in Genetic Counseling received, University of Pittsburgh, 2005; Title of thesis: “A
 meta-analysis of the prevalence of common clinical characteristics in Velocardiofacial
 syndrome.”
- Supakit Peanchitlertkajorn, D.D.S.
 M.S. in Orthodontics candidate, University of Pittsburgh received, 2000; Title of thesis:
 “Genetic linkage analysis of cleft lip with or without cleft palate.”
- Katherine Peters
 M.S. in Genetic Counseling received, University of Pittsburgh, May 2001; Title of thesis:
 “Heritability of temperament: a twin study.”
- Shwetha Rajagopalan
 M.S. candidate in Oral Biology, University of Pittsburgh.
- Jessica Sank (Ratay)
 M.S. in Genetic Counseling received, University of Pittsburgh, 2000; Title of thesis:
 “Perceived social support of mothers of children with clefts.”
- Charlotte Skinner
 MS candidate in Genetic Counseling, University of Pittsburgh
- Kimberly Wentzlaff
 M.S. in Genetic Counseling received, University of Pittsburgh, 1996; Title of thesis:
 “Handedness and non-syndromic cleft lip with or without cleft palate in Shanghai,
 China.”

Master’s Students, Committee Member:

Shelly Abramowicz, D.D.S.

- M.S. received in Public Health, University of Pittsburgh, 2002; Title of thesis
“Investigation of Demographic and Prenatal Factors in Cleft Lip and Cleft Palate Patients.”
- Aishwarya Arjunan
MS candidate in Human Genetics received 2013, University of Pittsburgh, May 2013.
Title of thesis: “Prevalence of the Beta-S Gene and Sickle Cell Disease in India”.
- Karen M. Clarke
M.S. in Genetic Counseling received, University of Pittsburgh, 1994; Title of thesis:
“Genetic epidemiology of periodontal indices associated with early onset periodontitis.”
- Margaret Cooper
M.S. in Biostatistics received, University of Pittsburgh, 1996; Title of thesis:
“Characteristics associated with cleft lip with or without cleft palate in a Chinese population.”
- Thomas Crary, DDS
M.S. in Orthodontics received, University of Iowa, 2018; Title of thesis:
“Prevalence of dental anomalies in cleft affected subjects and their family members”
- Tanya N. Eble
M.S. in Genetic Counseling received, University of Pittsburgh, 2004; Title of thesis:
“Mothers of multiplets’ reasons for non-response to mailed questionnaires: a qualitative thematic analysis.”
- Brian J. Howe D.M.D.
M.S. in Orthodontics received, University of Iowa, 2013. Title of thesis: Expanding the dental phenotype of nonsyndromic orofacial clefting.”
- Elizabeth A. Jenkins
M.S. in Genetic Counseling received, University of Pittsburgh, 2006, Title of thesis: “A study of minor physical anomalies in twin pairs age 5-12 years: a predictor of behavioral variation?”
- Amy Keglovitz
M.S. in Genetic Counseling received, University of California, Irvine, 1996; Title of thesis: “Dermatoglyphic analysis of cleft lip with or without cleft palate in Shanghai, China.”
- Maureen May
M.S. in Genetic Counseling received, University of Pittsburgh, 2011. Title of thesis:
“Olfactory Deficits in Cleft Lip and Palate”.
- Chloe M. E. Meier, D.D.S.
M.S. in Orthodontics received, University of Iowa, 2014. Title of thesis: “Microesthetic dental analysis in parents of children with oral clefts”
- Michael Mosteller, Ph.D.
M.S. in Biostatistics received, MCV, 1993; Title of thesis: “Feasibility of using the multipoint identity by descent method to identify human chromosomal regions associated with a quantitative trait.”
- Nicholas Pappas, DDS
M.S. in Orthodontics received, University of Iowa, 2018. Title of thesis:
“Expanding the occlusal phenotype of non-syndromic orofacial clefting”.
- Teresa Alexandra Ruegg
M.S. in Genetic Counseling received, University of Pittsburgh, 2014 Title of thesis:

“Otitis media in nonsyndromic orofacial cleft families”

Hedieh Tavajohi-Kermani, D.D.S.

M.S. in Orthodontics received, University of Pittsburgh, 1998; Title of thesis: “The association of hypodontia with skeletal morphology within an orthodontic population.”

Melissa Strassberg

M.S. in Genetic Counseling received, University of Pittsburgh, 2002; Title of thesis: “A Twin Study of ADHD.”

Kimberly Truett

M.S. in Human Genetics received, MCV, 1991; Title of thesis: “Biological and cultural transmission of attitudes and values.”

Megan Lynn Weber

M.S.. in Oral Biology received, University of Pittsburgh 2015; title of thesis: “Examining the relationship between the genotype and redefined phenotype of dental caries”.

UNDERGRADUATE STUDENTS:

Emily M. Selby

Mentor, Senior Honors thesis (BA, Psychiatry, West Virginia University), 2006; Title “The Psychological Implications of Orofacial Clefts.”

POSTDOCTORAL FELLOWS:

Azeez Butali, Ph.D., University of Iowa

Postdoctoral Fellow, Genetics (K99/R00), July 2012 to present

Carmen Buxos, Ph.D. Puerto Rico

Postdoctoral Fellow, Genetics (K99/R00), September 2014 to present

Yona Cloonan, Ph.D.

Postdoctoral Fellow, Oral Biology, August 2009 - October 2010.

Manika Govil, Ph.D., Statistical Genetics, University of Iowa

Postdoctoral Research Associate, 2005 - 2008.

Ariadne Letra, D.M.D.

Postdoctoral Research Associate, 2005-2008

Elizabeth J. Leslie, Ph.D.

Postdoctoral Research Scholar, 2013-2015

Brion Maher, Ph.D., Human Genetics, University of Pittsburgh

Research Fellow, July 2000 - December 2002.

Lynn M. Ploughman, PhD., Biostatistics, University of Michigan

Postdoctoral Fellow, January 1990 - May 1992.

Kelli Ryckman, PH.D. University of Iowa

Postdoctoral Fellow, April 2011-2013

Bonnie A. Salbert, M.D.

Clinical Genetics Fellow, January 1991 – December 1992 (advisor for research project).

Renato Silva Menezes, D.M.D

Postdoctoral Research Associate, 2005-2008.

Dietrich Stephan, Ph.D., Human Genetics, University of Pittsburgh

Postdoctoral Fellow, March 1996 – October 1996.

Emily Stevens, Ph.D.

Postdoctoral Student, School of Nursing, August 2008 – July 2010.

VISITING PROFESSORS:

L. Leigh Field, Ph.D.

Associate Professor, Division of Medical Genetics, University of Calgary, Alberta, Canada, January – May, 1990.

Ajit Ray, Ph.D.

Professor, Department of Anthropology, University of Toronto, Ontario, Canada, February – March, 1990.

You-e Liu, M.D.

Professor and Director, Shanghai Eye Institute, Shanghai, P.R. China, Fall 1992, Spring/Summer, 1992, Fall 1994, April 1997 – May 1998.

Jadranka Handzic-cuk, M.D.

Fulbright Fellow, Croatia, August 2000 – June 2001.

Hong ping Zhu DDS, PhD

Beijing Medical University, School of Stomatology, Cleft Palate Center, October 2000 – December 2001.

MAJOR TEACHING ASSIGNMENTS

(Unless otherwise noted, I was entirely responsible for each of the following courses):

- | | |
|------|---|
| 1981 | Craniofacial Biology (CBY38): Mathematical Genetics in Craniofacial Biology for Ph.D. students; Winter semester, USC. |
| 1981 | Dentistry (BS10): Basic Genetics for Dental students; Fall semester, USC (team-taught). |
| 1982 | Dentistry: Basic Statistical Concepts for Research for post-graduate dental fellows; Winter semester, USC. |
| 1984 | Public Health (PH100A): Introductory Biostatistics for Public Health graduate students; Spring quarter, UCLA. |
| 1984 | Biomathematics (171A): Introduction to Statistics for post-graduate Dental fellows; Fall quarter, UCLA. |
| 1984 | Biomathematics (207): Mathematical Genetics for Ph.D. students in Biomathematics and Genetics; Fall quarter, UCLA (team-taught). |
| 1986 | Human Genetics: Genetic analysis under the mixed model using pointers, informal 6-week course for Ph.D. students and faculty in Human Genetics; Fall semester, MCV. |
| 1987 | Human Genetics: Readings in mathematical genetic epidemiology, informal 10-week course for Ph.D. students and faculty in Human Genetics; Summer semester, MCV. |

- 1988 Human Genetics (GEN691): Introductory segregation and linkage analysis for Ph.D. students in Human Genetics; Spring semester, MCV.
- 1988 Human Genetics (GEN519): Quantitative Genetics for Ph.D. students in Human Genetics; Spring *and* Fall semesters, MCV (taught 1/3 of the course each semester).
- 1988–1989 Human Genetics (GEN502): Laboratory Rotations for 3 Ph.D. students in Human Genetics; Fall and Summer semesters, MCV.
- 1989 Human Genetics (GEN 531): Dental genetics, introduction to human genetics for first year dental students; Fall semester, MCV (organizer and course master).
- 1989–1990 Human Genetics (GEN618): Advanced segregation and linkage analysis for Ph.D. students in Human Genetics; Fall semesters, MCV.
- 1989–1991 Human Genetics (GEN603): Introduction to mathematical and statistical genetics for Ph.D. and M.S. students in Human Genetics; Fall semesters, MCV (taught up to ½ of the course).
- 1991–1992 Human Genetics (GEN617): Introduction to segregation and linkage analysis for Ph.D. students in Human Genetics; Spring and Summer semesters, MCV.
- 1991 Human Genetics (GEN602): Enrichment course for Ph.D. students in Human Genetics; Spring semester, MCV (taught ¾ of the course).
- 1994 Craniofacial Anomalies (2140): co-director with Dr. Dryland Vig; Spring term, Pitt SDM.
- 1995–1998 Craniofacial Anomalies (2140): co-director with Dr. J. Petrone; Spring term, Pitt SDM.
2002–2006
- 1997 Quantitative Genetics (HUGEN 2033); Fall semester, Pitt, Human Genetics (taught 1/3 of course).
- 2007 Masters Research (2201): co-director with Dr. J. Petrone; Summer term, Pitt SDM.

LECTURES

(Individual lectures given since 1986 at Medical College of Virginia and University of Pittsburgh):

Medical College of Virginia

Date	Course #	Course Name/ Organizer	Course Title
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11-18-86	GEN531	Dental Genetics/Townsend	Genetics of Cleft Lip and Cleft Palate
10-30-86	GEN501	Intro Hum Genet/Chinicci	Ascertainment and Segregation Analysis
11-18-86	GEN501	Intro Hum Genet/Chinicci	Inbreeding and Isolates
5-1-87	MIC551	Dental Genetics for Postgrads /Townsend	Cleft Lip and Palate
9-11-87	GEN502	Enrichment/Merz	Formal Genetics
9-18-87	GEN502	Enrichment/Merz	Formal Genetics
11-19-87	GEN531	Dental Genetics/Townsend	Genetics of Cleft Lip and Cleft Palate
11-19-87	GEN501	Intro Hum Genet/Chinicci	Ascertainment and Segregation Analysis
11-24-87	GEN501	Intro Hum Genet/Chinicci	Inbreeding and Isolates
2-3-88		MI Hum Genet/Corey	Gene Mapping
2-1-88		MI Hum Genet/Corey	Recurrence Risk Estimation
1-20-88, 1-28-88, 2-2-88		MI Hum Genet/Corey	Recitations and McKusick exercises
10-7-88	GEN502	Enrichment/Merz	Formal Genetics
10-21-88	GEN502	Enrichment/Merz	Formal Genetics
11-1-88	GEN531	Dental Genetics/Townsend	Quantitative and Multifactorial Inheritance
11-1-88	GEN531	Dental Genetics/Townsend	Cleft Lip and Cleft Palate
1-9-89		MI Hum Genet/Corey	Recurrence Risk Estimation
1-25-89		MI Hum Genet/Corey	Gene Mapping
1-9, 1-11, 1-13-89		MI Hum Genet/Corey	3 Recitations (Genetic Analysis I and II, Molecular Genetics)
5-1-89	MIC551	Dental Genetics for Postgrads/Townsend	Genetics of Cleft Lip and Cleft Palate
9-14-89	GEN501	Intro Hum Genet/Chinicci	Linkage Analysis
9-19-89	GEN501	Intro Hum Genet/Chinicci	Ascertainment and Segregation Analysis
9-21-89	GEN501	Intro Hum Genet/Chinicci	Inbreeding and Isolates
10-31-89	GEN531	Dental Genetics/Townsend	Quantitative and Multifactorial Inheritance
10-31-89	GEN531	Dental Genetics/Townsend	Cleft Lip and Palate
1-9-90		MI Hum Genet/Corey	Recurrence Risk Estimation
9-11-90	GEN501	Intro Hum Genet/Chinicci	Inbreeding and Isolates
9-18-90	GEN501	Intro Hum Genet/Chinicci	Ascertainment and Segregation Analysis
1-9-91		MI Hum Genet/Corey	Molecular Genetics Recitation
9-12-91	GEN501	Intro Hum Genet/Chinicci	Inbreeding and Isolates
9-17-91	GEN501	Intro Hum Genet/Chinicci	Ascertainment and Segregation Analysis
10-31-91	GEN531	Dental Genetics/Townsend	Cleft Lip and Cleft Palate

2-4-92	M-I	M-I Genetics/Brown	Neural Tube Defects/Neurofibromatosis Recitation
9-2-92	GEN501	Hum Genet Enrich/Corey	Patterns of Single Gene Inheritance I
9-4-92	GEN501	Hum Genet Enrich/Corey	Patterns of Single Gene Inheritance II
9-11-92	GEN501	Hum Genet Enrich/Corey	Recurrence Risk estimation
9-22-92	GEN502	Intro Hum Genet/Chinicci	Inbreeding and Isolates
9-24-92	GEN502	Intro Hum Genet/Chinicci	Ascertainment, Segregation

University of Pittsburgh

Date	Course Number	Course Title/Organizer	Course Title
3 lectures, spring 1994	HUGEN2 022	Human Population Genetics/Aston	Segregation Analysis and Ascertainment
fall 94	CD2074	Cleft Palate Speech/Cohn	Cleft lip and palate etiology
fall 94	ANHIS22 254	General Histology I/Piesco	Single Gene Mendelian Inheritance Patterns
10-18-95	CD2074	Cleft Palate Speech/Cohn	Cleft lip and palate etiology
9-6-95	ANHIS22 254	General Histology I/Piesco	Single Gene Mendelian Inheritance Patterns
9-8-95	ANHIS22 254	General Histology I/Piesco	Population Genetics Concepts
12-12-95		Molec and Hum Genet/Hoffe (Medical Students)	Population Genetics
12-13-95		Molec and Hum Genet/Hoffe (Medical Students)	Recurrence Risk
4-3,4-8, 4-10-96	HUGEN2 022	Human Population Genetics/Weeks	Ascertainment and Segregation Analysis
12-10-96		Molec and Hum Genet/Hoffe (Medical Genetics)	Population Genetics
12-10-96		Molec and Hum Genet/Hoffe (Medical Genetics)	Recurrence Risk
2-5,2-10, 2-12-97	HUGEN2 022	Human Population Genetics/Weeks	Ascertainment and Segregation Analysis
12-9-97		Molec and Hum Genet/Hoffe (Medical Students)	Population Genetics
12-9-97		Molec and Hum Genet/Hoffe (Medical Students)	Recurrence Risk
3-18,3-23, 3-25-98	HUGEN2 022	Human Population Genetics/Weeks	Ascertainment and Segregation Analysis

4-2-98	BHVSCI5 243	Behavioral Medicine II/Berk	The Cleft Palate-Craniofacial Center: A Model for Multidisciplinary Team Treatment
10-05-98	HUGEN2 022	Human Population Genetics/Weeks	Segregation Analyses I have known
12-8-98		Molec and Hum Genet/Surti (Medical Students)	Population Genetics
12-8-98		Molec and Hum Genet/Surti (Medical Students)	Recurrence Risk
12-7-99		Molec and Hum Genet/Surti (Medical Students)	Population Genetics
12-7-99		Molec and Hum Genet/Surti (Medical Students)	Recurrence Risk
5-10-00, 5- 17-00, 5- 24-00		Pediatric DentistryResidents	Introduction to Human Genetics
12-8-00		Molec and Hum Genet/Surti (Medical Students)	Population Genetics
12-8-00		Molec and Hum Genet/Surti (Medical Students)	Recurrence Risk
01-28-05	DENT 5340	Current Topics in Oral Health Research/Maher	Genetics of Orofacial Clefting
02-28-05	DENT 2140	Craniofacial Anomalies/Petrone	Nonsyndromic Orofacial Clefting
01-13-05	DENT 5340	Current Topics in Oral Health Research/Maher	Genetics of Orofacial Clefting

SEMINARS:

(Formal seminars, CME's, from 1986)

Date	Organization	Event	Title of presentation
10-6-86	Virginia Health Department	CME course	Genetic epidemiology
2-25-87	Richmond Cleft Palate Assoc.	Seminar	VaCARES and children with clefts
3-4-87	Action for Prevention	Seminar	VaCARES
4-1-87	M.C.V. Human Genetics	Seminar	A method using simulated test data to interpret the results of complex segregation analysis
4-15-87	Eastern Va. Med. School	Seminar	Genetic analysis of cleft lip with or without cleft palate in three populations
10-17-88	M.C.V. Human Genetics	Seminar	Linkage studies of serum cholinesterase
9-22-89	Johns Hopkins University	Seminar	Family studies of cleft lip with or without cleft palate in Shanghai,

			China
5-6-90	University of Pennsylvania	Seminar	Genetic analysis of cleft lip with or without cleft palate in Shanghai, China
2-28-91	V.I.D.D.	Colloquium	VaCARES
6-25-91	Gordon conference	Conference	Genetic segregation analysis of 84 families ascertained through probands with early-onset periodontitis
1-8-92	MICHP Data Conference	Conference	Invited panelist regarding the Virginia birth defects registry
8-12-92	University of Pittsburgh	Seminar	Genetic analysis of cleft lip with or without cleft palate in Shanghai, China
9-16-92	CDC Birth Defects Workshop	Conference	Delivery of Health Care Services (VaCARES Parent Contact Program)
10-9-92	Johns Hopkins University	Seminar	Genetics of early-onset periodontitis in Virginia
11-9-92	American Society of Human Genetics	Workshop	Nonsyndromic cleft lip with or without cleft palate ** I organized and moderated this workshop for the November ASHG meeting, and gave one of the presentations during the workshop
1993	University of Iowa, University of Pittsburgh, Johns Hopkins University, University of Michigan	Seminars	(Interviewing for positions)
3-18-94	Foster Grandparents program	Seminar	University of Pittsburgh Cleft Palate Craniofacial Center
3-24-94	Department of Communications (Univ. of Pittsburgh)	Seminar	Genetics of cleft lip and palate
6-8-94	Univ of Pittsburgh, CPCC	Grand Rounds	Genetic studies of non-syndromic cleft lip with or without cleft palate
9-14-94	Univ of Pittsburgh, CPCC	Grand Rounds	Detecting developmental genes in populations
10-23-94	Minority Educational Opportunities and Professional Development Conference, U of Pittsburgh	Seminar	Genetic and Epidemiological approaches to complex human diseases
6-14-95	Univ of Pittsburgh, CPCC	Grand Rounds	Update on the genetics of nonsyndromic CLP
11-29-95	Univ of Pittsburgh, Ped ENT	Seminar	Cleft lip associated with cancer in families
3-29-96	Univ of Pitt, Human	Seminar	Genetic and Environmental factors in

	Genetics		the etiology of early-onset periodontitis
3-30-96	joint ACPA/U of Pitt CPCC	CME-nurses	The Birth Defect: Allaying Fears through Information **I helped organize the course (<i>Caring for an Infant with a Cleft: the First Few Weeks of Life</i>), co-chaired and moderated the course, and gave the above-listed one-hour lecture as part of the course
5-3-96	Univ of Pittsburgh, CPCC	CE-Speech, Radiology	Videofluoroscopic Evaluation of Velopharyngeal Function** I developed the course with input from the CPCC staff and chaired the course.
12-96	Univ of Pittsburgh Maxillofacial Dept	Seminar	Genetics of cleft lip and palate
2-28-97	Shanghai-NIDR and IADR sponsored, First Chinese International Conference on Dental Research	Invited lecture	Genetics of cleft lip with or without cleft palate in Shanghai, China: An international collaboration
6-10-97	Ohio State Univ, College of Dental Medicine	Seminar	Cleft lip with or without cleft palate in Shanghai, China
9-12-97	Eerie Cleft Palate Clinic	In-service	Role of genetics on the cleft palate team
10-16-97	Univ of Pitt, ASDA	Grand Rounds	Cleft Palate-Craniofacial Center—Interdisciplinary care
11-17-97	Univ of Pitt Maxillofac Prosthodontics Residents	Seminar	Cleft palate etiology and genetic considerations
9-26-98	PA Federation of CPC's	Seminar	Craniofacial Outcomes Research
6-11-99	Univ of Iowa, Dental Med.	Seminar	Phenotypic features associated with cleft lip with or without cleft palate
9-99	NIDCR, Prevention of Craniofacial Anomalies	Invited speaker	Overview: Genetic Mapping Studies
11-23-00	NIDCR, Genetics of Clefts	Moderator	Session moderator
3-3-00	Beijing, China, Smile Train Symposium	Keynote speaker	Genetics of nonsyndromic cleft lip and palate in China
3-5-00	Beijing Medical University	Seminar	Genetic studies in Shanghai: cleft lip and palate
4-13-00	Univ of Pitt, Clinical Genetics Case Conference	Seminar	Phenotypic features associated with cleft lip and cleft palate
5-2-00	Univ of Pitt, Division of Oral Biology	Seminar	Genetics of nonsyndromic cleft lip and palate in China
6-8-00	NIDCR, Hal Slavkin Retirement Symposium	Keynote speaker	Craniofacial Genetics: where we were and where we are going
11-6-00	W.H.O., International	Keynote	TDT and other nonparametric

	Research on Craniofacial Anomalies	speaker	approaches for gene mapping studies of craniofacial anomalies
01-18-01	Univ of Pitt, Cleft Palate-Craniofacial Ctr	Seminar	Update: Genetics of cleft lip with or without cleft palate
02-13-02	West Virginia Univ., School of Dentistry	Keynote speaker at Research Symposium	Comparative genome scans for cleft lip and palate genes in Chinese and Turkish families
04-19-02	Univ of Iowa, School of Medicine	Center Grant Symposium	Cleft lip and palate families: phenotype and genetics
06-17-02	Univ of Michigan, School of Dentistry	Seminar	Genetics of cleft lip and palate: an international perspective
11-04-03	Society of Craniofacial Genetics	Symposium	Meta-analysis of genome scans for cleft lip with or without cleft palate
03-05-04	American College of Medical Genetics	March of Dimes Symposium on Craniofacial Disorders	Social and Behavioral Aspects of Craniofacial Anomalies
04-13-04	Univ of Pittsburgh, School of Dental Medicine	Annual Research Symposium	Meta-analysis of genome scans for cleft lip with or without cleft palate
04-21-04	Univ of Pittsburgh, Department of Plastic Surgery	Grand Rounds	Genetics of Orofacial Clefts
09-11-04	PA Federation of Cleft Palate Clinics	Annual Meeting	Genetics of Clefting
12-04-04	WHO International Research on Craniofacial Anomalies	Keynote speaker	Logistical Issues in Establishing International Studies of the Genetics of Oral Clefts
12-14-04	Univ. of Iowa School of Dentistry	Seminar	Multidisciplinary Paradigm for Oral Health Research
12-15-04	Univ of Iowa Craniofacial Research Center	Annual Meeting	Extended Phenotype for Orofacial Clefting
02-08-05	West Virginia University School of Dentistry	Keynote speaker at Research Symposium	COHRA: Multidisciplinary Paradigm for Oral Health Research
04-14-05	Univ of Pittsburgh School of Dental Medicine	Research Grand Rounds	Expanded phenotype for cleft lip and cleft palate genetic studies
05-04-05	National Oral Health Conference	Genetic Epidemiolo	Genetic Epidemiology Approaches and Study Design

		gy Symposium	
01-27-06	Gordon Conference		Current Concepts in the Genetics of Nonsyndromic Orofacial Clefting
02-02-06	University of Colorado Human Medical Genetics Program	Dr. Evageline Heaton Lecture in the Molecular Genetics of Birth Defects	Phenotype and Genetics of Nonsyndromic Orofacial Clefting
03-10-06	AADR	Symposium, Recent Advances in the Etiology of Craniofacial Anomalies	Expanding the Phenotype of Orofacial Clefts
09-07-06	COAST	Keynote Speaker	Subclinical Features in Cleft Lip with or without Cleft Palate
09-27-06	IBM Research	Seminar	Cleft Lip and Palate, Linkage, Association and Computational Challenges
5-17-07	Univ of Pittsburgh, Clinical and Translational Sciences Institute	CTSI Science Day, panel discussion on “Clinical and Translation Science: Research through the Continuum”	Expanded Phenotypic Features in Nonsyndromic Orofacial Clefts: Translation to Clinical Practice
5-30-07	Univ of Pittsburgh Medical Center, Braddock	Community Advisory Board	Oral Heal Disparities: Community-Based Interventions
10-12-07	Univ of Pittsburgh	Science2007	Genome-wide association studies abroad: the importance of collaboration and study design
11-25-07	Beijing, China; International Foundation of Cleft Lip and Palate	Keynote speaker	Genetic and phenotype studies in non-syndromic cleft lip with or without cleft palate
02-01-08	Univ of Pittsburgh	Human	Expanded subclinical phenotypic

		Genetics seminar	features in cleft lip and palate
04-05-08	AADR	NIDCR, 60 th Anniversary Symposium	Genetic and phenotypic studies of non-syndromic cleft lip with or without cleft palate
10-09-08	Cartagena de Indias, Colombia	I Congreso Latino Americano de Genetica Humana IX Congreso Colombiano de Genetica (9 th annual Human Genetics Conf, Colombia)	<i>Orbicularis oris</i> , Dermatoglyphics, and Speech in Oral Clefts and Relatives
11-20-08	Rio di Janeiro, Brazil	40 th Reuniao Annual do ECLAMC	Subclinical Phenotypes in Orofacial Cleft Families
03-23-09	University of Iowa	Department of Pediatrics	Sub-clinical Phenotypes in Orofacial Cleft Families and Controls
04-01-09	NIDCR	CAN-DO consortium	Genetic and Other Associations with Dental Caries in the Mixed Dentition
04-18-09	Lexington, KY	Children of the Americas (COTA) Board Meeting	Orofacial Cleft Families Phenotypes and Genetics: Guatemala Partnership with COTA
10-20-09	Honolulu, HI	Society of Craniofacial Genetics	FaceBase Project: Introduction
11-14-09	Atlanta, GA	National Society of Genetic Counsellors Meeting	Keynote Speaker: Phenotype and Genetics of Cleft and Cleft Palate
04-08-10	University of Pittsburgh	Center for Dental Informatics	Seminar: Family studies of cleft lip and cleft palate
07-15-10	Barcelona, Spain	International	Symposium: Feasibility of Large Genetic Population-based Studies on

		Association of Dental Research Symposium: “New Directions in Cariology Research”	Caries.
09-16-10	The Children’s Hospital of Denver	Grand Rounds	Overview: Phenotype and Genetics of Nonsyndromic Cleft Lip/Palate
01-24-11	National Advisory Dental and Craniofacial Research Council	Invited Speaker	Genetics of Dental Caries
02-16-11	University of Southern California, School of Dentistry	Keynote Speaker, Annual Research Day	Phenotypes and Genetics of Nonsyndromic Cleft Lip/Palate
02-21-11	American Association for the Advancement of Science, Annual Meeting, February 17-21, 2011; Washington, DC	Invited Speaker Symposium on “Oral Clefts: Equal Opportunity Disorders”	Insights into the Genetics and Phenotypes of Cleft Lip and Palate from International Collaboration
04-14-11	The Forsyth Institute, Harvard University	Invited Seminar Speaker	Genetics of Dental Caries
04-14-11	University of Pittsburgh, 2011 Forum Women in Medicine and Science	Invited Panelist	Professional Life Stories and Other Adventures Along the Way
05-18-2011	University of Pittsburgh, School of Dental Medicine, Annual Research Symposium	Invited Speaker	Genetics and Phenotypes of Nonsyndromic Cleft Lip/Palate (in honor of receipt of Chancellor’s Distinguished Research Award)
07-08-11	University of Pittsburgh Biomedical IRB	Invited Speaker	Current Genetics Research Methods
07-13-11	University of Pittsburgh, Summer Institute on Biostatistics	Invited Speaker	Oral Health and Disease: Epidemiology and Genetics

03-22-12	University of Pittsburgh, 2012 Women in Medicine and Science Forum	Invited Moderator	What you Need to Know to Advance your Academic Career
03-25-12	75 th Anniversary of Albert Szent-Györgyi's Nobel Prize Award	Invited Speaker	Velopharyngeal insufficiency (VPI) in relatives of individuals with cleft – lip/palate (CL/CP)
06-22-12	Building Bridges: Research Around the World, Sponsored by the Pitt Biomedical IRB	Invited Speaker	Lessons Learned from 25 Year of International Studies: Perspectives from a Research Team
11-16-12	AADR Fall-Focused Symposium	Invited Speaker	Cleft Lip and Palate: From SNPs to Diagnostic Testing?
12-06-12	Friends of the NIDCR Annual Conference	Invited Speaker	Oral Health in Appalachia: GWAS of Dental Caries (Tooth Surface- Specific)
12-13-12	University of Pennsylvania School of Dental Medicine	Invited Speaker, Levy Research Seminar	Phenotypes and Genetics of Dental Caries
04-08-13	Hungarian National Institute for Health Development	Invited Speaker	A U.S. and Hungarian Research Partnership: Genetic and Phenotype Studies of Cleft Lip and Palate
07-03-13	University of Pittsburgh, Summer Institute on Biostatistics	Invited Speaker	Oral Health and Disease: Epidemiology and Genetics
03-21-14	AADR Symposium: Pediatric Oral Health Research	Invited Speaker	Advances in genetics and pediatric oral health applications
07-02-14	University of Pittsburgh, Summer Institute on Biostatistics	Invited Speaker	Oral Health and Disease: Epidemiology and Genetics
09-17-14	National Advisory Dental and Craniofacial Research Council	Invited Speaker	Big Data from a User's Perspective
03-06-15	AADR/IADR Annual Meeting	Symposium Speaker	Genetic Factors for Dental Caries in Children and Adults
07-01-15	University of Pittsburgh, Summer Institute on Biostatistics	Invited Speaker	Oral health and Disease: Introduction

11-12-15	The Swedental & The Annual Dental Congress, Gothenburg, Sweden	Invited Speaker	Genetics and Phenotypes of Dental Caries
06-15-16	University of Pittsburgh Office of Research	Invited Speaker	Research at the Center for Craniofacial and Dental Genetics
06-30-16	EUROcleftNet Research Conference, Dundee, Scotland	Invited Speaker	GWAS studies in OFC with a focus on ethnic variations
07-01-16	EUROcleftNet Research Conference, Dundee, Scotland	Invited Speaker	Subclinical phenotypic features within cleft families – the value to genetics research
07-02-16	FaceGene Workshop, Dundee, Scotland	Invited Speaker	How FaceBase can inform studies of normal facial variation
02-11-18	Gordon Research Conference on Craniofacial Morphogenesis and Tissue Engineering, Lucca, Italy	Invited Keynote Speaker	Genomics and Phenomics in Orofacial Cleft Families
04-10-18	Center for Craniofacial and Dental Genetics, University of Pittsburgh, State of Science Symposium (OFC Genetics)	Organizer and Moderator	Background on the History of OFC Genetic Studies
07-27-18	Craniofacial Biology Section: 96th General Session and Exhibition of the IADR, London, England, July 25-28, 2018	Invited Keynote Speaker	Craniofacial Biology: Genomic and Phenotypic Studies in Orofacial Cleft Families
09-13-18	University of Pittsburgh, Interdepartmental Human Genetics Retreat	Invited Speaker	Research at the Center for Craniofacial and Dental Genetics
11-08-18	9 th AADR Fall-Focused Symposium: “ <i>Advances in Precision Oral Health Research</i> ” November 8-9 2018	Invited Speaker	Genomic Studies of Dental Caries through the Life Course
12-03-19	University of Michigan, School of Dentistry Seminar Series	Invited Speaker	Studies of Orofacial Cleft Birth Defects, and of Dental Caries in the Pitt Center for Craniofacial and Dental Genetics
12-06-19	University of Michigan, Epidemiology Departmental	Invited Speaker	Genetic Epidemiology of Orofacial Cleft (OFC) Birth Defects

	Seminar		
02-04-19	University of North Carolina, Chapel Hill, School of Dental Medicine Research Day	Invited Keynote Speaker	Genomic and Phenomic Studies in Orofacial Cleft Families
02-14-19	Pediatric Grand Rounds at the Children's Hospital of Pittsburgh, UPMC	Invited Speaker	Factors Contributing to Childhood Oral Health and Disease in Northern Appalachia
03-27-19	University of Michigan, Epidemiology Departmental Seminar	Invited Speaker	Research at the Center for Craniofacial and Dental Genetics

RESEARCH GRANT FUNDING:			
OVERALL SUMMARY, AS OF APRIL 25, 2019			
	AS PD/PI	AS Co-I **	TOTAL
CAREER TOTAL -- NUMBER OF GRANTS RECEIVED	53	41	94
CURRENT FUNDING (TOTAL FUNDS)	\$29,544,265	\$2,102,969	\$31,657,234
COMPLETED FUNDING (TOTAL FUNDS)	\$44,165,962	\$41,905,531	\$86,071,493
CAREER TOTAL FUNDING	\$73,710,227	\$44,008,500	\$117,728,727
CURRENT GRANTS, EQUIVALENT FUNDS (E.G. GENOTYPING AWARDS)	\$4,334,100	\$584,120	\$4,918,220
COMPLETED GRANTS, EQUIVALENT FUNDS (E.G. GENOTYPING AWARDS)	\$7,750,000	\$3,900,000	\$11,650,000
CAREER TOTAL EQUIVALENT FUNDS	\$12,084,100	\$4,484,120	\$16,568,220
“TOTAL FUNDS” = SUM OF ALL YEARS, DIRECT COSTS PLUS INDIRECT COSTS ** NOTE, FOR CO-I GRANTS THE TOTAL GRANT FUNDS ARE LISTED; ALSO NOTE-- AS SEEN IN THE THE DETAILED TABLES BELOW, SOME OF THE CO-I GRANT AMOUNTS ARE UNKNOWN.			

DETAILS OF EXTERNAL GRANTS:

CURRENTLY ACTIVE GRANTS				
Grant #	Grant title	Role and calendar effort	Years inclusive	Source
5R01-DE016148 (PD/PI Marazita)	Extending the Phenotype of Nonsyndromic Orofacial Clefts	PD/PI, 1.8 cal	2014-2019	NIDCR
	TOTAL COSTS: \$11,775,647			
5R01-DE014899 (PD/PI Marazita, McNeil, Foxman)	Factors contributing to oral health disparities in Appalachia	PD/PI, 1.8 cal	2016-2021	NIDCR
	TOTAL COSTS: \$12,354,738			
5R01- DE014899-14S1 (PD/PI Marazita, McNeil, Foxman)	Factors contributing to Oral Health Disparities in Appalachia” (competing revision)	PD/PI, 1.2 cal	2017-2021	NIH/ NIDCR
	TOTAL COSTS: \$3,948,963			

CURRENTLY ACTIVE GRANTS				
Grant #	Grant title	Role and calendar effort	Years inclusive	Source
U01-DE024425 (PD/PI Marazita)	Human genomics analysis interface for Facebase 2	PD/PI, 0.6 cal	2014-2019	NIDCR
	TOTAL COSTS: \$1,155,000			
R03-DE024264 (PD/PI Shaffer)	Modeling childhood dental caries patterns for genomic and epigenetic analysis	Co-I, 0.6 cal	2014-2019	NIDCR
	TOTAL COSTS: \$250,000			
X01-HL132363 (PD/PI Marazita, Feingold)	Kids First: Genomic Studies of Orofacial Cleft Birth Defects	PD/PI N/A (sequencing only)	2015-2020	NHLBI/ NIH Off of Director
	No Funds, Whole Genome Sequencing of 1,000 Samples: Equivalent Cost of \$1,200,000			
5R03-DE026469 (PD/PI Marazita, Feingold)	Analysis of Whole Genome Sequence Data in Orofacial Clefts	PD/PI 0.6 cal	2016-2019	NIDCR
	TOTAL COSTS: \$309,917			
X01-HL136465 (PD/PI Marazita, Feingold)	Kids First: Genomics of Orofacial Cleft Birth Defects in Latin American Families	PD/PI N/A (sequencing only)	2016-2021	NHLBI/ NIH Off of Director
	No Funds, Whole Genome Sequencing of 795 Samples: Equivalent Cost \$954,000			
1X01-HG009878 (PD/PI Shaffer, Feingold)	Genomic Studies of Oral Health and Disease	Co-I n/a (genotyping only)	2017-2019	NIDCR/ CIDR
	No Funds, GWAS genotyping of 2,374 Samples: Equivalent Cost of \$427,320; Exome genotyping of 3,136 samples: Equivalent Cost of \$156,800. TOTAL Equivalent Cost=\$584,120			
1R01-DE027023 (PD/PI Weinberg, Shaffer)	The Genetic Architecture of Human Facial Morphology	Co-I 0.6 cal	2017-2020	NIDCR
	TOTAL COSTS: \$1,757,709			
R01-DE027983 (PD/PI Liao)	Genomic and Functional Analysis of IRF6 target Genes in Orofacial Cleft Pathogenesis	Co-I	2019-2024	NIDCR
	TOTAL COSTS: \$4,008,722 Marazita Subcontract Total Costs: \$95,260			

CURRENTLY ACTIVE GRANTS				
Grant #	Grant title	Role and calendar effort	Years inclusive	Source
X01-HG010835 (PD/PI Leslie, Marazita)	Discovering the genetic basis of cleft palate	PD/PI n/a (sequencing only)	2019-2022	NIDCR
	No Funds, Whole Genome Sequencing of 1,677 Samples: Equivalent Cost of \$2,180,100			

APPLICATIONS SUBMITTED, PENDING REVIEW				
Grant #	Grant title	Role and % effort	Years inclusive	Source
PA-19-056 (PD/PI Foxman, Marazita)	Metals, Microbes and Dental Caries	PD/PI 0.6 cal	2019-2024	NIDCR
PA-19-056 (R01)	Genetics and Genomics of African Facial Variation	Co-I	2019-2024	NIDCR
PAR-19-104 (X01) (PD/PIs Leslie, Marazita, Murray)	Genomics of Orofacial Clefts in the Philippines	PD/PI n/a (sequencing only)	2019-2024	NHLBI
APPLICATIONS PLANNED FOR RESUBMISSION				
R01-DE027298 (PD/PI Marazita, Weinberg, Mossey)	Genomic Studies of Facial and Oral Phenotypes	PD/PI 1.8 cal	2019-2024	NIDCR
R01-HD094730 (PD/PI Beaty, Marazita, Ruczinski)	Searching for the Genes Controlling Risk to Multiple Birth Defects	PD/PI 1.2 cal	2019-2024	NICHD

COMPLETED EXTERNAL GRANTS				
Grant #	Grant title	Role and % effort	Years inclusive	Source
1-R01-DE-007062 (PI Spence)	Cleft Lip and Palate in Los Angeles Hispanics	Co-I, 25%	1985-1990	NIDR
	TOTAL COSTS: \$219,697			
	Clinical Research Center in Periodontal Disease	Co-I, 10%	1986-1989	NIDR
	Genetic Testing and Counseling Program	Co-I, 5%	1986-1993	VA Dept. of Health
1-R01-DE-007360 (PI Melnick)	Oral-Facial Clefts in China: A Family Study	Co-I, 10%	1986-1990	NIDR
	TOTAL COSTS: \$657,854			
P01-DE008972 (PI Schenkein)	Periodontal Disease Research Program Project Grant	Co-I, 10%	1989-1993	NIDR
	TOTAL COSTS: \$4,855,944			
R01-DC000038 (PI Nance)	Linkage Studies of Waardenburg Syndrome	Co-I, 5%	1990-1995	NIDCD
	TOTAL COSTS: \$1,525,000			
	Improving family resources in a cleft palate-craniofacial center	P.I., 5%	1995-1996	PA Dept of Health
	Communicating outcome assessments to cleft palate-craniofacial patients	Co-P.I., 5%	1995-1996	PA Dept of Health
	Cleft palate-craniofacial services	P.I., 20%	1994-1996	Jewish Healthcare Fdn.
Canadian MRC (PI Field)	Linkage studies of cleft lip and palate in India	Co-I, 10%	1992-1998	Canadian MRC
	TOTAL COSTS: \$1,000,000			
R01-DE009886 (PI Marazita)	Mapping studies of oral-facial clefts in China	P.I., 20%	1992-1997	NIDR
	TOTAL COSTS: \$1,217,688			
R01-DE009886	Mapping studies of oral-facial clefts in	P.I., 20%	1992-	NIDR

(PI Marazita)	China (Supplements 03S1, 04S1, 05S1, 05S2)		1997	
	TOTAL COSTS: \$143,485			
R01-DE008559 (PI Murray)	Molecular genetic epidemiology of cleft lip and palate	Co-I	1997-2000	NIDCR
	TOTAL COSTS: \$ 800,000			
	Genome scan for regions involved in cleft lip and cleft palate	Co-P.I.	1998-1999	Marshfield Lab.
	No Funds, whole genome linkage panel genotyping provided, Equivalent Costs ~ \$1,500,000			
P50-DC002746 (PI Murray)	Genetics of Specific Language Impairment	Co-I., 5%	1995-1999	NIDCD
	TOTAL COSTS: \$1,250,000			
	Genome scan for regions involved in dyslexia	Co-I., na	1999-2000	CIDR
	Smile Train Undergraduate Internship Program, Summer 2000	P.I, na	1999-2000	Smile Train
	Smile Train Postdoctoral Fellowship	P.I., na	2000-2001	Smile Train
R01-DE012514 (PI Philips)	Registry of outcome assessment data for cleft/craniofacial patients	Co-I, 5%	1998-2002	NIDCR
	TOTAL COSTS: \$3,364,083			
Center for Inherited Disease Research Access Grant	Genome scan for cleft lip loci: a multicenter, international consortium	Co-PI	2001-2003	NIH/ CIDR
	No Funds, whole genome linkage panel genotyping provided, Equivalent Costs ~ \$1,700,000			
R01-MH060866 (PI Zubenko)	Genetics of early-onset recurrent depression	Co-I	1999-202	NIMH/ CIDR
	TOTAL COSTS: \$1,339,24			
R01-DE012472 (PI Marazita)	Homozygosity mapping of oral-facial clefts in Turkey	P.I., 15%	1998-2003	NIDCR
	TOTAL COSTS: \$758,481			
P60-DE013076 (PIs Murray, Marazita)	A comprehensive program to investigate craniofacial and dental anomalies: Project 7: Oral-facial cleft families:Phenotype and Genetics; Core B: Biostatistics and Experimental Design Core	P.I. on Project 7 (10%), co-P.I. on Core B (5%)	1999-2004	NIDCR
	TOTAL COSTS: \$10,183,713 Marazita subcontract COSTS: \$712,722			
P50-DA005605 (PI Vanyukov)	Center for Education and Drug Abuse Research (CEDAR): Genetics Module	Co-I, 5%	1999-2004	NIDA

	TOTAL COSTS: \$1,132, 175			
1R24-DE015502 (PI Marazita)	Univ of Pittsburgh SDM Research Infrastructure Planning grant	PI	2003- 2004	NIDCR
	TOTAL COSTS: \$760,953			
2-R01- DE-008559 (PI Murray)	Molecular genetic epidemiology of cleft lip and palate	Co-I., 10%	2000- 2003	NIDCR
	TOTAL COSTS: \$1,521,691			
2-R01-DE-009886 (PI Marazita)	Genetic studies of Oral-Facial Clefts in China & India	P.I., 20%	1998- 2002	NIDCR
	TOTAL COSTS: \$1,818,8225			
1-T35-DE07336 (PI Mooney)	Short-term training grant for dental students	Co-I, na	2000- 2005	NIDCR
1-R01 ES10876 (PI Murray)	Comprehensive sequence evaluation of cleft lip and palate	Co-I, 5%	2000- 2005	NIEHS
1-R01 DK62252 (PI Marazita)	Genotype and Phenotype of Familial Nephropathy with Gout	PI, 5%	2004- 2005	NIDDK
	TOTAL COSTS: \$499,304			
1-K12-DE14528	Harvard-SDM/ForsythScholar/Faculty Development Program	Co-I	2002- 2006	NIDCR
March of Dimes	Gene/environment interactions in prematurity	Co-I	2005- 2007	March of Dimes
The Institute for Genomic Research (PI Marazita, Foxman)	Comparative hybridization of <i>S. mutans</i> from high- and low-carries risk Appalachian families versus <i>S. mutans</i> strain UA159	PI	2006- 2007	TIGR/ NIDCR/ NIH
	No Funds, Hybridiazation of <i>S mutans</i> strains: Equivalent Cost \$280,000			
1-R21-DE016930 (PI Marazita)	Planning International Orofacial Cleft Genetic Studies	P.I., 5%	2006- 2008	NIDCR
	TOTAL COSTS: \$292,694			
Center for Inherited Disease Research Illumina Pilot Study Grant (PI Marazita, Murray)	Fine-mapping (Illumina panels) for cleft lip loci: a multicenter, international consortium	Co-PI	2004- 2006	NIH/ CIDR
	No Funds, Fine-mapping of Samples: Equivalent Cost \$400,000			
1-R01-DE016148 (PI Marazita)	Extending the phenotype of nonsyndromic orofacial clefts	PI, 10%	2004- 2006	NIDCR
	TOTAL COSTS: \$1,074,033			
Center for Inherited Disease	Candidate gene analysis of maternal effect genes for isolated cleft lip and	Co-I,	2004- 2006	NIH/ CIDR

Research Illumina	palate			
	No Funds, Candidate gene analysis of 1000 Samples: Equivalent Cost \$300,000			
2-R01-DE12101 (PI Levy)	Fluoride and Other Factors in Childhood Bone Development	Co-I, 5%	2004- 2007	NIDCR
	TOTAL COSTS: \$2,874,175			
1-R01-DA019157 (PI Vanyukov)	Substance use disorder liability: Candidate Gene Systems	Co-I., 10%	2004- 2009	NIDA
	TOTAL COSTS: \$2,151,009			
1-R01 DE014899 (PI Marazita)	Genetic Factors contributing to oral health disparities in Appalachia	PI, 20%	2002- 2009	NIDCR
	TOTAL COSTS: \$7,320,545			
1-R01-DE 014889- 03S1 (PI Marazita)	Psychosocial influences on rural children's Oral Health	PI, 5%	2004- 2009	NIDCR
	TOTAL COSTS: \$185,494			
1-R01-DE 014889- 04S1 (PI Marazita)	Oral Microbiology Studies in Appalachia	P.I., 5%	2006- 2009	NIDCR
	TOTAL COSTS: \$137,260			
CIDR contract (PI Marazita)	Whole Genome SNP Linkage Scan for Cleft Lip with or without Cleft Palate (CL/P) and Expanded Phenotypic Features	PI	2007- 2009	NIH/CI DR
	No Funds, SNP Linkage panel of 3000 Samples: Equivalent Cost \$1,800,000			
3R01DE014899- 07S1 (PI Marazita)	Genetic Factors contributing to oral health disparities in Appalachia	PI, 10%	2009	NIDCR
	TOTAL COSTS: \$743,544			
1-P50-DE016215 (PIs Murray, Marazita)	Craniofacial Anomalies Research Center: Project 2: Phenotype and Genetics in Oral-facial cleft families Core C: Biostatistics Core	Co- Director, P.I. on Project 2 (10%), P.I. on Core C (5%)	2004- 2009	NIDCR
	TOTAL COSTS: \$10,044,629 Marazita COSTS: \$1,474,426			
1-R01-DE014667 (PI Lidral)	Genetics of Cleft Lip: A multicenter International Consortium	Co-I, 0.5 cal	2005- 2010	NIDCR
	TOTAL COSTS: \$524,000			
1-R01-DD000295 (PI Wehby)	Health outcomes and improved phenotypic characterization of cleft lip and palate	Co-I, 0.9 cal	2007- 2010	NIH and CDC
	TOTAL COSTS: \$1,500,000			

1-U01 DE017958 (PI Murray)	Oral Cleft Prevention Program	Co-I, 0.5 cal	2009-2010	NIDCR
	TOTAL COSTS: \$589,815			
U10-EY008893 (PI Zadnik)	Myopia Development in Children	Co-I, 0.5 cal	2006-2011	NIDCD
	TOTAL COSTS: \$6,488,850			
U10-EY008893-19S1 (PI Zadnik)	Myopia Development in Children—ARRA administrative Supplement	Co-I (n/a)	2009-2011	NIDCD
	TOTAL COST: \$100,000			
1-U01-HG00423 (PI Murray)	Genome Wide Association Studies of Prematurity and it's Complications	Co-I, 1.2 cal.	2007-2011	NHGRI
	No Funds, SNP GWAS panel of 3000 Samples: Equivalent Cost \$1,800,000			
1-U01-DE004425 (PI Beaty)	International Consortium, to Identify Genes and Interactions Controlling Oral Clefts	Consultant/Collaborator	2007-2011	NIDCR
	No Funds, SNP GWAS panel of 3000 Samples: Equivalent Cost \$1,800,000			
1-U01-DE018903 (PI Marazita)	Dental Caries: Whole Genome Association and Gene x Environment Studies	P.I., 10%	2007-2011	NIDCR
	TOTAL COSTS: \$1,124,543			
1-U01-DE018903-02S1 (PI Marazita)	Dental Caries: Whole Genome Association and Gene x Environment Studies—ARRA SUPPLEMENT	P.I., 4%	2010-2011	NIDCR
	TOTAL COSTS: \$100,000			
1-R01-HD052953 (PI Murray)	Identification of maternal and fetal genetic factors in preterm birth	Co-I, 0.5 cal	2006-2011	NICHHD
	TOTAL COSTS: \$2,823,231			
R01 (PI Simhan)	Nutrition and the Genetics of Prematurity	Consultant	2006-2011	NIDCD
2-R01-DE016148-05S2 (PI Marazita)	Extending the phenotype of nonsyndromic orofacial clefts—ARRA administrative sup	P.I. (n/a)	2008-2011	NIDCR
	TOTAL COSTS: \$100,000			
1-U01 DE017958-05 (PI Murray)	Oral Cleft Prevention Program	Co-I, 0.12 cal	2010-2011	NIDCR
	TOTAL COSTS: \$536,815			
6-FY08-260 March of Dimes (PI Murray)	Genetic Studies of Maternal/Fetal Effects in Prematurity	Co-I, 0.12 cal	2010-2011	March of Dimes
1-R03-DE020127 (PI: Cuenco)	Secondary Analyses using Network Techniques to Identify Risk Profiles for Oral Health and Disease	Co-I, 0.6 cal	2010-2012	NIDCR

	TOTAL COSTS: \$125,000			
21-FY10-180 March of Dimes (PI Murray)	A Population, Genomic and Environmental Variable Approach to Prematurity	Co-I, 0.12 cal	2010-2013	March of Dimes
NHMRC 607396 (co-PIs Kilpatrick, Savarirayan, Jugessur)	A subphenotyping approach to identifying genes responsible for isolated clefts of the lip and palate	Collaborator, Chief investigator or D	2010-2012	Australia NHMRC
	No Funds Allowed to USA.			
1-R01-HD-057192 (PI Murray)	A Family and Population Approach to Gene Discovery for Preterm Birth	Co-I, 0.3 cal	2009-2011	NICHD
	TOTAL COSTS: \$1,783,779			
Bill and Melinda Gates Foundation (PI Murray)	The Role of Cholesterol in Preterm Birth	Co-I, 0.6 cal	2009-2013	Gates Found.
6-FY08-260 March of Dimes (PI Murray)	Genetic Studies of Maternal/Fetal Effects in Prematurity	Co-I, 0.12 cal	2011-2013	March of Dimes
1-R03-DE021425 (PI Wang/Feingold)	Statistical Modeling and Genetic Epidemiology of Dental Caries in GWAS Analysis	Co-I, 0.6 cal	2011-2013	NIDCR
	TOTAL COSTS: \$250,000			
3-R37-DE-008559 (PI Murray)	Molecular genetic epidemiology of cleft lip and palate	Co-I, 0.6 cal	2004-2014	NIDCR
	TOTAL COSTS: \$6,499,398			
2-R01-DE016148	Extending the phenotype of nonsyndromic orofacial clefts	P.I., 1.2 cal	2008-2014	NIDCR
	TOTAL COSTS: \$3,920,034			
3R01DE016148-supplements (PI Marazita)	Extending the phenotype of nonsyndromic orofacial clefts (Supplements 05S1, 05S2, 06S1, 07S1, 08S1)	P.I., 1.8 cal	2008-2014	NIDCR
	TOTAL COSTS: \$1,853,429			
1U01DE020057-01 (PI Marazita, Murray)	FaceBase Management and Coordination Hub	Co-PD/PI, 1.2 cal	2009-2014 (NCE)	NIDCR
	TOTAL COSTS: \$8,943,649			
1U01DE020078-01 (PI Marazita, Weinberg)	3D Analysis of Normal Facial Variation: Data Repository and Genetics (Research)	Co-PD/PI, 0.6 cal	2009-2014 (NCE)	NIDCR
	TOTAL COSTS: \$1,936,713			
R01-DE08914 (PI Vieira)	Genetics of Caries	Co-I, 0.12 cal	2009-2014	NIDCR
1-U01-HG005925-01 (PI Murray,	Sequencing of Significant Signals from Cleft Lip GWAS	Co-PI , 0.24 cal	2010-2014	NHGRI

Marazita)			(NCE)	
	TOTAL COSTS: \$237,597, plus targeted sequencing of 1,800 samples, Equivalent value of \$1,800,000			
U01 DP003177-03(PI Bodnar)	Maternal Vitamin D Status and Preterm Birth	Co-I, 0.6 cal	2011-2014	CDC
1-X01-HG006177 (PI Beaty)	Whole Exome Sequencing in Multiplex Cleft Families from a Consortium	Co-I, no effort (sequencing only)	2010-2011	NHGRI
2-R01-DE014899 (PD/PI Marazita, McNeil, Foxman)	Factors contributing to oral health disparities in Appalachia	Co-PD/PI, 1.8 cal	2008-2015	NIDCR
	TOTAL COSTS: \$12,158,724			
R01- DE014899-12S1/S2 (PD/PI Marazita, McNeil, Foxman)	Factors contributing to Oral Health Disparities in Appalachia (Extension with Funding Supplements: 12S1, 12S2)	PD/PI, 1.8 cal	2015-2016	NIH/ NIDCR
	TOTAL COSTS: \$3,031,330			
X01-HG007845 (PD/PI Marazita)	Genetics of Orofacial Clefts and Related Phenotypes	PD/PI, n/a (genotyping only)	2013-2018	NHGRI/ NIDCR/ CIDR
	No Funds, SNP GWAS panel of 12,000 Samples: Equivalent Cost \$1,665,000			
March of Dimes (PI Dagle) #21-FY13-19	A Population, Genomic and Environmental Variable Approach to Prematurity	Co-I 0.36 cal	2013-2016	MOD
X01-HG007821 (PD/PIs Marazita, Weinberg, Feingold)	Genetic Analysis of Quantitative Facial Variation	PD/PI, n/a (genotyping only)	2014-2018	NHGRI/ NIDCR/ CIDR
	No Funds, SNP GWAS panel of 3,000 Samples: Equivalent Cost \$405,000			
RFA 67-29 (PD/PI Thomas)	Genetics of T1D Complications	Co-I, 0.12 cal	2015	NDRI (NIH)
	TOTAL COSTS: \$50,000			
1R56-DE027055 (PD/PI Shaffer)	Genetic Architecture of Dental Caries of the Permanent Dentition	Co-I 0.6 cal	2017-2018	NIDCR
	TOTAL COSTS: \$95,000			

INTRAMURAL GRANTS:**Active** **NONE****Pending** **NONE**

COMPLETED INTRAMURAL GRANTS				
Grant #	Grant title	Role and % effort	Years inclusive	Source
	Pilot case-control study of prenatal history and birth defects in Virginia	P.I., 10%	1991-1992	Franklin Fund of the MCV Foundation
	Genetics of Cleft lip and palate in China—travel grant	P.I., n/a	1994-1995	Univ. of Pittsburgh Chinese Studies Program Travel Grant
	Cleft Palate-Craniofacial research—equipment grant	P.I., n/a	1994-1995	Univ. of Pittsburgh School of Dental Medicine Equipment Grant
RR00084	Oral-Facial Cleft Families: Phenotype and Genetics	PI, n/a	2000-2007	Children's Hospital of Pittsburgh GCRC, protocol #321

OTHER RESEARCH RELATED ACTIVITIES:**Journal Referee:**

Grant #	Grant title	Role and % effort	Years	Source
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American Journal of Human Genetics
 American Journal of Medical Genetics
 Cleft Palate-Craniofacial Journal
 Cytogenetics and Cell Genetics
 European Journal of Human Genetics
 Genetic Epidemiology
 Genetics in Medicine
 Genomics
 Human Genetics
 Human Heredity
 Human Molecular Genetics
 Journal of Craniofacial Genetics and Developmental Biology
 Journal of Dental Research
 Journal of Fluency Disorder Journal of Medical Genetics
 Journal of Periodontology
 The Lancet

Grant Reviewer:

September, 1988 Ad hoc Study Section to review applications for Research Centers in Craniofacial Genetics, National Institutes of Health
 October, 1991 Special Study Section for NIH Epidemiology and Disease Control
 Study Section 2
 July, 1992 Special Study Section for NIH Epidemiology and Disease Control Study Sections 1 and 2
 September, 1992 NIH Oral Biology and Medicine Study Section 1
 February, 1993 Ad hoc member, Oral Biology and Medicine I
 February, 1996 Ad hoc member, Oral Biology and Medicine II
 September 5, 1996 Member, NIDR Special Emphasis Review panel
 November 4-5, 1996 Ad Hoc member, Oral Biology and Medicine II
 June 22-25, 1997 Member, NIDR panel on the agenda for the institute in the area of craniofacial genetics
 February 10-12, 1999 Ad hoc member, Mammalian Genetics Study Section
 April, 1999 Ad hoc member, Special Study Section, NIDCR
 May, 1999 Ad hoc member, Special Study Section, NIDCD
 June 8, 2000 Chair, special emphasis review panel, NIDCR
 September 6-9, 2000 Center for Inherited Disease Research, Access Committee, NIH
 March 28-30, 2001 NIGMS Advisory Committee Meeting (Coriell Working Group)
 2001-2005 Grant reviewer and Member, Center for Inherited Disease (CIDR),

June, 2003	Research Access Committee, NHGRI
September, 2004	Grant reviewer, Wellcome Trust (England)
May, 2005	Grant reviewer, Thrasher Research Foundation
October, 2005	Grant reviewer, Telethon (Italy) Research Foundation
Section	Conference Grant Reviewer, NIH NIDCR Special Emphasis Study
November, 2005	Mail-in reviewer for ZRG1 JRP-Q, NIH Infectious Disease, Reproductive Health, Asthma, and Pulmonary Epidemiology (ZRG1 IRAP-Q 01 Q), Health of the Population (HOP) Integrated Review Group
November, 2005	Grant reviewer, GOKinD (Genetics of Kidney Disease in Diabetes) grant program of the Juvenile Diabetes Research Foundation
June, 2006	Grant reviewer, GOKinD (Genetics of Kidney Disease in Diabetes) grant program of the Juvenile Diabetes Research Foundation
July, 2006	Ad hoc reviewer, ZRG1 JRP-Q, NIH Infectious Disease, Reproductive Health, Asthma, and Pulmonary Epidemiology (ZRG1 IRAP-Q 01 Q), Health of the Population (HOP) Integrated Review Group
January, 2008	Ad hoc reviewer, CIDR Access Committee, NHGRI
May, 2008	Reviewer LRP, NIDCR

CURRENT RESEARCH INTERESTS:

My primary research interest is in the genetics of cleft lip, cleft palate and other craniofacial anomalies. I am applying a coordinated approach exploiting both statistical and molecular tools to investigate the etiology of these complex, common, congenital anomalies. In addition, I am investigating families ascertained through several international collaborations (e.g., Colombia, Nigeria, various European countries, China, Turkey, India, Canada, the Philippines, Jordan).

Another major area of current investigation is genetic, microbiological, and epidemiological factors that contribute to poor oral health (caries, periodontal disease) in Appalachia.

I also have active research collaborations in the genetics of several behavioral and psychiatric traits, as well as several other human disorders (e.g., premature birth, autonomic nervous system dysfunction, otitis media).

MAJOR SERVICE:

UNIVERSITY:

Committees:

Medical College of Virginia

1986 – 1988	Coordinator, Department of Human Genetics BRS Online Database Searching Facility Patient Database Committee of MCV
1986 – 1990	Masters of Public Health Committee
1988 – 1993	Subject Matter (Epidemiology/Biostatistics) Committee
1989 – 1991	School of Basic Health Sciences Faculty Committee
1990 – 1992	Department of Human Genetics Goals and Mission Committee
1991 – 1992	Department of Human Genetics Curriculum Committee
1992 – 1993	School of Dentistry Academic Performance Committee

University of Pittsburgh

1993 – 2000	Executive Committee, Cleft Palate-Craniofacial Center, School of Dental Medicine Executive Committee, Division of Surgical Dental Sciences, SDM Associate Director for Research, Division of Surgical Dental Sciences, SDM
1993 – 2013	Member, Executive Committee, SDM Member, Research Committee, Cleft Palate-Craniofacial Center
1994 – 1999	Chairman Search Committees, Orthodontics, Periodontics, Pedodontics, SDM Promotion and Tenure Committees for various SDM Medicine faculty
1995 – 1997	Junior Faculty Search Committees, Orthodontics, Pedodontics, SDM
1995 – 2013	Research Committee, SDM
1996 – 1997	Periodontal Faculty Search Committee (three positions), SDM Ad hoc Space and Equipment Allocation Committee, SDM
1996 – 2003	Planning and Budget Committee, Division of Surgical Dental Sciences, SDM
1999 – 2013	Member, Dean's Council, SDM
2000	Vice President, AADR/IADR Pittsburgh chapter
2000 – 2013	Member, Joint Academic and Clinical Services Committee, SDM Chair, Scientific Review committee, SDM Member, Affirmative Action Committee, SDM Thesis Advisory Committee, SDM Chair, Standing committee on Research, SDM Clinical Trials Planning Committee Health Sciences Research Committee Committee on Awards
2000 – 2003	University Research Council University Research Council Patent Subcommittee
2001	President, AADR/IADR Pittsburgh chapter

2003 – present	Member, Information Technology Advisory Committee, SDM
2004 – 2009	Multidisciplinary Advisory Committee for the Multidisciplinary Clinical Research Scholars Program (CRSP)
2005 – 2012	University CTSA and K12 Executive Committees
2006 – 2009	University Research Council
2006 – 2012	Clinical and Translational Sciences Institute, Education Core Program, PhD in Clinical Investigation Committee
2006 – 2012	Clinical and Translational Sciences Institute, Education Core Program, Common Core Education for Pre-doctoral Students Committee
2006 – 2012	Clinical and Translational Sciences Institute, Education Core Program, T32 Program Committee
2011- present	Chancellor's Distinguished Research Awards Committee
2017-present	Member, SDM Dean's Search Committee
	Chair, SDM Oral Biology Chairman Search Committee
	Chair, SDM Oral Biology Faculty Search Committee
	Member, Human Genetics Faculty Search Committee

States of Virginia and Pennsylvania

1986 – 1993	Chairman, VaCARES Technical Issues Sub-committee VaCARES Advisory Committee
1988 – 1993	Virginia Health Department Research Review Board
1989 – 1993	Virginia Health Department Advisory Board for Genetics, Endocrine, Metabolic and Other Inherited Disease Virginia Health Department Advisory Board Subcommittee on Newborn Hemoglobinopathy Screening Virginia At-Risk Infant Follow-up Committee and Sub-committee on Tracking
1993 – 2003	Pennsylvania Federation of Cleft Palate Clinics
1995 – 1997	Pennsylvania Federation of Cleft Palate Clinics Legislative Committee
1996 – 1999	Pennsylvania Federation of Cleft Palate Clinics Nominating Committee
1998 – 2000	Pennsylvania Federation of Cleft Palate Clinics, Member-at-large

Mid-Atlantic Region:

1988 – 1990	Chairman
1990 – 1993	Member, Mid-Atlantic Region Human Genetics Network Birth Defects Committee
1988 – 1993	Region VI ACCESS Advisory Council

National, non-NIH:

1993 – 1995	Program Committee of the American Association of Dental Research, Pittsburgh Section
1995 – 1999	Research Education Committee of the American Cleft Palate-Craniofacial Association Laboratory Practices Sub-Committee, American College of Medical

Genetics

1997	Credentials Committee, American Board of Medical Genetics
1997 – 2002	Member, Board of Directors, American Board of Medical Genetics Book Chief, Ph.D. Medical Genetics 1999 and 2002 exams, American Board of Medical Genetics
1998 – 2002	Accreditation Committee, American Board of Medical Genetics
2000 – 2002	Secretary, American Board of Medical Genetics
2003 – 2006	American Cleft Palate-Craniofacial Association Task Force on Clinical Trials/Outcomes Research
2008 – 2013	Genetics Section Editor, Cleft Palate-Craniofacial Journal
2013 -- 2015	Member, American Society of Human Genetics Nominating Committee
2013 – 2015	Member, Editorial Board, Journal of Dental Research

National, NIH:

2000 – 2003	Working Group of the National Institute for General Medical Sciences, NIH, Human Genetic Cell Repository
2001 – 2005	Center for Inherited Disease Research Access Committee, National Human Genome Research Institute
2007 – 2012	NHGRI, GENEVA Steering Committee
2007-2012	NHGRI/RTI, PhenX Steering Committee
2010-2011	Member, NIDCR Director Search Committee
2011	Advisor, NICHD strategic planning (VISION)
2011-2015	Member, National Advisory Dental and Craniofacial Research Council of the National Institutes of Health
2014-present	co-chair, PhenX Steering Committee, NHGRI
2014-present	member (appointed as NIDCR representative); BD2K Steering Committee (Big Data to Knowledge)

Administrative Appointments:

1986 – 1993	Director, Virginia Congenital Anomalies Reporting and Education System (VaCARES), designed and implemented the Virginia state-wide birth defects monitoring system
1993 – 2000	Director, Cleft Palate-Craniofacial Center, School of Dental Medicine
1999 – 2000	Interim Head, Division of Oral Biology, School of Dental Medicine
2000	Interim Director of Research, School of Dental Medicine
2000 – 2001	Assistant Dean of Research, School of Dental Medicine
2000 – 2006	Head, Division of Oral Biology, School of Dental Medicine (converted to Dept of Oral Biology, see below)

2001 – 2013	Associate Dean of Research, School of Dental Medicine
2003 – present	Director, Center for Craniofacial and Dental Genetics, School of Dental Medicine
2006 – 2009	Chair, Department of Oral Biology, School of Dental Medicine
2009 – 2018	Vice Chair, Department of Oral Biology, School of Dental Medicine
 COMMUNITY:	
1983 – 1986	Member, Junior League, Long Beach, CA Volunteer at battered women's shelter Art enrichment for inner-city Long Beach elementary schools Publication of available social services brochures
1990 – 1991	Parent Volunteer, Sabot School, Richmond, VA
1991 – 1993	President, Sabot School Board
1993 – 1994	Girl Scout Leader (Daisy troupe), Pittsburgh, PA
1995 – 1996	Volunteer, Educational Support Classroom
1996 – 1997	Volunteer, "Traveling Art Galley" project Hartwood Elementary School, Fox Chapel Schools, PA
1997 – 2002	Classroom volunteer, Ingomar United Methodist Child Enrichment Center (Preschool), PA
1999 – 2009	Classroom volunteer (Kindergarten, 1 st grade, 5 th grade)
2001 – 2005	Volunteer, "Traveling Art Gallery project Bradford Woods Elementary School, North Allegheny Schools, PA
2007 – 2009	Member, Parent advisory group of River City Elite Track Club, PA