CURRICULUM VITAE

###### Ellen Wrchota Demerath

***Academic Address:***

Professor

University of Minnesota School of Public Health

Division of Epidemiology and Community Health

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**GRADUATE FACULTY APPOINTMENTS**

Epidemiology PhD

Anthropology PhD

Public Health Minor

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| **EDUCATION** | | | |
| **Institution** | **Concentration** | **Degree** | **Date** | |
| Harvard University  Cambridge, MA | Biological Anthropology | A.B. | 1989 | |
| University of Pennsylvania  Philadelphia, PA | Anthropology | M.A. | 1992 | |
| University of Pennsylvania  Philadelphia, PA | Anthropology | Ph.D. | 1997 | |

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| **POST-GRADUATE EDUCATION** | | |
| **Institution** | **Concentration** | **Date** | |
| Wright State University, Dayton, OH  School of Medicine, Lifespan Health  Research Center, Department of  Community Health | Post-doctoral Fellowship in Genetic Epidemiology and Cardiovascular Disease | 1997-2003 | |

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| **POSITIONS HELD** | | |
| **Institution** | **Position** | **Date** | |
| University of Minnesota, School of Public Health, Division of Epidemiology and Community Health, University of Minnesota | Professor | 2016-present | |
| Visiting Professor, School of Sport, Exercise and Health Sciences, Loughborough University, Loughborough, United Kingdom | Visiting Professor | 2013-present | |
| University of Minnesota, School of Public Health, Division of Epidemiology and Community Health, University of Minnesota | Associate Professor | 2007-2016 | |
| Center for Neurobehavioral Development | Center Faculty | 2010-present | |
| Wright State University  Boonshoft School of Medicine  Dept. of Community Health | Adjunct Associate Professor | 2009-present | |
| Wright State University School  of Medicine, Lifespan Health Research Center | Associate Director | 2004-2007 | |
| National Institute on Aging (NIA):  Geriatrics and Clinical Gerontology | Intergovernmental Personnel Agreement (IPA) Appointment (GCG) Program “Factors in youth that protect against the aging process” | 2004-2006 | |
| Wright State University School  of Medicine, LLifespan Health Research Center, Department of Community Health | Associate Professor | 2004-2007 | |
| Wright State University School  of Medicine, Lifespan Health  Research Center, Department of  Community Health | Assistant Professor | 2000-2004 | |
| Wright State University School  of Medicine, Lifespan Health  Research Center, Department of  Community Health | Post-doctoral Research Associate | 1997-2000 | |
| Wright State University  Department of Sociology and Anthropology | Instructor | 1997-2000 | |
| University of Pennsylvania, Department of Anthropology, Philadelphia, PA | Instructor  Research Assistant | 1996-1997 | |
| National Institute of Medical  Research, Goroka, Eastern Highlands Province, Papua New Guinea | Research Associate | 1994-1995 | |

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| **PROFESSIONAL MEMBERSHIP**  American Heart Association Countil on Edpiemiology and Prevention  The Obesity Society  American Society of Nutrition  Human Biology Association |

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| **ACADEMIC AWARDS/HONORS** | | |
| **Award** | **Granting Institution/Association** | **Date** | |
| First 1000 Days Best Nutrition Research Award  Fellowship in the Obesity Society (FTOS) | Nestle Nutrition Institute  Obesity Society | 2017  2014 | |
| 2013-14 Annual Rosevear Lecturer | University of Cincinnati | 2014 | |
| Honorary Scientific Advisor, Area of Early Development | Institute for Anthropological Research, Zagreb, Croatia | 2013 | |
| Fellow (FAHA) | Fellow of the American Heart Association | 2007 | |
| Post-doctoral Research Fellow | American Heart Association, Ohio-West Virginia Affiliate | 1998-2000 | |
| Finalist, Jeremiah Stammler | American Heart Association | 1998 | |
| Dean’s Dissertation Research Award | University of Pennsylvania | 1996 | |
| Pre-doctoral Research Fellow | Wenner-Gren Foundation for Anthropological Research, New York, New York | 1994-1995 | |
| William Penn Scholar | University of Pennsylvania | 1990-1994 | |
| Magna cum laude | Harvard University | 1989 | |

***Visiting Professorships***

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| **Visiting Professorship** | **Focus** | **Dates** |
| Loughborough University  School of Sport, Exercise, and Health Sciences  Loughborough, United Kingdom | Development of collaborative research projects on lifecourse epidemiology | 2013-present |

**RESEARCH, SCHOLARSHIP, AND CREATIVE WORK**

***Current Grants and Contracts Received at the University of Minnesota***

Subcontract Co-Investigator

Boerwinkle/Pankow PIs

NIH/NHLBI R01 HL131136

Epigenetics of Successful Aging (2016-2020)

Direct Costs: $21,202

Co-Investigator

Folsom - PI

NIH/NHLBI HHSN268201700003I

Atherosclerosis Risk in Communities (ARIC) Study – Field Centers (2016-2021)

Direct Costs: $821,233

Subcontract Principal Investigator

Lee/Curran - PIs

NIH R01DK111201

Subcontract to University of Texas

Telomere Length Dynamics in Relation to Changes in Adiposity and Metabolic Risk (2016-2021)

Direct Costs: $39,064

Principal Investigator

Demerath - PI

NIH/NINR R01 HD080444

Maternal Obesity, Breast Milk Composition, and Infant Growth (2014-2019)

Direct Costs: $433,115

***Current University Sponsored Grants***

Demerath - PI

Academic Health Center Faculty Research Development Grant - University of Minnesota

The 4M Project: Maternal Metabolism, Milk, and the Microbiome (2017-2019)

Direct Costs: 197,956

***Previously Funded Extramural Grants Received at the University of Minnesota***

Co-Principal Investigator

Office of the Provost Grand Challenges Research Program - University of Minnesota

Minnesota Precision Medicine Collaborative: Advancing Health and Reducing Disparities (2016-2017)

Direct Costs: $500,000

Co-Investigator

Ramel - PI

Clinical and Translational Science Institute - University of Minnesota

Optimizing Growth and Developmental Outcomes in Very Low Birth Weight Preterm Infants without Increasing Metabolic Risk (2015-2017)  
Direct Costs: $50,000

Co-Principal Investigator

Office of the Vice President For Research - University of Minnesota

University of Minnesota Research at the Minnesota State Fair (2013-2015)

Direct Costs: $150,000

Co-Investigator

Carlson – PI

Clinical and Translational Science Institute (CTSI) - University of Minnesota

Longitudinal Study of Mother-Infant Feeding Interactions and Physical and Cognitive Development at Age 3 (2013-2015)

Direct Costs: $48,747

Co-Investigator

Schreiner – PI

NIH/NHLBI N01HV048048

Coronary Artery Risk Development in Young Adults (CARDIA) – Minneapolis Field Center (2008-2018)

Direct Costs: $2,778,418

NIH/NHLBI

Human Adenovirus-36 Antibody Status and Development of Childhood Obesity (2013-2015)

Direct Costs: $228,000

Co-Investigator  
Alonso - PI  
NIH NHLBI R01  
ARIC Neurocognitive Study (ARIC-NCS) Renewal (2015-2019)  
Direct Costs: $2,091,858

Co-Investigator

Folsom – PI

NIH/NHLBI N01HC55019

Atherosclerosis Risk in Communities (ARIC) Study – Field Centers (2010-2016)

Direct Costs: $8,603,953

Subcontract Principal Investigator

Subcontract to Wright State University

NIH R01HD012252

Adiposity, Disease Risk Factors and Lifetime Health (2010-2016)

Direct Costs: $123,140

Co-Invesigator  
French - PI  
NIH U01  
Linking Primary Care, Communities and Families to Prevent Obesity Among Preschool Children (2010-2017)  
Direct Costs: $7,160,514

Co-Investigator

Ramel - PI

March of Dimes

The Role of Linear Growth and Fat-Free Mass Gain in Determining Cognitive Outcomes in Very Low Birth Weight (VLBW) Preterm Infants (2013-2016)

Direct Costs: $130,000

Co-Investigator

Odegaard – PI

University of Texas  
The Associations of Mid- and Late Life Physical Activity on Falls in a Large Prospective Study of Older Adults (2015-2016)  
Direct Costs:

Co-Principal Investigator

Robert W. Wood Foundation

Mother-Infant Feeding Interactions and Infant Physical and Cognitive Development (2010-2012)

Direct Costs: $100,000

Principal Investigator

Life Measurements, Inc.

Body Composition Reference Data for Premature Infants (2010-2012)

Direct Costs: $68,859

Principal Investigator

NIH/NCI: Transdisciplinary Research in Energetics and Cancer Development Grant

Perinatal Influences on Infant Adiposity: The Minnesota Infant Nutrition, Neurodevelopment, and Obesity Study (MINNOwS) (2008-2010)

Direct Costs: $50,000

Principal Investigator

NIH/NICHID R01HD053685

Genetics of Infant Growth and Later Obesity (2006-2012)

Direct Costs: $1,533,075

Principal Investigator

NIH/NIDDK R01DK64870

Visceral Adiposity: Genetic and Environmental Influences (2003-2008)

Direct Costs: $1,150,000

Principal Investigator

NIA R03AG023251

Telemore Length as a Marker of Cardiovascular Aging (2004-2006)

Direct Costs: $100,000

***Previously-Funded University Sponsored Grants***

Principal Investigator

Obesity Prevention Center – University of Minnesota

Breaking the Vicious Cycle of Obesity from Mother to Child: Does Physical Activity During Pregnancy and Lactation Improve Serum and Milk Factors Involved in Energy Balance in Her Child? (2014-2015)

Direct Costs: $50,000 (DEFERRED)

Principal Investigator

Minnesota Obesity Prevention Center (Pilot Grant) – University of Minnesota

Body Composition Among Somali, Hmong, and Hispanic Parents and Preschool Children: Behavioral and Environmental Correlates (Pilot Grant) (2011-2013)

Direct Costs: $50,000

Principal Investigator

Faculty Research Development Grant – Academic Health Center – University of Minnesota

Longitudinal Study of Children at the Minnesota State Fair: Feasibility and Initial Enrollment (2010-2012)

Direct Costs: $100,000

Principal Investigator

Academic Health Center – University of Minnesota, FDG #07-04

Body Composition in Growth-retarded Infants Undergoing Catch-up Growth: Establishing an Interdisciplinary Working Group on Infant Obesity and Health (2008-2009)

Direct Costs: $200,000

***Grants Received at Other Institutions***

Principal Investigator

Wright State University Seed Grant

Measurement of Intra-Abdominal Adipose Tissue Using MRI (2002-2003)

Direct Costs: $10,000

Mentor

Rhya Lund - Fellow

American Heart Association

American Heart Association Undergraduate Summer Research Fellowship (2002)

Direct Costs: $2,500

Principal Investigator

American Heart Association Ohio Valley Affiliate

Behavioral Impact of a School-Based Cholesterol Screening Program on Children and Families in Rural Appalachia (2000-2002)

Direct Costs: $70,000

***Contracts at Other Institutions***

Principal Investigator

NIH/NIA

Factors in Youth That Protect Against Aging Processes (2005-2006)

Direct Costs: $29,937

Co-Investigator

RM Siervogel – PI

CDC Division of Diabetes Translation

Body Composition and Cardiovascular Disease Risk Factors in Relationship to Dermatoglyphic Markers: The Fels Longitudinal Study

Contract: $20,000

### PUBLICATIONS

**† = Student first authored article**

### Peer-Reviewed Articles

1. Cameron N, Gordon-Larsen P, **Wrchota (Demerath) E** (1994) Longitudinal analysis of adolescent growth in height, fatness, and fat patterning in rural South African Black children. *American Journal of Physical Anthropology* 93(3): 307-321.

**ROLE:** Concept, analysis, writing, editing

1. **Demerath EW,** Towne B, Wisemandle W, Chumlea WC, Siervogel RM (1999) Serum leptin concentration, body composition, and gonadal hormones during puberty. *International Journal of Obesity* 23(7):678-685.

**ROLE:** Concept, analysis, interpretation, writing, editing

1. Guo SS, Huang C, Maynard LM, **Demerath E,** Towne B, Chumlea WC, Siervogel RM (2000) Body mass index during childhood, adolescence and young adulthood in relation to adult overweight and adiposity: The Fels Longitudinal Study. *International Journal of Obesity* 24:(12) 1628-1635*.*

**ROLE:** Data collection, writing, editing

1. **Demerath E,** Towne B, Blangero J, Siervogel RM (2001) The relationship of soluble ICAM-1, VCAM-1, P-selectin, and E-selectin to cardiovascular disease risk factors in healthy men and women. *Annals of Human Biology* 28(6): 664-678.

**ROLE:** Concept, analysis, interpretation, writing, editing

1. Neal WA, **Demerath E,** Gonzales E, Spangler E, Minor VE, Stollings R, Islam S (2001) Coronary artery risk detection in Appalachian communities (CARDIAC): Preliminary Findings. *West Virginia Medical Journal* 97(2):102-105.

**ROLE:** Concept, analysis, data collection, writing, editing

1. Czerwinski SA, Williams JT, **Demerath EW,** Siervogel RM, Blangero J (2001) Does accounting for mitochondrial genetic variation improve the fit of genetic models? *Genetic Epidemiology* 2(Suppl. 1):S779-S782.

**ROLE:** Writing, editing

1. Muratova VN, Islam SS, **Demerath EW,** Minor VE, Neal WA (2001) Cholesterol screening among children and their parents. *Preventive Medicine* 33(1):1-6.

**ROLE:** Data collection, analysis, writing, editing

1. **Demerath EW,** Guo SS, Chumlea WC, Towne B, Roche AF, Siervogel RM (2002) Comparison of percent body fat estimates using air displacement plethysmography and hydrodensitometry in adults and children. *International Journal of Obesity & Related Metabolic Disorders* 26(3):389-397.

**ROLE:** Concept, analysis, data collection, writing, editing

1. Cameron N, **Demerath EW** (2002) Critical periods of growth and their relationship to diseases of aging. *Yearbook of Physical Anthropology* 45:159-184*.*

**ROLE:** Concept, writing, editing

1. Muratova VN, **Demerath EW**, Spangler E, Ogershok P, Elliott E, Minor VE, Neal WA (2002) The relation of obesity to cardiovascular risk factors among children: The CARDIAC Project. *West Virginia Medical Journal* 98(6):263-267.

**ROLE:** Analysis, data collection, writing, editing

1. **Demerath E,** Muratova V, Spangler E, Li J, Minor VE, Neal WA (2003) School-based obesity screening in rural Appalachia. *Preventive Medicine* 37(6 pt 1):553-560.

**ROLE:** Writing, editing

1. Siervogel RM, **Demerath EW**, Schubert C, Remsberg KE, Chumlea WC, Sun S, Czerwinski SA, Towne B (2003) Puberty and body composition. *Hormone Research* 60(suppl.1):36-45.

**ROLE:** Writing, editing

1. **Demerath EW**, Cameron N, Gillman MW, Towne B, Siervogel RM (2004) Telomeres, telomerase in the fetal origins of cardiovascular disease: a review. *Human Biology* 76(1):127-146*.* PMCID: PMC2801408

**ROLE:** Concept, writing, editing

1. **Demerath EW**, Li J, Sun SS, Chumlea WC, Remsberg KE, Czerwinski SA, Towne B, Siervogel RM (2004) Fifty-year trends in serial body mass index during adolescence in girls: The Fels Longitudinal Study. *American Journal of Clinical Nutrition* 80(2):441-446*.*

**ROLE:** Concept, analysis, interpretation, writing, editing

1. **Demerath EW**, Towne B, Chumlea WC, Sun SS, Czerwinski SA, Remsberg KE, Siervogel RM (2004) Recent decline in age at menarche: The Fels Longitudinal Study. *American Journal of Human Biology* 16(4):453-457.

**ROLE:** Concept, analysis, interpretation, writing, editing

1. Lee M, Czerwinski SA, Choh AC, Towne B, **Demerath EW**, Chumlea WC, Sun SS, Siervogel RM (2004) Heritability of calcaneal quantitative ultrasound measures in healthy adults from the Fels Longitudinal Study. *Bone* 35(5):1157-1163.

**ROLE:** Interpretation, editing

1. Towne B, Czerwinski SA, **Demerath EW**, Blangero J, Roche AF, Siervogel RM (2005) Heritability of age at menarche in girls from the Fels Longitudinal Study. *American Journal of Physical Anthropology* 128(1):210-219.

**ROLE:** Editing

1. Remsberg KE, **Demerath EW**, Schubert CM, Chumlea WC, Sun SS, Sievogel RM (2005) Early menarche and the development of cardiovascular disease risk factors in adolescent girls: the Fels Longitudinal Study. *Journal of Clinical Endocrinology and Metabolism* 90(5):2718-2724.

**ROLE:** Concept, analytic guidance, interpretation, editing

1. McIntyre M, Ellison PT, Lieberman DE, **Demerath E**, Towne B (2005) The development of sex differences in digital formula from infancy in the Fels Longitudinal Study. *Proceedings of the Royal Society- Biological Sciences* 272(1571):1473-1479. PMCID: PMC1559827

**ROLE:** Analytic guidance, writing, editing

1. Choh AC, Czerwinski SA, Lee M, **Demerath EW**, Wilson AF, Towne B, Siervogel RM (2005) Quantitative genetic analysis of blood pressure response during the cold pressor test. *American Journal of Hypertension* 18(9 pt 1):1211-1217.

**ROLE:** Editing

1. **Demerath EW**, Schubert CM, Maynard LM, Sun SS, Chumlea WC, Pickoff A, Czerwinski SA, Towne B, Siervogel RM (2006) Do changes in body mass index percentile reflect changes in body composition in children? Data from the Fels Longitudinal Study. *Pediatrics* 117(3): e487-e495.

**ROLE:** Concept, analysis, interpretation, writing, editing, funding

1. Choh AC, Czerwinski SA, Lee M, **Demerath EW**, Cole SA, Wilson AF, Towne B, Siervogel RM (2006) Quantitative genetic analysis of blood pressure reactivity to orthostatic tilt using principal components analysis. *Journal of Human Hypertension* 20(4):281-289.

**ROLE:** Editing

1. Lee M, Czerwinski SA, Choh AC, **Demerath EW**, Sun SS, Chumlea WC, Towne B, Siervogel RM (2006) Quantitative genetic analysis of cellular adhesion molecules: The Fels Longitudinal Study. *Atherosclerosis* 185(1):150-158.

**ROLE:** Interpretation, editing

1. Schubert CM, Rogers NL, Remsberg KE, Sun SS, Chumlea WC, **Demerath EW**, Czerwinski SA, Towne B, Siervogel RM (2006) Lipids, lipoproteins, lifestyle, adiposity and fat-free mass during middle age: The Fels Longitudinal Study. *International Journal of Obesity* 30(2):251-260.

**ROLE:** Interpretation, writing, editing

1. Lee M, Czerwinski SA, Choh AC, **Demerath EW**, Sun SS, Chumlea WC, Towne B, Siervogel RM. (2006) Unique and common genetic effects between bone mineral density and calcaneal quantitative ultrasound measures: the Fels Longitudinal Study. *Osteoporosis International* 17(6):865-871.

**ROLE:** Interpretation, editing

1. Arya R, **Demerath E**, Jenkinson CP, Goring HH, Puppala S, Farook V, Fowler S, Schneider J, Granato R, Dyer TD, Cole SA, Almasy L, Comuzzie AG, Siervogel RM, Bradshaw B, DeFronzo RA, MacCluer J, Stern MP, Towne B, Blangero J, Duggirala R (2006) A quantitative trait locus (QTL) on chromosome 6q influences birth weight in two independent family studies. *Human Molecular Genetics* 15(10): 1569-1579.

**ROLE:** Analysis, writing, editing

1. **Demerath EW**, Ritter KJ, Couch WA, Rogers NL, Moreno GM, Choh AC, Lee M, Remsberg K, Czerwinski SA, Chumlea WC, Siervogel RM., Towne B (2007) Validity of a new automated software program for visceral adipose tissue estimation. *International Journal of Obesity (London)* 31(2):285-291. PMCID: PMC1783906

**ROLE:** Concept, analysis interpretation, writing, editing

1. Duren DL, Sherwood RJ, Choh AC, Czerwinski SA, Chumlea WC, Lee M, Sun SS, **Demerath EW**, Siervogel RM, Towne B (2007) Quantitative genetics of cortical bone mass in healthy 10-year-old children from the Fels Longitudinal Study. *Bone* 40(2):464-470. PMCID: PMC1945206

**ROLE:** Writing, editing

1. **Demerath EW**, Shen W, Lee M, Choh AC, Czerwinski SA, Siervogel RM, Towne B (2007) Approximation of total visceral adipose tissue with a single magnetic resonance image. *American Journal of Clinical Nutrition*85(2):362-368. PMCID: PMC2883309

**ROLE:** Concept, analysis, interpretation, writing, editing, funding

1. Rogers NL, Cole SA, Lan HC, Crossa A, **Demerath EW** (2007) New saliva DNA collection method compared to buccal cell collection techniques for epidemiological studies. *American Journal of Human Biology* 19(3):319-326*.* PMCID: PMC2797479

**ROLE:** Concept, analysis, interpretation, editing

1. Remsberg KE, Rogers NL, **Demerath EW**, Czerwinski SA, Choh AC, Lee M, Chumlea WC, Sun SS, Towne B, Siervogel RM (2007) Sex differences in young adulthood metabolic syndrome and physical activity: the Fels Longitudinal Study. *American Journal of Human Biology* 19(4):544-550.

**ROLE:** Analytic guidance, editing

1. Chumlea WC, Schubert CM, Sun SS, **Demerath E**, Towne B, Siervogel RM (2007) A review of body water status and the effects of age and body fatness in children and adults. *Journal of Nutrition, Health and Aging* 11(2):111-118.

**ROLE:** Interpretation, editing

1. Czerwinski SA, Lee M, Choh AC, Wurzbacher K, **Demerath EW**, Towne B, Siervogel RM (2007) Genetic factors in physical growth and development and their relationship to subsequent health outcomes. *American Journal of Human Biology* 19(5):684-691.

**ROLE:** Interpretation, editing

1. **Demerath EW**, Choh AC, Czerwinski SA, Lee M, Sun SS, Chumlea WC, Duren D, Sherwood RJ, Blangero J, Towne B, Siervogel RM (2007) Genetic and environmental influences on infant weight and weight change: The Fels Longitudinal Study. *American Journal of Human Biology* 19(5):692-702. PMCID: PMC2801417

**ROLE:** Concept, analysis writing, interpretation, editing

1. **Demerath EW**, Sun SS, Rogers N, Lee M, Reed D, Choh AC, Couch W, Czerwinski SA, Chumlea WC, Siervogel RM, Towne B (2007) Anatomical patterning of visceral adipose tissue: race, sex, and age variation. *Obesity* 15(12):2984-2993. PMCID: PMC2883307

**ROLE:** Concept, analysis interpretation, writing, editing

1. Duren, DL, Sherwood RJ, Czerwinski SA, Chumlea WC, Lee M, **Demerath EW**, Sun SS, Siervogel RM, Towne B (2008) Genetic architecture of knee radiographic joint space in healthy young adults. *Human Biology* 80(1):1-9. PMCID: PMC3988673

**ROLE:** Editing

1. Sherwood RJ, Duren DL, **Demerath EW**, Czerwinski SA, Siervogel RM, Towne B (2008) Quantitative genetics of modern human cranial variation. *Journal of Human Evolution* 54(6):909-914. PMCID: PMC2391308

**ROLE:** Interpretation, editing

1. Choh AC, **Demerath EW**, Lee M, Williams, KD, Towne B, Siervogel RM, Cole SA, Czerwinski SA (2008) Genetic analysis of self-reported physical activity and adiposity: the Southwest Ohio Family Study. *Public Health Nutrition* 12(8):1052-1060 PMCID: PMC2883310

**ROLE:** Concept, data collection, analysis, interpretation, writing, editing

1. **Demerath EW**, Reed D, Rogers N, Sun SS, Lee M, Choh AC, Couch W, Czerwinski SA, Chumlea WC, Siervogel RM, Towne B (2008) Visceral adiposity and its anatomical distribution as predictors of the metabolic syndrome and cardiometabolic risk factor levels. *American Journal of Clinical Nutrition* 88(5):1263-1271. PMCID: PMC2801427

**ROLE:** Concept, data collection, analysis, interpretation, writing, editing

1. Folsom AR, Peacock JM, **Demerath E**, Boerwinkle E (2008) Variation in ANGPTL4 and risk of coronary heart disease: the Atherosclerosis Risk in Communities Study Study. *Metabolism* 57(11):1591-1596. PMCID: PMC2707767

**ROLE:** Editing, interpretation

1. Nettleton JA, Volcik KA, **Demerath EW**, Boerwinkle E, Folsom AR (2008) Longitudinal changes in triglycerides according to ANGPTL4[E40K] genotype and longitudinal body weight change in the Atherosclerosis Risk in Communities Study. *Annals of Epidemiology* 18(11):842-846. PMCID: PMC2582040

**ROLE:** Editing, interpretation

1. Towne B, Williams KD, Blangero J, Czerwinski SA, **Demerath EW**, Nahhas RW, Dyer TD, Cole SA, Lee M, Choh AC, Duren DL, Sherwood RJ, Chumlea WC, Siervogel RM (2008) Presentation, heritability, and genome-wide linkage analysis of the midchildhood growth spurt in healthy children from the Fels Longitudinal Study. *Human Biology* 80(6):623-636. PMCID: PMC2801436

**ROLE:** Interpretation, editing

1. Soloway LE, **Demerath EW**, Ochs N, James GD, Little MA, Bindon JR, Garruto RM (2009) Blood pressure and lifestyle on Saba, Netherlands Antilles. *American Journal of Human Biology* 21(3):319-325PMCID: PMC2910626

**ROLE:** Analysis, interpretation, writing, editing

1. Lee M, Choh AC, **Demerath EW**, Knutson KL, Duren DL, Sherwood RJ, Sun SS, Chumlea WM, Towne B, Siervogel RM, Czerwinski SA (2009) Sleep disturbance in relation to health-related quality of life in adults: the Fels Longitudinal Study*. Journal of Nutrition, Health and Aging* 13(6):576-583. PMCID: PMC3988690

**ROLE:** Interpretation, editing

1. **Demerath EW**, Reed D, Choh AC, Soloway L, Lee M, Czerwinski SA, Chumlea WC, Siervogel RM, Towne B (2009) Rapid postnatal weight gain and visceral adiposity in adulthood: the Fels Longitudinal Study. *Obesity* 17(11):2060-2066 PMCID: PMC2801420

**ROLE:** Concept, analysis, data collection, interpretation, writing, editing

1. **Demerath EW**, Jones LL, Hawley NL, Norris SA, Pettifor JM, Duren D, Chumlea WC, Towne B, Cameron N (2009) Rapid infant weight gain and advanced skeletal maturation in childhood. *Journal of Pediatrics* 155(3):355-361 PMCID: PMC2801419

**ROLE:** Concept, analysis, interpretation, writing, editing

1. Perry JR, Stolk L, Franceshini N, Lunetta KL, Zhai G, McArdle PF, Smith AV, Aspelund T, Bandinelli S, Boerwinkle E, Cherkas L, Eirikdottir G, Estrada K, Ferrucci L, Folsom AR, Garcia M, Gudnason V, Hofman A, Karasik D, Kiel DP, Launer LJ, van Meurs J, Nalls MA, Rivadeneira F, Shuldiner AR, Singleton A, Soranzo N, Tanaka T, Visser JA, Weedon MN, Wilson SG, Zhuang V, Streeten EA, Harris TB, Murray A, Spector TD, **Demerath EW**, Uitterlinden AG, Murabito JM (2009) Meta-analysis of genome-wide association data identifies two loci influencing age at menarche. *Nature Genetics* 41(6):648-650. PMCID: PMC2942986

**ROLE:** Data management, analysis, writing, editing

1. Heard-Costa NL, Zillikens MC, Monda KL, Johansson A, Harris TB, Fu M, Haritunians T, Feitosa MF, Aspelund T, Eiriksdottir G, Garcia M, Launer LJ, Smith AV, Mitchell BD, McArdle PF, Shuldiner AR, Bielinski SJ, Boerwinkle E, Brancati F, **Demerath EW**, Pankow JS, Sorlie P, Arnold AM, Chen YD, Glazer NL, McKnight B, Psaty BM, Rotter JI, Amin N, Campbell H, Gyllensten U, Pattaro C Pramstaller PP, Rudan I, Struchalin M, Vitart V, Gao X, Kraja A, Province MA, Zhang Q, Atwood LD, Dupuis J, Hirschhorn JN, Jaquish CE, O’Donnell CJ, Vasan RS, White CC, Aulchenko YS, Estrada K, Hofman A, Rivadeneira F, Uitterlinden AG, Witteman JC, Oostra BA, Kaplan RC, Gudnason V, O’Connell JR, Borecki IB, van Duijn CM, Cupples LA, Fox CS, North KE (2009) NRXN3 is a novel locus for waist circumference: a genome-wide association study from the CHARGE Consortium. *PLoS Genetics* 5(6): e1000539. PMCID: PMC2695005

**ROLE:** Conceptualization, manuscript writing

1. Stovitz SD, Hannan PJ, Lytle LA, **Demerath EW**, Pereira MA, Himes JH (2010) Child height and the risk of young-adult obesity. *American Journal of Preventive Medicine* 38(1):74-77*.* PMCID: PMC2818981

**ROLE:** Conceptualization, manuscript writing, advising student research

1. **Demerath EW** (2010) Causes and consequences of human variation in visceral adiposity. *American Journal of Clinical Nutrition* 91 (1):1-2.

**ROLE:** Conceptualization, manuscript writing

1. Elks CE, Perry JR, Sulem P, Chasman DI, Franceschini N, He C, Lunetta KL, Visser JA, Byrne EM, Cousminer DL, Gudbjartsson DF, Esko T, Feenstra B, Hottenga JJ, Koller DL, Kutalik Z, Lin P, Mangino M, Marongiu M, McArdle PF, Smith AV, Stolk L, van Wingerden SH, Zhao JH, Albrecht E, Corre T, Ingelsson E, Hayward C, Magnusson PK, Smith EN, Ulivi S, Warrington NM, Zgaga L, Alavere H, Amin N, Aspelund T, Bandinelli S, Barroso I, Berenson GS, Bergmann S, Blackburn H, Boerwinkle E, Buring JE, Busonero F, Campbell H, Chanock SJ, Chen W, Cornelis MC, Couper D, Coviello AD, d'Adamo P, de Faire U, de Geus EJ, Deloukas P, Döring A, Smith GD, Easton DF, Eiriksdottir G, Emilsson V, Eriksson J, Ferrucci L, Folsom AR, Foroud T, Garcia M, Gasparini P, Geller F, Gieger C; GIANT Consortium, Gudnason V, Hall P, Hankinson SE, Ferreli L, Heath AC, Hernandez DG, Hofman A, Hu FB, Illig T, Järvelin MR, Johnson AD, Karasik D, Khaw KT, Kiel DP, Kilpeläinen TO, Kolcic I, Kraft P, Launer LJ, Laven JS, Li S, Liu J, Levy D, Martin NG, McArdle WL, Melbye M, Mooser V, Murray JC, Murray SS, Nalls MA, Navarro P, Nelis M, Ness AR, Northstone K, Oostra BA, Peacock M, Palmer LJ, Palotie A, Paré G, Parker AN, Pedersen NL, Peltonen L, Pennell CE, Pharoah P, Polasek O, Plump AS, Pouta A, Porcu E, Rafnar T, Rice JP, Ring SM, Rivadeneira F, Rudan I, Sala C, Salomaa V, Sanna S, Schlessinger D, Schork NJ, Scuteri A, Segrè AV, Shuldiner AR, Soranzo N, Sovio U, Srinivasan SR, Strachan DP, Tammesoo ML, Tikkanen E, Toniolo D, Tsui K, Tryggvadottir L, Tyrer J, Uda M, van Dam RM, van Meurs JB, Vollenweider P, Waeber G, Wareham NJ, Waterworth DM, Weedon MN, Wichmann HE, Willemsen G, Wilson JF, Wright AF, Young L, Zhai G, Zhuang WV, Bierut LJ, Boomsma DI, Boyd HA, Crisponi L, **Demerath EW**, van Duijn CM, Econs MJ, Harris TB, Hunter DJ, Loos RJ, Metspalu A, Montgomery GW, Ridker PM, Spector TD, Streeten EA, Stefansson K, Thorsteinsdottir U, Uitterlinden AG, Widen E, Murabito JM, Ong KK, Murray A (2010) Thirty new loci for age at menarche identified by a meta-analysis of genome-wide association studies. *Nature Genetics* 42(12):1077-1085. PMCID: PMC3140055

**ROLE:** Data collection/phenotype creation, analysis, manuscript writing

1. Lee M, Martin H, Firpo MA, **Demerath EW** (2011) Inverse association between adiposity and telomere length: The Fels Longitudinal Study. *American Journal of Human Biology* 23(1):100-106. PMCID: PMC3245638

**ROLE:** Conceptualization, implementation, analysis, grant writing, manuscript writing

1. **Demerath EW,** Rogers NL, Reed D, Lee M, Choh AC, Siervogel RM, Chumlea WC, Towne B, Czerwinski SA (2011) Significant associations of age, menopausal status and lifestyle factors with visceral adiposity in African-American and European-American women. *Annals of Human Biology* 38(3):247-256. PMCID: PMC3245972

**ROLE:** Conceptualization, implementation, analysis, grant writing, manuscript writing

1. Lee M, Nahhas RW, Choh AC, **Demerath EW**, Duren DL, Chumlea WC, Sherwood RJ, Towne B, Siervogel RM, Czerewinski SA (2011) Longitudinal changes in calcaneal quantitative ultrasound measures during childhood. *Osteoporosis International* 22(8):2295-2305. PMCID: PMC3988661

**ROLE:** Data collection, manuscript writing

1. Choh AC, Nahhas RW, Lee M, Choi YS, Chumlea WC, Duren DL, Sherwoord RJ, Towne B, Siervogel RM, **Demerath EW**, Czerwinski SA (2011) Secular trends in blood pressure during early-to-middle adulthood: the Fels Longitudinal Study. *Journal of Hypertension* 29(5):838-845. PMCID: PMC3988666

**ROLE:** Data collection, interpretation of analyses, manuscript writing, editing

1. Walter S, Atzmon G, **Demerath EW**, Garcia ME, Kaplan RC, Kumari M, Lunetta KL, Milaneschi Y, Tanaka T, Tranah GJ, Volker U, Yu L, Arnold A, Benjamin EJ, Biffar R, Buchman AS, Boerwinkle E, Couper D, De Jager PL, Evans DA, Harris TB, Hofman W, Hofman A, Karasik D, Kiel DP, Kocher T, Kuningas M, Launer LJ, Lohman KK, Lutsey PL, Mackenbach J, Marciante K, Marmot M, Psaty BM, Reiman EM, Rotter JI, Seshadri S, Shardell MD, Smith AV, van Duijn C, Walston J, Zillikens MC, Bandinelli S, Baumeister S, Bennett DA, Ferrucci L, Gudnason V, Kivimaki M, Murabito JM, Newman AB, Tiemeier H, Yongmei L, Franceschini N (2011) A genome-wide association study of aging. *Neurobiology of Aging* 32(11):2109. PMCID: PMC3193030

**ROLE:** Data collection/phenotype creation, analysis, manuscript writing

1. Stovitz SD, **Demerath EW**, Hannan PJ, Lytle LA, Himes JH (2011*)* Growing into obesity: patterns of height growth in those who become normal weight, overweight, orobese as young adults. *American Journal of Human Biology* 23(5):635-641. PMCID: PMC3152584

**ROLE:** Conceptualization, interpretation of analyses, manuscript writing, editing

1. Choh AC, Curran JE, Odegaard AO, Nahhas RW, Czerwinski SA, Blangero J, Towne B, **Demerath EW** (2011) Differences in the heritability of growth and growth velocity during infancy and associations with FTO variants. *Obesity* 19(9):1847-1854. PMCID: PMC4013792

**ROLE:** Design, conceptualization, data collection, implementation, analysis, grant writing, manuscript writing, editing

1. **Demerath EW**, Lutsey PL, Monda, KL, Kao LWH., Bressler J, Pankow JS, North KE, Folsom AR (2011) Interaction of FTO and physical activity level on adiposity in African-American and European-American adults: The ARIC Study. *Obesity (Silver Spring)* 19(9):1866-1872. PMCID: PMC3293392

**ROLE:** Conceptualization, analysis, interpretation of results, manuscript writing

1. Ramel SE, Gray HL, Ode KL, Younge N, Georgieff M, **Demerath EW** (2011*)* Body composition changes in preterm infants following hospital discharge: comparison with term infants. *Journal ofPediatric Gastroenterology and.Nutrition* 53(3):333-338.

**ROLE:** Design, conceptualization, data collection, analysis, grant writing, manuscript writing, editing

1. Meyer KA, Friend S, Hannan PJ, Himes JH, **Demerath EW,** Neumark-Sztainer D (2011) Ethnic variation in body composition assessment in a sample of adolescent girls. *International Journal of Pediatric Obesity* 6(5-6):481-490. PMCID: PMC3174327

**ROLE:** Interpretation of results, manuscript writing, editing

1. Meyer KA, **Demerath EW**, Friend S, Hannan PJ, Neumark-Sztainer D (2011) Body fat is differentially related to body mass index in U.S.-born African-American and East African immigrant girls. *American Journal of Human Biology* 23(5):720-723. PMCID: PMC3158676

**ROLE:** Conceptualization, interpretation of results, manuscript writing, editing

1. N’Diaye A, Chen GK, Palmer CD, Ge B, Tayo B, Mathias RA, Ding J, Nalls MA, Adeyamo A, Adoue B, Ambrosone CB, Atwood L, Bandera EV, Becker LC, Berndt SI, Bernstein L, Blot WJ, Boerwinkle E, Britton A, Casey G, Chanock SJ, **Demerath EW**, DeMichele A, Deming SL, Diver WR, Fox C, Harris TB, Hernandez DG, Hu JJ, Ingles SA, John EM, Johnson C, Keating B, Kittles RA, Kolonel LN, Krtschevsky SB, Le Marchand L, Lohman K, Liu J, Millikan RC, Murphy A, Musani S, Neslund-Dudas C, North K, Nyante S, Ogunniyi A, Ostrander EA, Papanicolaou G, Patel S, Press MF, Redline S, Rodriguez-Gil JL, Rotimi C, Rybicki BA, Salako B, Schreiner PJ, Standford JL, Stram A, Strom SS, Suktitipat B, Thun MJ, Witte JS, Yamamura Y, Yanek LR, Ziegler RG, Zheng W, Zhu X, Zmuda J, Zonderman AB, Evans MK, Liu Y, Becker DM, Cooper RD, Panstinen T, Hirschorn JN, Henderson BE, Lettre G, Haiman CA (2011) Identification, replication, and fine-mapping of loci associated with adult height in individuals of African ancestry. *PLoS Genetics* 7(10):e1002298. PMCID: PMC3188544

**ROLE:** Contributed data; edited and revised written manuscript

1. Kilpeläinen TO, Qi L, Brage S, Sharp SJ, Sonestedt E, **Demerath E**, Ahmad T, Mora S, Kaakinen M, Sandholt CH, Holzapfel C, Autenrieth C, Hyppönen E, Cauchi S, He M, Kutalik Z, Kumari M, Stančáková A, Meidtner K, Balkau B, Tan JT, Mangino M, Timpson NJ, Song Y, Zillikens MC, Jablonski KA, Garcia ME, Johansson SA, Bragg-Gresham JL, Wu Y, van Vliet-Ostaptchouk JV, Onland-Moret NC, Zimmermann E, Rivera NV, Tanaka T, Stringham HM, Silbernagel G, Kanoni S, Feitosa MF, Snitker S, Ruiz JR, Metter J, Martinez Larrad MT, Atalay M, Hakanen M, Amin N, Cavalcanti-Proença C, Grøntved A, Hallmans G, Jansson J-O, Kuusisto J, Kähönen M, Lutsey P, Palla L, Renström F, Scott RA, Shungin D, Sovio U, Tammelin TH, Rönnemaa T, Lakka TA, Uusitupa M, Rios MS, Ferrucci L, Bouchard C, Meirhaeghe A, Fu M, Walker M, Borecki IB, Dedoussis GV, Fritsche A, Ohlsson C, Boehnke M, Bandinelli S, van Duijn CM, Ebrahim S, Lawlor DA, Gudnason V, Harris TB, Sørensen TIA, Hofman A, Uitterlinden AG, Tuomilehto J, Lehtimäki T, Raitakari O, Isomaa B, Njølstad PR, Florez JC, Liu S, Ness A, Spector TD, Tai ES, Froguel P, Boeing H, Laakso M, Marmot M, Bergmann S, Power C, Khaw KT, Chasman D, Ridker P, Hansen T, Monda K, Illig T, Järvelin MR, Wareham NJ, Hu FB, Groop LC, Orho-Melander M, Ekelund U, Franks PW, Loos RJ (2011) Physical activity attenuates the influence of FTO variants on obesity; a meta-analysis of 218,166 adults and 19,268 children. *PLoS Medicine* 8(11): e1001116*.* PMCID: PMC3206047

**ROLE:** Contributed data; supervised analyses; wrote part of manuscript; interpreted results; edited and revised written manuscript

1. Dauber A, Yu, Y, Turchin MC, Chiang CW, Meng YA, **Demerath EW**, Patel SR, Rich SS, Rotter JI, Schreiner PJ, Wilson JG, Shen Y, Wu BL, Hirschhorn JN (2011) Genome-wide association of copy- number variation reveals an association between short stature and the presence of low frequency genomic deletions. *American Journal of Human Genetics* 89(6):751-759. PMCID: PMC3234379

**ROLE:** Contributed data; edited and revised written manuscript

1. Odegaard AO, Choh AC, Czerwinski SA, Towne B, **Demerath EW** (2012) Sugar-sweetened and diet beverages in relation to visceral adipose tissue. *Obesity (Silver Spring)* 20(3):689-91. PMCID: PMC3288354

**ROLE:** Conceived of study; designed analyses; supervised trainee on analysis; interpreted results; revised manuscript

1. Johnson W, Stovitz SD, Choh AC, Czerwinski SA, Towne B, **Demerath EW** (2012) Patterns of linear growth and skeletal maturation from birth to 18 years of age in overweight young adults. *International Journal of Obesity* 36(4):535-541. PMCID: PMC3312969

**ROLE:** Conceived of study; designed analyses; supervised trainee on analysis; interpreted results; revised manuscript

1. Johnson W, Chumlea WC, Czerwinski SA, **Demerath EW** (2012) Concordance of the recently published body adiposity index with measured body fat percent in European-American adults. *Obesity (Silver Spring)* 20(4):900-903. PMCID: PMC3988697

**ROLE:** Conceived of study; designed analyses; supervised trainee on analysis; interpreted results; revised manuscript

1. Johnson W, Choh AC, Soloway LE, Czerwinski SA, Towne B, **Demerath EW** (2012) Eighty-year trends in infant weight and length growth: the Fels Longitudinal Study. *Journal of Pediatrics* 160(5):762-768. PMCID: PMC3310964

**ROLE:** Conceived of study; designed analyses; supervised trainee on analysis; interpreted results; revised manuscript

1. Stolk L, Perry JR, Chasman DI, He C, Mangino M, Sulem P, Barbalic M, Broer L, Byrne EM, Ernst F, Esko T, Franceschini N, Gudbjartsson DF, Hottenge JJ, Kraft P, McArdle PF, Porcu E, Shin SY, Smith AV, van Wingerden S, Zhai G, Zhuang WV, Albrecht E, Alizadeh BZ, Aspelund T, Bandinelli S, Lauc LB, Beckmann JS, Boban M, Boerwinkle E, Broekmans FJ, Burri A, Campbell H, Chanock SJ, Chen C, Cornelis MC, Corre T, Coviello AD, d’Adamo, P, Davies G, de Faire U, de Geus EJ, Deary IJ, Dedoussis GV, Deloukas P, Ebrahim S, Eiriksdottir G, Emilsson V, Ericksson JG, Fauser BC, Ferreli L, Ferrucci L, Fischer K, Folsom AR, Garcia ME, Gasparini P, Gieger C, Glazer N, Grobbee DE, Hall P, Haller T, Hankinson SE, Hass M, Hayward C, Heath AC, Hofman A, Ingelsson E, Janssens AC, Johnson AD, Karasik D, Kardia SL, Keyzer J, Kiel DP, Kolcic I, Kutalik Z, Lahti J, Lai S, Laisk T, Laven JS, Lawlor DA, Liu J, Lopez LM, Louwers YV, Magnusson PK, Marongiu M, Martin NG, Klaric IM, Masciullo C, McKnight B, Medland SE, Melzer D, Mooser V, Navarro P, Newman AB, Nyholt DR, Onland-Moret NC, Palotie A, Pare G, Parker AN, Pedersen NL, Peeters PH, Pistis G, Plump AS, Polasek O, Pop VJ, Psaty BM, Raikkonen K, Rehnberg E, Rotter JI, Rudan I, Sala C, Salumets A, Scureri A, Singleton A, Smith JA, Snieder H, Soranzo N, Stacey SN, Starr JM, Stathopoulou MG, Stirrups K, Stolk RP, Styrkarsdottir U, Sun YV, Tenesa A, Thorand B, Toniolo D, Tryggvadottir L, Tsui K, Ulivi S, van Dam RM, van der Schouw YT, van Gils CH, van Nierop P, Vink JM, Visscher PM, Voorhuis M, Waeber G, Wallaschofski H, Wichman HE, Widen E, Wijnands-van Gent CJ, Willemsen G, Wilson JF, Wolffenbuttel BH, Wright AF, Yerges-Armstrong LM, Zemunik T, Zgaga L, Zillikens MC, Zygmunt M, Lifeleines Cohort Study, Arnold AM, Boomsma DI, Buring JE, Crisponi L, **Demerath EW**, Gudnason V, Harris TB, Hu FB, Hunter DJ, Launer LJ, Metspalu A, Montgomery GW, Oostra BA, Ridker PM, Sanna S, Schlessinger D, Spector TD, Stefannson K, Streeten EA, Thorsteinsdottir U, Uda M, Uitterlinden AG, van Duijn CM, Volzke H, Murray A, Murabito JM, Visser JA, Lunetta KL (2012) Meta-analyses identify 13 loci associated with age at menopause and highlight DNA repair and immune pathways. *Nature Genetics* 44(3):260-268. PMCID: PMC3288642

**ROLE:** Contributed data; edited and revised written manuscript

1. Hauff LE, **Demerath EW** (2012) Body image concerns and reduced breastfeeding duration in primiparous overweight and obese women. *American Journal of Human Biology* 24(3):339-349.

**ROLE:** Conceived of study; designed analyses; supervised trainee on analysis; interpreted results; revised manuscript

1. Johnson W, Soloway LE, Erickson D, Choh AC, Lee M, Chumlea WC, Siervogel RM, Czerwinski SA, Towne B, **Demerath EW** (2012) A changing pattern of childhood BMI growth during the 20th century: 70 y of data from the Fels Longitudinal Study. *American Journal of Clinical Nutrition* 95(5):1136-1143. PMCID: PMC3325836

**ROLE:** Conceived of study; designed analyses; supervised trainee on analysis; interpreted results; revised manuscript

1. Ramel SE, **Demerath EW**, Gray H, Younge N, Boys CJ, Georgieff MK (2012) The relationship of poor linear growth velocity with neonatal illness and two-year neurodevelopment in preterm infants. *Neonatology* 102(1):19-24.

**ROLE:** Conceived of study; designed analyses; supervised trainee on analysis; interpreted results; revised manuscript

1. He C, Chasman DI, Dreyfus J, Hwang SJ, Ruiter R, Sanna S, Buring JE, Fernández-Rhodes L, Franceshini N, Hankinson SE, Hofman A, Lunetta KL, Plamieri G, Porcu E, Rivandeneira F, Rose LM, Splansky GL, Stolk L, Uitterlinden AG, Chanock SJ, Crisponi L, **Demerath EW**, Murabito JM, Ridker PM, Stricker BH, Hunter DJ (2012) Reproductive aging-associated common genetic variants and the risk of breast cancer. *Breast Cancer Research* 14(2):R54. PMCID: PMC3446388

**ROLE:** Contributed data; supervised analyses; wrote part of manuscript; interpreted results; edited and revised written manuscript

1. Fields DA, **Demerath EW**, Pietrobelli A, Chandler-Laney PC (2012) Body composition at 6 months of life: comparison of air displacement plethysmography and dual-energy x-ray absorptiometry. *Obesity (Silver Spring)* 20(11):2302-2306.

**ROLE:** Wrote one half of manuscript; edited and revised written manuscript

1. Fields DA, **Demerath EW** (2012) Relationship of insulin, glucose, leptin, IL-6 and TNF-α in human breast milk with infant growth and body composition. *Pediatric Obesity* 7(4):304-312. PMCID: PMC3393795

**ROLE:** Conceived of analysis; collected genetic data; oversaw analysis; interpreted results; wrote manuscript; created figures; edited and revised written manuscript

1. Katzmarzyk PT, Shen W, Baxter-Jones A, Bell JD, Butte NF, **Demerath EW**, Gilsanz V, Goran MI, Hirschler V, Hu HH, Maffeis C, Malina RM, Muller MJ, Pietrobelli A, Wells JC (2012) Adiposity in children and adolescents: correlates and clinical consequences of fat stored in specific body depots. *Pediatric Obesity* 7(5):e42-61.

**ROLE:** Interpreted results, edited and revised written manuscript

1. Lee M, Choh AC, **Demerath EW,** Towne B, Siervogel RM, Czerwinski SA (2012) Associations between trunk, leg and total body adiposity with arterial stiffness. *American Journal of Hypertension* 25(10):1131-1137. PMCID: PMC3578479

**ROLE:** Interpreted results, edited and revised written manuscript

1. Ode KL, Gray HL, Ramel SE, Georgieff MK, **Demerath EW** (2012) Decelerated early growth in infants of overweight and obese mothers. *Journal of Pediatrics* 161(6):1028-1034. PMCID: PMC3480982

**ROLE:** Conceived of study; designed analyses; supervised trainee on analysis; interpreted results; write parts of manuscript; edited and revised manuscript

1. Dreyfus JG, Lutsey PL, Huxley R, Pankow JS, Selvin E, Fernandez-Rhodes L, Franceschini N, **Demerath EW** (2012) Age at menarche and risk of type 2 diabetes in the Atherosclerosis Risk in Communities (ARIC) study. *Diabetologia* 55(9):2371-2380. PMCID: PMC3690318

**ROLE:** Conceived of study; designed analyses; supervised trainee on analysis; interpreted results; revised manuscript

1. Chiang CW, Liu CT, Lttre G, Lange LA, Jorgensen NW, Keating BJ, Vedantam S, Nock NL, Franceschini N, Reiner AP, **Demerath EW**, Boerwinkle E, Rotter JI, Wilson JG, North KE, Papanicolaou GJ, Cupples LA, Genetic Investigation of Anthropometric Trials Consortium, Murabito JM, Hirschhorn JN (2012) Ultraconserved elements in the human genome: association and transmission analyses of highly constrained single-nucleotide polymorphisms. *Genetics* 192(1):253-266. PMCID: PMC3430540

**ROLE:** Contributed data; interpreted results, contributed to writing manuscript

1. Broer L, **Demerath EW**, Garcia ME, Homuth G, Kaplan RC, Lunetta KL, Tanaka T, Tranah GJ, Walter S, Arnold AM, Atzmon G, Harris TB, Hoffmann W, Karasik D, Kiel DP, Kocher T, Launer, Lohman KK, Rotter JI, Tiemeier H, Uitterlinden AG, Wallaschofski H, Bandinelli S, Dorr M, Ferrucci L, Franceschini N, Gudnason V, Hofman A, Liu Y, Murabito JM, Newman AB, Oostra BA, Psaty BM, Smith AV, van Duijn CM. (2012) Association of heat shock proteins with all-cause mortality. *Age (Dordr).* 35(4):1367-1376. PMCID: PMC3705092

**ROLE:** Contributed data; revised manuscript, interpreted results

1. Boraska V, Jerončić A, Colonna V, Southam L, Nyholt DR, Rayner NW, Perry JRB, Toniolo D, Albrecht E, Ang W, Bandinelli S, Barbalic M, Barroso I, Beckmann JS, Biffar R, Boomsma D, Campbell H, Corre T, Erdmann J, Esko T, Fischer K, Franceschini N, Frayling TM, Girotto G, Gonzalez JR, Harris TB, Heath AC, Heid IM, Hoffmann W, Hofman A, Horikoshi M, Zhao JH, Jackson AU, Hottenga JJ, Jula A, Kähönen M, Khaw K, Kiemeney LA, Klopp N, Kutalik Z, Lagou V, Launer LJ, Lehtimäki T, Lemire M, Lokki M, Loley C, Luan J, Mangino M, Leach IM, Medland SE, Mihailov E, Montgomery GW, Navis G, Newnham J, Nieminen MS, Palotie A, Panoutsopoulou K, Peters A, Pirastu N, Polašek O, Rehnström K, Ripatti S, Ritchie GRS, Rivadeneira F, Robino A, Samani NJ, Shin S, Sinisalo J, Smit J, Soranzo N, Stolk L, Swinkels DW, Tanaka T, Teumer A, Tönjes A, Traglia M, Tuomilehto J, Valsesia A, van Gilst WH, van Meurs JBJ, Smith AV, Viikari J, Vink JM, Waeber G, Warrington NM, Widen E, Willemsen G, Wright AF, Zanke BW, Zgaga L, Wellcome Trust Case Control Consortium (WTCCC), Boehnke M, d’Adamo AP, de Geus E, **Demerath EW**, den Heijer M, Eriksson JG, Ferrucci L, Gieger C, Gudnason V, Hayward C, Hengstenberg C, Hudson TJ, Järvelin MR, Kogevinas M, Loos RJF, Martin NG, Metspalu A, Pennell CE, Penninx BW, Perola M, Raitakari O, Salomaa V, Schreiber S, Schunkert H, Spector TD, Stumvoll M, Uitterlinden AG, Ulivi S, van der Harst P, Vollenweider P, Völzke H, Wareham NJ, Wichmann HE, Wilson JF, Rudan I, Xue Y, Zeggini E. (2012) Genome-wide meta-analysis of common variant differences between men and women. *Human Molecular Genetics.* 21(21):4805-4815. PMCID: PMC3471397

**ROLE:** Contributed data; contributed methods information, revised manuscript

1. **Demerath, EW**. (2012) The genetics of obesity in transition. *Collegium Anthropologicum.* 36(4):1161-1168. PMCID: PMC4356255

**ROLE:** Wrote manuscript; conceived of study; conducted all analyses.

1. The Emerging Risk Factors Collaboration. (2012) Adult height and the risk of cause-specific death and vascular morbidity in 1 million people: individual participant meta-analysis. *International Journal of Epidemiology* 41(5):1419-1433. PMCID: PMC3465767

**ROLE:** Contributed data; represented the ARIC study by writing ARIC descriptive information.

1. Johnson W, Choh AC, Curren JE, Czerwinski SA, Bellis C, Dyer TD, Blangero J, Towne B, **Demerath EW**. (2013) Genetic risk for earlier menarche also influences peripubertal body mass index. *American Journal of Physical Anthropology*. 150(1):10-20. PMCID: PMC3539227

**ROLE:** Conceived of study; designed analyses; supervised trainee on analysis; interpreted results; revised manuscript

1. Bressler J, Fornage M, **Demerath EW**, Knopman DS, Monda KL, North KE, Penman A, Mosley TH, Boerwinkle E. (2013) Fat mass and obesity gene and cognitive decline: The Artheroclerosis Risk in Communities Study. *Neurology*. 80(1):92-99. PMCID: PMC3589198

**ROLE:** Interpreted results; contributed to writing manuscript; revised manuscript

1. Johnson, W, Chumlea WC, Czerwinski S, **Demerath EW.** (2013) Secular trends in the fat and fat-free components of body mass index in children aged 8-18 years born 1958-1995. *Annals of Human Biology*. 40(1):107-10. PMCID: PMC3988663

**ROLE:** Conceived of study; advised trainee on analysis; interpreted results; assisted trainee in writing; revised manuscript

1. Linabery AM, Hahhas RW, Choh AC, Towne B, Odegaard AO, Johnson W, Czerwinski SA, **Demerath EW**. (2013) Stronger influence of maternal than paternal obesity on infant and early childhood body mass index: The Fels Longitudinal Study. *Pediatric Obesity.* 8(3):159-169. PMCID: PMC3765070

**ROLE:** Conceived of study; advised trainee on analysis; interpreted results; assisted trainee in writing; revised manuscript

1. Johnson, W, Choh AC, Lee M, Towne B, Czerwinski SA, **Demerath EW**. (2013)Characterization of the infant BMI peak: sex differences, birth year cohort effects, association with concurrent adiposity, and heritability. *American Journal of Human Biology.* 25(3):378-388. PMCID: PMC3988701

**ROLE:** Conceived of study; advised trainee on analysis; interpreted results; assisted trainee in writing; revised manuscript

1. Perry JR, Corre T, Esko T, Chasman DI, Fischer K, Franceschini N, He C, Kutalik Z, Mangino M, Rose LM, Vernon Smith A, Stolk L, Sulem P, Weedon MN, Zhuang WV, Arnold A, Ashworth A, Bergmann S, Buring JE, Burri A, Chen C, Cornelis MC, Couper DJ, Goodarzi MO, Gudnason V, Harris T, Hofman A, Jones M, Kraft P, Launer L, Laven JS, Li G, McKnight B, Masciullo C, Milani L, Orr N, Psaty BM; ReproGen Consortium, Ridker PM, Rivadeneira F, Sala C, Salumets A, Schoemaker M, Traglia M, Waeber G, Chanock SJ, **Demerath EW**, Garcia M, Hankinson SE, Hu FB, Hunter DJ, Lunetta KL, Metspalu A, Montgomery GW, Murabito JM, Newman AB, Ong KK, Spector TD, Stefansson K, Swerdlow AJ, Thorsteinsdottir U, Van Dam RM, Uitterlinden AG, Visser JA, Vollenweider P, Toniolo D, Murray A (2013) A genome-wide association study of early menopause and the combined impact of identified variants. *Human Molecular Genetics* 22(7):1465-1472. PMCID: PMC3596848

**ROLE:** Contributed data; edited and revised written manuscript

1. Guo Y, Lanktree MB, Taylor KC, Hakonarson H, Lange LA, Keating BJ, IBC 50K SNP array BMI Consortium (2013) Gene-centric meta-analyses of 108 912 individuals confirm known body mass index loci and reveal three novel signals. *Human Molecular Genetics* 22(1):184-201. PMCID: PMC3522401

**ROLE:** Interpreted results; edited and revised written manuscript

1. Pfister KM, Gray HL, Miller NC, **Demerath EW**, Georgieff MK, Ramel SE (2013) Exploratory study of the relationship of fat-free mass to speed of brain processing in preterm infants. *Pediatric Research* 74(5):576-583.

**ROLE:** Advised student on analyses; interpreted results; edited and revised written manuscript

1. Fernandez-Rhodes L, **Demerath EW,** Cousminer DL, Tao R, Dreyfus JG, Esko T, Smtih AV, Gudnason V, Harris TB, Launer L, McArdle PF, Yerges-Armstrong LM, Elks CE, Strachan DP, Kutalik Z, Vollenweider P, Feenstra B, Boyd HA, Metspalu A, Mihailov E, Broer L, Zillikens MC, Oostra B, van Duijn CM, Lunetta KL, Perry JRB, Murray A, Koller DL, Lai D, Corre T, Toniolo D, Albrecht E, Stockl D, Grallert H, Gieger C, Hayward C, Polasek O, Rudan I, Wilson JF, He C, Kraft P, Hu FB, Hunter DJ, Hottenga JJ, Willemsen G, Boomsma DI, Bryne EM, Martin NG, Montgomery GW, Warrington NM, Pennell CE, Stolk L, Visser JA, Hofman A, Uitterlinden AG, Rivadeneira F, Lin P, Fisher SL, Bierut LJ, Crisponi L, Porcu E, Mangino M, Zhai G, Spector TD, Buring JE, Rose LM, Ridker PM, Poole C, Hirschhorn JN, Murabito JM, Chasman DI, Widen W, North KE, Ong KK Franceschini N (2013) Association of adiposity genetic variants with menarche timing in 92,105 women of European descent. *American Journal of Epidemiology* 178(3):451-460. PMCID: PMC3816344

**ROLE:** Advised student on analyses; interpreted results, edited and revised written manuscript

1. **Demerath EW,** Liu, CT, Franceschini N, Chen G, Palmer JR, Smith EN, Chen CTL, Ambrosone CB, Arnold AM, Bandera EV, Berenson GS, Bernstein L, Britton A, Cappola AR, Carlson CS, Chanock SJ, Chen W, Chen Z, Deming SL, Elks CE, Evans MK, Gajdos Z, Henderson BE, Hu JJ, Ingles S, John EM, Kerr KF, Kolonel LN, Marchand LL, Lu X, Millikan RC, Musani SK, Nock NL, North K, Nyante S, Press MF, Rodriquez-Gil JL, Ruiz-Narvaez EA, Schork NJ, Srinivasan SR, Woods NF, Zheng W, Ziegler RG, Zonderman A, Heiss G, Windham BG, Wellons M, Muray SS, Nalls M, Rajkovic A, Hirschhorn J, Cupples LA, Kooperberg C, Murabito JM, Haiman CA (2013) Genome-wide association study of age at menarche in African-American women. *Human Molecular Genetics* 22(16):3329-3346. PMCID: PMC3723312

**ROLE:** Conducted some statistical analysis; interpreted data; wrote manuscript; created tables and figures; revised manuscript

1. **Demerath EW**, Choh AC, Johnson W, Curran JE, Lee M, Bellis C, Dyer TD, Czerwinski SA, Blangero J, Towne B (2013) The positive association of obesity variants with adulthood adiposity strengthens over an 80-year period: a gene-by-birth year interaction. *Human Heredity* 75(2-4):175-185. PMCID: PMC4091039

**ROLE:** Conceived of analysis; collected genetic data; oversaw analysis; interpreted results; wrote manuscript; created figures; edited and revised written manuscript

1. Mueller NT, Johnson W, Odegaard AO, Lee M, Czerwinski SA, **Demerath EW** (2013) Wrist breadth and homeostasis model assessment of insulin resistance in youth: the Fels Longitudinal Study. *American Journal of Human Biology* 25(5):581-585. PMCID: PMC3988662

**ROLE:** Conceived of study; contributed data; designed analysis; oversaw analysis; wrote part of manuscript (discussion); interpreted results; edited and revised written manuscript

1. Odegaard AO, Choh AC, Nahhas RW, Towne B, Czerwinski SA, **Demerath EW** (2013) Systematic examination of infant size and growth metrics as risk factors for overweight in early adulthood. *PloS One* 8(6):e66994. PMCID: PMC3688577

**ROLE:** Conceived of study; contributed data; designed analysis; oversaw analysis; wrote part of manuscript (discussion); interpreted results; edited and revised written manuscript

1. Ramel SE, Long JD, Gray H, Durwachter-Erno K, **Demerath EW**, Rao R (2013) Neonatal hyperglycemia and diminished long-term growth in very low birth weight preterm infants. *Journal of Perinatology* 33(11):882-886.

**ROLE:** Wrote methods section; interpreted results; edited and revised written manuscript; advised on methods

1. Liu CT, Monda KL, Taylor KC,Lange L, **Demerath EW**, Palmas W, WojczynskiMK, EllisJC, Vitolins MZ, LiuS, Papanicolaou GJ, Irvin MR, Xue L, Griffin PJ, Nalls MA, Adeyemo A, Liu J, Li G, Ruiz-Narvaez EA, Chen WM, Chen F, Henderson BE, Millikan RC, Ambrosone CB, Strom SS, Guo X, Andrews JS, Sun YV, Mosley TH, Yanek LR, Shriner D, Haritunians T, Rotter JI, Speliotes EK, Smith M, Rosenberg L, Mychaleckyj J, Nayak U, Spruill I, W. Garvey T, Pettaway C, Nyante, Bandera EV, Britton AF, Zonderman AB, Rasmussen-Torvik LJ, Chen YI, Ding J, Lohman K, Kritchevsky SB, Zhao W, Peyser PA, Kardia SLR, Kabagambe Broeckel U, Chen G, Zhou J, Wassertheil-Smoller S, Neuhouser ML, Rampersaud E, Psaty B, Kooperberg C, Manson JE, Kuller LH, Ochs-Balcom HM, Johnson KC, Sucheston L, Ordovas JM, Palmer JR, Haiman CA, McKnight B, Howard BV, Becker DM, Bielak LF, Liu Y, Allison MA, Grant SFA, Burke GL, Patel SR, Schreiner PJ, Borecki IB, Evans MK, Taylor H, Sale MM, Howard V, Carlson CS, Rotimi CN, Cushman M, Harris TB, Reiner AP, Cupples LA, North KE, Fox CS (2013) Genome-wide association of body fat distribution in African ancestry populations suggests new loci. *PLoS Genetics* 9(8):e1003681. PMCID: PMC3744443

**ROLE:** Helped design study; wrote part of manuscript; edited and revised written manuscript

1. Graff M, Ngwa JS, Workalemahu T, Homuth G, Schipt S, Teumer A, Volzke H, Wallaschofski H, Abecasis GR, Edward L, Francesco C, Sanna S, Scheet P, Schlessinger D, Sidore C, Xiao X, Wang Z, Chanock SJ, Jacobs KB, Hayes RB, Hu F, VanDam RM, Crout RJ, Marazita ML, Shaffer JR, Atwood LD, Fox CS, Heard-Costa NL, White C, Choh AC, Czerwinski SA, **Demerath EW**, Dyer TD, Towne B, Amin N, Oostra BA, vanDuijn CM, Zilikens NC, Esko T, Metspalu A, Nelis M, Nikopensius T, Strachen DP, Monda K, Qi L, North KE, Cupples A, Gordon-Larsen P, Berndt S (2013*)* Genome-wide analysis of BMI in adolescents and young adults reveals additional insight into the effects of genetic loci over the life course. *Human Molecular Genetics* 22(17):3597-3607. PMCID: PMC3736869

**ROLE:** Contributed data; interpreted results; revised and edited manuscript.

1. Cousminer DL, Berry DJ, Timpson NJ, Ang W, Thiering E, Byrne EM, Taal HR, Huikari V, Bradfield JP, Kerkhof M, Groen-Blokhuis MM, Kreiner-Møller E, Marinelli M, Holst C, Leinonen JT, Perry JR, Surakka I, Pietiläinen O, Kettunen J, Anttila V, Kaakinen M, Sovio U, Pouta A, Das S, Lagou V, Power C, Prokopenko I, Evans DM, Kemp JP, St Pourcain B, Ring S, Palotie A, Kajantie E, Osmond C, Lehtimäki T, Viikari JS, Kähönen M, Warrington NM, Lye SJ, Palmer LJ, Tiesler CM, Flexeder C, Montgomery GW, Medland SE, Hofman A, Hakonarson H, Guxens M, Bartels M, Salomaa V; ReproGen Consortium, Murabito JM, Kaprio J, Sørensen TI, Ballester F, Bisgaard H, Boomsma DI, Koppelman GH, Grant SF, Jaddoe VW, Martin NG, Heinrich J, Pennell CE, Raitakari OT, Eriksson JG, Smith GD, Hyppönen E, Järvelin MR, McCarthy MI, Ripatti S, Widén E; Early Growth Genetics (EGG) Consortium (2013) Genome-wide association and longitudinal analyses reveal genetic loci linking pubertal height growth, pubertal timing and childhood adiposity. *Human Molecular Genetics* 22(13):2735-2747. PMCID: PMC3674797

**ROLE:** Contributed data; interpreted results; edited and revised written manuscript

1. Choh AC, Lee M, Kent JW, Diego VP, Johnson W, Curran JE, Dyer TD, Bellis C, Blangero J, Siervogel RM, Towne B, **Demerath EW**, Czerwinski SA (2014) Gene-by-age effects on BMI from birth to adulthood: the Fels Longitudinal Study. *Obesity* 22(3):875-881. PMCID: PMC3883986

**ROLE:** Conceived of study; designed study; supervised analysis; interpreted results; edited and revised manuscript

1. ChenCT, LiuCT, ChenGK, AndrewsJS, ArnoldAM, DreyfusJ, FranceschiniN, GarciaME, KerrKF, LiG, LohmanKK, MusaniSK, NallsMA, RaffelLJ, SmithJ, AmbrosoneCB, BanderaEV, BernsteinL, BrittonA, BrzyskiRG, CarlsonCS, CouperD, DemingSL, GoodarziMO, HeissG, JohnEM, LuX, MarchandLL, MarcianteK, McKnightB, MiillikanR, Nora L. NL, OlshanA, PressMF, VaiydaD, WoodsNF, TaylorHA, ZhaoW, ZhengW, EvansMK, HarrisTB, HendersonBE, KardiaSLR, KooperbergC, LiuY, MoseleyTH, PsatyB, WellonsM, WindhamBG, ZondermanAB, CupplesLA, **DemerathEW**, HaimanC, MurabitoJM, Rajkovic A (2014) Meta-analysis of loci associated with age at natural menopause in African-American women. *Human Molecular Genetics* 23(12):3327-3342. PMCID: PMC4030781

**ROLE:** Contributed data; supervised analyses; wrote part of manuscript; interpreted results; edited and revised manuscript.

1. Yoneyama S, Guo Y, Lanktree MB, Barnes MR, Elbers CC, Karczewski KJ, Padmanabhan S, Bauer F, Baumert J, Beitelshees A, Berenson GS, Boer JM, Burke G, Cade B, Chen W, Cooper-Dehoff RM, Gaunt TR, Gieger C, Gong Y, Gorski M, Heard-Costa N, Johnson T, Lamonte MJ, McDonough C, Monda KL, Onland-Moret NC, Nelson CP, O'Connell JR, Ordovas J, Peter I, Peters A, Shaffer J, Shen H, Smith E, Speilotes L, Thomas F, Thorand B, Monique Verschuren WM, Anand SS, Dominiczak A, Davidson KW, Hegele RA, Heid I, Hofker MH, Huggins GS, Illig T, Johnson JA, Kirkland S; the Look AHEAD Research Group, König W, Langaee TY, McCaffery J, Melander O, Mitchell BD, Munroe P, Murray SS, Papanicolaou G, Redline S, Reilly M, Samani NJ, Schork NJ, Van Der Schouw YT, Shimbo D, Shuldiner AR, Tobin MD, Wijmenga C, Yusuf S; the GIANT Consortium; the CARe IBC Consortium, Hakonarson H, Lange LA, **Demerath EW**, Fox CS, North KE, Reiner AP, Keating B, Taylor KC. (2014) Gene-centric meta-analyses for central adiposity traits in up to 57 412 individuals of European descent confirm known loci and reveal several novel associations. *Human Molecular Genetics* 23(9):2498-2510. PMCID: PMC3988452

**ROLE:** Contributed data; interpreted results; edited and revised written manuscript

1. **Demerath EW**, Fields DA (2014) Body composition assessment in the infant. *American Journal of Human Biology* 26(3):291-304. PMCID: PM5761669

**ROLE:** Conceived of review; wrote two-thirds of manuscript; revised manuscript

1. Perry JRB, Day F, Elks CE, Sulem P, Thompson DJ, Ferreira T, He C, Chasman DI, Esko T, Albrecht E, Ang WQ, Corre T, Cousminer DL, FeenstraB, FranceschiniN, GannaA, JohnsonA, Kjellqvist S, LunettaKL, McMahonG, NolteIM, PaternosterLL, PorcuE, SmithAV, StolkL, TeumerA, TšernikovaN, TikkanenE, UliviSS, WagnerEK, AminN, BierutLJ, Byrne EM, HottengaJJ, KollerDL, ManginoM, Pers TH, Yerges-ArmstrongLM, ZhaoJH, AndrulisIL, Anton-CulverH, AtsmaF, BandinelliS, BeckmannMW, BenitezJ, BlomqvistC, Stig E Bojesen SE, BollaMK, BonanniB, BrauchH, BrennerH, BuringJE, Chang-ClaudeJ, ChanockS, ChenJ, Chenevix-Trench G, Collée JM, Couch FJ, Couper D, CoveilloAD, CoxA, Czene K, Pio D'adamoA, SmithGD, De VivoI, **DemerathEW**, DennisJ, DevilleeP, DieffenbachAK, DunningAM, Eiriksdottir G, Eriksson JG, Fasching PA, FerrucciL, Flesch-JanysD, FlygerH, ForoudT, FrankeL, GarciaME, García-ClosasM, GellerF, de GeusE, GilesGG, GudbjartssonDF, GudnasonV, GuénelP, GuoS, HallP, HamannU, HaringR, HartmanCA, HeathAC, HofmanA, HooningMJ, HopperJL, HuFB, HunterDJ, KarasikD, KielDP, KnightJA, KosmaVM, KutalikZ, LaiS, LambrechtsD, LindblomA, MägiR, MagnussonPK, MannermaaA, MartinNG, MassonG, McArdlePF, McArdleWL, MelbyeM, MichailidouK, MihailovE, MilaniL, MilneRL, NevanlinnaH, NevenP, NohrEA, OldehinkelAJ, OostraBA, PalotieA, PeacockM, PedersenNL, PeterlongoP, PetoJ, PharoahPDP, PostmaDS, PoutaA, PylkäsK, RadiceP, RingS, RivadeneiraF, RobinoAA, RoseLM, RudolphA, SalomaaV, SannaS, SchlessingerD, SchmidtMK, SoutheyMC, SovioU, StampferMJ, StöcklD, StornioloAM, TimpsonNJ, TyrerJ, VisserJA, VollenweiderP, VölzkeH, WaeberG, WaldenbergerM, WallaschofskiH, WangQ, WillemsenG, WinqvistR, WolffenbuttelBHR, WrightMJ, Australian Ovarian Cancer Study, The GENICA Network, kConFab, The LifeLines Cohort Study, The InterAct Consortium, Early Growth Genetics (EGG) Consortium, BoomsmaDI, EconsMJ, KhawKT, LoosRJF, McCarthyMI, MontgomeryGW, RiceJP, StreetenEA, ThorsteinsdottirU, van DuijnCM, AlizadehBZ, BergmannS, BoerwinkleE, BoydHA, CrisponiL, GaspariniPP, GiegerC, HarrisTB, IngelssonE, JärvelinMR, KraftP, LawlorD, MetspaluA, PennellCE, RidkerPM, SniederH, SørensenTIA, SpectorTD, StrachanDP, UitterlindenAG, WarehamNJ, WidenE, ZygmuntM, MurrayA, EastonDF, StefanssonK, MurabitoJM, Ong KK (2014)Parent-of-orgin specific allelic associations among 106 genomic loci for age at menarche. *Nature* 514(7520):92-97. PMCID: PMC4185210

**ROLE:** Contributed data; interpreted results; revised manuscript

1. Lawani SO, **Demerath EW**, Lopez FL, Soliman EZ, Huxley RR, Rose KM, Alonso A (2014) Birth weight and the risk of atrial fibrillation in whites and African Americans: the Atherosclerosis Risk in Communities (ARIC) Study. *BMC Cardiovascular Disorders* 14:69. PMCID: PMC4045869

**ROLE:** Advised student on analysis; interpreted results; revised manuscript

1. Bose M, Wu C, Pankow JS, **Demerath EW**, Bressler J, Fornage M, Grove ML, Mosley TH, Hicks C, North K, Kao WH, Zhang Y, Boerwinkle E, Guan W (2014) Evaluation of microarray-based DNA methylation measurement using technical replicates: the Atherosclerosis Risk in Communities (ARIC) Study. *BMC Bioinformatics* 15:312. PMCID: PMC4180315

**ROLE:** Interpreted results; revised manuscript

1. Zhu N, Jacobs DR Jr, Schreiner PJ, Yaffe K, Bryan N, Launer LJ, Whitmer RA, Sidney S, **Demerath E**, Thomas W, Bouchard C, He K, Reis J, Sternfeld B (2014) Cardiorespiratory fitness and cognitive function in middle age: The CARDIA Study. *Neurology* 82(15):1339-1346. PMCID: PMC4001190

**ROLE:** Assisted student in interpretation of results; revised manuscript

1. Ramel SE, Gray HL, Davern BA, **Demerath EW** (2015) Body composition at birth in preterm infants between 30-36 weeks gestation. *Pediatric Obesity* 10(1):45-51.

**ROLE:** Conceived of study; designed study; supervised data collection and analysis; created figures; interpreted results, wrote parts of manuscript.

1. Mueller NT, Pereira MA, **Demerath EW,** Dreyfus JG, MacLehose RF, Carr JJ, Terr JG, Jacobs DR Jr (2015) Earlier menarche is associated with fatty liver and abdominal ectopic fat in midlife, independent of young-adult BMI: The CARDIA Study. *Obesity* 23(2):468-474. PMCID: PMC4310794

**ROLE:** Interpreted results, revised manuscript

1. Mueller NT, Duncan BB, Barreto SM, Chor D, Vigo A, Aquino EM, **Demerath EW**, Schmidt MI (2015) Relative leg length is associated with type 2 diabetes differently according to pubertal timing: the Brazilian longitudinal study of adult health. *American Journal of Human Biology* 27(2):219-225. PMCID: PMC4344856

**ROLE:** Assisted student in design of analyses; assisted student in interpretation of results; revised manuscript

1. Aslibekyan S, **Demerath EW**, Mendelson M, Zhi D, Guan W, Liang L, Sha J, Pankow JS, Liu C, Irvin MR, Fornage M, Hidalgo B, Lin LA, Thibeault KS, Bressler J, Tsai MY, Grove ML, Hopkins PN, Boerwinkle E, Borecki IB, Ordovas JM, Levy D, Tiwari HK, Absher DM, Arnett DK (2015) Epigenome-wide study identifies novel methylation loci associated with body mass index and waist circumference. *Obesity* 23(7):1493-1501. PMCID: PMC4482015

**ROLE:** Contributed data, conducted some analyses, wrote part of manuscript, revised manuscript

1. Zhu N, Jacobs DR Jr, Schreiner PJ, Launer LJ, Whitmer RA, Sidney S, **Demerath E**, Thomas W, Bouchard C, He K, Erus G, Battapady H, Bryan RN (2015) Cardiorespiratory fitness and brain volume and white matter integrity: the CARDIA Study. *Neurology* 84(23):2347-2353. PMCID: PMC4464743

**ROLE:** Assisted student in interpretation of results; revised manuscript

1. Dreyfus J, Jacobs DR Jr, Mueller N., Schreiner PJ, Moran A., Carnethon MR, **Demerath EW** (2015) Age at menarche and cardiometabolic risk in adulthood: the Coronary Artery Risk Development in Young Adults Study. *Journal of Pediatrics* 167(2):344-352. PMCID: PMC4516565

**ROLE:** Conceived of study; assisted student in design of analyses; assisted student in interpretation of results; helped student write manuscript; revised manuscript

1. Bressler J, Franceschini N, **Demerath EW**, Mosley TH, Folsom AR, Boerwinkle E (2015) Sequence variation in telomerase reverse transcriptase (TERT) as a determinant of risk of cardiovascular disease: The Atherosclerosis Risk in Communities (ARIC) study. *BMC Medical Genetics* 16:52. PMCID: PMC4557920

**ROLE:** Interpreted results; revised manuscript

1. Ghobadzadeh M, **Demerath EW,** Tura Y (2015) Prevalence of blood pressure, blood glucose and serum lipids abnormalities among Ethiopian immigrants: A community-based cross-sectional study. *Journal of Immigrant and Minority Health* 17(4):1070-1077.

**ROLE:** Helped student design analysis, assisted student in conducted analysis, helped student write manuscript, revised manuscript.

1. **Demerath EW**, Guan W, Grove ML, Aslibekyan S, Mendelson M, Zhou YH, Hedman AK, Sandling JK, Li, LA, Irvin MR, Zhi D, Deloukas P, Liang L, Liu C, Bressler J, Spector TD, North K, Li Y, Absher DM, Levy D, Arnett DK, Fornage M, Pankow JS, Boerwinkle E (2015)Epigenome-wide association study (EWAS) of BMI, BMI change and waist circumference in African American adults identifies multiple replicated loci. *Human Molecular Genetics* 24(15):4464-4479. PMCID: PMC4492394.

**ROLE:** Conceived of study; designed analyses; conducted some analyses; interpreted results; wrote manuscript; revised manuscript

1. Lunetta KL, Day F, Sulem P, Ruth KS, Tung JY, Hinds DA, Esko T, Elks CE, Altmaier E, He C, Huffman JE, Mihailov E, Porcu L, Robino A, Rose LM, Schick U, Stolk L, Teumer A, Thompson DJ, Traglia M, Wang CA, Yerges-Armstrong LM, Antoniou AC, Barbieri C, Coviello AD, Cucca F, **Demerath EW**, Dunning AM, Gandin I, Grove ML, Gudbjartsson DF, Hocking LJ, Hofman A, Huang J, Jackson RD, Karasik D, Kriebel J, Lange EM, Lange LA, Langenberg C, Li X, Luan J, Magi R, Morrison AC, Padmanabhan S, Pirie A, Polasek O, Porteous D, Reiner AP, Rivadeneira F, Rudan I, Sala CF, Schlessinger D, Scott RA, Stockl D, Visser JA, Volker U, Vozzi D, Wilson JG, Zygmunt M, Generation Scotland, InterAct Consortium, Boerwinkle E, Buring JE, Crisponi L, Easton DF, Hayward C, Hu FB, Liu S, Metspalu A, Pennell CE, Ridker PM, Strauch K, Streeten EA, Toniolo D, Uitterlinden AG, Ulivi S, Volzke H, Wareham NJ, Wellons M, Franceschini N, Chasman DI, Thorsteinsdottir U, Murray A, Stefansson K, Murabito JM, Ong KK, Perry JR (2015) Rare coding variants and X-linked loci associated with age at menarche. *Nature Communications* 6:7756. PMCID: PMC4538850

**ROLE:**

1. Corrigendum: Rare coding variants and X-linked loci associated with age at menarche. *Nature Communications* 6:10257. PMCID: PMC4703878

**ROLE:** Interpreted results; revised manuscript

1. Mueller NT, Jacobs DR Jr, MacLehose RF, **Demerath EW**, Kelly SP, Dreyfus JG, Pereira MA (2015) Consumption of caffeinated and artificially sweetened soft drinks is associated with risk of early menarche. *American Journal of Clinical Nutrition* 102(3):648-654. PMCID: PMC4548172

**ROLE:** Interpreted results; revised manuscript

1. Day FR, Ruth KS, Thompson DJ, Lunetta KL, Pervjakova N, Chasman DI, Stolk L, Finucane HK, Sulem P, Bulik-Sullivan B, Esko T, Johnson AD, Elks CE, Franceschini N, He C, Altmaier E, Brody JA, Franke LL, Huffman JE, Keller MF, McArdle PF, Nutile T, Porcu E, Robino A, Rose LM, Schick UM, Smith JA, Teumer A, Traglia M, Vuckovic D, Yao J, Zhao W, Albrecht E, Amin N, Corre T, Hottenga JJ, Mangino M, Smith AV, Tanaka T, Abecasis GR, Andrulis IL, Anton-Culver H, Antoniou AC, Arndt V, Arnold AM, Barbieri C, Beckmann MW, Beeghly-Fadiel A, Benitez J, Bernstein L, Bielinski SJ, Blomqvist C, Boerwinkle E, Bogdanova NV, Bojesen SE, Bolla MK, Borresen-Dale AL, Boutin TS, Brauch H, Brenner H, Brüning T, Burwinkel B, Campbell A, Campbell H, Chanock SJ, Chapman JR, Chen YD, Chenevix-Trench G, Couch FJ, Coviello AD, Cox A, Czene K, Darabi H, De Vivo I, **Demerath EW**, Dennis J, Devilee P, Dörk T, Dos-Santos-Silva I, Dunning AM, Eicher JD, Fasching PA, Faul JD, Figueroa J, Flesch-Janys D, Gandin I, Garcia ME, García-Closas M, Giles GG, Girotto GG, Goldberg MS, González-Neira A, Goodarzi MO, Grove ML, Gudbjartsson DF, Guénel P, Guo X, Haiman CA, Hall P, Hamann U, Henderson BE, Hocking LJ, Hofman A, Homuth G, Hooning MJ, Hopper JL, Hu FB, Huang J, Humphreys K, Hunter DJ, Jakubowska A, Jones SE, Kabisch M, Karasik D, Knight JA, Kolcic I, Kooperberg C, Kosma VM, Kriebel J, Kristensen V, Lambrechts D, Langenberg C, Li J, Li X, Lindström S, Liu Y, Luan J, Lubinski J, Mägi R, Mannermaa A, Manz J, Margolin S, Marten J, Martin NG, Masciullo C, Meindl A, Michailidou K, Mihailov E, Milani L, Milne RL, Müller-Nurasyid M, Nalls M, Neale BM, Nevanlinna H, Neven P, Newman AB, Nordestgaard BG, Olson JE, Padmanabhan S, Peterlongo P, Peters U, Petersmann A, Peto J, Pharoah PD, Pirastu NN, Pirie A, Pistis G, Polasek O, Porteous D, Psaty BM, Pylkäs K, Radice P, Raffel LJ, Rivadeneira F, Rudan I, Rudolph A, Ruggiero D, Sala CF, Sanna S, Sawyer EJ, Schlessinger D, Schmidt MK, Schmidt F, Schmutzler RK, Schoemaker MJ, Scott RA, Seynaeve CM, Simard J, Sorice R, Southey MC, Stöckl D, Strauch K, Swerdlow A, Taylor KD, Thorsteinsdottir U, Toland AE, Tomlinson I, Truong T, Tryggvadottir L, Turner ST, Vozzi D, Wang Q, Wellons M, Willemsen G, Wilson JF, Winqvist R, Wolffenbuttel BB, Wright AF, Yannoukakos D, Zemunik T, Zheng W, Zygmunt M, Bergmann S, Boomsma DI, Buring JE, Ferrucci L, Montgomery GW, Gudnason V, Spector TD, van Duijn CM, Alizadeh BZ, Ciullo M, Crisponi L, Easton DF, Gasparini PP, Gieger C, Harris TB, Hayward C, Kardia SL, Kraft P, McKnight B, Metspalu A, Morrison AC, Reiner AP, Ridker PM, Rotter JI, Toniolo D, Uitterlinden AG, Ulivi S, Völzke H, Wareham NJ, Weir DR, Yerges-Armstrong LM; PRACTICAL Consortium.; kConFab Investigators.; AOCS Investigators.; Generation Scotland.; EPIC-InterAct Consortium.; LifeLines Cohort Study., Price AL, Stefansson K, Visser JA, Ong KK, Chang-Claude J, Murabito JM, Perry JR, Murray A (2015) Large-scale genomic analyses link reproductive aging to hypothalamic signaling breast cancer susceptibility and BRCA1-mediated DNA repair. *Nature Genetics* 47(11):1294-1303. PMCID: PMC4661791

**ROLE:**

1. Cobb LK, McAdams-DeMarco MA, Gudzune KA, Anderson CA, **Demerath E**, Woodward M, Selvin E, Coresh J (2016) Changes in body mass index and obesity risk in married couples over 25 years, the ARIC Cohort Study. *American Journal of Epidemiology* 183(5):435-443. PMCID: PMC4772434

**ROLE:** Interpreted results; revised manuscript

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**ROLE:**

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1. Turcot V, Lu Y, Highland HM, Schurmann C, Justice AE, Fine RS, Bradfield JP, Esko T, Giri A, Graff M, Guo X, Hendricks AE, Karaderi T, Lempradl A, Locke AE, Mahajan A, Marouli E, Sivapalaratnam S, Young KL, Alfred T, Feitosa MF, Masca NGD, Manning AK, Medina-Gomez C, Mudgal P, Ng MCY, Reiner AP, Vedantam S, Willems SM, Winkler TW, Abecasis G, Aben KK, Alam DS, Alharthi SE, Allison M, Amouyel P, Asselbergs FW, Auer PL, Balkau B, Bang LE, Barroso I, Bastarache L, Benn M, Bergmann S, Bielak LF, Blüher M, Boehnke M, Boeing H, Boerwinkle E, Böger CA, Bork-Jensen J, Bots ML, Bottinger EP, Bowden DW, Brandslund I, Breen G, Brilliant MH, Broer L, Brumat M, Burt AA, Butterworth AS, Campbell PT, Cappellani S, Carey DJ, Catamo E, Caulfield MJ, Chambers JC, Chasman DI, Chen YI, Chowdhury R, Christensen C, Chu AY, Cocca M, Collins FS, Cook JP, Corley J, Corominas Galbany J, Cox AJ, Crosslin DS, Cuellar-Partida G, D'Eustacchio A, Danesh J, Davies G, Bakker PIW, Groot MCH, Mutsert R, Deary IJ, Dedoussis G, **Demerath EW**, Heijer M, Hollander AI, Ruijter HM, Dennis JG, Denny JC, Angelantonio E, Drenos F, Du M, Dubé MP, Dunning AM, Easton DF, Edwards TL, Ellinghaus D, Ellinor PT, Elliott P, Evangelou E, Farmaki AE, Farooqi IS, Faul JD, Fauser S, Feng S, Ferrannini E, Ferrieres J, Florez JC, Ford I, Fornage M, Franco OH, Franke A, Franks PW, Friedrich N, Frikke-Schmidt R, Galesloot TE, Gan W, Gandin I, Gasparini P, Gibson J, Giedraitis V, Gjesing AP, Gordon-Larsen P, Gorski M, Grabe HJ, Grant SFA, Grarup N, Griffiths HL, Grove ML, Gudnason V, Gustafsson S, Haessler J, Hakonarson H, Hammerschlag AR, Hansen T, Harris KM, Harris TB, Hattersley AT, Have CT, Hayward C, He L, Heard-Costa NL, Heath AC, Heid IM, Helgeland Ø, Hernesniemi J, Hewitt AW, Holmen OL, Hovingh GK, Howson JMM, Hu Y, Huang PL, Huffman JE, Ikram MA, Ingelsson E, Jackson AU, Jansson JH, Jarvik GP, Jensen GB, Jia Y, Johansson S, Jørgensen ME, Jørgensen T, Jukema JW, Kahali B, Kahn RS, Kähönen M, Kamstrup PR, Kanoni S, Kaprio J, Karaleftheri M, Kardia SLR, Karpe F, Kathiresan S, Kee F, Kiemeney LA, Kim E, Kitajima H, Komulainen P, Kooner JS, Kooperberg C, Korhonen T, Kovacs P, Kuivaniemi H, Kutalik Z, Kuulasmaa K, Kuusisto J, Laakso M, Lakka TA, Lamparter D, Lange EM, Lange LA, Langenberg C, Larson EB, Lee NR, Lehtimäki T, Lewis CE, Li H, Li J, Li-Gao R, Lin H, Lin KH, Lin LA, Lin X, Lind L, Lindström J, Linneberg A, Liu CT, Liu DJ, Liu Y, Lo KS, Lophatananon A, Lotery AJ, Loukola A, Luan J, Lubitz SA, Lyytikäinen LP, Männistö S, Marenne G, Mazul AL, McCarthy MI, McKean-Cowdin R, Medland SE, Meidtner K, Milani L, Mistry V, Mitchell P, Mohlke KL, Moilanen L, Moitry M, Montgomery GW, Mook-Kanamori DO, Moore C, Mori TA, Morris AD, Morris AP, Müller-Nurasyid M, Munroe PB, Nalls MA, Narisu N, Nelson CP, Neville M, Nielsen SF, Nikus K, Njølstad PR, Nordestgaard BG, Nyholt DR, O'Connel JR, O'Donoghue ML, Olde Loohuis LM, Ophoff RA, Owen KR, Packard CJ, Padmanabhan S, Palmer CNA, Palmer ND, Pasterkamp G, Patel AP, Pattie A, Pedersen O, Peissig PL, Peloso GM, Pennell CE, Perola M, Perry JA, Perry JRB, Pers TH, Person TN, Peters A, Petersen ERB, Peyser PA, Pirie A, Polasek O, Polderman TJ, Puolijoki H, Raitakari OT, Rasheed A, Rauramaa R, Reilly DF, Renström F, Rheinberger M, Ridker PM, Rioux JD, Rivas MA, Roberts DJ, Robertson NR, Robino A, Rolandsson O, Rudan I, Ruth KS, Saleheen D, Salomaa V, Samani NJ, Sapkota Y, Sattar N, Schoen RE, Schreiner PJ, Schulze MB, Scott RA, Segura-Lepe MP, Shah SH, Sheu WH, Sim X, Slater AJ, Small KS, Smith AV, Southam L, Spector TD, Speliotes EK, Starr JM, Stefansson K, Steinthorsdottir V, Stirrups KE, Strauch K, Stringham HM, Stumvoll M, Sun L, Surendran P, Swift AJ, Tada H, Tansey KE, Tardif JC, Taylor KD, Teumer A, Thompson DJ, Thorleifsson G, Thorsteinsdottir U, Thuesen BH, Tönjes A, Tromp G, Trompet S, Tsafantakis E, Tuomilehto J, Tybjaerg-Hansen A, Tyrer JP, Uher R, Uitterlinden AG, Uusitupa M, Laan SW, Duijn CM, Leeuwen N, van Setten J, Vanhala M, Varbo A, Varga TV, Varma R, Velez Edwards DR, Vermeulen SH, Veronesi G, Vestergaard H, Vitart V, Vogt TF, Völker U, Vuckovic D, Wagenknecht LE, Walker M, Wallentin L, Wang F, Wang CA, Wang S, Wang Y, Ware EB, Wareham NJ, Warren HR, Waterworth DM, Wessel J, White HD, Willer CJ, Wilson JG, Witte DR, Wood AR, Wu Y, Yaghootkar H, Yao J, Yao P, Yerges-Armstrong LM, Young R, Zeggini E, Zhan X, Zhang W, Zhao JH, Zhao W, Zhou W, Zondervan KT; CHD Exome+ Consortium; EPIC-CVD Consortium; ExomeBP Consortium; Global Lipids Genetic Consortium; GoT2D Genes Consortium; EPIC InterAct Consortium; INTERVAL Study; ReproGen Consortium; T2D-Genes Consortium; MAGIC Investigators; Understanding Society Scientific Group, Rotter JI, Pospisilik JA, Rivadeneira F, Borecki IB, Deloukas P, Frayling TM, Lettre G, North KE, Lindgren CM, Hirschhorn JN, Loos RJF. (2018) Protein-altering variants associated with body mass index implicate pathways that control energy intake and expenditure in obesity. (2018) *Nature Genetics* 50(1):26-41.

**ROLE:**

1. Wang X, Pan Y, Zhu H, Hao G, Huang Y, Barnes V, Shi H, Snieder H, Pankow J, North K, Grove M, Guan W, **Demerath E**, Dong Y, Su S. (2018) An epigenome-wide study of obesity in African American youth and young adults: novel findings, replication in neutrophils, and relationship with gene expression. *Clinical Epigenetics* 10:3. PMCID: PMC5756368.  
   **ROLE:**
2. Fernández-Rhodes L, Malinowski JR, Wang Y, Tao R, Pankratz N, Jeff JM, Yoneyama S, Carty CL, Setiawan VW, Le Marchand L, Haiman C, Corbett S, **Demerath E**, Heiss G, Gross M, Buzkova P, Crawford DC, Hunt SC, Rao DC, Schwander K, Chakravarti A, Gottesman O, Abul-Husn NS, Bottinger EP, Loos RJF, Raffel LJ, Yao J, Guo X, Bielinski SJ, Rotter JI, Vaidya D, Chen YI, Castañeda SF, Daviglus M, Kaplan R, Talavera GA, Ryckman KK, Peters U, Ambite JL, Buyske S, Hindorff L, Kooperberg C, Matise T, Franceschini N, North KE. The genetic underpinnings of variation in ages at menarche and natural menopause among women from the multi-ethnic Population Architecture using Genomics and Epidemiology (PAGE) Study: A trans-ethnic meta-analysis. PLoS One. 2018 Jul 25;13(7):e0200486. doi: 10.1371/journal.pone.0200486. eCollection 2018.  
   **ROLE:**
3. Oyenuga M, Yang JK, Prizment AE, Bushhouse S, **Demerath EW**, Spector LG. Cancer patterns in Hmong in Minnesota, 2000 to 2012. Cancer. 2018 Sep 1;124(17):3560-3566. doi: 10.1002/cncr.31592. Epub 2018 Jul 5.  
   **ROLE:**
4. Scheurer JM, Zhang L, Plummer EA, Hultgren SA, **Demerath EW**, Ramel SE. Body Composition Changes from Infancy to 4 Years and Associations with Early Childhood Cognition in Preterm and Full-Term Children. Neonatology. 2018;114(2):169-176. doi: 10.1159/000487915. Epub 2018 Jun 13.  
   **ROLE:**
5. Berger PK, Fields DA, **Demerath EW**, Fujiwara H, Goran MI. High-Fructose Corn-Syrup-Sweetened Beverage Intake Increases 5-Hour Breast Milk Fructose Concentrations in Lactating Women. Nutrients. 2018 May 24;10(6). pii: E669. doi: 10.3390/nu10060669.  
   **ROLE:**
6. Dhana K, Braun KVE, Nano J, Voortman T, **Demerath EW**, Guan W, Fornage M, van Meurs JBJ, Uitterlinden AG, Hofman A, Franco OH, Dehghan A. An Epigenome-Wide Association Study of Obesity-Related Traits. Am J Epidemiol. 2018 Aug 1;187(8):1662-1669. doi: 10.1093/aje/kwy025.  
   **ROLE:**
7. Lucas K, James P, Choh AC, Lee M, Czerwinski SA, **Demerath EW**, Johnson W. The positive association of infant weight gain with adulthood body mass index has strengthened over time in the Fels Longitudinal Study. Pediatr Obes. 2018 Aug;13(8):476-484. doi: 10.1111/ijpo.12271. Epub 2018 Feb 28.  
   **ROLE:**
8. Geurts YM, Dugué PA, Joo JE, Makalic E, Jung CH, Guan W, Nguyen S, Grove ML, Wong EM, Hodge AM, Bassett JK, FitzGerald LM, Tsimiklis H, Baglietto L, Severi G, Schmidt DF, Buchanan DD, MacInnis RJ, Hopper JL, Pankow JS, **Demerath EW**, Southey MC, Giles GG, English DR, Milne RL. Novel associations between blood DNA methylation and body mass index in middle-aged and older adults. Int J Obes (Lond). 2018 Apr;42(4):887-896. doi: 10.1038/ijo.2017.269. Epub 2017 Oct 16.  
   **ROLE:**
9. Isganaitis E, S. Venditti, T. Matthews, C. Lerin, E. Demerath and D. Fields (in press). Maternal obesity and the human milk metabolome: associations with infant body composition and postnatal weight gain. Amer J Clin Nutr.
10. Dadres S., K. Whitaker, J. Haapala, L. Foster, K. Smith, A. Teague, D. Jacobs, E. Kharbanda, P. McGovern, T. Schoenfuss, L. Harnack, D. Fields and E. Demerath (2019). Relationship of maternal weight status before, during and after pregnancy with breast milk hormone concentrations. Obesity Apr;27(4):621-628
11. Tahir M. J. Haapala, L. Foster, K. Duncan, A. Teague, E. Kharbanda, P. McGovern, K. Whitaker, K. Rasmussen, D. Fields, D. Jacobs, L. Harnack and E. Demerath EW (2019). Higher maternal diet quality during pregnancy and lactation is associated with lower infant weight-for-length, body fat percent and fat mass in early postnatal life. Nutrients Mar 15;11(3)

### Non-Peer Reviewed Articles

1. **Demerath EW** (1999) In Memoriam: Barbara H. H. Roll. *American Journal of Human Biology* 11:429-431.

**ROLE:**

1. **Demerath EW (2000) “Proceedings of the Human Biology Association 25th Annual Meeting, April 10-12, 2000, Adam's Mark Hotel, San Antonio, Texas.” *American Journal of Human Biology* 12:850-856.**

**ROLE:**

1. **Demerath EW (2001) “Proceedings of the Human Biology Association 26th Annual Meeting, March 25-28, 2001, Westin Crown Plaza Hotel, Kansas City, Missouri.” *American Journal of Human Biology* 13:848-856.**

**ROLE:**

1. **Demerath EW** (2002) “**Proceedings of the Human Biology Association 27th Annual Meeting, April 12-14, 2002, Adam's Mark Hotel, Buffalo, New York.” *American Journal of Human Biology* 14:798-805.**

**ROLE: Wrote proceedings**

1. **Demerath EW, Brown D (2003) “Proceedings of the Human Biology Association 28th Annual Meeting April 25-27, 2003, Mission Palms Hotel, Tempe, AZ.” *American Journal of Human Biology* 15:843-848. ROLE: Wrote proceedings**

**ROLE:**

\*6. **Demerath EW**, Fields DA (2012) Challenges in infant body composition. *Pediatric Research* 72(3):329; author reply 330-331.

**ROLE:** Wrote editorial/author reply.

\*7. **Demerath EW**, Johnson W (2013) Pediatric body composition references: What’s missing? (Invited editorial). *American Journal of Clinical Nutrition* 98(1):1-3. PMCID: PMC3683813

**ROLE:** Wrote one half of manuscript; edited and revised written and revised manuscript

### Non-Peer Reviewed Book Chapters

1. Cameron N, **Demerath EW** (2001) Growth, maturation & the development of obesity. In: F.E. Johnston, G. Foster, eds. *Obesity, Growth and Development*. Smith-Gordon. London, UK.

**ROLE:** Researched and wrote one-half of the book chapter

2. Towne B, **Demerath EW**, Czerwinski SA (2002) The genetic epidemiology of growth and development. In: N Cameron, ed. *Human Growth and Development*, Academic Press. San Diego. p. 103-137.

**ROLE:** Researched and wrote one-third of the book chapter

3. Czerwinski SA, Towne B, Williams JT, Wisemandle WA, **Demerath EW**, Chumlea WC, Guo SS, Siervogel RM (2002) Childhood growth and adult overweight risk: A quantitative genetic analysis. In: G Gilli, LM Schell, L Benso, eds. *Human Growth from Conception to Maturity*, Smith-Gordon. London UK. p. 125-132.

**ROLE:** Researched and wrote one-quarter of the book chapter

4. Towne B, **Demerath EW**, Czerwinski SA (2012) The genetic epidemiology of growth and development. In: Cameron N, Bogin B, eds. *Human Growth and Development*. Academic Press/Elsevier.

**ROLE:** Researched and wrote one third of the book chapter

5. **Demerath EW**, Czerwinksi SA, Chumlea WC. (2013) Height, weight, and body mass index in childhood. In: Berdanier C. Dwyer JT, Heber D, eds. *Handbook of Nutrition and Food, 3rd ed*. *CRC* Press. Boca Raton, FL. p. 641-657

**ROLE:** Researched and wrote entire book chapter

### Non-Peer Reviewed Book Reviews

1. **Demerath EW** (1997) The future of anthropological knowledge. (H Moore, ed.) *J Biosoc Sci* 29:373-374.

2. **Demerath EW** (2003) Rising life expectancy: A global history (J. Riley, ed). *Human Biology* 75(1):135-137.

***Reports***

1. **Demerath EW** (2003) “Obesity Screening in Dayton Public Schools: A Pilot Study”. Dayton Public School District: Obesity Screening Program (Marianne Urban, Director).

***Invited Presentations*** (listed presentations only include those where Demerath was lead presenter) (since 2005)

1. **Demerath EW.** Factors in Youth That Protect Against Aging. Plenary speaker. National Institute on Aging Summer Retreat. Gettysburg, Pennsylvania. June, 2005.

2. **Demerath EW.** Population Health Studies at the Lifespan Health Research Center. Invited seminar speaker. Dayton Children’s Medical Center. Dayton, Ohio. October, 2005.

3. **Demerath EW.** Longitudinal and Genetic Studies of Obesity and the Metabolic Syndrome at the Lifespan Health Research Center. Invited speaker. Edison Biotechnology Institute. Ohio University, Athens, Ohio. October, 2005.

4. **Demerath EW**. Developmental Orgins of Obesity and Related Disease Risks. Invited seminar speaker. Ohio State University School of Public Health. Columbus, Ohio. February, 2006.

5. **Demerath EW**. Genetic and Developmental Aspects of Growth and Body Composition over the Lifespan. Invited seminar speaker. University of Minnesota, Division of Epidemiology and Community Health. Minneapolis, Minnesota. March, 2006.

6. **Demerath EW**. Body Composition Regulation Across the Lifespan. Organizer, commentator at the National Institute on Aging Spring Workshop on Protective Factors in Youth. Bethesda, Maryland. March, 2006.

7. **Demerath EW**. Genetic and Developmental Aspects of Growth and Body Composition over the Lifespan. Invited seminar speaker. Department of Ambulatory Care and Prevention Harvard Pilgrim Health Care, Harvard Medical School. Boston, Massachusetts. July, 2006.

8. **Demerath EW**. Linear Growth Suppression Persists Past 4 Months Corrected Age in AGA VLBW Preterm Infants. Invited lecture. Baltimore, Maryland. May 2, 2009.

9. **Demerath EW.** Infant Weight Gain and Obesity: 70 Years of Data from the Fels Longitudinal Study. Invited lecture. 2009 School of Biological Anthropology Conference. Zagreb, Croatia. June 6, 2009.

10. **Demerath EW.** Rapid Infant Growth. Invited lecture. National Maternal Intensive Course Conference. Minneapolis, Minnesota. July 28, 2009.

11. **Demerath EW**. Concurrent Secular Trends in Birth Weight and Infant Gain, 1929-1999: The Fels Longitudinal Study. Invited lecture. Obesity Society Meetings. October, 2009.

12. **Demerath EW**. Post-natal Changes in Body Composition in Term and Preterm Infants. Invited speaker. Life Measurements, Inc. Dinner, Pediatric Academic Society Meetings. Vancouver, British Columbia. May 3, 2010.

13. **Demerath EW**. From Simians to Similac: The Evaluation of Infant Feeding and Growth. Invited speaker. University of Minnesota Southwest Research and Outreach Center. Lamberton, Minnesota. October 26, 2010.

14. **Demerath EW.** Noval Loci for Central Adiposity: The CARe Consortium. Invited speaker. Obesity Society Meetings. San Diego, California. November, 2010.

15. **Demerath EW**. Current Work on the Genetics of Central Adiposity: the CARe Consortium. Invited speaker. CVD Epidemiology Group Meeting, Epidemiology and Community Health, University of Minnesota. Minneapolis, Minnesota. January 28, 2011.

16. **Demerath EW**. Genetic Epidemiology of the Timing of Sexual Maturation in Girls: Recent Findings. Invited lecture. Institute of Human Genetics, University of Minnesota. Minneapolis, Minnesota. March 3, 2011.

17. **Demerath EW**. Genetics of Age at Menarche: New Findings from Genome-Wide Association Studies. Invited symposium speaker. American Association of Physical Anthropology. Minneapolis, Minnesota. April 15, 2011.

18. **Demerath EW.** Emergence of Greater Stature and Advanced Skeletal Maturity During Infancy in Overweight Young Adults. Invited speaker. Pediatric Academic Society Meetings. Denver, Colorado. May 2, 2011.

19. **Demerath EW**. Genetic Variants Associated With Earlier Menarche Exhibit Significant Associations With Infant Linear Growth. Invited speaker. Obesity Society’s Annual Meeting. Orlando, Florida. October 1-5, 2011.

20. **Demerath EW**. Maternal Obesity and Infant Body Composition. Invited seminar speaker. Iowa State University. Ames, Iowa. October 26, 2011.

21. **Demerath EW**. Early Life Influences on Infant Body Composition and Later Outcomes. Invited speaker. Pennington Scientific Symposium Meetings, Pennington Biomedical Research Center. Baton Rouge, Louisiana. December 5-6, 2011.

22. **Demerath EW**.Is Genetic Risk for Earlier Menarche Associated With Peri-Pubertal BMI? Presented at the Society for Epidemiologic Research. Minneapolis, Minnesota. June 27-30, 2012.

23. **Demerath EW**. Assessment of Infant Growth Faltering. Invited Speaker. National Maternal Nutrition Intensive Course. Minneapolis, Minnesota. July 20-21, 2012.

24. **Demerath EW**. The Genetics of Obesity in Transition. Invited Speaker. International Workshop, Anthropology of Transition and Tradition. Hvar, Croatia. September 12-14, 2012.

25. **Demerath EW**. Secular Trends in the Effect of an Obesity Genetic Risk Score on Adulthood BMI and Adiposity. Podium Presentation: Genetics of Obesity Session. Obesity Society (TOS) 30th Annual Scientific Meeting. San Antonio, Texas. September 20-24, 2012.

26. **Demerath EW**. Body Composition in the Neonate: New Technology to Guide Therapy and Assess Long-Term Risks. Invited Speaker, Neonatal Nutrition: Assessment, Intervention, and Management. Minneapolis, Minnesota. October 3-5, 2012.

27. **Demerath EW.** Infant Body Composition: Assessment and Relevance for the Development Origins of Disease. Invited seminar speaker. University of North Carolina. Chapel Hill, North Carolina. February 12-14, 2013.

28. **Demerath EW**. Genome-Wide Methylation Study of Body Mass Index (BMI) in African American Adults: Preliminary Data from the ARIC Study. Podium Presentation: Next Generation Genetic Approaches. American Heart Association Epidemiology and Prevention Council. New Orleans, Louisiana. March 20-22, 2013.

29. **Demerath EW.** Epigenetics of Obesity. Invited University Lecturer, School of Sport and Exercise Science, Loughborough University. United Kingdom. October 16, 2013.

30. **Demerath EW.** Maternal Transmission of Obesity. Invited seminar speaker. Center for Global Health and Human Development, School of Sport and Exercise Science. Loughborough University, UK. October 17, 2013.

31. **Demerath EW.** Infant Body Composition: Developmental Plasticity and Assessment. Distinguished Scholar Speaker at the Annual Rosevear Lecturer Seminar. Department of Nutritional Sciences, University of Cincinnati. Cincinnati, Ohio. March, 28, 2014.

32. **Demerath EW.** Epigenetics of Obesity: Epigenome-wide Association Study in African American Adults. Invited seminar speaker. Division of Environmental Health Sciences, University of Minnesota, School of Public Health. Minneapolis, Minnesota. April 3, 2014.

33. **Demerath EW.** Epigenetics of Obesity: Epigenome-Wide Association Study in African American Adults. Invited lecture. Medical Research Council Epidemiology Unit, University of Cambridge. Cambridge, United Kingdom. May 15, 2014.

34. **Demerath EW.** Epigenetics of Obesity: Epigenome-Wide Association Study in African American Adults. Invited lecture. Tobacco and Obesity Retreat Symposium, Obesity Prevention Center, University of Minnesota. Minneapolis, Minnesota. February 11, 2015.

35. **Demerath EW.** Epigenetics of Obesity: What Can Epidemiology Tell Us? Invited lecture. Center for Obesity Research & Education, College of Public Health, Temple University. Philadelphia, Pennsylvania. March 6, 2015.

36. **Demerath EW**. Maternal Obesity, Breast Milk Composition, and Infant Growth. Plenary session invited lecture. Human Biology Association Annual Meeting. St. Louis, Missouri. March 25, 2015.

37. **Demerath EW.** The Milk of Paradise? New Research on Maternal Obesity, Breast Milk Quality and Infant Metabolic Health. Invited seminar speaker at the 2015 Hot Topics in Pediatrics Conference, Minnesota Chapter of the American Academy of Pediatrics. Bloomington, Minnesota. May 1, 2015.

38. **Demerath EW.** The Milk of Paradise? Maternal Obesity, Breast Milk Quality and Infant Metabolic Health. Child Health Research Center Seminar Speaker, Center for Perinatal Research, Research Institute at Nationwide Children's Hospital. Cincinnati, Ohio. June 18, 2015.

39. **Demerath EW**. Message in a Bottle: The intergenerational transmission of obesity.2017. UMN Pediatric Grand Rounds. .

40. **Demerath EW**. Message in a Bottle: The intergenerational transmission of obesity. 2018. UMN Center for Neurobehavioral Development.

41. **Demerath EW**. Message in a Bottle: The Intergenereational Transmission of Obesity. 2019 UAB

### Published Abstracts (since 2000): All Peer-reviewed and Presented at National Conferences

1. Towne B, Blangero J, **Demerath EW,** Czerwinski SA, and Siervogel RM (2000) Longitudinal quantitative genetic analysis of subcutaneous fat deposition during childhood. *Obesity Research* 8(Suppl. 1): 21S*.*
2. **Demerath EW** and Neal WA (2000) Coronary Artery Risk Detection in Appalachian Communities (CARDIAC): Results from the Pilot Phase. *Circulation* 101(6): 735.
3. **Demerath EW,** Towne B, Czerwinski SA, and Siervogel RM (2000) Covariate effect of birth weight in a genetic analysis of fasting insulin and glucose concentrations in adulthood. *Diabetes* 49 Suppl. 1: A183.
4. Czerwinski SA, Towne B, **Demerath EW,** and Siervogel RM (2000) Different genes influence glucose levels before and after oral glucose challenge. *Diabetes* 49 Suppl. 1: A182.
5. Czerwinski SA, Wisemandle WA, Towne B, **Demerath EW,** Guo SS, Chumlea WC, Siervogel RM (2000) The relationship between physical growth in stature and onset of overweight. *Obesity Research* 8(S1): 19S.
6. Czerwinski SA, Towne B, Williams JT, **Demerath EW,** Chumlea WC, Guo SS, Siervogel RM (2000) Childhood growth and adult chronic disease risk: a quantitative genetic analysis. *Acta Medica Auxologica* 32(1): 43.
7. Spangler E, Gordon P, **Demerath EW,** Neal WA (2000) Relationship of physical activity with other cardiovascular risk factors in rural fifth grade students. *Medicine & Science in Sport and Exercise* 32 (5): S173.
8. **Demerath EW,** Czerwinski SA, Towne B, Guo SS, Chumlea WC, and Siervogel RM (2001) Genetic relationships between age at adiposity rebound and changes in childhood BMI. *Obesity Research* 9(Suppl 3):88S.
9. **Demerath EW,** Muratova VN, Spangler E, Li J, and Neal WA (2001) Obesity screening as a means of identifying children with adverse CVD risk factors: the CARDIAC project. *Obesity Research* 9(Suppl 3): 164S
10. **Demerath EW,** Zeller C, Towne B, Guo SS, Chumlea WC, Siervogel RM (2001) Menopausal status and current usage of oral contraceptives and hormone replacement therapy in relationship to soluble concentrations of adhesion molecules. *Circulation* 103: 1357
11. **Demerath EW** (2001) High prevalence of obesity in rural Appalachian children. *American Journal of Human Biology* 13:117-118.
12. Siervogel RM, Czerwinski SA, Maynard LM, Wilson AF, **Demerath EW,** Guo SS, Rogers NL, and Towne B (2001) Genetic analysis of blood pressure and blood pressure response to orthostatic stress: are the same genes involved in both traits? *Circulation* 103:1354b.
13. Czerwinski SA, Williams JT, Wisemandle WA, Towne B, **Demerath EW,** Guo SS, Chumlea WC, and Siervogel RM (2001) Genetic and environmental contributions to childhood growth in stature and lifetime overweight risk. *Circulation* 103:1352d.
14. Towne B, Czerwinski SA, **Demerath EW,** Blangero J and, Siervogel RM (2001) Age-related changes in the genetic regulation of the body mass index (BMI) during adulthood. *Obesity Research* 9(Suppl 3):88S.
15. Towne B, Rogers NL, **Demerath EW,** Czerwinski SA, Guo SS, Chumlea WC, and Siervogel RM (2001) Quantitative genetics of body composition and homeostasis model assessment (HOMA) measures of insulin sensitivity and beta-cell function. *Circulation* 103:1353a.
16. **Demerath EW,** Czerwinski SA, Towne B, Guo SS, Chumlea WC, Siervogel RM (2002) Fetal and infant growth rate: genetic and environmental correlations. *American Journal of Human Genetics* 71: 356.
17. **Demerath EW,** Li J, Towne B, Guo SS, Chumlea WC, Siervogel RM (2002) Secular changes in the pattern of BMI increase during puberty: The Fels Longitudinal Study. *Am. J. Human Biology* 14: 109.
18. Czerwinski SA, Towne B, **Demerath EW**, Siervogel RM (2003) Heritability of bone turnover markers in healthy adults: The Fels Longitudinal Study. *Calcified Tissue International* 72: 271*.*
19. Czerwinski SA, **Demerath EW**, Subedi J, Jha B, Blangero J, Williams-Blangero S, Towne B (2003) Heritability of frame size during childhood: The Jiri Growth Study. *American Journal of Human Biology* 15: 258.
20. Lund R, Bellisari A, Rogers N, Siervogel RM, Towne B, Sun SS, Chumlea WC, **Demerath EW** (2003) Quantification of visceral adipose tissue volume using a multiple-slice MRI protocol: Measurement error and reliability. *American Journal of Human Biology* 15: 272.
21. **Demerath EW**, Czerwinski SA, Subedi J, Jha B, Blangero J, Williams-Blangero S, Towne B (2003) Heritability of childhood adiposity traits in Nepal: The Jiri Growth Study. *American Journal of Human Biology* 15: 259.
22. Wentling VJ, Schubert CM, Bailey MW, Wurzbacher KA, **Demerath EW**, Czersinski SA, Siervogel RM (2003) Peak blood pressure response to exercise in associated with future hypertension: The Fels Longitudinal Study. *Medicine and Science in Sports and Exercise* 35:S71.
23. Bailey MW, Schubert CM, Wentling VJ, Wurzbacher KA, Czerwinski SA, **Demerath EW,** Siervogel RM (2003) Cardiorespiratory fitness during adulthood and CVD risks twenty years later: The Fels Longitudinal Study. *Medicine Science in Sports and Exercise* 35: S71.
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**†**132. Choh AC, Lee M, Towne B, Czerwinski SA, **Demerath EW**, Johnson W, Curran JE, Bellis C, Dyer TD, Blangero J. (2012)Differential genetic effects influence BMI from birth to middle adulthood: The Fels Longitudinal Study. *Obesity* *2012. 30th Annual Scientific Meeting. San Antonio, Texas, September 20-24, 2012.* S210.

1. Towne B, Blangero J, Choh AC, Curran JE, Bellis C, Dyer TD, **Demerath EW**, Lee M, Siervogel RM, Czerwinski SA. (2012) Genome-wide association analysis of percent body fat in adults from the Fels Longitudinal Study. *American Society of Human Genetics Annual Meeting, San Francisco, November 6-10*. No. 2146T, Page 201.
2. Chanock S, Chasman D, **Demerath E**, Garcia M, Hankinson S, Hu F, Hunter D, Kunetta K, Metspalu A, Montgomery G, Murabito J, Newman A, Ong K, Spector T, Stefansson K, Swerdlow A, Thorsteinsdottir U, Van Dam R, Uitterlinden AG, Visser J, Vollenweider P, Toniolo D, Murray A on behalf of Reprogen Consortium. (2012) A genome-wide association study of early menopause and the predictive impact on identified variants on risk. *American Society of Human Genetics Annual Meeting, San Francisco, November 6-10.* No. 2165F, Page 202.
3. Bucasas KL, Wang GT, Auer PL, Kan M, Murabito JM, Franceschini N, **Demerath EW**, Lunetta KL, Rodriquez A, Lange LA, Jackson RD, Leal SM, NHLBI Exome Sequencing Project. (2012) Rare variants are strongly associated with age of menarche: First results from NHLBI-Exome Sequencing Project. *American Society of Human Genetics Annual Meeting, San Francisco, November 6-10.* No. 2336F, Page 210.
4. **Demerath EW**, Guan W, Pankow JS, Grove ML, North KE, Fornage M, Bressler J, Mosley Jr. TH, Boerwinkle EA. (2013*)* Genome-wide methylation study of body mass index (BMI) in African American adults: Preliminary data from the ARIC Study. *Circulation* 127:A052

**†**137. Dreyfus J, Jacobs DR, **Demerath EW** (2013*)* The association of early menarche and changes in LDL-C during adolescence for African-American and White Girls. *Circulation* 127:A037

1. Pankow JS, **Demerath EW**, Guan W, Fornage M, Mosley TH, Bressler J. (2013) Epigenome-wide DNA methylation profiling in a CVD cohort: The ARIC Study. *Circulation* 127:AMP32
2. Lee M, Choh AC, Curran JE, **Demerath EW**, Bellis C, Dyer TD, Blangero J, Towne B, Czerwinski SA. *(*2013*)* Significant associations between genetic variation on chromosome 10p and arterial stiffness in adults from the Fels Longitudinal Study. *Circulation* 127:AMP34

**†**140. Choh AC, Lee M, Curran JE, **Demerath EW**, Dyer TD, Siervogel RM, Blangero J, Towne B, Czerwinski SA. *(*2013*)* Genetic linkage an association of echocardiographic measures in the Fels Longitudinal Study. *Circulation* 127:AP153

1. Young KL, Monda KL, **Demerath EW**, Lao WHL, Boerwinkle E, North KE. *(*2013*)* Does physical activity modify the association of 15 well-established obesity loci with BMI: The ARIC Study. *Circulation* 127:AP157
2. **Demerath EW,** Fields D. *(*2013*)* Sex differences in human milk adipoctokine concentrations. *American Journal of Human Biology*. 25(2):256.

**†**143. Johnson W, Choc AH, Lee M, Towne B, Czerwinski SA, **Demerath EW**. (2013). Magnitude and timing of the peak of infant BMI is influenced by both environmental and genetic factors. *American Journal of Human Biology*. 25(2):261.

1. **Demerath, EW**, Johnson W, Gray HL, Davern B, Anderson C, Misra S, Georgieff MK, Ramel SE. (2013) Preliminary body composition reference values for preterm infants born at 30-36 weeks gestation. Pediatric Academic Societies Abstracts Online: EPAS2013: 3828:462.
2. McCarthy P, Gray H, **Demerath EW**, Georgieff M, Ramel S. (2013) Impact of nutritional and non-nutritional factors on fat-free mass gains in very low birth weight infants. Pediatric Academic Societies Abstracts Online: EPAS2013: 3828:467.

**†**146. Mueller NT, MacLehose RF, Jacobs DR, **Demerath EW**, Dreyfus JG, Pereira MA. (2014) Diet quality in mid-childhood and incident early menarche in a biracial sample of US girls. New York City Epidemiology Forum First Annual Conference Abstract Book. Abstract 2-42. Page 128.

**†**147. Mueller NT, Pereira MA, **Demerath EW,** MacLehose RF, Carr JJ, Terry JG, Jacobs DR. (2014) Age at menarche is inversely associated with liver steatosis and abdominal fat depots: CARDIA Study. *Circulation* 129:AMP68.

1. Cobb LK, McAdams-DeMarco M, Anderson CA, **Demerath EW,** Woodward M, Selvin E, Coresh J. (2014) Body mass index and change in obesity status over 25 years: The relationship within spouse pairs in the Atherosclerosis Risk in Communities Study. *Circulation* 129:AP087*.*
2. **Demerath EW**, Davern B, Misra S, Anderson C, Gray H, Ramel SE. (2014) Maternal diabetes is associated with higher percent body fat as early as 30-36 weeks gestation. Pediatric Academic Societies Abstracts Online: EPAS2014: 3807.170.

**†**150. Scheurer JM, Gray HL, Weir K, Miller NC, **Demerath EW**, Ramel SE. (2014) Body composition trajectories from infancy to preschool age in term and preterm infants. Pediatric Academic Societies Abstracts Online: EPAS2014: 2933.480.

1. Christiansen EC, Gray HL, Davern B, **Demerath EW**, Ramel SE. (2014) Early nutritional support influences body composition at four months corrected age in very low birth weight preterm infants. Pediatric Academic Societies Abstracts Online: EPAS2014: 2933.482.

**†**152. Scheurer JM, Gray HL, Davern BA, **Demerath EW**, Rao R, Ramel SE. (2014) Neonatal hyperglycemia alters body composition at 4 months corrected age in very low birth weight infants. Pediatric Academic Societies Abstracts Online: EPAS2014: 2934.491.

**†**153. Johnson W, Choh AC, Lee M, Odegaard AO, Towne B, Czerwinski SA, **Demerath EW**. Is low infant BMI "Protective"? Counterintuitive relationship of infant BMI Z score with later life body composition trajectories. *The 32nd Annual Scientific Meeting of the Obesity Society*. Boston, MA; 2014:587.

1. Guan W, Wu C, Wu B, Li Y, Pankow J, **Demerath EW,** Bressler J, Fornage M, Grove ML, Mosley T, Hicks C, Boerwinkle E. Efficient multiple imputation for missing phenotype using genome-wide DNA methylation data. *The American Society of Human Genetics 2014 Annual Meeting.* October 18-22, 2014, San Diego, CA.
2. Chu, AY, Allison M, Borecki I, Choh AC, Cupples LA, **Demerath EW**, Deng X, Feitosa M, Fisher V, Fox C, Harris T, Heard-Costa N, Kacprowski T, Moritz-Arndt E. (2015) Meta-analysis of up to 14,262 individuals identifies loci associated with measures of subcutaneous fat volume and attenuation. *Circulation* 131:AP360.
3. **Demerath EW**, Fields DA. (2015) Maternal obesity, breast milk composition and infant growth. *American Journal of Human Biology* 27:443.
4. Chu A, Allison M, Borecki I, Choh AC, Cupples A, **Demerath EW**, Deng X, Feitosa M, Fisher V, Fox CS, Harris T, Heard-Costa NL, Kacprowski T, Langefeld C, Lindgren C, Lu L, Lu Y, Mahajan A, Stafford J, Smith A, Volzke H, Wallaschofski H, Yao J. Meta-analysis of up to 14,262 individuals identifies loci associated with measures of subcutaneous fat volume and attenuation. *Lifestyle and Cardiometabolic Health 2015 Scientific Sessions*. Baltimore, MD; 2015:(under review).

**†**158. Ramel SE, Gray HL, **Demerath EW**. (2015) The relationship of early body composition and 1 year neurodevelopment in very low birth weight preterm infants. Pediatric Academic Societies Abstracts Online: EPAS2015: 2904.443

1. **Demerath EW**, Zhang L, Misra S, Anderson CG, Ramel SE. (2015) Can anthropometric measures predict body composition in preterm infants? Pediatric Academic Societies Abstracts Online: EPAS2015: 1172.1
2. ScheurerJM, Gray HL, Hultgren S, Weir K, **Demerath EW**, Ramel SE. (2015) Preterm infants’ fat-free mass accretion impacts preschool cognition. Pediatric Academic Societies Abstracts Online: EPAS2015: 3130.6.
3. George, B, Williams M, Allison, D, Fields D, **Demerath EW**. (*in press*). The association of maternal BMI with appetite and growth regulating hormornes in human breast milk differs by sex of the infant. Obesity Week 2015, Los Angeles, CA, November 2-7, 2015.
4. **Demerath, EW**, Duan, Q, Li, Y, Guan W, Grove ML, Bressler J, Fornage M, Boerwinkle E, Pankow JS, North K. (*in press*). Genetic influences on BMI-related methlylation in African American adults: The ARIC Study. Obesity Week 2015, Los Angeles, CA, November 2-7, 2015.

†163. Choh AC, Czerwinski SA, **Demerath EW**, Marlatt K, MacLehose R. (*in press*) Visceral adipose tissue accumulates rapidly when percent body fat exceeds 30% in women and 16% in men aged 18-59 years. Obesity Week 2015, Los Angeles, CA, November 2-7, 2015.

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| --- | --- | --- | --- |
| **TEACHING**  ***University of Minnesota - Graduate Teaching/Lectures*** | | | |
| **Course** | **Institution** | **Date** | |
| PubH 6066 Children’s Health: Issues, Programs, and Policies  (sole instructor) | Epidemiology and Community Health | 2016-present | |
| PubH 6915 Nutrition Assessment  (co-instructor) | Epidemiology and Community Health | 2015-present | |
| PubH 6381 Genetics in Public Health (sole instructor) | Epidemiology and Community Health | 2008-present | |
| PubH 6355: Pathophysiology of Human Disease  (one lecture/year “Obesity”) | Epidemiology and Community Health | 2007-present | |
| PubH 6950: Obesity and Eating Disorders: Etiology, Treatment, and Prevention (one lecture/year; “Obesity Assessment” or “Genetics of Obesity”) | Epidemiology and Community Health | 2007-2013 | |
| “Body Composition in the Neonate: New Technology to Guide Therapy and Assess Long-Term Risks” | Department of Pediatrics, School of Medicine Continuing Education | Fall, 2012 | |
| National Maternal Nutrition Intensive Course Instructor “Assessing infant weight faltering”, and “Rapid infant weight gain and later obesity”) | SPH Continuing Education | Summer, 2012/ Summer, 2009 | |
| KIN 5585: Pediatric Physiology and  Health (One lecture/year, “Early life  origins of child obesity”) | Department of Kinesiology, College of Education and Human Development | 2012-2014 | |
| ***Other Universities - Undergrad Teaching/Lectures*** | | | |
| **Course** | **Institution** | | **Date** |
| Introduction to Research  (one lecture/year) | Wright State University  School of Medicine, Biomedical Sciences Graduate Program | 2000-2007 | |
| Introduction to Statistics  (2-hour lecture) | Wright State University School of Medicine, STREAMS program | Summer, 2003 | |
| Applied Nutrition in the Community | University of Pennsylvania Department of Anthropology | | 1997 |
| Introduction to Physical Anthropology | Wright State University Dept. of Sociology and Anthropology | | 1998-1999 |

**ADVISING AND MENTORING**

***Undergraduate Student Activates – University of Minnesota***

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| --- | --- | --- | --- | --- |
| **Student** | **Degree Sought** | **Major** | **Advisor’s Role** | **Completion Date** |
| Abby Rapacz | Undergrad | Anthropology | Research Project Advisor | 2010 |

***Master’s Student Advisees – University of Minnesota***

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| **CURRENTLY ACTIVE** | | | | |
| **Student** | **Degree Sought** | **Major** | **Advisor’s Role** | **Date** |
| Andrew Sieben | MPH | MCH | Academic Advisor | 2015-present |
| **Title of Thesis:** Not yet completed | | | | |

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| Ran Zho | MPH | | Epidemiology | | Academic Advisor | | 2015-present | |
| **Title of Thesis:** Not yet completed | | | | | | | | |
| Tory McLaughlin Bruch | MPH | | MCH | | Academic Advisor | | 2015-present | |
| **Title of Thesis:** Not yet completed | | | | | | | | |
| Neely Miller | MPH | | MCH | | Academic Advisor | | 2014-present | |
| **Title of Thesis:** Not yet completed | | | | | | | | |
| Leah Mahoney | MPH | | MCH | | Academic Advisor | | 2014-present | |
| **Title of Thesis:** Not yet completed | | | | | | | | |
| Jennifer Peck | | MPH | | MCH-Online | | Academic Advisor | | 2013-Present | |
| **Title of Thesis:** Not yet completed | | | | | | | | | |
| Jacob Haapala | | MPH | | Epidemiology | | Academic Advisor | | 2013-Present | |
| **Title of Thesis:** Not yet completed | | | | | | | | | |
| John Yang | | MPH | | Epidemiology | | Academic Advisor | | 2013-Present | |
| **Title of Thesis:** Not yet completed | | | | | | | | | |

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| **FORMER ADVISEES** | | | | |
| **Student** | **Degree Sought** | **Major** | **Advisor’s Role** | **Completion Date** |
| Kara Marlatt | MPH | Epidemiology | Project Advisor | 2012-2015 |
| **Title of Thesis:** Investigating Sex-Specific Percent Body Fat Cut-Points for Increased Visceral and Abdominal Subcutaneous Adipose Tissue Accrual in Adults | | | | |
| Steve Nguyen | MPH | Epidemiology | Project Advisor | 2013-2015 |
| **Title of Thesis**: Household Obesity Epigenetics: Spouse Correlations for BMI-Related DNA Methylation | | | | |
| Marcia McCoy | MPH | MCH-Online | Academic Advisor  Project Advisor | 2015 |
| **Title of Thesis:** The Effects of Peer Counseling and Parity on Breastfeeding Initiation and Cessation: an Analysis of Minnesota Participants in the Special Supplemental Nutrition Program for Women | | | | |

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| Marijke van Roojen | | MPH | | MCH-Online | | | Academic Advisor  Project Advisor | | 2015 | |
| **Title of Thesis:** Pulse Oximetry Screening for Heart Defects in Out-of-Hospital Births: Understanding the Challenges | | | | | | | | | | |
| Maryann Ghobadzadeh | | MPH | | MCH | | | Academic Advisor  Project Advisor | | 2014 | |
| **Title of Thesis:** Prevalence of blood pressure, blood glucose and serum lipids abnormalities among Ethiopian immigrants | | | | | | | | | | |
| Andrew Thersleff | | MPH | | Epidemiology | | | Academic Advisor  Project Advisor | | 2013 | |
| **Title of Thesis:** Change in Visceral Adipose Related to Activity Level in a Seven Year Cohort (Fels Longitudinal Study) | | | | | | | | | | |
| Sherifat Lawani | MPH | | MCH | | Project Advisor | | | 2012 | |
| **Title of Thesis:** Birth weight and the risk of Atrial Fibrillation in Whites and African Americans: The ARIC Study | | | | | | | | | |
| Richard Carlson | MPH | | Epidemiology | | Academic Advisor  Project Advisor | | | 2014 | |
| **Title of Thesis:** A Fresh Look at Arthritis in Minnesota: Findings From the 2011 Behavioral Risk Factor Surveillance System (BRFSS) Survey | | | | | | | | | |
| Andrea Giorgi | MPH | | Epidemiology | | Academic Advisor  Project Advisor | | | 2012 | |
| **Title of Thesis:** Description of Antrhopometric Data and Blood Pressure Predictors From the Gopher Kids Study | | | | | | | | | |
| Kori Wilford | MPH | | MCH | | Academic Advisor  Project Advisor | | | 2012 | |
| **Title of Thesis:** Promoting Preconception Health and Improving Sexual Health Among Youth in Poudre School District, Colorado: An Evidence-based Revision of a District-wide High School Sexuality Education Curriculum in Alignment with new State-Level Sex Education Standards. | | | | | | | | | |
| Megan Linn | MPH | | MCH | | | Project Advisor | | 2012 | |
| **Thesis Title**: Birth and postnatal anthropometric measurements and their effect on IQ and BMI at age seven years. | | | | | | | | | |
| Laura Soloway | MPH | | Epidemiology | | | Academic Advisor  Project Advisor | | 2011 | |
| **Title of Thesis:** Birth Cohort and Childhood BMI Growth Curves: 70 Years of Data From the Fels Longitudinal Study | | | | | | | | | |
| Hilarie Conboy | MPH | | Epidemiology | | | Academic Advisor | | 2011 | |
| **Title of Thesis:** Epidemiology of Pertussis in Dakota County, MN: 2002-2008: Implications for Prevention and Control | | | | | | | | | |
| Jennifer Earl | MPH | | MCH | | | Academic Advisor | | Inactive | |
| **Title of Thesis:** Not Completed | | | | | | | | | |
| Christine Ramos | MPH | | MCH | | | Academic Advisor | | Inactive | |
| **Title of Thesis:** Not Completed | | | | | | | | | |

***PhD Student Advisees – University of Minnesota***

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| **CURRENTLY ACTIVE** | | | | | | |
| **Student** | **Degree Sought** | | **Major** | **Advisor’s Role** | | **Date** | |
| Christine Kunitz | PhD | | Epidemiology | Academic Advisor | | 2015-present | |
| **Thesis Title:** |  | |  |  | |  | |
| Steven Nguyen | PhD | | Epidemiology | Academic Advisor | | 2015-present | |
| **Thesis Title:** |  | |  |  | |  | |
| Lindsey Matteson | PhD | | Psychology | Dissertation Committee | | 2013-present | |
| **Thesis Title:** | | | | | | | |
| **FORMER ADVISEES** | | | | | | | |
| **Student** | **Degree Sought** | | **Major** | **Advisor’s Role** | | **Date** | |
| Tyler Bosch | PhD | Kinesiology | | Dissertation Committee | 2014 | | |
| **Thesis Title:** Quantification of Visceral Fat Using Dual Energy X-ray Absorptiometry | | | | | | | |
| Noel Mueller | PhD | Epidemiology | | Dissertation Committee | 2014 | | |
| **Thesis Title:** Early Puberty: Adulthood Metabolic Consequences and Childhood Nutritional Determinants | | | | | | | |
| Jill Dreyfus | PhD | Epidemiology | | Academic Advisor; Dissertation Advisor | 2012 | | |
| **Thesis Title:** Early pubertal development and cardiometabolic risk: A life course approach | | | | | | | |

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| Laura Hauff | PhD | Anthropology | Dissertation Committee and Project Advisor | 2012 |
| **Thesis Title:** Biological and social factors associated with reduced lactation duration in overweight women | | | | |

***Professional Students Mentored***

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| **Student** | **Position** | **Role** | **Date** |
| Anne Justice, PhD | Postdoctoral Fellow, Department of Epidemiology, Cardiovascular Disease Program, University of North Carolina at Chapel Hill | K99 Mentor | 2015-present |
| Brittany R. Howell, PhD | Postdoctoral Fellow, CEHD Child Development, Institute of Child Development | K99 Mentor | 2015-present |
| Reena Oza-Frank, PhD, RD | Assistant Professor, Center for Perinatal Research, Research Institute at Nationwide Children’s Hospital, Department of Pediatrics, The Ohio State University | Career Mentor/Consultant | 2015-present |
| Johannah Scheurer, PhD | Post-Doctoral Fellow, Neonatology, Pediatrics (Medicine) | Research Mentor | 2012 -present |
| Katie Pfister, MD | Neonatology, Pediatrics (Medicine) | Research Mentor | 2013 - present |
| Noel Mueller, PhD | Post-Doctoral Fellow, NHLBI CVD Epidemiology T32 Training Grant | Fellowship Advisor | 2010- present |
| Amy Linabery, MS, PhD | Post-Doctoral Fellow (Pediatrics) T32 Caner Epidemiology Training Grant (Julie Ross, PI) | Fellowship Advisor | 2010-2012 |
| William Johnson, PhD | Post-Doctoral Fellow, Epidemiology (Genetics of infant growth and later obesity) | Fellowship Advisor/research supervisor/mentor | 2011-2015 |
| Andy Odegaard, PhD | Post-Doctoral Fellow, Epidemiology (Genetics of infant growth and later obesity) | Fellowship Advisor | 2009-2015 |
| Katie Larson Ode, MD | Fellow, Endocrinology Research Fellowship | Fellowship Advisor | 2008-2013 |
| Steven Stovitz, MD | CAPS Scholar K12 Fellowship, Dept. of Family Medicine | CAPS Mentor | 2008-2010 |
| Laura Soloway, PhD | Post-Doctoral Fellow, NHLBI CVD Epidemiology | Fellowship Advisor | 2007-2009 |
| Sara Ramel, MD | Neonatology Fellow | Committee Member | 2008-2010 |

***Students Mentored at Other Institutions – Wright State University***

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| **Student** | **Position** | **Role** | **Date** |
| Gabriel Moreno | WSU STREAMS (Short-term research experience for minority students) program summer research project: “Comparison of manual and automated softwares for the quantification of visceral adipose tissue”. | Primary faculty mentor | 2005 |
| Dr. Nikki Rogers | WSU Post-Doctoral Fellow, NIH/NICHD, “Adiposity, disease risk factors and lifetime health”. | Co-Advisor | 2004-2007 |
| Regina Yaskey | WSU STREAMS program summer research project: “Reproductive history as a determinant of body composition among rural Nepali women”. Note: Student won STREAMS poster competition on the basis of this research | Primary faculty mentor | 2004 |
| Dr. Karen Remsberg | WSU Post-Doctoral Fellow, NIH/NIDDK NRSA “Early life antecedents of adult chronic disease”. | Co-Advisor | 2003-2006 |
| Rhya Lund | WSU Undergraduate Biology Honors Thesis: “Measurement of visceral adipose tissue using MRI: Reliability and relationship heart association summer undergraduate research fellowship | Primary faculty mentor | 2002-203 |
| Tania Sci | WSU School of Medicine Biennium II 4th Year Student-initiated Elective Project: “Changes in cardiovascular health of African American women in the Miami Valley”. | Co-Mentor | 1999 |
| Mohammed Almubaslat | WSU Undergraduate Biomedical Engineering Program: “Blood pressure responses to cardiovascular stress testing” | Co-Mentor | 1999 |
| Alesha Patterson | WSU STREAMS program summer research project: “a comparison of a new air displacement device with hydrodensitometry for assessing human body composition”. | Co-Mentor | 1998 |
| Derek Coleman | WSU STREAMS program summer research project: “The reliability of a new air displacement method for measuring human body composition”. | Co-Mentor | 1998 |

***Junior Faculty Members Mentored—University of Minnesota***

**SERVICE AND PUBLIC OUTREACH**

### Editorial Board Membership

2008 – present *Annals of Human Biology*

2009 – present *American Journal of Human Biology*

2012 – present *Pediatric Obesity (Associate Editor)*

2011-2012 *Frontiers in Genetic Epidemiology*

### Manuscript Reviews

2010 – present: *Circulation*

2009 – present: *JAMA*

2008 – present: *Journal of Clinical Endocrinology*

2007 – present: *British Journal of Nutrition*

2004 – present: *American Journal of Epidemiology*

2002 – present: *Atherosclerosis, Thrombosis, and Vascular Biology*

2002 – present: *Obesity*

2002 – present: *British Journal of Obstetrics and Gynecology*

2001 – present: *American Journal of Clinical Nutrition*

2001 – present: *Pediatrics*

2001 – present: *Journal of Nutrition, Health, and Aging*

2000 – present: *European Journal of Clinical Nutrition*

2000 – present: *International Journal of Obesity*

2000 – present: *Human Biology*

1999 – present: *Annals of Human Biology*

1999 – present: *American Journal of Physical Anthropology*

1998 – present: *American Journal of Human Biology*

### Conference Abstract Review

2005 – present: American Heart Association Council on Epidemiology and Prevention

2004 – present: The Obesity Society

2003 – present: Human Biology Association

### Committee Memberships

2012-2016 Executive Committee, Human Biology Association

2011 Local Arrangements Chair (Minneapolis, MN). Human Biology Association Annual Scientific Meeting

2010-2011 Chair, Pediatric Obesity Section. The Obesity Society

2005-2007 Nominations and Elections, Human Biology Association

2002 Core Working Group Member, National Children’s Study Early Orgins of Adult Health, NIH, CDC, EPA Association

2000-2004 Executive Committee, Human Biology Association

2000-2004 Secretary/Treasurer, Executive Committee Member, Human Biology Association

### Review Panels

2011-2015 Permanent Member, NIH Study Section Peer Reviewer. Kidney, Nutrition, Obesity and

Diabetes Study Section (KNOD)

2009-2013 NIH Study Section Peer Reviewer (*Ad Hoc* Member). Kidney, Nutrition, Obesity, and

Diabetes Study Section (KNOD)

2008 NIH Study Section Peer Reviewer (*Ad Hoc* Committee Member). National Institute of

Aging (NIA). Juvenile Protective Factors RFA

2007 NIH Study Section Peer Reviewer (*Ad Hoc* Member). Kidney, Nutrition, Obesity, and

Diabetes Study Section (KNOD)

2003 NIH Study Section Peer Reviewer (*Ad Hoc* Member). National Institute of Diabetes,

Digestive and Kidney Diseases (NIDDK)

2001-2003 Behavioral Science, Epidemiology and Prevention Study Section (BSEP-2). American Heart

## UNIVERSITY OF MINNESOTA SERVICE

***School of Public Health Committees***

2014 Co-Chair, School of Public Health 2030 Strategic Planning Initiative for Genomics

2012-2013 Appointments, Promotions, and Tenure Review Committee (APT)

2010-2011 Chair, Faculty Consultative Committee (FCC)

2008-2011 Faculty Consultative Committee (FCC)

***Division of Epidemiology Committees***

2014-present Co-Chair, Part B Exam Committee

2014-present MCH Admissions Committee

2009-present Search Committees (multiple)

2013-2014 MCH Credentials/Curriculum Committee

2012-2013 Hawley Research Award Review Committee

2009-2012 Epi MPH Credentials/Curriculum Committee

2011-2013 Epi MPH Admissions Committee

2010-2013 MCH Admissions Committee

2009-2010 Part B Exam Committee

2008-2009 Hawley Research Award Review Committee

2007-2009 Epi PhD Admissions Committee

**WRIGHT STATE UNIVERSITY**

***Committees***

2003-2005 Research Committee (Appointed)

1998-2000 Unclassified Staff Advisory Council (Elected)

**SERVICE AND PUBLIC OUTREACH**

#### *Consultantships*

#### Demerath, EW (2005-2008). Advisory Board, Toborg Associates, Washington, DC. Appalachian Cardiovascular Disease Risk Prevention Program. Serving as consultant on NIH funded project to develop culturally-appropriate educational material to teach Appalachian mothers to help their children make positive cardiovascular health choices.

**Demerath, EW** (2002-2006). School-based obesity screening program, Dayton Public School District, School Health Department (Marianne Urban, director), and Healthy Dayton collaborative (Center for Healthy Communities, Kay Parent, assistant director), September, 2002-2006.

**Demerath, EW** (2000-2001). “Coronary Artery Risk Detection in Appalachian Communities (CARDIAC)”, directed by Dr. William A. Neal, Chair, Department of Pediatrics, West Virginia University. In this capacity, I provided advice regarding choice of standardized data collection techniques, training for data collection staff, management of data, and data analysis.