CURRICULUM VITAE

**I. CURRENT POSITION**

Jill M. Norris, M.P.H., Ph.D.

Professor

Department of Epidemiology

Colorado School of Public Health

University of Colorado Anschutz Medical Campus

13001 East 17th Place, Box B119

Aurora, Colorado 80045

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**II. EDUCATION**

Years School Degree

1982-1986 Colgate University B.A.

 Hamilton, New York

 Magna Cum Laude

 Major: Biology - with honors

 Minor: History

1986-1988 University of Pittsburgh M.P.H.

 Graduate School of Public Health

 Pittsburgh, Pennsylvania

1988-1990 University of Pittsburgh Ph.D.

 Graduate School of Public Health

 Pittsburgh, Pennsylvania

 Major: Epidemiology

 Mentor: Janice S. Dorman, PhD

**III. ACADEMIC APPOINTMENTS AND POSITIONS**

1986-1990 Pre-doctoral Fellow

 Department of Epidemiology

 Graduate School of Public Health

 University of Pittsburgh

1990-1997 Assistant Professor

 Section of Epidemiology and Community Health

 Department of Preventive Medicine and Biometrics

 University of Colorado School of Medicine

 Denver, Colorado

1993-2002 Director, Doctoral Program in Epidemiology

 Department of Preventive Medicine and Biometrics

* 1. Associate Professor with Tenure

 Section of Epidemiology and Community Health

 Department of Preventive Medicine and Biometrics

 University of Colorado School of Medicine

 Denver, Colorado

2/2000-7/2000 Visiting Scientist in Paris, France, Poste Orange Fellow

 INSERM U155, Françoise Clerget-Darpoux, Director

2000-2008 Director, Genetic Epidemiology Program, UCHSC

2002 – 2005 Head, Section of Epidemiology and Community Health

 Department of Preventive Medicine and Biometrics

 University of Colorado School of Medicine

 Denver, Colorado

2004-present Professor

Section of Epidemiology and Community Health

 Department of Preventive Medicine and Biometrics

 University of Colorado School of Medicine

 *As of July 2008 with creation of CSPH*:

 Department of Epidemiology

 Colorado School of Public Health

 University of Colorado Denver

2011 – present Chair, Department of Epidemiology

 Colorado School of Public Health

**IV. HONORS AND AWARDS**

1983 Phi Eta Sigma Honor Society, Colgate University

1985 Charles A. Dana Scholar, Colgate University

1986 Phi Beta Kappa Honor Society, Colgate University

 Beta Beta Beta Biology Honor Society, Colgate University

 Phi Alpha Theta History Honor Society, Colgate University

1987-1990 Recipient, National Research Service Award, Public Health

 Service

1988 Delta Omega, National Public Health Honorary, University of

 Pittsburgh Graduate School of Public Health

1. Award Winner, Society for Epidemiologic Research

Student Workshop

1. Honoree, for service to the diabetes community. American

Diabetes Association Colorado Affiliate

2000 Recipient, INSERM Poste Orange Fellowship

2008 University of Colorado Denver Graduate School Dean’s

Mentoring Award

2008 Article (Norris et al, JAMA 2007) selected as one of 25 out of

400 in 2007 to be included in *Annual Bibliography of Significant Advances in Dietary Supplements Research* published by Officeof Dietary Supplements at NIH

2009 Colorado School of Public Health Outstanding Faculty

Mentoring Award

2010 University of Colorado Chancellor’s Teaching Recognition

Award

2018 University of Pittsburgh Graduate School of Public Health

Distinguished Alumni Award for Research

2018 Elected Member, American Epidemiological Society (AES)

2019 Noel Weiss and Tom Koepsell Excellence in Education Award

of the Society for Epidemiologic Research (SER)

2022 Kelly M. West Award for Outstanding Achievement in

Epidemiology, bestowed by the American Diabetes Association (ADA)

**V. MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**

1987-current Society for Epidemiological Research

1987-current American Diabetes Association

2000-2015 International Genetic Epidemiology Society

2000-current American College of Epidemiology

2005-current European Association for the Study of Diabetes

2005-2015 American Society of Human Genetics

2008-current Immunology of Diabetes Society

2018-current American Epidemiological Society

**VI. PROFESSIONAL LEADERSHIP AND SERVICE**

University committees

1990-1994 Faculty Senator, University of Colorado School of Medicine

1992-1993 Chair, Ph.D. in Epidemiology Development Committee

1993-1997 Member, Executive Committee of the Department of Preventive Medicine and

 Biometrics

1993-2004 Member, Review committee for the Public Health Traineeship of the

 Department of Preventive Medicine and Biometrics

1994-2002 Member, Executive Committee of the University of Colorado Graduate School

1994-2002 Chair, Ph.D. in Analytic Health Sciences, Epidemiology Track, Steering

 Committee

1994-2002 Chair, Ph.D. in Analytic Health Sciences, Epidemiology Track, Admissions

 Committee

1995-2002 Member, Development and steering Committee of the Health Services Research

 Arm of the PhD in Clinical Science Program

1996-1998 Member, Governance and Tracks of Graduate Education Task Force

1996-1998 Member, Graduate School Futures Planning Committee

1996-2002 Member, Executive committee of PhD program in clinical science

1996-2002 Member, Curriculum committee of the PhD program in clinical science

1998-2005 Member, School of Medicine Program Review Oversight Committee

1998 Member, Departmental Post-tenure Review Committee

2002-2004 Member, MSPH Diversity Scholarship Review Committee

2003-2006 Chair, Task Force on Epidemiology, School of Public Health Strategic Planning

2003-2005 Member, Integrating biostatistics and research methods curriculum committee

2005-2008 Member, School of Medicine Faculty Promotions and Tenure Committee

2006-2007 Member, Implementation Task Force, Colorado School of Public Health

2006-2007 Member, Faculty Affairs Work Group, Colorado School of Public Health

2007-2008 Chair, Faculty Workload Committee, Colorado School of Public Health –

 evaluated the feasibility of paying for teaching and service in the SPH

2007 Chair, Search Committee for PMB Departmental Administrator

2007-2008 Chair, Faculty Affairs Committee, Colorado School of Public Health – wrote the

 CSPH bylaws for faculty vote and administration approval.

2007-2008 Member, Epidemiology Curriculum Committee, Colorado School of Public

 Health

2007-2008 Member (Faculty Affairs Representative), Interim Executive Council,

 Colorado School of Public Health

2008 Member, Department Post-tenure Review Committee

2009 Member, CSPH Appointments, Promotions and Tenure Committee

2009-2014 Member, CSPH Delta Omega Honor Society Committee

2009 Chair, Ph.D. in Analytic Health Sciences, Epidemiology Track, Admissions

 Committee

2009 Member, CEPH Accreditation Working Committee on Faculty

2009-2011 President, CSPH Faculty Council

2009-current Member, CSPH Executive Council

2009-2011 Member, Anschutz Medical Campus Faculty Assembly

2009-2011 Member, Search committee for three faculty positions in the Department of

 Environmental and Occupational Health

2009-2010 Member, Admissions committee for MS/PhD in Epidemiology program

2012 Member, Admissions committee for MS/PhD in Epidemiology program

2012 Member, External Review Committee for University of Colorado School of

 Dental Medicine Program Review

2012-2018 Chair, Vision/Strategic Planning Committee in the Department of Epidemiology

2012 –current Member, CSPH Faculty Affairs Committee

2012-2015 Member, Search Committee for Associate Director of Cancer Prevention and

 Control of the UCCC

2013 Member, Search Committee for Chair of the Department of Community and

 Behavioral Health (internal search)

2013 Member, CSPH Strategic Planning Committee on Research and Creative Work

2012-2013 As Department Chair, conducted Departmental Self-Study and organized Site

Visit for Academic Review

2013 – 2014 Member, Search Committee for Chair of the Department of Biostatistics and

Informatics (national search)

2013-2014 Chair, Research Administration Transition Task Group

2014-2016 Member, Search Committee for Division Head of Internal Medicine in the UC

School of Medicine (national search)

2014-2015 Chair, Search Committee for CSPH Grants Life Cycle Manager position

2015 –2016 Member, Search Committee for multiple UCCC positions

2015 Member, Search Committee for CSPH Associate Dean for Faculty

2015 Member, Post-tenure Review Committee for Nichole Carlson (B&I)

2017-current Mentor, Colorado School of Public Health Case Competition

2018-2020 Chair, Search Committee for Chair of the Department of Community and Behavioral Health

2019 Chair, Post-tenure Review Committee for Richard Lindrooth (HSMP)

2019 Member, Tenure Review Committee, Department of Environmental and Occupational Health

2020 Member, Department of Epidemiology PhD/MS Admissions Committee

2021-current Member, Department of Epidemiology MPH Admissions Committee

2021 Chair, Post-tenure Review Committee for Lee Newman (EOH)

2022 Chair, Search Committee for Chair of the Department of Environmental and Occupational Health

State and National Committees

1991-1993 Member, Program Committee of the American Diabetes Association Council on

 Epidemiology and Statistics

1991-1992 Chair, Scientific Program Committee of the Epidemiologic Research Exchange

 (annual regional scientific meeting)

1992-1995 Member, ASSIST Alliance, Anti-smoking program of the Colorado Department

 of Health

1992-1995 Member, Schools Working Committee of the ASSIST Alliance

1992-1995 Member, Task Force on Access to Health Care, American Academy of

 Neurology

1993-1999 Member, ADA GENNID Study Operations Committee

1993-1999 Chair, ADA GENNID Study Family Acquisition Center Quality Control

 Subcommittee

2002-2004 Chair, Epidemiology Content Area, ADA Scientific Sessions Planning

 Committee

2002-2004 Chair, Diet and Psychosocial Factors Data Writing Group, The Environmental

 Determinants of Diabetes in the Young (TEDDY) International Consortium

2005-current Co-chair, Diet Committee, The Environmental Determinants of Diabetes in the

 Young (TEDDY)

2003-2004 Chair, American Diabetes Association Council on Epidemiology and Biostatistics

2009-2019 Member, GENNID Steering Committee (to determine use of samples)

2010-2011 Member, Expert Panel to Examine the Role of the Environment in the

 Development of Autoimmune Disease, NIEHS

2019 University of Pittsburgh Graduate School of Public Health Alumni Awards Nominating Committee

2019-2021 American Diabetes Association Precision Medicine Task Force

2020-2022 Member, Committee for the Assessment of NIH Research on Autoimmune Diseases, National Academies of Sciences, Engineering, and Medicine.

2021-current Co-Chair, the American College of Rheumatology (ACR) 2022 Basic and Clinical Research Conference “From Somatic Mutations to Population Genetics”

Advisory Boards or Committees

2007-2020 Chair, External Advisory Committee, Oklahoma Rheumatic Disease Research

 Cores Center

2016-2018 Member, Janssen Pharmaceuticals Virtual Advisory Board - Type 1 Diabetes

 Disease Interception Strategy

**VII. REVIEW, REFEREE AND EDITORIAL ACTIVITIES**

1993-1994 Member, Nonperiodical publications review panel of the American Diabetes

 Association

2006 Member, Editorial Board of *Diabetes*

2006-2011 Associate Editor, *Diabetes*

2014 Guest Editor, Special Issue "Environmental Trigger(s) of Type 1 Diabetes: Why

 Is It So Difficult to Identify?" in BioMed Research International

Ongoing reviewer for:

Journals: Acta Diabetologica

 Acta Paediatrica

 American Journal of Epidemiology

 Annals of Epidemiology

 Annals of Rheumatic Disease

 Arthritis and Rheumatism

 British Journal of Nutrition

 Diabetes

 Diabetes Care

 Diabetes Metabolism/Reviews

 Diabetologia

 eBiomedicine

 Epidemiology

 European Journal of Human Genetics

 Genetic Epidemiology

 Journal of Pediatrics

 Journal of Clin Endocrinol Metab

 Journal of the American Medical Association (JAMA)

 Lancet Diabetes and Endocrinology

 New England Journal of Medicine

Proposals: AHCPR Small Grants Program Off-site Reviewer

 AHCPR Dissertation Grants Program Off-site Reviewer (1992)

 AHCPR Dissertation Grants Program Review Panel (1993)

 Canadian Diabetes Association Grants Program Off-site Reviewer

 National Institutes of Health Ad Hoc Reviewer

 National Institutes of Health Special Emphasis Panel (scientific review) Member, May 1998, December 1998

 Juvenile Diabetes Foundation (JDF) Ad Hoc Reviewer, June 1999, 2002

 National Institutes of Health KNOD Study Section Ad Hoc Reviewer – Oct 2007

 MRC Epidemiology Unit Reviewer, UK (2009)

 Member, NIH ZRG1 PSE-B(03) Special Emphasis Panel: Epidemiology and

 Genetics of Chronic Diseases 6/2010

Member, National Institutes of Health NIDDK RFA for Ancillary Studies Special

 Emphasis Panel (2014, 2015)

Chair, NIH ZRG1 EMNR-V (55) Special Emphasis

 Panel: Nutrigenetics and Nutrigenomics Approaches for Nutrition Research

 7/2016

Member, JDRF FY18 Prevention Strategic Research Agreement (SRA) Review Panel 5/2018

Member, NIH ZRG1 PSE-A (56) R Special Emphasis Panel: Epigenetics of health disparities and health equity. 3/2019

Grant Proposal Reviewer, The Helmsley Charitable Trust, 6/2022-8/2022

Meetings: Abstracts for the annual meetings of the Society for Epidemiological Research

 Abstracts for the annual meetings of the American Diabetes Association

 (Epidemiology, Nutrition, genetics) (Annually)

**VIII. INVITED LECTURES, PRESENTATIONS, WORKSHOPS**

Local and Regional Invited Talks

1. Nitrate exposure and insulin-dependent diabetes mellitus. Seminar in the Department of Environmental Health, Colorado State University, Fort Collins, Colorado, September 1992.
2. Cow's milk as a cause of type 1 diabetes: a review of the epidemiologic evidence. Center for Human Nutrition, University of Colorado, Denver, Colorado, March 1993.
3. Research Update: Studies on the Genetics of Non-Insulin Dependent Diabetes. Colorado Chapter of the American Diabetes Association, Denver, CO, May 7, 1994.
4. Measures of Association, Chance-Bias-Confounding, Causal Reasoning. Seminar for the General Accounting Office (GAO), Denver, CO, February 3, 1995
5. Genetic Epidemiology. Department of Molecular/Cellular Biology, August 1995.
6. Research in Progress. Barbara Davis Center for Childhood Diabetes, October, 1995.
7. Infant diet and the etiology of insulin-dependent diabetes mellitus: Is cow’s milk bad? Preventive Medicine Grand Rounds, April 1, 1996.
8. Genes, antibodies, viruses and cow’s milk: will Johnny get diabetes? Management of Type 1 Diabetes in the 1990's. Vail, Colorado, August 14, 1996.
9. Infant diet and risk of diabetes autoimmunity. Preventive Medicine and Biometrics Departmental Seminar. Denver, November 2003.
10. Timing of exposures in the infant diet and risk of diabetes autoimmunity, celiac disease and wheat allergy: a clue to a common etiology? Barbara Davis Center for Childhood Diabetes Fellows Research Conference, University of Colorado Health Sciences Center, November 2005.
11. Timing of exposures in the infant diet and risk of diabetes autoimmunity, celiac disease and wheat allergy: a clue to a common etiology? Health and Behavioral Sciences Program Fall Colloquium, University of Colorado at Denver, December, 2005.
12. Is race important for assessing disease risk? Altitude Awareness 2006, Keystone, Colorado, June 2006.
13. Polyunsaturated Fatty Acid Intake and Risk of Islet Autoimmunity and Type 1 Diabetes: DAISY. The Barbara Davis Center Clinical Fellows Conference. Denver, CO, January 29, 2008
14. Exploring Gene-Environment Interactions in Islet Autoimmunity and Type 1 Diabetes. Autoimmunity/Immunotherapeutics -Cross Disciplinary Updates, University of Colorado Denver. April 6, 2009
15. Genetics of Type 2 Diabetes. Genetics of Taste: A Flavor for Health Teachers’ Workshop. Denver Museum of Nature and Science. Denver, Colorado. July 29-30, 2009.
16. The role of the environment in type 1 diabetes susceptibility. Center for Sustainable Infrastructure Systems Seminar Series, University of Colorado Denver Downtown Campus, April 2012
17. Genetic and Environmental Causes of Celiac Disease. Rocky Mountain Food Safety Conference, Denver, CO, May 21, 2013
18. DAISY: An Update of the Diet Findings. The Barbara Davis Center Clinical Fellows Conference. Denver, CO, February 2014
19. The Nutrigenetics and Nutrigenomics of Vitamin D and Omega-3 Fatty Acids in Type 1 Diabetes. The Barbara Davis Center Clinical Fellows Conference. Denver, CO, February 24, 2015
20. The Nutrigenetics and Nutrigenomics of Vitamin D and Omega-3 Fatty Acids in Type 1 Diabetes. University of Colorado Denver Human Medical Genetics and Genomics Program Seminar, Denver, CO, March 12, 2015
21. The Nutrigenetics and Nutrigenomics of Vitamin D and Omega-3 Fatty Acids in Type 1 Diabetes: an update from DAISY. University of Colorado AMC Pediatric Nutrition Seminar, Denver, CO, January 28, 2016
22. Impact of Genotype on the Role of Vitamin D in Type 1 and Type 2 Diabetes. The Barbara Davis Center Seminar, AMC, Denver, CO, January 12, 2018
23. Sugars Reduction as an Intervention to Prevent Type 1 Diabetes. 2018 Childhood Diabetes Prevention Day, AMC, Denver, CO, February 9 2018
24. Nutrigenomics of Type 1 Diabetes. Epidemiology Discussion Group, Colorado School of Public Health, AMC, Denver, CO, September 29, 2020

National and International Invited Talks

1. Role of registries in diabetes prevention and control: the perspective from Colorado. Multi-Purpose Diabetes Registries - innovation in research & practice. A Consensus-Development Conference, Berkeley, CA, June 1993.

2. Epidemiological analysis of the role of early infant diet in development of insulin-dependent diabetes mellitus. Food Factors and Causation of Type 1 Diabetes Workshop. XV International Congress of Nutrition (IUNS). Adelaide, Australia, September 1993.

3. Is cow’s milk causing autoimmunity in Type 1 diabetes? A Current Issues Talk at the American Diabetes Association Annual Meeting 1997. Boston, Massachusetts, June 23, 1997.

4. Diet and development of insulin-dependent diabetes mellitus (IDDM): From food antigens to anti-oxidants. Symposium of the 16th International Congress of Nutrition 1997. Montreal, Canada, July 27, 1997.

5. Ways to prevent type 1 diabetes through infant diet. Workshop on “Immunogenetics of inherited diseases: diabetes, and environmental irritants and asthma”. Ponce School of Medicine-Second Annual Biomedical Workshop, Ponce, Puerto Rico, May 14-15, 1998.

6. Cow’s milk as a major environmental trigger of IDDM: the argument against. Symposium on cow’s milk and diabetes for the 34th Annual EASD Congress. Barcelona, Spain. September, 1998.

7. Genetic Epidemiology of Type 2 Diabetes. INSERM, Paris, 2000.

8. Genetic Epidemiology of Type 1 Diabetes. American Diabetes Association Annual Meeting, Symposium on Genetic Epidemiology. June, 2001

9. Diabetes and Women: The adolescent years. Chronic Disease Conference, Atlanta, GA February 2002.

10. Human Milk and Milk Proteins in Type 1 Diabetes. Human Milk Does Not Protect. American Diabetes Association Annual Meeting, Current Controversy Session. June 2002.

11. Genetic Studies of type 2 diabetes in SEARCH. Potential Research Questions and Study Designs. SEARCH Steering Committee Meeting, Seattle, July 2003

12. Investigating dietary risk factors for type 1 diabetes and celiac disease. Biomarkers in Autoimmunity Conference. ABCoN and NIAMS. Long Island, NY, May 2004.

13. Human Studies of Vitamin D and T1DM (EASD Pre-symposium). Munich, Germany, September 2004

14. Infant dietary exposures and risk of type 1 diabetes and celiac disease autoimmunity. Third International Conference on Mechanisms of Action of Nutraceuticals (ICMAN-3). North Carolina, November 2004.

15. The role of breast-feeding in the prevention of diabetes (Type I and II). American Academy of Pediatrics National Conference & Exhibition. Washington, DC, October 2005.

16. Timing of Exposures in the infant diet and risk of diabetes and celiac disease. University of Alabama at Birmingham. MCRC in Musculoskeletal Diseases Methodology Core Seminar, June 2005

17. Studies of the Genetics of Type 2 Diabetes and Related Conditions in the San Luis Valley, Colorado. Department of Internal Medicine Grand Rounds, University of New Mexico Health Sciences Center, Albuquerque, NM, February 2007.

18. Prospective studies on environmental factors in childhood T1D: the DAISY experience. (with Melissa Simpson (fellow)). 12th EASD/JDRF Oxford Workshop, Oxford, UK, Aug 3-6, 2007

19. Dietary Factors in the Pathogenesis of T1DM. 5th World Congress on the Prevention of Diabetes and Its Complications. Helsinki, Finland, June 1-4, 2008.

20. Gene-Environment Interactions in Diabetes and What it may Mean for Multiple Sclerosis. ACTRIMS (Americas Committee for Treatment and Research in Multiple Sclerosis) Environmental Risk Factors in Multiple Sclerosis Meeting. Atlanta, Georgia, May 30, 2009.

21. The role of environment in the genetics of diabetes. Invited Talk. American Diabetes Association Annual Meeting, New Orleans, LA, June 2009.

22. The influence of environment in Type 1 Diabetes Susceptibility. Invited Seminar. Bambino Gesu Hospital, Rome, Italy, October 5, 2009.

23. Autoantibodies, Inflammation, and Cardiovascular Disease in Pre-Clinical Rheumatoid Arthritis. Invited talk in the *ACR-REF Special Session: Within Our Reach – Finding a Cure for Rheumatoid Arthritis*. American College of Rheumatology Annual Meeting, Chicago, IL, October 2011.

24. How to report on Scientific Articles. National Press Foundation meeting. Denver, Colorado, March 25-28, 2012.

25. The Epidemiology of Autoimmunity – Lessons from the Clustering of Cases and Factors Associated with a Rising Incidence. Invited talk in the *Preclinical Autoimmunity – Potential for Prevention Symposium.*American College of Rheumatology Annual Meeting, Washington, DC, November 2012.

26. Environmental and epigenetic factors in type 1 diabetes autoimmunity – where

are we? 9th Joint Meeting of Paediatric Endocrinology, 19-22 September, 2013 in Milan, Italy.

27. Environmental Risk Factors for Rheumatoid Arthritis: What can we learn from studying RA-related Autoimmunity? Brigham and Women’s Hospital Rheumatology Grand Rounds. Boston, May 28, 2013.

28. The Epidemiology of Type 1 Diabetes – Lessons from the Clustering of Cases and Factors Associated with a Rising Incidence. Brigham and Women’s Hospital Clinical Sciences Meeting, Boston, May 29, 2013.

29. Latest Findings from Studies of the Natural History of Autoimmune Diseases. Nancy Davis Race to Erase RA Symposium. Los Angeles, May 1, 2014.

30. The Investigation of Diet in TEDDY. Immunology of Diabetes Society Annual Meeting, Munich, Germany, April 16, 2015.

31. Impact of Genotype on the Role of Vitamin D in Type 1 and Type 2 Diabetes. Personalized Nutrition- Nutrigenetics, Nutrigenomics – Relevance to Diabetes Symposium. American Diabetes Association Annual Meeting, San Diego, June 12, 2017

32. Towards prevention of rheumatoid arthritis: the role of environment and lifestyle. International Forum for RA 2017. Stockholm, September 25, 2017

33. Dietary patterns and metabolomic profiles associated with development of islet autoimmunity. Oktoberfest Symposium 2017. Munich, September 26, 2017

34. Potential reasons for the increase in incidence of type 1 diabetes. International Diabetes Federation Meeting, Abu Dhabi, December 2017

35. Maternal Dietary Supplement Use and Development of Islet Autoimmunity in the Offspring, American Diabetes Association Annual Meeting, Orlando, June 2018

36. Nutrition and the prevention of type 1 diabetes. 10th World Congress on Prevention of Diabetes and Its Complications, Edinburgh, July 16, 2018

37. Gene-environment Interactions: Methods and Examples. Yonsei University School of Public Health Seminar, December 2019

38. Update on risk factors for type 1 diabetes. Symposium. International Diabetes Federation Meeting. Busan, Korea, December 2019

39. Dietary Risk Factors for Type 1 Diabetes. Clinical Research Branch Seminar Series, NIEHS, Research Triangle Park, NC (remote), February 10, 2022

40. Genetics and Epidemiology of Idiopathic Pulmonary Fibrosis. Department of Epidemiology Seminar Series, University of Pittsburgh School of Public Health, Pittsburgh PA, December 1, 2022.

41. Is the epidemiology of Type 1 diabetes changing and why? Symposium. International Diabetes Federation Meeting. Lisbon, Portugal, December 8, 2022.

Invited to present in NIH Workshops

1. The importance of Omega-3 fatty acids in the attenuation of immune-mediated diseases, (NIAID, ODS, NCCAM, 9/00)
2. Genetics of Retinopathy (NIDDK, 9/00)
3. Etiology and epidemiology of early autoimmune type 1 diabetes in humans (NIDDK, 10/01)
4. Expert Panel Workshop to Examine the Role of the Environment in the Development of Autoimmune Disease, NIEHS, Durham, NC, September 2010

Invited to attend Summit:

1. A Platform to Exchange Ideas on Pathogenesis and Prevention of T1D. ION Hotel, Iceland, October 1–3, 2015 (one of 12 T1D investigators invited to attend worldwide) (Sponsored by Helmsley Charitable Trust and JDRF)

Invited to present in JDRF Workshop

1. JDRF Primary Prevention: The Vitamin D Experience Workshop, Berlin, October 2012

Co-Organized JDRF Workshop

1. The Role of Infant Diet in Susceptibility/Resistance to Type 1 Diabetes Workshop, Vienna, September 2014

**IX. TEACHING RECORD**

Inception (1993) to 2002 Director, Epidemiology track of Ph.D. degree in

 Analytic Health Sciences

New Course Development:

1992 - Chronic Disease Epidemiology - PRMD 6636 -3 credits

1994 - Field Methods in Epidemiology - PRMD 7911 - 1 to 3 credits (general course structure)

1995 - Analytic Methods in Epidemiology- PRMD 7915- 1 to 3 credits (general course structure)

1997 - Methods in Genetic and Molecular Epidemiology - PRMD 6639 - 3 credits

1. Linkage Analysis - PRMD 7915 module - 2 credits (module content)

2002 – Genetic analysis using longitudinal data (GAW13) – PRMD 7915 – 2 credits (module content)

Course Director:

1992 Chronic Disease Epidemiology - PRMD 6636 - 3 credits, 12 students (Co-director with Dr. Marian Rewers)

1993-2018 Research Methods - PRMD 6626 now EPID 6626– 3 credits, 65 students

 currently, Co-Director.

1. Analytic Methods in Epidemiology- PRMD 7915- 2 credits, 2 students.

 Survival Analysis Module

1995 Analytic Methods in Epidemiology- PRMD 7915- 2 credits, 1 student. Longitudinal Data Analysis Module

1996 Analytic Methods in Epidemiology- PRMD 7915- 2 credits, 1 student. Scaled Data Analysis Module

1997, 2000,

2002, 2004,

2006, 2008,

2010 Methods in Genetic and Molecular Epidemiology - PRMD 6639 now EPID 6639- 3 credits – 15-30 students (Co-directed with Dr. Marci Sontag in 2010).

1998, 2001 Analytic Methods in Epidemiology - PRMD 7915 - 2 credits, 6 students. Genetic Linkage Analysis Module

2002 Analytic Methods in Epidemiology - PRMD 7915 - 2 credits, 4 students. Longitudinal Analysis with Genetic Data Using GAW13 data (resulted in two student publications in *BMC Genet*)

1. Analytic Methods in Epidemiology – PRMD 7915 – 2 credits, 5 students

 Family-based Genetic Association Analyses – investigating gene-environment

 interaction and gene-gene interactions.

2006 Analytic Methods in Epidemiology - PRMD 7915 - 1 credit, 1 student. Analysis of Genetic Data Using GAW15 data

Spring 2014,

2015, 2016

and Fall 2016,

2017 Developing a Research Grant – EPID 7912 – 3 credits, 5-7 students. Co- directed with Dr. Carol Runyan.

Fall 2019 Capstone Prep – EPID 6990 – 1 credit, 30 students, Co-directed with Kendra Young and Thomas Jaenisch.

Fall 2020 Capstone Prep – EPID 6990 – 1 credit, 24 students, Co-directed with Angela Lee-Winn.

Fall 2021 Capstone Prep – EPID 6990 – 1 credit, 30 students, Co-directed with Kendra Young and Alia Al-Tayyib

Spring 2022 Capstone Prep – EPID 6990 – 1 credit, 10 students

Course Lecturer:

1991- 1994 Clinical Epidemiology - PRMD 6629 - Case-control and cohort studies 1994,1996

1994, 1998, Chronic Disease Epidemiology - PRMD 6636 - Lectures on IDDM epidemiology

2005, 2006 (1994 only), genetic epidemiology, rheumatoid arthritis epidemiology

1994-2000 Field Study in Epidemiologic Research Methods - PRMD 6910 - Lectures, research demonstrations, supervised weekend field trip to research clinic in Alamosa, CO (annually)

2006-current Introduction to Epidemiology - PRMD 6630 now EPID 6630– 2 hour lecture on

 genetic epidemiology (annually)

1998 Introduction to Public Health - PRMD 6600 - Lecture on epidemiology

2002-08 Health Policy – PRMD 6605 – 2 hour lecture on Genetics and Health Policy (Biannually)

2002-2016 Human Genetics – HMGP 7600 – 1 hour lecture on gene-environment interaction

 (annually)

2013 Environmental and Occupational Epidemiology - EHOH 6617 – 1.5 hour lecture

 On Epidemiology of Environmental exposure and human autoimmune disease

2013, 2015, Methods in Genetic Epidemiology – EPID 7640 – 2 hour lecture on Gene-

2017 Environment interaction

2020 Introduction to Epidemiology – PBHL3001 (undergrad program at University of Colorado Denver– 2 hour lecture on genetic epidemiology

PRMD 7911 Field Methods Module Mentor

Heather Orton. PUFA intake validation study. Summer 2006

Orton HD et al. *Eur J Clin Nutr* 2008:62;733-8 (paper resulting from student work)

Amy Alman. SERA questionnaire repeatability study. Summer 2005

Tessa Crume. Determination of onset of puberty using self-reported tanner staging. Fall 2007.

Tessa Crume. Validation of sunshine questionnaire by comparing with vitamin D levels. Spring

 2008.

Melissa Miller. Examination of infant formula behavior and comparison with fatty acid levels in erythrocyte membranes. Spring 2008.

Miller M et al. *Maternal Child Nutr* 2010:6;338-46. (paper resulting from student work)

Kendra Young. Investigation of interaction between T1D candidate genes and infant diet on risk

 of islet autoimmunity. Fall/Spring 2008/09.

Patrick Carry. Examining the correction for cell type when analyzing methylation data in type 1

 diabetes autoimmunity. Fall/Spring 2016/17.

Course Discussion Group Leader:

1991 Graduate Education for Minority Students (GEMS) - Helped plan and organize

 program to introduce minority students to careers in public health. Led

 discussion group. Member, career panel to discuss opportunities in public

 health.

1991-1995 Introduction to Epidemiology - PRMD 6630 - 6 sessions

Mentor: Doctoral Students

1994-2004 Todd Weaver, MPH, PhD (Epidemiology)

 “Examining Genetic Heterogeneity of Type 2 Diabetes in Obese and Normal

 Weight Families in the San Luis Valley Genetic Study”

 Current Position: Senior Clinical Research Manager, Medtronics, MN

2001-2006 Heather L. Brady, MS, RD, PhD. (Epidemiology)

 “The vitamin D receptor gene and vitamin D status in children who are at

 increased risk of developing type 1 diabetes”

Papers related to dissertation:

Brady H, et al. *Public Health Nutr* 2007;10:712-718.

 Current Position: Instructor in Department of Integrated Physiology at UC

 Boulder, Registered Dietician, and Professional Speaker

2002-2006 Corinne D. Engelman, MSPH, PhD (Epidemiology)

 “Effects of Vitamin D genes on measures of insulin secretion, insulin sensitivity

 and adiposity: an ancillary study to the Insulin Resistance Atherosclerosis Study

 (IRAS) Family Study”

Papers related to her dissertation:

Engelman CD et al, *J Clin Endocrinol Metab* 2008;93:3381-3388.

 Current Position: Associate Professor and Vice Chair of Population Health

 Sciences, School of Medicine and Public Health, University of Wisconsin –

 Madison

2003-2008 Molly Lamb, PhD (Epidemiology)

 “The role of obesity and risk factors for obesity in the development of islet

 autoimmunity and type 1 diabetes”

Papers Related to Dissertation Work:

Lamb MM et al. *Public Health Nutr* 2007;10:663-670.

Lamb MM et al. *Pediatric Diabetes* 2008;9:135-41.

Lamb MM et al. *J Clin Endocrinol Metab* 2008;893:3936-3942.

Lamb MM et al *Diabetologia* 2009;52(10):2064-71

Lamb MM et al. *Ann Nutr Metab* 2009;56:16-22

 Past Position: CDC Epidemic Intelligence Service Officer

 Current Position: Assistant Professor of Epidemiology, CoSPH

2006-2010 Melissa Simpson, DVM, PhD (Epidemiology)

 “The role of mucosal immunity in type 1 diabetes”

Papers Related to Dissertation Work :

Simpson M et al. *Pediatr Diabetes* 2009;10:563-72.

Simpson M et al. *Diabetologia* 2011;54:2779-88.

Current Position: Clinical Scientist Research and Development at SomaLogic, Boulder, Colorado

2007-2011 Scott Sibbel, MPH, PhD (Epidemiology)

“Retinol Binding Protein 4 Role in Insulin Resistance, Visceral Adiposity, Triglycerides, and LDL in a Family-Based Hispanic and African American Sample: The IRAS Family Study”

 Awarded American Heart Association Pre-doctoral Fellowship (7/2009-6/2011)

 Papers Related to Dissertation Work:

 Sibbel S et al. *Obesity* 2011;19:1433-38.

Current Position: Director, Health Economics and Outcomes Research. DaVita Clinical Research

2007-2011 Kendra Young, MSPH, PhD (Epidemiology)

 “The Role of Vitamin D in Adiposity and Non-Alcoholic Fatty Liver Disease”

 Awarded American Heart Association Pre-doctoral Fellowship (7/2009-6/2011)

 Papers related to dissertation work:

Young KA et al. *J Clin Endocrinol Metab* 2009;94:3306-13

Young KA et al. *Ethnicity & Disease* 2012;22:65-71

Current Position: Assistant Professor of Epidemiology, CoSPH

2008-2012 Komal Narwaney, MBBS, PhD (Epidemiology)

“Association of HLA Class II alleles with hyporesponsiveness to influenza vaccine”

Papers related to dissertation work:

Narwaney et al. *Vaccine* 2013;31:1123-8.

Current Position: Biostatistician at Kaiser-Permanente Colorado

2009-2011 Jan Hughes-Austin, MPT, PhD (Epidemiology)

“Is Rheumatoid Arthritis (RA)-related autoimmunity associated with an atherogenic lipoprotein profile in first-degree relatives of patients with rheumatoid arthritis?”

Papers related to dissertation work:

Hughes-Austin J et al. *Ann Rheum Dis* 2013;72:901-907.

Hughes-Austin J et al. *Am J Nephrol* 2017;46:481-457.

Hughes-Austin J et al. *PlosOne* 2018;e0199578.

Current Position: Assistant Professor in Department of Orthopaedic Surgery at UC San Diego

2010-2014 Brittni Frederiksen, MPH, PhD (Epidemiology)

 “Age-related Etiologic Heterogeneity in the Onset of Islet Autoimmunity”

 Papers related to dissertation work:

 Frederiksen et al. *J Steroid Biochem Molec Biol* 2013;133:51-57.

 Frederiksen et al. *JAMA Pediatrics* 2013; 167:808-15.

 Frederiksen et al, *JCEM* 2013 2013;98:E1845-E1851.

 Frederiksen et al, *Clin Develop Immunol* 2013, vol. 2013, Article ID 417657, 8 pg

 Frederiksen et al, *BioMed Res Int* 2015; 2015: 708289

 Frederiksen et al, *Pediatr Res* 2015;78:451-6.

Current Position: Associate Director, Women’s Health Policy, Kaiser Family Foundation, San Francisco

2011 – 2015 Ryan Gan, MPH, PhD (Epidemiology)

 “Role of omega-3 fatty acids in rheumatoid arthritis etiology”

 Papers related to dissertation work:

 Gan et al. *Ann Rheum Dis* 2017;76:147-152.

 Gan et al. *Rheumatology* 2016;55:367-76.

 Gan et al. *J Rheumatology* 2015;42:572-9.

 Current Position: Principal Scientist Janssen R&D Data Science

 The Janssen Pharmaceutical Companies of Johnson & Johnson

2015-2019 Randi Johnson, MPH, PhD (Epidemiology)

 “Dietary Patterns and Metabolomics in Type 1 Diabetes Autoimmunity”

 Papers related to dissertation work:

 Johnson et al. *Sci Rep* 2019;9(1):14819

 Johnson et al. *Sci Rep* 2020;10:3721

 Johnson et al. *Pediatric Diabetes* 2020;21:1202-1209

Current Position: Assistant Professor, Division of Biomedical Informatics & Personalized Medicine, Department of Medicine, University of Colorado School of Medicine.

2017-2020 Kristen Polinski, MPH, PhD (Epidemiology)

 “The role of lipid mediators in preclinical rheumatoid arthritis”

 Pre-doctoral Fellow on the Rheumatology T32 Training Grant

 Papers related to dissertation work:

 Polinski et al *Arth Care Res* 2019;2020; 72: 1766-1771

 Polinski et al *Arthritis Rheum* 2021; 73:955-962

 Polinski et al *Metabolites* 2021; 11:137

 Current Position: Post-doctoral Fellow at NICHD

2017-2021 Patrick Carry, MS, PhD

 “DNA Methylation Patterns and Islet Autoimmunity Reversion as a Model of

 T1D Resiliency”

 Papers related to dissertation work:

 Carry et al. *Pediatric Diabetes* 2020;21:597-605

 Carry et al. *Diabetes* 2021; 70:1592-1601

 Carry et al. *Genetc Epidemiology* 2021; 45(6):593-603

Current Position: Research Associate, Department of Orthopedics, University of Colorado School of Medicine.

2018 - 2022 Teresa Buckner, MS, RD, PhD

 “Oxylipins, Anti-inflammatory Diet, and Type 1 Diabetes”

 Papers related to dissertation work:

 Buckner et al *Pediatric Res* 2020; 89:1530-1540

 Buckner et al *Diabetologia* 2021; 64:1785-1794

2020 - Lauren Vanderlinden, MS

 Papers related to dissertation work:

 Vanderlinden et al *BMC Research* *Notes* 2021

Chairman: Doctoral Dissertation Committees

1994-1997 Angela Sauaia, MD, PhD (Epidemiology)

1995-1999 John Rumsfeld, MD, PhD. (Epidemiology)

1997-2001 Marissa Ehringer, PhD (Human Medical Genetics)

2001-2005 Sharon Wang Mexal, PhD (Human Medical Genetics)

2005-2007 Kendra Vehik, MPH, PhD (Epidemiology)

2005-2007 Theresa Aly, MD, PhD (Human Medical Genetics)

2008 – 2010 Tessa Crume, PhD (Epidemiology)

2009 - 2011 Melissa Miller, PhD (Epidemiology)

2009 – 2011 Jack Davis, PhD (Epidemiology)

2013-2015 Alison Buti Shapiro, PhD (Epidemiology)

2016 - 2021 Katie Burgess Ziegler (Epidemiology)

2019 - 2022 Musheng Alishahi (Epidemiology)

2020 - Lauren Zell-Baran (Epidemiology)

External PhD Dissertation Reviewer/Marker

2019-20 Mumtaz Begum, PhD in Epidemiology Program University of Adelaide.

Member: Doctoral Dissertation Exam Committees

2005 Kathleen Torkko, MSPH, PhD (Epidemiology).

2004 Asem Alkhateeb, PhD (Human Medical Genetics)

2005-2008 Jean Jasinski, PhD (Human Medical Genetics)

2006-2008 Ann Lazar, PhD (Biometrics)

2012-2014 Kenneth Eyring, PhD (Human Medical Genetics)

Post-Doctoral Supervision

1997 Michael Schenker, MD.

 Visiting Fellow from Munich, Germany. “Determinants of diabetes

 Autoimmunity”

1997-1999 Sheila Prindiville, MD.

 NIH - KO7 Award mentor. “Genetic/Molecular Epidemiology of Cancer.

1996-1998 Christine Mulgrew, PhD.

 “Genetic Epidemiology of Type II Diabetes”

2004-2009 Tracy Nelson, PhD

 NIH-K01 Award mentor “Genetic Epidemiology of diabetes and obesity.

Papers related to K01:

Nelson TL et al *Metabolism Clin Exp* 2007;56:388-393.

Nelson TL et al *Ann Nutr Metab* 2007 51:252-257.

Nelson TL et al *Exp Clin Endocrin Diab* 2007;115:268-75.

Current position: Professor, Colorado State University and Colorado School of Public Health

2004-2005 Jill A. Poole, MD.

 “Timing of initial exposure to cereal grains and the risk of wheat allergy.”

Paper related to post-doc:

Poole JA et al. *Pediatrics* 2006;117:2175-82.

 Current position – Professor, Allergy, Asthma & Immunology

 Pulmonary, Critical Care, Sleep Section, University of Nebraska Medical Center

2005-2008 Mariko Ishimori, MD.

 Staff Physician in Rheumatology, Cedars-Sinai Medical Center

2006-2009 Jana Posalski, MD

 Rheumatology Fellow, Cedars-Sinai Medical Center

2008-2010 David Brumbaugh, MD

 Pediatric Gastroenterology and Hepatology Fellow, UC Denver

2009 Janet Snell-Bergeon, PhD

 Associate Professor of Pediatrics and Epidemiology, UC Denver

2010-2012 Kiran Bambha, MD

 Gastroenterology and Hepatology Junior Faculty UC AMC

2011-2014 Kendra Young, MSPH, PhD

 Post-doctoral Fellow on Rheumatology T32

 Current position: Assistant Professor of Epidemiology, CSPH

2013- 2015 Kristen Demoruelle, MD

 Rheumatology Fellow

 (I was Chair of her Research Scientist Development Award Committee)

 Current position: Assistant Professor of Rheumatology, UC Denver

2014-2015 Katherine Sauder, PhD

 Nutrition T32 Mentoring Committee

 Current position: Associate Professor of Pediatrics (as of 2021), UC Denver

2016-2018 Nicole Kasper, PhD

 Nutrition T32 Mentoring Committee

2017-2019 Karl Marild, MD, PhD (Norway)

 Gluten Intake and Celiac Disease Autoimmunity and Celiac Disease

 Paper related to post-doc:

 Marild et al. Gastronenterology 2019

2018-2019 Nicolai Lund-Blix, PhD (Norway)

 Gluten Intake and Islet Autoimmunity and T1D

 Paper related to post-doc:

 Lund-Blix et al. *Diabetes Care* 2019;42:789-796

2018-2019 Marissa Gallant Stahl, MD

 Pediatric GI Fellow

 MS in Clinical Science Student

 Population Screening for Celiac Disease Autoimmunity

 Growth prior to TG Seroconversion and risk of CDA and CD (MS project)

2021- Stephanie Waldrop, PhD

 Nutrition T32 Scholarly Oversight Committee

Pre-Doctoral Laboratory Rotation Supervision

Marissa Ehringer, 1998 - Predoctoral student in PhD Program in Human Medical Genetics

Laura Dumas, 2004 – Predoctoral student in BSP program

Comprehensive Exam Committee Member

Marissa Ehringer, 1999 - PhD student in Human Medical Genetics program

Susan Taylor, 1998 - PhD student in Analytic Health Sciences/Biometrics program

John Arcaroli, 2005 – PhD student in Clinical Sciences program, Clinical Investigation Track

Christina Elling, 2019-20 PhD student in the Human Medical Genetics and Genomics Program

Kendra Ferrier, 2019- PhD student in the Human Medical Genetics and Genomics Program

Masters of Science Thesis Mentor:

Selma Sweben, M.S.P.H. A validation study of retrospectively assessed early childhood diet using surrogate recall. 8/92.

David Perdue, M.S.P.H. Perinatal Determinants of Beta-cell autoimmunity.5/96.

Mary Catherine Westrick, M.S.P.H. Factors Influencing the Immunization Status of Children. 12/95.

Karen Wingrove. M.S.P.H. A Comparison of Evidence of Insurance Cancellation and Genetic Discrimination at Underwriting with Attitudes Concerning Genetic Discrimination in a Colorado Fragile X tested Population. 5/96.

Wingrove KJ,et al. *Am J Med Genet* 1996;64:378-381. (paper resulting from student work)

Ellen Connole, M.S.P.H. Ethnic and racial differences in intrauterine growth. 8/96.

Patricia Graves, PhD, M.S.P.H. Viral Determinants of Beta-cell autoimmunity. 8/96.

Graves PM, et al. *Diabetes* 1997;46:161-168. (paper resulting from student work)

Karen Hufnagel, M.S.P.H. The role of maternal experiences of child abuse as antecedent to subsequent child abuse risk. 12/96.

Mi Suk Yu, M.S.P.H. Parental psychosocial impact of genetic screening of newborns. 5/97.

Yu MS, et al. *Am J Med Genet* 1999;86:219-226. (paper resulting from student work)

Nancy Ricalton, M.S.P.H. Prevalence of CD8+ T-cell expansions as a function of age. 5/97.

Ricalton NS, et al. *J Gerontol (Series A: Biol Sci and Med Sci)* 1998;53:B196-203. (paper resulting from student work)

Marcella Price, M.S.P.H. Effect of Type of health insurance on utilization in a cohort of children with severe asthma. 5/98.

Price MR, et al. *J Asthma* 1999;36:271-9.(paper resulting from student work)

Lezlie Parrish, M.S.P.H. Validation of maternal recall of diet in pre-school children. 8/01. Thesis mentor.

Parrish LA, et al. *Epidemiology* 2003;14 (2): 213-17. (paper resulting from student work)

Laura Braddy Kauffman, M.S.P.H. Predictors of oxidative stress in young children. 12/01. Thesis mentor.

Kauffman LD et al. *Free Rad Biol Med* 2003;35:551-557. (paper resulting from student work)

Corinne Engelman, M.S.P.H. Calpain-10 gene and type 2 diabetes. 8/02 Thesis mentor.

James K, Weitzel LB, Engelman CD et al. *BMC Genet* 2003; 4 (suppl 1): S83.

Engelman CD, et al. *BMC Genet* 2003; 4 (suppl 1): S90. (papers resulting from student work)

Carolyn Fronczak, M.S.P.H. Maternal intake of vitamin D and PUFAs and risk of beta cell autoimmunity. 5/03. Thesis mentor

Fronczak CM, et al. *Diabetes Care* 2003;26:3237-42. (paper resulting from student work)

Jaime Kean, MSPH. Day care attendance and risk of islet autoimmunity. 5/04.

Hilary Helinek MSPH. Stressful life events and risk of islet autoimmunity. 5/04.

Analice Hoffenberg, MD, MSPH. Infections and risk of celiac disease. 12/04.

Shailaja Pande Bhatia, MD, MSPH. Lack of oral contraceptive use is associated with rheumatoid factor positivity in women without RA. 12/04. Thesis mentor

Bhatia SS, et al. *Ann Rheum Dis* 2007;66:267-69. (paper resulting from student work)

Kendra Young, MSPH. Perinatal and early childhood risk factors associated with juvenile polyarthritis-related autoantibodies. 5/06 Thesis mentor

Young K, et al. *Ann Rheum Dis* 2007;66:179-183. (paper resulting from student work)

Michael Joshua Durfee, MSPH. FABP gene and dietary fat intake in the etiology of insulin resistance and type 2 diabetes. 12/07 Thesis mentor

Marie Feser, MSPH. Plasma 25,OH vitamin D Levels are not Associated with Rheumatoid Arthritis-Related Autoantibodies in Individuals at Elevated Risk for Rheumatoid Arthritis. 5/08 Thesis mentor

Feser M et al. *J Rheumatol* 2009;36(5):943-6. (paper resulting from student work)

Natasha Kureshi, MS in Epidemiology 5/19. Thesis mentor.

 Using Metabolomics to Identify the Impact of Infant Diet

Masters of Science Thesis Committee Work:

Quay C. Snyder, M.S.P.H. 3/92.

Elizabeth Barrett, M.S.P.H. 6/92.

Steven Kick, M.S.P.H. 11/92.

Kick SD, et al. *Psychosomatic Med* 1994;56:570-576. (paper resulting from student work)

N. Elaine Lowery, M.S.P.H. 1/94. Thesis committee chair.

Jodi Drisko, M.S.P.H. 12/94. Thesis committee chair.

Carol Siegel, MD, M.S.P.H. 5/96.

Siegel CD et al *Arch Ped Adolesc Med* 1996;150:1077-83.

Siegel C, et al. *Am J Public Health* 1997;87:2022-6. (papers resulting from student work)

Elizabeth Hopewell, M.S.P.H. 12/98.

Elizabeth Nugent, M.S.P.H. 12/99. Thesis committee chair.

Judy Maselli, M.S.P.H. 5/01. Thesis committee chair.

Maselli JH, et al. *Pediatric Pulmonology* 2003; 35(4):257-62 (paper resulting from student work)

Lisa Emery, M.S.P.H. The effect of ethnicity and HLA-DR, DQ Genotype on age at onset of

 type 1 diabetes. 8/02. Thesis committee member.

Emery LM, et al. *Pediatr Diabetes* 2005;6:136-44. (paper resulting from student work)

Colleen Ross, MPH, MS (in Biometrics). Mixed Models with best linear unbiased predictors for

 the analysis of longitudinal autoantibody data. 8/02. Thesis committee member

Heather Stanley. M.S.P.H. Does presence of islet autoantibodies at birth predict future

 development of islet autoimmunity. Thesis committee member. 8/03.

 Stanley HM, et al.*Diabetes Care* 2004; 27: 497- 502. (paper resulting from student work)

Amy Olson, MD, MSPH. 5/07 Thesis committee member.

Olson AL, et al *Am J Respir Crit Care Med* 2007;176:277-84. (paper resulting from student work)

Anh Nguyen, MSPH. 8/08

Joni Koenig, M.S.P.H. 8/09. Thesis committee chair.

Amanda Berrian, DVM, MPH. 12/09, Thesis committee chair.

 Berrian AM, et al. *Vet Rec* 2012;170:620 (paper resulting from student work).

Tim Vigers, MS in Biostatistics, 6/21. Thesis committee member.

Vigers T, et al. *Metabolites* 2021;11:542. (paper resulting from student work)

MPH Practica Supervision:

Ryan Gan, Summer/Fall 2010

Jessica Sussman, Spring 2014

Elizabeth Bemis, Fall 2014

Diana Ir, Summer 2017

MPH Capstone Mentoring:

Ryan Gan, Spring 2011

 Gan et al. *Ann Rheum Dis* 2013;17:2002-5 (paper resulting from student work)

Jennifer Seifert, Spring 2014

Katelyn Hall, Spring 2014

 Hall et al. *BioMed Res Int* 2015;2015: 203947 (paper resulting from student work)

Jessica Sussman, Summer 2014

Elizabeth Bemis, Spring 2015

Investigation of Vitamin D Supplement Use, Rheumatoid Arthritis-related Autoimmunity and Joint Signs Among Those at Increased Risk for the Development of Rheumatoid Arthritis

Rachael Sawaya, Spring 2017

Association between genetic variants and the presence of rheumatoid arthritis-related autoimmunity and progression to Rheumatoid Arthritis in an at-risk population

Nicole Zwick, Fall 2017-Spring 2018

Associations of Vitamin D Metabolites with Genetic Variants and the Risk of Type 1 Diabetes

Diana Ir, Fall 2017- Summer 2018

Association of DNA methylation of the SLC30A8 gene to type 1 diabetes: The Diabetes Autoimmunity Study in the Young (DAISY)

Jackie Gardner, Summer 2018 – Fall 2018

Gluten Exposure Intake and Thyroid Autoimmunity in a Pediatric Cohort: The Prospective Diabetes Autoimmunity Study in the Young (DAISY)

Published paper: Gardner *et al* 2020 *Endocrine*

Martha Henze, Spring 2018-Spring 2019

Biomarker for Sugar Intake: Is there an association between a sugar isotope biomarker and high and low intakes of sugar?

Published paper: Henze et al 2020 *J Nutritional Sci*

Craig Rothfuss, Fall 2018- Spring 2019

Investigation of variants in vitamin D pathway genes (VDR, CYP24A1, CYP2R1, and DHCR7/NADSYN1) and rheumatoid arthritis-related autoimmunity among those at increased risk for the development of rheumatoid arthritis

Amanda Ireton, Fall 2019-Spring 2020

 Is the association between paternal T1D and risk of T1D mediated by methylation at

 paternally imprinted genes?

Elizabeth Walker-Short, Fall 2020-Spring 2021

 Infant diet and DNA Methylation

 Published paper: Walker-Short Buckner et al *Nutrients* 2021

Varsha Kumar, Fall 2020-Spring 2021 (Applied Bios)

 T1D Genetic Risk Score, Autoantibody Pattern and Progression to T1D

Cody Berkobien, Fall 2021-Spring 2022

Investigation of Whether the Association Between Early Childhood Exposures and Type 1 Diabetes is Mediated by DNA Methylation

Sulafa Elhassan, Spring 2022 – Summer 2022

 Dietary intake and risk of islet autoimmunity and T1D

Awards Received by Students:

2005 - Corinne Engelman was selected to participate in the 2005 SER student dissertation workshop, Toronto.

2005 - Molly Lamb won the student abstract award at the Epidemiological Research Exchange, Denver.

2007 - Molly Lamb won the student abstract award at the Epidemiological Research Exchange, Denver.

2010 – Jan Hughes-Austin won the student award at the ACR-REF Annual Meeting Atlanta, GA

2011 – Jan Hughes-Austin won the student award at the ACR-REF Annual Meeting, Chicago, IL

2012- Brittni Frederiksen won the only available travel award in the area of type 1 diabetes to attend the EDEG meeting in Swansea, Great Britain 5/2012

2013 – Brittni Frederiksen was awarded the Hamman-Hoffman Epidemiology Scholarship.

2013 – Ryan Gan won 1 of only 6 Student and Post-doc Travel Awards to attend SER, Boston, MA.

2014 – Brittni Frederiksen won the Anschutz Medical Campus Graduate School Most Outstanding Dissertation award

2014 – Ryan Gan won the student award at the ACR-REF Annual Meeting, Boston, MA.

2016- Randi Johnson won a travel scholarship by the EASD, Munich

2016- Randi Johnson was selected to participate in the 2016 SER student dissertation workshop, Miami.

2017 – Randi Johnson was awarded a two-year Hamman-Hoffman Epidemiology Scholarship.

2017 – Ryan Gan’s article (Gan et al J Rheumatol 2016) was awarded the 2017 Duncan Gordon Award to recognize highly influential research articles published in The Journal of Rheumatology, based on their impact, originality, and potential to advance treatment and alter clinical practice.

2018 – Patrick Carry was selected to participate in the 2018 SER student dissertation workshop, Baltimore.

2019 – Randi Johnson received a travel award to attend EDEG in Luxumbourg

2019 – Patrick Carry was awarded a two-year Hamman-Hoffman Epidemiology Scholarship.

2019 – Kristen Polinski was awarded a one-year Hamman-Hoffman Epidemiology Scholarship.

2021 – Teresa Buckner was awarded a one-year Hamman-Hoffman Epidemiology Scholarship.

Educational Program Seminar Organizer:

1996-97 Organized the Epidemiology Research Group weekly seminar series.

2000-02 Organized the Epidemiology Discussion Group bimonthly seminar series

Visiting Professor:

Tampere School of Public Health, Tampere, Finland. Course: Epidemiology of Diabetes; Topics: Infant Diet and Type 1 diabetes, Genetic Epidemiology of Type 2 Diabetes, and Genetic Epidemiological Methods Workshop, April 2000. Students: International and Finnish

University of Michigan Epidemiology Summer Course Instructor

Ann Arbor, Michigan, 2004, 2006

One Week Course: Genetics in Epidemiology: Students: US and International

Junior Faculty Mentoring:

Past: Tasha E. Fingerlin, PhD (weekly meetings)

Past: Marci Sontag, PhD (monthly meetings)

Past: Corinne Engelman, PhD (At University of Wisconsin) (periodic phone calls/emails)

Past: Kristen Demoruelle, MD (Dept of Medicine, Div of Rheumatology) (monthly meetings)

2015- current: Brigitte Frohnert, MD, PhD (Dept of Pediatrics) (biweekly meetings)

2019-current: Marisa Stahl MD, MS Assistant Professor of Pediatric Gastroenterology (biweekly meetings)

Training grants

2007-2012 Title: Building Interdisciplinary Careers in Women's Health" (BIRWCH K12)

PI: Richard Krugman, MD and Judy Regensteiner, MD

Funding Source: National Institutes of Health

Role: Core Faculty, Mentor

2011-current Title: Rheumatology Training Grant

PI: V. Michael Holers, MD

Funding Source: National Institutes of Health

Role: Associate Director, Mentor

Got renewable score of 2021 submission

2022-current CCTSI T32 Pre-doctoral Team Oriented Training across the Translational

Sciences Spectrum (TOTTS) Program.

 Role: Internal Advisory Board Member

Leadership Development

2003-04 Academic Management Institute for Women

 Sponsored by the Colorado Network of Women Leaders

 Invited Participant

2012-13 Leadership in Innovative Team Science (LITeS) Program

Sponsored by the CCTSI, UC Denver

Invited Participant

2021 Got Talent? Fostering Great Strengths LITeS Workshop (Jan 21 1-3pm)

2022-2023 University of Colorado Excellence in Leadership Program

 Invited Participant

Diversity, Equity and Inclusion Training

2017 Unconscious Bias Training. Anschutz Medical Campus on April 19, 2017

 workshop) (2 hr)

2020 SER Pre-Conference Workshop November 13, 2020: Creating

Inclusive Classrooms and Curriculum (Yvette Cozier and Anjum Hajat) (4 hr)

Workshop on Incorporating Anti-Racist Content into Courses (Daniel Goldberg)

7/27/20 (1.5 hr)

Avoiding Racism in Research (Cathy Bradley) 10/2/20 (1 hr)

University of Colorado Denver | Anschutz Medical Campus Equity Certificate

Program

Unconscious Bias and Virtual Settings - 10/22/20 (1.5 hr)

Leading through an Equity Lens – 11/13/20 (1.5 hr)

From Bias to Active Allyship - 12/3/20 (1.5 hr)

What's in a Name? Equity Concepts 12/8/20 (1.5 hr)

2021 Rocky Mountain Public Health Training Center (RM-PHTC) Auditing Your

 Course for Equity and Inclusion Virtual Workshop 5/3/21 (1 hr)

Faculty Inclusive Excellence Series - Addressing Microaggressions in the Classroom

Workshop 1: Creating Anti-Bias Awareness. 8/23/21 10-11:30am

Workshop 2: Addressing Microaggressions in the Classroom 11/18/21 12-1:30

**X. RESEARCH RECORD**

Research Grants:

Active:

1. Islet Autoimmunity Reversion as a Model of T1D Resiliency

Principal Investigator Jill M. Norris

Project Period: 3/1/19 – 8/31/22 (NCE)

Sponsor: National Institutes of Health-NIAID (R21 AI142483)

Percent effort: 5%
Annual direct cost: $155,000

The goal of this study is to examine epigenetic and gene expression biomarkers in the Diabetes Autoimmunity Study in the Young (DAISY), in order to elucidate why some individuals with islet autoimmunity develop T1D, others do not progress to T1D.

2. Exploring the Genomic Mechanism Behind the Maternal Protection from T1D

Principal Investigator Jill M. Norris

Project Period: 11/1/21-10/31/24

Sponsor: The Leona M. and Harry B. Helmsley Charitable Trust

 Percent Effort: 10%

 Annual Direct Cost: $207,282

The goal of this study is to investigate the genomic mechanism behind the maternal protection from T1D by scanning the epigenome for regions/genes where maternal protection may be

operating using mediation and effect modification approaches. We will examine whether the maternal protection conferred through exposure to T1D in utero operates through changes to DNA methylation. And finally, we will explore maternal characteristics (autoantibodies, diet, HbA1c) through which the maternal protective effect operates.

3. Multi-omics Integration to Characterize Genetic Influences on Metabotypes of Type 1 Diabetes Progression

Principal Investigator: Randi K. Johnson

Project Period: 09/15/20 – 08/31/22

Sponsor: National Institutes of Health-NIDDK (R03 R03127427)

Role and Percent effort: Co-investigator (2%)

Annual direct cost: $100,000

Metabolomics reflect underlying processes involved in the development of type 1 diabetes (T1D), which has been increasing globally for decades. In this study, we examine more closely the metabolomics traits associated with T1D and characterize the genetic variation driving those changes.

4. Natural history of pre-diabetic autoimmunity.

Principal Investigator: Marian Rewers

Project period: 11/1/94 - 8/31/25

Sponsor: National Institutes of Health, NIDDK R01-DK32493

Role and percent effort: Co-Investigator (10%)

Total annual direct costs: $499,578

The major goal of this project is: 1) To identify and prospectively follow a cohort of children aged 0-6 years who are at a 12-40 times increased risk of IDDM compared to the general population. 2) To determine, in this cohort, the age-specific incidence of islet autoantibodies development, up to age of 8 years. 3) To evaluate environmental determinants of islet autoimmunity.

5. The Environmental Determinants of Diabetes in the Young (TEDDY)

Principal Investigator: Marian Rewers

Project Period: 3/01/03 – 11/30/23

Sponsor: National Institutes of Health, NIDDK, U01-DK63821

Role and % effort: Investigator and Co-Chair of Diet Committee (15%)

Annual direct costs: $ 593,329

The major goal of this project is to identify the environmental causes of type 1 diabetes autoimmunity and type 1 diabetes itself. This site is one of 6 sites around the world that will be following high risk children from birth. Dr. Norris is chair of the dietary and psychosocial data committee.

6. Autoimmunity Screening for Kids Program (ASK)

Principal Investigator: Marian Rewers

Project Period: 9/01/16-11/30/21

Sponsor: JDRF (1-SRA-2016-208-S-1

Role and percent effort: Co-investigator (in-kind)

Annual direct cost: $1,105,168

The purpose of this study is to learn more about the best way to screen children for the early signs of childhood diabetes and celiac disease.

7. Center for Mucosal Immunobiology and Rheumatic Disease Pathogenesis

Principal Investigators: V. Michael Holers and Kristine A. Kuhn

Project Period: 7/1/21-6/30/26

Sponsor: National Institutes of Health, NIAMS, P30 AR079369

Role and % effort: Co-Director of Core 1 (15%)

Total annual direct costs: $777,500

Major Goals: The goal of this center is to provide an infrastructure for investigators to evaluate the role of the mucosal immune response on the development of rheumatic and autoimmune diseases.

8. Idiopathic Pulmonary Fibrosis, a Disease Initiated by Mucociliary Dysfunction

PI: David Schwartz

Project Period: 9/30/17 – 9/29/22

Sponsor: W81XWH-17-1-0597, Department of Defense (DOD)

Role and Percent effort: Co-Investigator on Project 1 (5%)

Annual direct cost $1,695,986

The aims of Project 1 are 1) to screen 500 asymptomatic siblings of sporadic IPF cases and perform pulmonary function testing on cases of preclinical pulmonary fibrosis (PrePF, 2) Develop and validate a biomarker profile that improves the detection of preclinical pulmonary fibrosis (PrePF), and 3) Elucidate the determinants of progression in preclinial pulmonary fibrosis (PrePF).

9. Preclinical pulmonary fibrosis, an opportune rare disease cohort

PI: David Schwartz

Project Period: 8/1/20-7/31/26

Sponsor: NIH-NHLBI UG3 HL151865

Role and Percent effort: Co-Investigator (10%)

Annual direct cost: $477,518

The goal of this proposal is to establish a prospectively followed high-risk IIP cohort, identify the genetic and environmental risk factors for PrePF, and will maximize the utility of this high-risk cohort for ancillary studies focused on primary and secondary prevention of IIP.

10. RiseMS/DREAMS

Co-PI: John Corboy and Enrique Alvarez (Neurology), Teri

 Shreiner (Peds Neurology) and Jill Norris

Project Period: September 2018 –

Sponsor: Philanthropic gifts and NMSS

Percent effort: 5%

Annual direct cost $200,000

The goal of this is to perform a pilot study to determine the feasibility of screening for preclinical multiple sclerosis in an at-risk population.

Past Funding (of which JM Norris was PI):

Nutrigenetics & -genomics of vitamin D and omega-3 fatty acids in type 1 diabetes

Principal Investigator: Jill M. Norris

Sponsor: NIH/NIDDK R01 DK104351

Percent effort: 5%

Project period: 9/15/14 – 8/31/20

Direct costs (annual): $515,727

The goal of this study is to elucidate the nutrition epidemiological findings regarding the putative protective effect of vitamin D and omega-3 fatty acids in type 1 diabetes utilizing metabolomics, epigenetic and gene expression approaches in a nested case-control study in the Diabetes Autoimmunity Study in the Young.

The role of lipid mediators in preclinical rheumatoid arthritis

Principal Investigator: Jill M. Norris

Project Period: 7/1/18-6/30/20

Sponsor: Pfizer/ ASPIRE US Rheumatology (WI237803)

Percent effort: 7%

Annual direct cost: $121,924

The goal of this proposal is to elucidate the role of lipid mediators in the preclinical period of RA. We will examine the association of plasma lipid mediator concentrations with the progression from autoimmunity to IA. We will measure circulating cytokines in order to determine if lipid mediators decrease risk of IA progression by decreasing pro-inflammatory cytokines.

The role of omega-3 fatty acids and derived lipid mediators in RA. An Innovative Pilot Project of the Cooperative Study Group for Autoimmune Disease Prevention (CSGADP)

Principal Investigator of subcontract: Jill M. Norris

Project Period: 4/1/18-5/31/19

Sponsor: NIAID (U01AI130830 (PI Harley)

Percent effort: 10%

Annual direct cost: $ 99,641 (subcontract only)

The first aim of this project is to determine the association of lipid mediators with progression from autoimmunity to inflammatory arthritis. The second aim of this project is to assess whether lipid mediators are associated with reported intake of omega-3 fatty acid supplements.

Understanding Early Events in Lupus Autoimmunity to Aid Prevention

Principal Investigator of Subcontract: Jill M. Norris

Sponsor: NIH/NIAID (U01 AI101934, James - PI)

Percent Effort: 5%

Project period: 07/01/2012-06/30/2018

Annual Direct Cost: $40,000 (subcontract only)

This study will examine immune parameters across a spectrum of pre-clinical lupus autoimmunity to help decipher critical pathways in the transition to systemic autoimmune clinical disease.

Investigation of Genetic Associations with Disease-Specific Autoimmunity and Pan-Autoimmunity in Individuals at Risk for Autoimmune Disease: Innovative pilot project of the Cooperative Study Group for Autoimmune Disease Prevention (CSGADP)

Principal Investigator of subcontract: Jill M. Norris

Sponsor NIAID (U01AI101990- Buckner PI)

Percent effort: 5%

Project period: 5/1/16-10/31/17

Direct cost: $87,557

The goal of this project is to genotype first degree relatives of RA probands using the MEGAchip, harmonize these data with ImmunoChip data from first degree relatives of SLE probands, in order to identify genetic variants or risk scores associated with the presence of disease-specific autoantibodies as well as pan-autoimmunity. In addition, we will examine the combined effect of genetic and environmental factors and their association with disease-specific autoimmunity and pan-autoimmunity.

Exploring omega-3 fatty acids as a potential preventive agent in RA: Innovative pilot project of the Cooperative Study Group for Autoimmune Disease Prevention (CSGADP)

Principal Investigator of Subcontract: Jill M. Norris

Sponsor NIAID (U01AI101990- Buckner PI)

Percent effort: 2.5%

Project period: 3/15/15-11/30/16

Direct costs: $74,998

The goal of this study is to understand what role omega-3 fatty acids have in the progression of autoimmunity to clinically apparent disease, in order to help to understand if omega-3 fatty acids could to prevent this progression.

CSGADP Collaborative Study Analysis Grant

Principal Investigator of Subcontract Jill M. Norris (1.2 calendar)

Sponsor: NIAID (U01AI101990- Buckner PI)

Project Period 5/1/15-7/30/16

Annual Direct Cost: $87,522

The aims of this project are to analyze the complex datasets (autoantibodies, genetics, environmental factors) across and within the related diseases studied by the CSGADP study in order to determine common and unique influences on autoimmunity.

GUARDIAN study

Principal Investigator: L. Wagenknecht and R. Watanabe (Multi-PI)

Sponsor: NIDDK

Role (percent effort): PI of Subcontract (Percent effort – 4%)

Project period: 7/20/10-5/31/15

Annual Direct Cost: $70,798 (subcontract only)

The purpose of this study is to do a GWAS of insulin resistance in a discovery population consisting of the IRAS Family Study cohorts and others.

Nutritional Etiology of Prediabetic Autoimmunity

Principal Investigator: Jill M. Norris (percent effort - 10%)

Sponsor: National Institutes of Health, NIDDK, R01-DK49654

Project period: 5/97 - 7/13

Total annual direct costs: $383,771

This study will investigate the relationship between nutritional components of early diet, with a focus on anti-oxidants and vitamins, and the presence of beta-cell autoimmunity in children at risk for IDDM.

Autoantibodies, inflammation, and cardiovascular disease in pre-clinical RA

Principal Investigator: Jill M. Norris (percent effort – 20%)

Sponsor: American College of Rheumatology Within Our Reach

Project period: 7/1/10-6/30/13

Annual Direct Costs: $199,986

The major hypothesis of this study is that in subjects at elevated risk for developing RA, but without current signs or symptoms of the disease, RA-related autoimmunity is associated with increased CVD risk due to increased systemic inflammation.

RA-related autoantibodies in healthy FDR of RA Patients

Principal Investigator: Jill M. Norris (percent effort – 2.5%)

Sponsor: NIH-NIAMS, R01 AR051394

Project period: 7/18/05-6/30/12

Annual Direct Cost: $243,985

The major goal of this study is to measure the prevalence and risk factors for the appearance of RA-related autoantibodies in high risk adults.

IRAS Family Study

Principal Investigator: Jill M. Norris (percent effort – 15%),

Sponsor: NIH, NHLBI, R01-HL61019

Project period: 9/99 - 12/11

Total annual direct costs $ 436,899

The major goal of this project is to identify 1) the genetic and environmental determinants of insulin sensitivity, and visceral adiposity; and 2) the extent to which insulin sensitivity, and visceral obesity share genetic and environmental influences. This will be addressed in families of IRAS participants.

Effects of vitamin D genes on measures of insulin secretion, insulin sensitivity and adiposity

Principal Investigator: Jill M. Norris, PhD (percent effort – 10%)

Sponsor: American Diabetes Association

Project period: July 1, 2004-June 30, 2006

Total annual direct costs: $86,957

The purpose of this study is to examine the association between the vitamin D-related genes, such as vitamin D receptor, Cyp1alpha, and vitamin D binding protein and insulin secretion, insulin sensitivity and adiposity, and how this association may be modified by physical activity in Hispanic-American and African-American Families in the IRAS Family Study.

Studies on the Genetics of Non-Insulin Dependent Diabetes (NIDDM).

Principal Investigator: Jill M. Norris

Sponsor: American Diabetes Association

Project period: 7/93 - 12/99

Total direct costs: $1,109,000

Genetic Epidemiology of NIDDM in an Hispanic Community

Co-Principal Investigators: Jill Norris and Christopher Aston (University of

 Pittsburgh)

Role: Principal investigator of sub-contract

Sponsor: National Institutes of Health, NIDDK, RO1

Project period: 5/95 - 4/99

Total direct costs: $1,042,986 (sub-contract: $370,910)

Gene-environment study of type 2 diabetes in families

Principal Investigator: Jill M. Norris, PhD (percent effort - 25%)

Sponsor: National Institutes of Health, NIDDK, R01-DK54981

Project period: 8/99 - 7/03 (no-cost extension to 7/04)

Annual direct costs: $450,000

**XI. BIBLIOGRAPHY**

*Notes:*

*Some publications are listed under the former name, Jill N. Kostraba*

*\*Indicates student or post-doc of Dr. Norris; \*\*Indicates Dr. Norris is senior or co-senior author*

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(This paper was selected to be one of the “Editor’s Choices” of the issue.)

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