

Curriculum Vitae: Melinda C. Aldrich, Ph.D., M.P.H.

CURRICULUM VITAE

Name: Melinda C. Aldrich, Ph.D., M.P.H.

Office Address: 2215 Garland Avenue
519A Light Hall
Nashville, TN 37232
Phone: 615-875-2627

Education:

Undergraduate:

1988-1992 University of California, Santa Cruz
Santa Cruz, California
B.A., Honors Senior Thesis, Biology

Graduate:

2001-2003 University of California, Berkeley
Berkeley, California
M.P.H., Epidemiology and Biostatistics
Mentor: Patricia A. Buffler, Ph.D., M.P.H.
Thesis title: *Cytogenetics of Hispanic and White Children with Acute Lymphoblastic Leukemia in California*

2003-2007 University of California, Berkeley
Berkeley, California
Ph.D., Epidemiology
Mentor: Patricia A. Buffler, Ph.D., M.P.H.
Dissertation title: *Genetic Admixture in a Lung Cancer Study of African Americans and Latinos*

Post Graduate Training:

2007-2010 University of California, San Francisco
San Francisco, California
Post-doctoral fellow, Genetic Epidemiology
Mentor: Esteban G. Burchard, M.D., M.P.H.

Academic Appointments:

Assistant Professor Department of Thoracic Surgery
Department of Medicine (Division of Epidemiology)
Vanderbilt University Medical Center
October 2010-September 2019

Curriculum Vitae: Melinda C. Aldrich, Ph.D., M.P.H.

Assistant Professor	Department of Biomedical Informatics Vanderbilt University Medical Center July 2018-October 2019
Associate Professor (tenure)	Department of Medicine (Division of Genetic Medicine) Departments of Thoracic Surgery and Biomedical Informatics Vanderbilt University Medical Center October 2019-present
Member	Vanderbilt-Ingram Cancer Center Vanderbilt University Medical Center 2011-present
Member	Vanderbilt Center for Human Genetics Research Vanderbilt University Medical Center 2011-2012
Investigator	Vanderbilt Center for Human Genetics Research Vanderbilt University Medical Center 2012-2015
Investigator	Vanderbilt Genetics Institute Vanderbilt University Medical Center 2015-present

Employment:

Research Assistant	Immunology Research Genentech, Inc. South San Francisco, California 1994-1998
Research Associate	Immunology Research Genentech, Inc. South San Francisco, California 1999-2001

Professional Organizations:

Professional Society Memberships

2006-present	American College of Epidemiology Associate Director, 2006-2007 Member, Membership Committee (2006-2014) Member, Policy Committee (2008-2019)
--------------	---

	Secretary, Membership Committee, 2008-2009 Vice Chair, Membership Committee, 2009 Chair, Membership Committee, 2009-2011 Board of Directors, 2016-present Fellow, 2019-present
2007-present	American Association for Cancer Research
2009-present	American Society of Human Genetics
2014-present	American Society for Preventive Oncology
2015-present	American Thoracic Society
2015-present	International Network for Epidemiology in Policy, Board of Directors
2018-present	International Association for the Study of Lung Cancer

Professional Activities:

Intramural:

Vanderbilt University Medical Center

1. Organizer, Center for Human Genetics Research Genetics Symposium (2012)
2. Reviewer, BioVU Review Committee (2012-present)
3. Reviewer, American Cancer Society – Institutional Research Grant (2013-2015)
4. Co-founder, Population Genetics and Health Disparities Journal Club (2013-2015)
5. Faculty Search Committee, Vanderbilt Genetics Institute (2016)
6. Reviewer, Cancer Early Detection and Prevention Initiative – Institutional Pilot Project Grants (2016-2017)
7. Reviewer, Southern Community Cohort Study Publications Committee (2016-2018, 2020-2021)
8. Founder, Admixture Working Group (2018-2019)
9. Vanderbilt Institute for Clinical and Translational Research Scientific Review Committee (VICTR SRC) (2019-present)
10. Vanderbilt Department of Medicine, Diversity Equity and Inclusion Liaison Committee (2020 – present)
11. Racial Equity Task Force, Co-lead of Racial Bias and Racism in Research Workgroup (2020)
12. Health Equity Seminar Series Co-Organizer (2020-2021)

Extramural:

Symposia and Workshops Organized or Moderated

1. Organizer and Moderator, Symposium for the North American Congress of Epidemiology, Symposium Title: Assessing Ethnicity in Populations: Appropriate Measurement and its Implications (2006)
2. Organizer and Speaker, American Association for Clinical Chemistry Annual Meeting, Symposium Title: Laboratory Medicine's Role in Reducing Health Disparities (2015)
3. Platform Moderator, American Society of Human Genetics Annual Meeting (2015)
4. Co-Chair, American Thoracic Society Workshop (competitive application), Workshop title: Addressing Disparities in Lung Cancer Screening Eligibility and Health Care Access (2019)
5. Co-Chair, Lung Cancer Screening – Insights on Risk Assessment, Comorbidities, and Access. Mini-Symposium, American Thoracic Society Annual Meeting (2020, Conference cancelled and rescheduled to smaller virtual format)

Membership on Grant Review Study Section

1. NIH Cancer Biomarker Study Section (2015)
2. NIH Center for Scientific Review Anonymization Study (2018)
3. NIH/NIMHD Special Emphasis Panel/Scientific Review Group [2020/05 ZMD1 MLS (M1) R] Specialized Centers of Excellence on Environmental Health Disparities Research (2020)
4. NIH/NCI Center for Scientific Review Special Emphasis Panel [ZRG1 OTC-2 Z(02)] (2021)

Committee Service

1. Reviewer, Health ABC Study genetics proposals (2010-2013)
2. Annual Meeting Program Committee, American College of Epidemiology (ACE) (2012)
3. Innovation Task Force, American College of Epidemiology (ACE) (2012)
4. Reviewer, National Lung Screening Trial-American College of Radiology Imaging Network (NLST-ACRIN) proposals (2012-2015)
5. Reviewer, American Society of Human Genetics (ASHG) Annual Meeting, Cancer Genetics Abstracts (2015)
6. Program Committee, Pacific Symposium on Biocomputing – Precision Medicine (2017-2018)
7. Reviewer, American Society Preventive Oncology (ASPO) Annual Meeting abstracts (2018)
8. Program Committee, American Thoracic Society (ATS) (2019-2020)
9. Member, National Lung Cancer Roundtable (NLCRT) Lung Cancer Screening Implementation Strategies Task Force (2020 – present)
10. Committee Member, American Society of Human Genetics (ASHG) Government & Public Policy Advocacy Committee (GPAC) (2021-2023)
11. Committee Member and Liaison, American Society of Human Genetics (ASHG) Diversity, Equity, and Inclusion Task Force (2021-2023)

Editorial Board Service

1. *Ethnicity & Disease*, Editorial Board Member (01/01/2021 – 12/31/2023)

Ad hoc Peer Reviewer:

Nature Communications, PLoS Genetics, PLoS ONE, Archives of Medical Research, Leukemia Research, Pharmacogenomics, Genes and Immunity, Prostate, Cancer Epidemiology Biomarkers & Prevention, Cancer Research, Bioinformatics, BMC Cancer, American Journal of Respiratory and Critical Care Medicine, Chest, Ethnicity and Health, Journal of the American College of Radiology, American Journal of Respiratory and Critical Care Medicine, Journal of the American Medical Association

Special Awards or Recognition:

- 1992 Honors College Senior Thesis
- 2002 Public Health Alumni Association Scholarship
University of California, Berkeley
Awarded to outstanding Public Health students
- 2003-2004 Epidemiology Program Block Grant Fellowship
University of California, Berkeley
Awarded to outstanding Epidemiology students
- 2006 Nationally Selected Participant, Society for Epidemiologic Research Workshop
- 2008 Warren Winkelstein Award
In recognition for outstanding contributions to the field of epidemiology during graduate studies in the Epidemiology doctoral program at UC Berkeley. Awarded to one individual.
- 2012 Research Scholar Award
Awarded to VCTRS scholars with excellent presentations at Annual Translational Science Meeting
- 2013-2014 Fellow, Keystone Symposia on Molecular and Cellular Biology
Nationally selected fellow, Keystone Symposia Fellows Program
- 2018 Reviewer's Choice Award
Top 10% of Abstracts, American Society of Human Genetics
- 2019 Selected Workshop (competitive application), American Thoracic Society
Title: Addressing Disparities in Lung Cancer Screening Eligibility and Health Care Access

- 2019 Star Award, Vanderbilt-Ingram Cancer Center
Award given in recognition for high impact cancer research contributions.
- 2020 Chancellor’s Award for Research on Equity, Diversity, and Inclusion
Award given in recognition for excellence on the part of faculty in published research, scholarship, or creative expression that advances our understanding of equity, diversity, and inclusion.
- 2021 First Place Winner, Techquity Design Challenge, Vanderbilt Clinical Informatics Center (VCLIC)
Award given to best team (out of 6 teams) to develop a prototype to address problems related to healthcare equity and technology using informatics, technical, and socio-behavioral approaches. Winning proposal title: Capture of Smoking History in EHR for Assessment of Lung Cancer Screening Eligibility

Teaching Activities:

Medical School Courses

Vanderbilt University Medical Center

- 2012 Invited Lecturer, Summer Seminar Series, “Summer Research Training Program in Heart, Lung, and Vascular Biology”, Lecture title: *Scientific Advantages of Studies in Racially Diverse Populations*

Graduate School Courses

University of California, San Francisco

- 2009-2010 Invited Lecturer, “Principals of Pharmacogenomics”, School of Pharmacy
Lecture Title: *Personalized Medicine: An Epidemiologic Perspective*

Vanderbilt University Medical Center

- 2010-2016, 2018-2020 Invited Lecturer, “Epidemiology Theory and Methods”, Epidemiology Graduate Program, Department of Medicine,
Lecture title: *Advantages and Challenges of Studies in Racially Diverse Populations*
- 2011-2013, 2015 Invited Lecturer, “Analytical Techniques in Genetic Epidemiology”,

Curriculum Vitae: Melinda C. Aldrich, Ph.D., M.P.H.

- 2017-2018
Epidemiology Graduate Program, Department of Medicine;
Lecture title: *Admixture*; Lecture title: *Admixture Mapping*
- 2011-2013,
2015-2016, 2018-2020
Invited Lecturer, “Quantitative Methods and Measurement”,
Epidemiology Graduate Program, Department of Medicine,
Lecture title: *Measurement of Race: What is an Epidemiologist to do?*
- 2011-2014
Course Director, “Advanced Readings in Epidemiologic Context,
Thought and History”
Epidemiology Graduate Program
Developed and directed course discussing seminal literature in the
history of epidemiology for Epidemiology PhD students and
students from other disciplines with consent of instructor. The
course provides a social and cultural context for the development
of the field, challenges to the application of epidemiologic
findings, consideration of roles and history of public health
advocacy, and exploration of topics like social justice and research
ethics through the lens of non-fiction.
- 2013-2015, 2018
Invited Lecturer, Human Genetics Graduate Program, “Human
Genetics II”; Lecture title: *Measurement of Race: What is a
Researcher to do?*; Lecture title: *Admixture in Association Studies*
- 2014
Instructor, “Advanced Methods for Epidemiology: Admixture and
Admixture Mapping” Course Module
Epidemiology Graduate Program
Developed and directed course discussing influential literature in
admixture estimation and its application to studies of disease. The
first half of the module includes readings related to the history and
development of genetic ancestry estimation and the second half of
the module details readings related to modern statistical
approaches and applications.
- 2014-2015, 2019
Invited Lecturer, Vanderbilt Training Program in Molecular and
Genetic Epidemiology of Cancer, Lecture title: *Admixture and
Population Stratification*; Lecture title: *Key Elements of a
Successful K07*
- 2017
Co-instructor, Human Genetics II
Human Genetics Graduate Program
Co-directed module format course. The course introduces
population genetics, genetic epidemiology, admixed populations,
and precision medicine. Course content emphasizes appropriate
study design and statistical methods for genetic association studies

with a strong focus on admixed populations. Course readings include historical and current influential publications.

- 2019 Instructor, “Advanced Methods for Epidemiology: Development and Application of Polygenic Risk Scores” Course Module
Epidemiology Graduate Program
Developed and directed course discussing influential literature in polygenic risk scores and their application to studies of polygenic disease. Statistical approaches and methods are discussed. A polygenic risk score (PRS) will be developed and applied to a lung cancer risk prediction model.
- 2020 Instructor, “Racial disparities in lung cancer research: Methodological applications in the Southern Community Cohort Study” Course Module
Epidemiology Graduate Program
Developed and directed course to apply epidemiologic concepts to uncovering predictors of racial disparities. Data-driven models will be developed and a directed acyclic graph will be derived to assess potential causation.
- 2021 Invited Lecturer, Human Genetics II
Human Genetics Graduate Program
Lecture title: *Epidemiology (in Genetics)*

Research Supervision

Dissertation and Qualifying Exam Committees

1. Stephen Deppen, Ph.D.
Epidemiology, Vanderbilt University Medical Center (2010-2013)
My role: Member, Dissertation Committee
Current position: Associate Professor, Vanderbilt University Medical Center
2. Nicole Restrepo, Ph.D.
Human Genetics, Vanderbilt University Medical Center (2012)
My Role: Member, Qualifying Exam Committee
Current position: Research Scientist, Geisinger Health
3. Jennifer Malinowski, Ph.D.
Human Genetics, Vanderbilt University Medical Center (2013-2014)
My role: Member, Dissertation Committee
Current position: Freelance medical writer
4. Rebecca Levinson, Ph.D.
Human Genetics, Vanderbilt University Medical Center (2013-2016)
My role: Chair, Dissertation Committee

Current position: Research fellow, Heidelberg University

5. Ayush Giri, Ph.D.
Epidemiology, Vanderbilt University Medical Center (2014-2015)
My role: Member, Dissertation Committee
Current position: Assistant Professor, Vanderbilt University Medical Center
6. Tim O'Brien, Ph.D.
Human Genetics, Vanderbilt University Medical Center (2014-2017)
My role: Member, Dissertation Committee
Current position: Postdoctoral Fellow, UT Houston
7. Laura Wiley, Ph.D.
Human Genetics, Vanderbilt University Medical Center (2014-2016)
My role: Chair, Dissertation Committee
Current position: Assistant Professor, UC Denver
8. Alexandra Fish, Ph.D.
Human Genetics, Vanderbilt University Medical Center (2015-2017)
My role: Member, Dissertation Committee
Current position: Scientist, Genomics PLC, Oxford
9. Sarah Fletcher Mercaldo, Ph.D.
Biostatistics, Vanderbilt University Medical Center (2014-2017)
My role: Member, Dissertation Committee and Qualifying Exam
Current position: National Aeronautics and Space Administration
10. Christina (Tripp) Saunders, Ph.D.
Biostatistics, Vanderbilt University Medical Center (2016-2018)
My role: Member, Dissertation Committee
Current position: Berry Consultants, Austin, Texas
11. Laura Colbran, Ph.D.
Human Genetics, Vanderbilt University Medical Center (2017-present)
My role: Member, Dissertation Committee and Qualifying Exam
Current position: Postdoctoral scholar, University of Pennsylvania
12. Ky'Era Actkins
Physiology, Meharry Medical College (2017-present)
My role: Member, Dissertation Committee and Qualifying Exam
Current position: Graduate student, Meharry Medical College
13. Valerie Welty
Biostatistics, Vanderbilt University Medical Center (2018-present)
My role: Member, Dissertation Committee and Qualifying Exam
Current position: Graduate student, Vanderbilt University

14. Meredith Duncan, M.A.
Epidemiology, Vanderbilt University Medical Center (2019-2020)
My role: Member, Dissertation Committee
Current position: Assistant Professor, University of Kentucky
15. Sarah Fong
Human Genetics, Vanderbilt University Medical Center (2019-present)
My role: Member, Dissertation Committee
Current position: Graduate student, Vanderbilt University
16. Cato Milder
Epidemiology, Vanderbilt University Medical Center (2020-present)
My role: Member, Dissertation Committee
Current position: Graduate student, Vanderbilt University
17. Megan Hollister Murray
Biostatistics, Vanderbilt University Medical Center (2020-present)
My role: Member, Dissertation Committee
Current position: Graduate student, Vanderbilt University
18. Graham Hancock
Master of Public Health
My role: Member, Mentoring Committee
Current position: Graduate student, Vanderbilt University

Faculty or Research Advisor

1. Jamii St. Julien, M.D.
Surgical Resident, Vanderbilt University Medical Center (2010-2012)
My role: Research Advisor
Current position: Surgeon, Mayo Clinic
2. Kara Michels, Ph.D.
Epidemiology, Vanderbilt University Medical Center (2012-2014)
My role: Faculty Advisor
Current position: NIH/NCI Postdoctoral Fellow
3. Ashley Morgan, M.D.
Medical Student, Vanderbilt University Medical Center (2012-2015)
My role: Research Advisor
Current position: Pediatric resident, Nationwide Children's Hospital
4. Calvin Patimeteeporn, M.P.H.
Undergraduate, Vanderbilt University (Summer 2013)
My role: Research Advisor for MPH Summer Internship

Current position: Epi and Surveillance Team, Traveler's Health Branch, CDC

5. Nina Abramson
Undergraduate student (Summer 2015)
My role: Summer research advisor
6. Diane Haddad, M.D., M.P.H.
Surgical Oncology Resident, Vanderbilt University Medical Center (2018-present)
My role: Research Advisor
Current position: Surgical resident, Vanderbilt University Medical Center
7. Nancy Liu
Undergraduate; Medicine, Health, and Society, Vanderbilt University Medical Center (2018-2020)
My role: Research Advisor
8. Anika Park
Undergraduate; Medicine, Health, and Society, Vanderbilt University Medical Center (2020-present)
My role: Research Advisor
9. Sreekar Miriyala
Undergraduate; Medicine, Health, and Society, Vanderbilt University Medical Center (2020-present)
My role: Research Advisor

Primary Research Advisor

1. Nuri Kodaman, Ph.D.
Human Genetics, Vanderbilt University Medical Center (2012-2015)
My role: Co-advisor, Dissertation Committee
Current position: Postdoctoral fellow, Case Western Reserve University
2. Carissa (Iverson) Jones, Ph.D.
Human Genetics, Vanderbilt University Medical Center (2013-2018)
My role: Primary Academic Advisor, Dissertation Committee Member, Postdoctoral Advisor
Current position: Sarah Cannon, Personalized Medicine Operations
3. Marquitta White, Ph.D.
Human Genetics, Vanderbilt University Medical Center (2014)
My role: Co-advisor, Dissertation committee
Current position: NIH/NHLBI Program Officer
4. Brittany Hollister, Ph.D.
Human Genetics, Vanderbilt University Medical Center (2015-2017)

Curriculum Vitae: Melinda C. Aldrich, Ph.D., M.P.H.

My role: Co-advisor, Dissertation Committee
Current position: Academic Program Specialist, University of Florida

5. Victoria Martucci
Human Genetics, Vanderbilt University Medical Center (2016-present)
My role: Primary Academic Advisor
Current position: MSTP Student, Vanderbilt University
6. Jennifer Richmond, Ph.D.
Health Disparities Postdoctoral Scholar
My role: Primary Mentor
Current position: Postdoctoral Scholar, Vanderbilt University Medical Center

Other Significant Activities

- | | |
|------|--|
| 2012 | Junior Faculty Leadership Development Course (nominated)
Vanderbilt University Medical Center |
| 2018 | Culturally Aware Mentoring Workshop (two-day)
Vanderbilt University Medical Center |

Media Interviews, Press Releases, and Podcasts

ABC Channel 7 TV Interview, *Genetic Screening for Disease*, San Francisco, July 7, 2010

Vanderbilt Reporter. *Study explores race differences of lung cancer risk*, August 1, 2013
<http://news.vanderbilt.edu/2013/08/study-explores-race-differences-of-lung-cancer-risk/>

International Association for the Study of Lung Cancer, Press Release. *Researchers study survival in African American versus Caucasian lung cancer patients*, October 2013

Public Health Minute Interview. May 2016
<http://wp.lehman.edu/public-health-minute-with-william-latimer/lung-cancer-in-african-americans-melinda-aldrich-phd-mph-vanderbilt-university-medical-center/>

Eureka Alert, August 16, 2018
https://www.eurekaalert.org/pub_releases/2018-08/gsu-apr081618.php

COPD News Today, August 21, 2018
<https://copdnewstoday.com/2018/08/21/autoimmune-responses-may-underlie-copd-development-study/>

JAMA Oncology Podcast, Published June 27, 2019
<https://jamanetwork.com/learning/audio-player/17681934>

Curriculum Vitae: Melinda C. Aldrich, Ph.D., M.P.H.

VUMC Reporter. *Health Disparity for blacks exists within lung screening guidelines*. June 27, 2019

<http://news.vumc.org/2019/06/27/health-disparity-for-blacks-exists-within-lung-screening-guidelines/>

Reuters. *Lung cancer screening guidelines may miss more African Americans at risk*. June 27, 2019

<https://www.reuters.com/article/us-health-lungcancer-blacks/lung-cancer-screening-guidelines-may-miss-more-african-americans-at-risk-idUSKCN1TS302>

Bloomberg Law. *Black smokers miss cancer tests under flawed criteria*. June 27, 2019

https://www.bloomberglaw.com/document/X8DB67DS000000?bna_news_filter=health-law-and-business&jcsearch=BNA%25200000016b945fd9fda17fd77fa95c0002#jcite

Popular Science. *Poor lung cancer screening guidelines miss too many African American smokers*. June 28, 2019

<https://www.popsci.com/lung-cancer-screening-guidelines/>

VUMC Reporter. *Vanderbilt research played key role in new lung screen guidelines*. March 18, 2021

<https://news.vumc.org/2021/03/18/vanderbilt-research-played-key-role-in-new-lung-screen-guidelines/>

Research Program:

1. Title: *Genetic Admixture and Pulmonary Function Decline*
Dates: 2009
Source: NIH/NHLBI (F32)
Amount: \$50,321
Percent Effort: 90%
Principal Investigator: Melinda C. Aldrich, Ph.D., M.P.H.
2. Title: *Molecular & Genetic Epidemiology of Cancer Fellowship*
Dates: 2009-2010
Source: NIH/NCI (R25)
Percent Effort: 90%
Principal Investigator: John S. Witte, Ph.D.
3. Title: *Identifying Pleiotropic Genetic Determinants of Metformin Response and Lung Cancer*
Dates: 5/1/2011 – 4/30/2013
Source: NIH/NCI/Vanderbilt Ingram Cancer Center
Amount: \$71,000
Percent Effort: (no salary support)
Principal Investigator: Melinda C. Aldrich, Ph.D., M.P.H.

4. Title: *Leveraging genetic ancestry to identify genetic variants and gene-environment interactions influencing lung cancer*
Dates: 7/1/2011 – 6/30/2013
Source: Vanderbilt Clinical and Translational Research Scholars Award
Amount: \$176,000
Percent Effort: 90%
Principal Investigator: Melinda C. Aldrich, Ph.D., M.P.H.
5. Title: *Southern Community Cohort Study*
Dates: 9/26/2011 – 6/30/2013
Source: NIH/NCI
Amount: \$4,081,098
Percent Effort: 20%
Role: Co-investigator
Principal Investigator: William J. Blot, Ph.D.
6. Title: *Prognosis of Lung Cancer: Heredity or Environment?*
Dates: 9/30/2012 – 3/14/2015
Source: Department of Defense (Lung Cancer Research Program Early Investigator Synergistic Idea Award)
Amount: \$303,183
Percent Effort: 25%
Principal Investigator: Melinda C. Aldrich, Ph.D., M.P.H.
7. Title: *Unraveling Genetic Determinants of Lung Cancer Risk in African Americans*
Dates: 7/1/2013 – 12/30/2018
Source: NIH/NCI (K07)
Amount: \$729,136
Percent Effort: 90%
Impact score: 10
Principal Investigator: Melinda C. Aldrich, Ph.D., M.P.H.
8. Title: *Identifying genetic markers for lung cancer risk among high-risk COPD patients*
Dates: 2/1/2014 – 3/31/2015
Source: Vanderbilt-Ingram Cancer Center (Thoracic Program Pilot Project)
Amount: \$50,000
Percent Effort: (no salary support)
Principal Investigator: Melinda C. Aldrich, Ph.D., M.P.H.
9. Title: *Validation of Biomarkers of Risk for the Early Detection of Lung Cancer*
Dates: 05/01/2016 - 03/31/2021
Source: NIH/NCI (U01)
Current Year Direct Costs: \$480,000

Percent Effort: 20%
Role: Co-Investigator
Principal Investigator: Pierre P. Massion, M.D.

10. Title: *Center of Excellence in Precision Medicine and Population Health*
Dates: 05/19/2016 – 03/31/2021
Source: NIH/NIMHD (U54)
Current Year Direct Costs: \$1,930,049
Percent Effort: 10%
Role: Co-Investigator
Principal Investigator: Consuelo H. Wilkins, M.D., M.S.C.I.
11. Title: *Integrating precision medicine into cancer navigation programs for underrepresented populations*
Dates: 9/14/2018 – 9/30/2019
Source: NIH/NIMHD (awarded through U54)
Amount: \$50,000
Percent Effort: 15%
Principal Investigator: Melinda C. Aldrich, Ph.D., M.P.H.
12. Title: *Genetics of Immune Related Adverse Events and Response to Immunotherapy*
Dates: 04/01/2018 – 03/31/2023
Source: NIH/NCI (R01)
Current Year Subcontract Direct Costs: \$47,608
Percent Effort: 15%
Role: Site PI, Subcontract with VUMC
Principal Investigator: Elad Ziv, M.D.
13. Title: *Data and Research Support Center – Community Engagement Project*
Dates: 07/06/2016 – 12/31/2021
Source: NIH/OOD
Amount: \$31,163,780
Percent Effort: 10%
Role: Co-Investigator
Principal Investigator: Joshua C. Denny, M.D., M.S.
14. Title: *Identifying racial disparities in population attributable risk for lung cancer*
Dates: 04/01/2019 – 02/29/2020
Source: VICTR-Meharry Vanderbilt Alliance (Promoting Healty Equity Award)
Total Amount: \$49,964
Percent Effort: 10%
Principal Investigator: Melinda C. Aldrich, Ph.D., M.P.H.
15. Title: *Understanding determinants of racial disparities in lung cancer incidence*
Dates: 05/07/2020 - 04/30/2024

Source: NIH/NCI (U01)
Amount: \$2,726,377
Percent Effort: 25%
Score: 6th percentile, first submission (A0)
Principal Investigator: Melinda C. Aldrich, Ph.D., M.P.H.

16. Title: *Mental health and chronic disease: A psycheMERGE investigation into the shared biology underlying*
Dates: 07/01/2019 - 06/30/2021
Source: NIH/NIMH (R56)
Amount year 1: \$597,185
Percent Effort: 10%
Principal Investigator: Lea Davis, Ph.D.
Role: Co-Investigator
Selected for high priority funding by NIH, funded as an R56 for 2 years
17. Title: *Understanding determinants of racial disparities in lung cancer stage*
Dates: 10/01/2019 - 09/30/2021
Source: Lung Cancer Research Foundation
Amount: \$147,780
Percent Effort: 10%
Principal Investigator: Melinda C. Aldrich, Ph.D., M.P.H.
18. Title: *Engaging community in basic science to reduce lung cancer burden*
Dates: 10/01/2020 - 09/30/2021
Source: NIH/NCI (P30 Supplement)
Amount: no salary
Percent Effort: no effort
Role: Co-Principal Investigator
19. Title: *Studying Trial Determinants of Success (STRIDES): Understanding barriers and facilitators to clinical trial accrual among patients with lung cancer in the Deep South*
Dates: 01/01/2021 - 12/31/2022
Source: Genentech, Health Equity Innovations Fund; Bristol Meyers Squibb
Current Year Subcontract Direct Costs: \$100,000
Percent Effort: 5%
Role: Site PI, Subcontract with GO₂ Foundation
20. Title: *Addressing racial disparities in lung cancer screening*
Dates: 04/05/2021 – 03/31/2025
Source: NIH/NCI
Source: NIH/NCI (R01)
Amount: \$2,407,951
Percent Effort: 20%
Score: 10th percentile

Publications and Presentations:

Articles in Refereed Journals

1. Rudmann DG, Moore MW, Tepper JS, **Aldrich MC**, Pfeiffer JW, HogenEsch H, and Tumas DB. (2000) Modulation of allergic inflammation in mice deficient in TNF receptors. *Am J Physiol Lung Cell Mol Physiol.* 279(6):L1047-57. PMID:11076794
2. Reader JR, Tepper JS, Schelegle ES, **Aldrich MC**, Putney LF, Pfeiffer JW, Hyde DM. (2003) Pathogenesis of mucous cell metaplasia in a murine asthma model. *Am J Pathol.* 162(6):2069-78. PMCID:2216702
3. Reader JR, Hyde DM, Schelegle ES, **Aldrich MC**, Stoddard AM, McLane MP, Levitt RC, Tepper JS. (2003) Interleukin-9 (IL-9) induces mucous cell metaplasia independent of inflammation. *Am J Resp Cell Mol Bio.* 28(6): 664-72. PMID:12760964
4. **Aldrich MC**, Zhang L, Wiemels JL, Ma X, Loh M, Metayer C, Selvin S, Feusner J, Smith MT, Buffler PA. (2006) Cytogenetics of Hispanics and whites with childhood acute lymphoblastic leukemia in California. *Cancer Epidemiology Biomarkers and Prevention.* 15(3): 578-81. PMID:16537719
5. Chang JS, Wrensch MR, Hansen HM, Sison JD, **Aldrich MC**, Quesenberry CP, Seldin MF, Kelsey KT, Kittles RA, Silva G, Wiencke JK. (2008) Nucleotide excision repair genes and risk of lung cancer among San Francisco Bay Area Latinos and African Americans. *International Journal of Cancer.* 123(9): 2095-104. PMCID:2734972
6. **Aldrich MC**, Selvin S, Hansen HM, Barcellos LF, Wrensch MR, Sison JD, Quesenberry C, Kittles RA, Silva G, Buffler PA, Seldin MF, Wiencke JK. (2008) Comparison of statistical methods for estimating genetic admixture in a lung cancer of African Americans and Latinos. *American Journal of Epidemiology.* 168(9): 1035-46. PMCID:2720774
7. Scelo G, Metayer C, Zhang L, Wiemels JL, **Aldrich MC**, Selvin S, Month S, Smith MT, Buffler PA. (2009) Household exposure to paint and petroleum solvents, chromosomal translocations and the risk of childhood leukemia. *Environmental Health Perspectives.* 117(1): 133-9. PMCID:2627857
8. Chang JS, Wrensch MR, Hansen HM, Sison JD, **Aldrich MC**, Quesenberry CP, Seldin MF, Kelsey KT, Wiencke JK. (2009) Base excision repair genes and risk of lung cancer among San Francisco Bay Area Latinos and African Americans. *Carcinogenesis.* 30(1):78-87. PMCID:2722143
9. **Aldrich MC**, Selvin S, Hansen HM, Barcellos LF, Wrensch MR, Sison JD, Kelsey KT, Buffler PA, Quesenberry CP, Seldin MF, Wiencke JK. (2009) CYP1A1/2 haplotypes and lung cancer and assessment of confounding by population stratification. *Cancer Research.* 69(6): 2340-8. PMCID: 3018237
10. Kumar R*, Seibold MA*, **Aldrich MC***, Williams KL*, Reiner AP, Colangelo L, Galanter J, Gignoux C, Hu D, Sen S, Choudhry S, Peterson EL, Rodriguez-Santana J, Rodriguez-Cintron W, Nalls MA, Leak TS, O'Meara E, Meibohm B, Kritchevsky SB, Li R, Harris TB, Nickerson DA, Fornage M, Enright P, Ziv E, Smith LJ, Liu K, Burchard EG. (2010) Self-

identified race versus genetic ancestry for lung function predictions among African Americans. *New England Journal of Medicine*. 363: 321-330. PMID: 2922981 *These authors contributed equally to this work.

- This article was selected for commentary and was highlighted by multiple news agencies
11. Chang JS, Wiemels JL, Chokkalingam AP, Metayer C, Barcellos LF, Hansen HM, **Aldrich MC**, Guha N, Urayama KY, Scélo G, Green J, May SL, Kiley VA, Wiencke JK, Buffler PA (2010) Genetic Polymorphisms in Adaptive Immunity Genes and Childhood Acute Lymphoblastic Leukemia. *Cancer Epidemiology Biomarkers and Prevention*. 19(9):2152-63. PMID:20716621
 12. Blot WJ, Cohen SS, **Aldrich M**, McLaughlin JK, Hargreaves MK, Signorello LB. (2011) Lung cancer risk among smokers of menthol cigarettes. *J Natl Cancer Inst*. 103(10): 810-6. PMID:3096798
 13. Galanter JM, Torgerson D, Gignoux CR, Sen S, Roth L, Eng C, Huntsman S, Via M, **Aldrich MC**, Rodriguez-Cintron W, Rodriguez-Santana J, Chapela R, Ford JG, Burchard EG. (2011) Cosmopolitan and ethnic-specific replication of genetic risk factors for asthma in two diverse Latino populations. *J Allergy Clin Immunol*. 128(1):37-43. PMID: 21621256
 14. Metayer C, Scelo G, Chokkalingam AP, Barcellos LF, **Aldrich MC**, Chang JS, Guha N, Urayama KY, Hansen HM, Block G, Kiley V, Wiencke JW, Wiemels JL, Buffler PA. (2011) Genetic variants in the folate pathway and risk of childhood acute lymphoblastic leukemia. *Cancer Causes and Control*. 22(9):1243-58. PMID: 21748308
 15. Hinch AG, Tandon A, Patterson N, Song Y, Rohland N, Palmer CD, Chen GK, Wang K, Buxbaum SG, Akylbekova EL, **Aldrich MC**, Ambrosone CB, Amos C, Bandera EV, Berndt SI, Bernstein L, Blot WJ, Bock CH, Boerwinkle E, Cai Q, Caporaso N, Casey G, Cupples LA, Deming SL, Diver WR, Divers J, Fornage M, Gillanders EM, Glessner J, Harris CC, Hu JJ, Ingles SA, Isaacs W, John EM, Kao WH, Keating B, Kittles RA, Kolonel LN, Larkin E, Le Marchand L, McNeill LH, Millikan RC, Murphy A, Musani S, Neslund-Dudas C, Nyante S, Papanicolaou GJ, Press MF, Psaty BM, Reiner AP, Rich SS, Rodriguez-Gil JL, Rotter JI, Rybicki BA, Schwartz AG, Signorello LB, Spitz M, Strom SS, Thun MJ, Tucker MA, Wang Z, Wiencke JK, Witte JS, Wrensch M, Wu X, Yamamura Y, Zanetti KA, Zheng W, Ziegler RG, Zhu X, Redline S, Hirschhorn JN, Henderson BE, Taylor HA Jr, Price AL, Hakonarson H, Chanock SJ, Haiman CA, Wilson JG, Reich D, Myers SR. (2011) The landscape of recombination in African Americans. *Nature*. Jul 20;476(7359):170-5. PMID: PMC3154982
 16. Soler Artigas MS, Loth DW, Wain LV, Gharib SA, Obeidat M, Tang W, Zhai G, Zhao JH, Smith AV, Huffman JE, Albrecht E, Jackson CM, Evans DM, Cadby G, Fornage M, Manichaikul A, Lopez LM, Johnson T, **Aldrich MC**, Aspelund T, Barroso I, Campbell H, Cassano PA, Couper DJ, Eiriksdottir G, Franceschini N, Garcia M, Gieger C, Gislason GK, Grkovic I, Hammond CJ, Hancock DB, Harris TB, Ramasamy A, Heckbert SR, Heliövaara M, Homuth G, Hysi PG, James AL, Jankovic S, Joubert BR, Karrasch S, Klopp N, Koch B, Kritchevsky SB, Launer LJ, Liu Y, Loehr LR, Lohman K, Loos RJ, Lumley T, Al Balushi KA, Ang WQ, Barr RG, Beilby J, Blakey JD, Boban M, Boraska V, Brisman J, Britton JR, Brusselle GG, Cooper C, Curjuric I, Dahgam S, Deary IJ, Ebrahim S, Eijgelsheim M,

- Francks C, Gaysina D, Granell R, Gu X, Hankinson JL, Hardy R, Harris SE, Henderson J, Henry A, Hingorani AD, Hofman A, Holt PG, Hui J, Hunter ML, Imboden M, Jameson KA, Kerr SM, Kolcic I, Kronenberg F, Liu JZ, Marchini J, McKeever T, Morris AD, Olin AC, Porteous DJ, Postma DS, Rich SS, Ring SM, Rivadeneira F, Rochat T, Sayer AA, Sayers I, Sly PD, Smith GD, Sood A, Starr JM, Uitterlinden AG, Vonk JM, Wannamethee SG, Whincup PH, Wijmenga C, Williams OD, Wong A, Mangino M, Marciante KD, McArdle WL, Meibohm B, Morrison AC, North KE, Omenaas E, Palmer LJ, Pietiläinen KH, Pin I, Pola Sbreve Ek O, Pouta A, Psaty BM, Hartikainen AL, Rantanen T, Ripatti S, Rotter JI, Rudan I, Rudnicka AR, Schulz H, Shin SY, Spector TD, Surakka I, Vitart V, Völzke H, Wareham NJ, Warrington NM, Wichmann HE, Wild SH, Wilk JB, Wjst M, Wright AF, Zgaga L, Zemunik T, Pennell CE, Nyberg F, Kuh D, Holloway JW, Boezen HM, Lawlor DA, Morris RW, Probst-Hensch N; The International Lung Cancer Consortium; GIANT consortium, Kaprio J, Wilson JF, Hayward C, Kähönen M, Heinrich J, Musk AW, Jarvis DL, Gläser S, Järvelin MR, Ch Stricker BH, Elliott P, O'Connor GT, Strachan DP, London SJ, Hall IP, Gudnason V, Tobin MD. (2011) Genome-wide association and large scale follow-up identifies 16 new loci influencing pulmonary function. *Nature Genetics*. Sept 25; 43(11):1082-90. PMID: PMC3267376
17. Chokkalingam AP, Bartley K, Wiemels JL, Metayer C, Barcellos LF, Hansen HM, **Aldrich MC**, Guha N, Urayama KY, Scelo G, Chang JS, Month SR, Wiencke JK, Buffler PA. (2011) Haplotypes of DNA repair and cell cycle control genes, X-ray exposures, and risk of childhood acute lymphoblastic leukemia. *Cancer Causes and Control*. 22(12):1721-30. PMID: 21987080
18. Chokkalingam AP, **Aldrich MC**, Bartley K, Hsu L-I, Metayer C, Barcellos LF, Wiemels JL, Wiencke JK, Buffler PA, Selvin S. (2011) Matching on race and ethnicity in case-control studies as a means of control for population stratification. *Epidemiology: Open Access*. 1:101. doi:10.4172/2161-1165.1000101. PMID: PMC3966291
19. Slusky DA, Metayer C, **Aldrich MC**, Ward MH, Lea CS, Selvin S, Buffler PA. (2012) Reliability of maternal-reports regarding the use of household pesticides: Experience from a case-control study of childhood leukemia. *Cancer Epidemiology*. Aug;36(4):375-80. PMID: 22277328
20. Jacobs KB, Yeager M, Zhou W, Wacholder S, Wang Z, Rodriguez-Santiago B, Hutchinson A, Deng X, Liu C, Horner MJ, Cullen M, Epstein CG, Burdett L, Dean MC, Chatterjee N, Sampson J, Chung CC, Kovaks J, Gapstur SM, Stevens VL, Teras LT, Gaudet MM, Albanes D, Weinstein SJ, Virtamo J, Taylor PR, Freedman ND, Abnet CC, Goldstein AM, Hu N, Yu K, Yuan JM, Liao L, Ding T, Qiao YL, Gao YT, Koh WP, Xiang YB, Tang ZZ, Fan JH, **Aldrich MC**, Amos C, Blot WJ, Bock CH, Gillanders EM, Harris CC, Haiman CA, Henderson BE, Kolonel LN, Le Marchand L, McNeill LH, Rybicki BA, Schwartz AG, Signorello LB, Spitz MR, Wiencke JK, Wrensch M, Wu X, Zanetti KA, Ziegler RG, Figueroa JD, Garcia-Closas M, Malats N, Marenne G, Prokunina-Olsson L, Baris D, Schwenn M, Johnson A, Landi MT, Goldin L, Consonni D, Bertazzi PA, Rotunno M, Rajaraman P, Andersson U, Freeman LE, Berg CD, Buring JE, Butler MA, Carreon T, Feychting M, Ahlbom A, Gaziano JM, Giles GG, Hallmans G, Hankinson SE, Hartge P, Henriksson R, Inskip PD, Johansen C, Landgren A, McKean-Cowdin R, Michaud DS, Melin BS, Peters U, Ruder AM, Sesso HD, Severi G, Shu XO, Visvanathan K, White E, Wolk A, Zeleniuch-Jacquotte A, Zheng W, Silverman DT, Kogevinas M, Gonzalez JR, Villa O, Li D,

- Duell EJ, Risch HA, Olson SH, Kooperberg C, Wolpin BM, Jiao L, Hassan M, Wheeler W, Arslan AA, Bueno-de-Mesquita HB, Fuchs CS, Gallinger S, Gross MD, Holly EA, Klein AP, Lacroix A, Mandelson MT, Petersen G, Boutron-Ruault MC, Bracci PM, Canzian F, Chang K, Cotterchio M, Giovannucci EL, Goggins M, Bolton JA, Jenab M, Khaw KT, Krogh V, Kurtz RC, McWilliams RR, Mendelsohn JB, Rabe KG, Riboli E, Tjønneland A, Tobias GS, Trichopoulos D, Elena JW, Yu H, Amundadottir L, Stolzenberg-Solomon RZ, Kraft P, Schumacher F, Stram D, Savage SA, Mirabello L, Andrulis IL, Wunder JS, García AP, Sierrasesúmaga L, Barkauskas DA, Gorlick RG, Purdue M, Chow WH, Moore LE, Schwartz KL, Davis FG, Hsing AW, Berndt SI, Black A, Wentzensen N, Brinton LA, Lissowska J, Peplonska B, McGlynn KA, Cook MB, Graubard BI, Kratz CP, Greene MH, Erickson RL, Hunter DJ, Thomas G, Hoover RN, Real FX, Fraumeni JF Jr, Caporaso NE, Tucker M, Rothman N, Pérez-Jurado LA, Chanock SJ. (2012) Detectable clonal mosaicism and its relationship to aging and cancer. *Nature Genetics*. May 6;44(6):651-8. PMID: 22561519
21. Deppen SA[‡], **Aldrich MC**, Hartge P, Berg CD, Colditz GA, Petitti DB, and Hiatt RA. (2012) Cancer screening: The journey from epidemiology to policy. *Annals of Epidemiology*. Jun;22(6):439-45. PMID: 22626002 [‡]mentored student
22. Hassanein M, Callison JC, Callaway-Lane C, **Aldrich MC**, Grogan EL, Massion PP. (2012) The state of molecular biomarkers for the early detection of lung cancer. *Cancer Prevention Research*. Aug; 5(8):992-1006. PMID:22689914
23. Chokkalingam AP, Metayer C, Scelo GA, Chang JS, Urayama KY, **Aldrich MC**, Guha N, Hansen HM, May SL, Dahl GV, Barcellos LF, Wiencke JK, Wiemels JL, Buffler PA. (2012) Variation in xenobiotic transport and metabolism genes, household chemical exposures, and risk of childhood acute lymphocytic leukemia. *Cancer Causes Control*. Aug;23(8):1367-75. PMID: 22674224
24. **Aldrich MC**, Kumar R, Colangelo LA, Williams LK, Sen S, Kritchevsky SB, Meibohm B, Galanter J, Hu D, Gignoux CR, Liu Y, Harris TB, Ziv E, Zmuda J, Garcia M, Leak TS, Foreman MG, Smith LJ, Fornage M, Liu K, Burchard EG for the Heath ABC and CARDIA Studies. (2012) Genetic ancestry-smoking interactions and lung function in African Americans: A cohort study. *PLoS ONE*. 7(6):e39541. PMID: 22737244
25. Liu M, Shah A, Peterson NB, Dai Q, **Aldrich MC**, Chen Q, Bowton EA, Liu H, Denny JC, Xu H. A study of transportability of an existing smoking status detection module across institutions. (2012) *AMIA Annu Symp Proc*. Jan; 22(1):179-91. PMCID:PMC3540509
26. Wilk JB, Shrine NRG, Loehr LR, Zhao JH, Manichaikul A, Lopez LM, Smith AV, Heckbert SR, Smolonska J, Tang W, Loth DW, Curjuric I, Hui J, Cho MH, Latourelle JC, Henry AP, **Aldrich M**, Bakke P, Beaty TH, Bentley AR, Borecki IB, Brusselle GG, Burkart KM, Chen T, Couper D, Crapo JD, Davies G, Dupuis J, Franceschini N, Gulsvik A, Hancock DB, Harris TB, Hofman A, Imboden M, James AL, Khaw K, Lahousse L, Launer LJ, Litonjua A, Liu Y, Lohman KK, Lomas DA, Lumley T, Marciante KD, McArdle WL, Meibohm B, Morrison AC, Musk AW, Myers RH, North KE, Postma DS, Psaty BM, Rich SS, Rivadeneira F, Rochat T, Rotter JI, Soler Artigas M, Starr JM, Uitterlinden AG, Wareham NJ, Wijmenga C, Zanen P, Province MA, Silverman EK, Deary IJ, Palmer LJ, Cassano PA, Gudnason V, Barr RG, Loos RJJ, Strachan DP, London SJ, Boezen HM, Probst-Hensch N, Gharib SA, Hall IP, O'Connor GT, Tobin MD, Stricker BH. (2012) Genome wide

- association studies identify *CHRNA5/3* and *HTR4* in the development of airflow obstruction. *Am J Respir Crit Care Med.* Oct 1;186(7):622-32. PMC3480517
27. St. Julien J[‡], Pinkerman R, **Aldrich MC**, Chen H, Deppen S, Callaway-Lane C, Massion PP, Putnam JB, Lambright ES, Nesbit JC, Grogan EL. (2012) Poor Survival for Veterans with Pathologic Stage I Non-Small Cell Lung Cancer. *American Journal of Surgery.* Nov;204(5):637-4. PMID:22906246_‡mentored student
 28. St. Julien J[‡], **Aldrich MC**, Sheng S, Deppen SA, Burfiend WR, Putnam JB, Nesbitt JC, Grogan EL. (2012) Obesity Increases Operating Room Time in Patients Undergoing Lobectomy in the Society of Thoracic Surgeons Database. *Annals of Thoracic Surgery.* Dec;94(6):1841-7. PMID: 23040822 ‡mentored student
 29. Hancock DB, Artigas MS, Gharib SA, Henry A, Manichaikul A, Ramasamy A, Loth DW, Imboden M, Koch B, McArdle WL, Smith AV, Smolonska J, Sood A, Tang W, Wilk JB, Zhai G, Zhao JH, Aschard H, Burkart KM, Curjuric I, Eijgelsheim M, Elliott P, Gu X, Harris TB, Janson C, Homuth G, Hysi PG, Liu JZ, Loehr LR, Lohman K, Loos RJ, Manning AK, Marcianti KD, Obeidat M, Postma DS, **Aldrich MC**, Brusselle GG, Chen TH, Eiriksdottir G, Franceschini N, Heinrich J, Rotter JI, Wijmenga C, Williams OD, Bentley AR, Hofman A, Laurie CC, Lumley T, Morrison AC, Joubert BR, Rivadeneira F, Couper DJ, Kritchevsky SB, Liu Y, Wjst M, Wain LV, Vonk JM, Uitterlinden AG, Rochat T, Rich SS, Psaty BM, O'Connor GT, North KE, Mirel DB, Meibohm B, Launer LJ, Khaw KT, Hartikainen AL, Hammond CJ, Gläser S, Marchini J, Kraft P, Wareham NJ, Völzke H, Stricker BH, Spector TD, Probst-Hensch NM, Jarvis D, Jarvelin MR, Heckbert SR, Gudnason V, Boezen HM, Barr RG, Cassano PA, Strachan DP, Fornage M, Hall IP, Dupuis J, Tobin MD, London SJ. (2012) Genome-Wide Joint Meta-Analysis of SNP and SNP-by-Smoking Interaction Identifies Novel Loci for Pulmonary Function. *PLoS Genetics.* Dec;8(12). Epub 2012 Dec 20. PMID: 23284291
 30. Kodaman N[‡], **Aldrich MC**, Smith J, Signorello LB, Bradley K, Breyer J, Cohen SS, Long J, Cai Q, Giles JT, Bush W, Blot WJ, Matthews CE, Williams S. (2013) A small number of candidate gene SNPs reveal continental ancestry in African Americans. *Annals of Human Genetics.* Jan 77(1): 56-66. PMCID: PMC3677760 ‡mentored student
 31. Monda KL, Chen GK, Taylor KC, Palmer C, Edwards TL, Lange LA, Ng MCY, Adeyemo AA, Allison MA, Bielak LF, Chen G, Graff M, Irvin MR, Rhie SK, Li G, Liu Y, Liu Y, Lu Y, Nalls MA, Sun YV, Wojczynski MK, Yanek LR, **Aldrich MC**, Ademola A, Amos CI, Bandera EV, Bock CH, Britton A, Broeckel U, Cai Q, Caporaso N, Carlson C, Carpten J, Casey G, Chen W, Chen F, Chen YI, Chiang CWK, Coetzee G, Demerath E, Deming-Halverson SL, Driver RW, Dubbert D, Feitosa MF, Freedman BI, Gillanders EM, Gottesman O, Guo X, Haritunians T, Harris T, Harris CC, Hennis AJ, Hernandez DG, McNeill LH, Howard TD, Howard BV, Howard VJ, Johnson KC, Kang SJ, Keating BJ, Kolb S, Kuller SH, Kutlar A, Langefeld CD, Lettre G, Lohman K, Lotay V, Lyon H, Manson JE, Maixner W, Meng YA, Monroe KR, Morhason-Bello I, Murphy AB, Mychaleckyj JC, Nadukuru R, Nathanson KL, Nayak U, N'Diaye A, Nemesure B, Wu SY, Leske MC, Neslund-Dudas C, Neuhouser M, Nyante S, Ochs-Balcom H, Ogunniyi A, Ogundiran TO, Ojengbede O, Olopade OI, PalmerJR, Ruiz-Narvaez EA, Palmer ND, Press MF, Rampersaud E, Rasmussen-Torvik LJ, Rodriguez-Gil JL, Salako B, Schadt EE, Schwartz AG, Shriner DA, Siscovick D, Smith SB, Wassertheil-Smoller S, Speliotes EK, Spitz MR, Sucheston L,

- Taylor H, Tayo BO, Tucker MA, Van Den Berg DJ, Edwards DR, Wang Z, Wiencke JK, Winkler TW, Witte JS, Wrensch M, Wu X, Yang JJ, Levin AM, Young TR, Zakai NA, Cushman M, Zanetti KA, Zhao JH, Zhao W, Zheng Y, Zhou J, Ziegler RG, Zmuda JM, Fernandes JK, Gilkeson GS, Kamen DL, Hunt KJ, Spruill IJ, Ambrosone CB, Ambs S, Arnett DK, Atwood L, Becker DM, Berndt SI, Bernstein L, Blot WJ, Borecki I, Bottinger EP, Bowden DW, Burke G, Chanock SJ, Cooper RS, Ding J, Duggan D, Evans MK, Fox C, Garvey WT, Bradfield JP, Hakonarson H, Grant SF, Hsing A, Chu L, Hu JJ, Huo D, Ingles SA, John EM, Jordan JM, Kabagambe EK, Kardia SL, Kittles RA, Goodman PJ, Klein EA, Kolonel LN, Le Marchand L, Liu S, McKnight B, Millikan RC, Mosley TH, Padhukasahasram B, Williams LK, Patel SR, Peters U, Pettaway CA, Peysner PA, Psaty PM, Redline S, Rotimi CN, Rybicki BA, Sale MM, Schreiner PJ, Signorello LB, Singleton AB, Stanford JL, Strom SS, Thun MJ, Vitolins M, Zheng W, Moore JH, Williams SM, Ketkar S, Zhu X, Zonderman AB, NABEC Consortium, UKBEC Consortium, BioBank Japan Project, AGEN Consortium, Kooperberg C, Papanicolaou GJ, Henderson BE, Reiner AP, Hirschhorn JN, Loos RJ, North KE, Haiman CA. (2013) A meta-analysis identifies new loci associated with body mass index in individuals of African ancestry. *Nature Genetics*. 2013 Jun;45(6):690-6 PMID: 23583978
32. Hiatt RA, Sulsky S, **Aldrich MC**, Kreiger N, Rothenberg R. Promoting innovation and creativity in epidemiology for the 21st century. (2013) *Annals of Epidemiology*. 23(7): 452-454. PMID: 23790350
33. **Aldrich MC**, Selvin S, Wrensch MR, Sison JD, Hansen HM, Quesenberry CP, Seldin MF, Barcellos LF, Buffler Pa, Wiencke JK. (2013) Socioeconomic Status and Lung Cancer: Unraveling the Contribution of Genetic Admixture. *American Journal of Public Health*. Oct;103(10):e73-80. PMID: 23948011
34. Metayer C, Zhang L, Wiemels J, Bartley K, Schiffman J, Ma X, **Aldrich M**, Chang J, Selvin S, Fu C, Ducore J, Smith M, and Buffler P. (2013) Tobacco Smoke Exposure and the Risk of Childhood Acute Lymphoblastic and Myeloid Leukemias by Cytogenetic Subtype. *Cancer Epidemiology, Biomarkers & Prevention*. Sep;22(9):1600-11. PMID:23853208
35. **Aldrich MC**, Grogan EL, Munro HM, Signorello LB, Blot WJ. (2013) Stage-adjusted Lung Cancer Survival Does Not Differ Between Low-Income Blacks and Whites. *Journal of Thoracic Oncology*. 8:1248-1254. PMID: 24457235
- This article was selected as a highlight by the International Association for Study of Lung Cancer (IASLC)
36. Grogan EL, Deppen S, Ballman K, Andrade GM, Verdail FC, **Aldrich MC**, Chen H, Decker PA, Harpole D, Cerfolio R, Keenan R, Jones DR, D'Amico TA, Shrager JB, Meyers BF, Putnam JB (2014). Accuracy of FDG-PET within the clinical practice of the ACOSOG Z4031 trial to diagnose clinical stage I NSCLC. *Annals of Thoracic Surgery*. Apr;97(4):1142-8. PMID:24576597
37. Deppen SA, Grogan EL, **Aldrich MC**, Massion PP. (2014) Lung cancer screening and smoking cessation: A teachable moment? *Journal of the National Cancer Institute*, May 28;106(6):dju122. PMID: 24872542
38. Tang W *, Kowgier M *, Loth DW *, Soler Artigas M *, Joubert BR *, Hodge E *, Gharib SA *, Smith AV, Ruczinski I, Gudnason V, Mathias RA, Harris TB, Hansel NN, Launer LJ,

- Barnes KC, Hansen JG, Albrecht E, **Aldrich MC**, Allerhand M, Barr RG, Brusselle GG, Couper DJ, Curjuric I, Davies G, Deary IJ, Dupuis J, Fall T, Foy M, Franceschini N, Gao W, Gläser S, Gu X, Hancock DB, Heinrich J, Hofman A, Imboden M, Ingelsson E, James A, Karrasch S, Koch B, Kritchevsky SB, Kumar A, Lahousse L, Li G, Lind L, Lindgren C, Liu Y, Lohman K, Lumley T, McArdle WL, Meibohm B, Morris AP, Morrison AC, Musk B, North KE, Palmer LJ, Probst-Hensch NM, Psaty BM, Rivadeneira F, Rotter JI, Schulz H, Smith LJ, Sood A, Starr JM, Strachan DP, Teumer A, Uitterlinden AG, Völzke H, Voorman A, Wain LV, Wells MT, Wilk JB, Williams OD, Heckbert SR, Stricker BH, London SJ, Fornage M **, Tobin MD **, O'Connor GT **, Hall IP **, Cassano PA ** (2014). Large-scale Genome-Wide Association Studies and Meta-analyses of Longitudinal Change in Adult Lung Function. *These authors contributed equally to this work. **These authors jointly directed the work. *PLoS One*, Jul 1;9(7):e100776. PMID: 24983941
39. Deppen S, Davis T, Green E, Rickman O, **Aldrich MC**, Putnam JB, Grogan EL. (2014) Cost-Effectiveness of Initial Diagnostic Strategies for Solitary Pulmonary Nodules Presenting to Thoracic Surgeons. *Annals of Thoracic Surgery*. Oct;98(4):1214-22. PMID: 25087933
40. Deppen SA, Blume J, **Aldrich MC**, Fletcher SA, Massion PP, Walker R, Chen H, Speroff T, Necessary CA, Pinkerman R, Lambright ES, Nesbitt JC, Putnam JB, and Grogan EL. (2014) Predicting lung cancer prior to surgical resection in patients with lung nodules. *Journal of Thoracic Oncology*. Oct;9(10):1477-84. PMID: 25170644.
41. St. Julien JS[‡], Lang R, Brown TN, **Aldrich MC**, Deppen SA, Wu H, Feurer ID, Tarpley M, Hill G, Tarpley J, Beauchamp RD, Grogan EL. (2014) Minority underrepresentation in academia: Factors impacting careers of surgery residents. *Journal of Racial and Ethnic Health Disparities*. Dec 1;1(4):238-246. PMID: 25396113 [‡]mentored student
42. Wang Z, Zhu B, Zhang M, Parikh H, Jia J, Chung CC, Sampson JN, Hoskins JW, Hutchinson A, Burdette L, Ibrahim A, Hautman C, Raj PS, Abnet CC, Adjei AA, Ahlbom A, Albanes D, Allen NE, Ambrosone CB, **Aldrich M**, [192 co-authors], Amundadottir LT. (2014) Imputation and subset based association analysis across different cancer types identifies multiple independent risk loci in the TERT-CLPTM1L region on chromosome 5p15.33. *Human Molecular Genetics*. Dec 15;23(24):6616-33. PMID: 25027329
43. Bhatia G, Tandon A, Patterson N, **Aldrich MC**, Ambrosone CB, Amos C, Bandera EV, Berndt SI, Bernstein L, Blot WJ, Bock CH, Caporaso N, Casey G, Deming SL, Diver WR, Gapstur SM, Gillanders EM, Harris CC, Henderson BE, Ingles SA, Isaacs W, De Jager PL, John EM, Kittles RA, Larkin E, McNeill LH, Millikan RC, Murphy A, Neslund-Dudas C, Nyante S, Press MF, Rodriguez-Gil JL, Rybicki BA, Schwartz AG, Signorello LB, Spitz M, Strom SS, Tucker MA, Wiencke JK, Witte JS, Wu X, Yamamura Y, Zanetti KA, Zheng W, Ziegler RG, Chanock SJ, Haiman CA, Reich D, Price AL. (2014) Genome-wide Scan of 29,141 African Americans Finds No Evidence of Directional Selection since Admixture. *Am J Hum Genet*. Oct 2;95(4):437-44. PMID: 25242497
44. Deppen SA, Blume JD, Kensinger CD, Morgan AM, **Aldrich MC**, Massion PP, Walker RC, McPheeters ML, Putnam JB, Grogan EL. (2014) Accuracy of FDG-PET to diagnose lung cancer in areas with infectious lung disease: A meta-analysis. *JAMA*. Sep 24;312(12):1227-36. PMID: 25247519

45. Xu H*, **Aldrich MC***, Chen Q, Liu H, Peterson NB, Dai Q, Levy M, Shah A, Han X, Ruan X, Jiang M, Li Y, St. Julien J, Warner J, Friedman C, Roden DM, Denny JC. (2015) Validating drug repurposing signals using electronic health records: a case study of metformin reducing cancer mortality. *Journal of the American Medical Informatics Association*. 2015 Jan;22(1):179-91. PMID: 25053577 *These authors contributed equally to this work.
- Featured as an outstanding paper at the *Translational Bioinformatics Conference* 2015 Year in Review talk by Dr. Russ Altman
46. Wassenaar CA, Ye Y, Cai Q, **Aldrich MC**, Knight J, Spitz MR, Wu X, Blot WJ, Tyndale RF. (2014) CYP2A6 Reduced Activity Gene Variants Confer Reduction in Lung Cancer Risk in African American Smokers – Findings from Two Independent Populations. *Carcinogenesis*. 2015 Jan;36(1):99-103 PMID: 25416559
47. **Aldrich MC**, Munro HM, Mumma M, Grogan EL, Massion PP, Blackwell TS, Blot WJ. (2015) Chronic Obstructive Pulmonary Disease and Subsequent Overall and Lung Cancer Mortality in Low-Income Adults. *PLoS ONE*. 2015 Mar 26;10(3) PMID: 25811837
48. **Aldrich MC**, Hidalgo B, Widome R, Briss P, Brownson RC, Teutsch SM (2015). The Role of Epidemiology in Evidence-based Policy Making: A Case Study of Tobacco Use in Youth. *Annals of Epidemiology*. May;25(5):360-5. PMID: 24875267
49. Machiela MJ, Zhou W, Sampson JN, Dean MC, Jacobs KB, Black A, Brinton LA, Chang IS, Chen C, Chen C, Chen K, Cook LS, Crous Bou M, De Vivo I, Doherty J, Friedenreich CM, Gaudet MM, Haiman CA, Hankinson SE, Hartge P, Henderson BE, Hong YC, Hosgood HD 3rd, Hsiung CA, Hu W, Hunter DJ, Jessop L, Kim HN, Kim YH, Kim YT, Klein R, Kraft P, Lan Q, Lin D, Liu J, Le Marchand L, Liang X, Lissowska J, Lu L, Magliocco AM, Matsuo K, Olson SH, Orlow I, Park JY, Pooler L, Prescott J, Rastogi R, Risch HA, Schumacher F, Seow A, Setiawan VW, Shen H, Sheng X, Shin MH, Shu XO, VanDen Berg D, Wang JC, Wentzensen N, Wong MP, Wu C, Wu T, Wu YL, Xia L, Yang HP, Yang PC, Zheng W, Zhou B, Abnet CC, Albanes D, **Aldrich MC**, Amos C, Amundadottir LT, Berndt SI, Blot WJ, Bock CH, Bracci PM, Burdett L, Buring JE, Butler MA, Carreón T, Chatterjee N, Chung CC, Cook MB, Cullen M, Davis FG, Ding T, Duell EJ, Epstein CG, Fan JH, Figueroa JD, Fraumeni JF Jr, Freedman ND, Fuchs CS, Gao YT, Gapstur SM, Patiño-García A, Garcia-Closas M, Gaziano JM, Giles GG, Gillanders EM, Giovannucci EL, Goldin L, Goldstein AM, Greene MH, Hallmans G, Harris CC, Henriksson R, Holly EA, Hoover RN, Hu N, Hutchinson A, Jenab M, Johansen C, Khaw KT, Koh WP, Kolonel LN, Kooperberg C, Krogh V, Kurtz RC, LaCroix A, Landgren A, Landi MT, Li D, Liao LM, Malats N, McGlynn KA, McNeill LH, McWilliams RR, Melin BS, Mirabello L, Peplonska B, Peters U, Petersen GM, Prokunina-Olsson L, Purdue M, Qiao YL, Rabe KG, Rajaraman P, Real FX, Riboli E, Rodríguez-Santiago B, Rothman N, Ruder AM, Savage SA, Schwartz AG, Schwartz KL, Sesso HD, Severi G, Silverman DT, Spitz MR, Stevens VL, Stolzenberg-Solomon R, Stram D, Tang ZZ, Taylor PR, Teras LR, Tobias GS, Viswanathan K, Wacholder S, Wang Z, Weinstein SJ, Wheeler W, White E, Wiencke JK, Wolpin BM, Wu X, Wunder JS, Yu K, Zanetti KA, Zeleniuch-Jacquotte A, Ziegler RG, de Andrade M, Barnes KC, Beaty TH, Bierut LJ, Desch KC, Doheny KF, Feenstra B, Ginsburg D, Heit JA, Kang JH, Laurie CA, Li JZ, Lowe WL, Marazita ML, Melbye M, Mirel DB, Murray JC, Nelson SC, Pasquale LR, Rice K, Wiggs JL, Wise A, Tucker M, Pérez-Jurado LA, Laurie CC,

- Caporaso NE, Yeager M, Chanock SJ. (2015) Characterization of large structural genetic mosaicism in human autosomes. *Am J Hum Genet.* Mar 5;96(3):487-97. PMID: 25748358
50. Sun J, Zhao M, Jia P, Wang L, Wu Y, Iverson C, Zhou Y, Denny J, **Aldrich MC**, Xu H, Zhao Z. (2015) Deciphering Signaling Pathway Networks to Understand Molecular Mechanism of Action of Metformin. *PLOS Computational Biology.* Jun 17;11(6). PMID: PMC4470683
51. Baharian S, Barakatt M, Gignoux CR, Shringarpure S, Errington J, Blot WJ, Bustamante CD, Kenny EE, Williams SW, **Aldrich MC**, Gravel S. (2016) The Great Migration and African-American Genomic Diversity. *PLOS Genetics.* May 27;12(5). PMID: 27232753
52. Zanetti KA, Wang Z, **Aldrich M**, Amos CI, Blot WJ, Bowman ED, Burdette L, Cai Q, Caporaso N, Chung CC, Gillanders EM, Haiman CA, Hansen HM, Henderson BE, Kolonel LN, Le Marchand L, Li S, McNeill LH, Ryan BM, Schwartz AG, Sison JD, Spitz MR, Tucker M, Wenzlaff AS, Wiencke JW, Wilkins L, Wrensch MR, Wu X, Zheng W, Zhou W, Christiani D, Palmer JR, Penning TM, Rieber AG, Rosenberg L, Ruiz-Narvaez EA, Su L, Vachani A, Wei Y, Whitehead AS, Chanock SJ, Harris CC. (2016) Genome-wide association study confirms lung cancer susceptibility loci on chromosomes 5p15 and 15q25 in an African American population. *Lung Cancer.* August 98: 33-42. PMID: 27393504
53. Machiela MJ, Zhou W, Karlins E, Sampson JN, Freedman ND, Yang Q, Hicks B, Dagnall C, Hautman C, Jacobs KB, Abnet CC, **Aldrich MC**, Amos C, Amundadottir LT, Arslan AA, Beane-Freeman LE, Berndt SI, Black A, Blot WJ, Bock CH, Bracci PM, Brinton LA, Bueno-de-Mesquita HB, Burdett L, Buring JE, Butler MA, Canzian F, Carreón T, Chaffee KG, Chang IS, Chatterjee N, Chen C, Chen C, Chen K, Chung CC, Cook LS, Crous Bou M, Cullen M, Davis FG, De Vivo I, Ding T, Doherty J, Duell EJ, Epstein CG, Fan JH, Figueroa JD, Fraumeni JF, Friedenreich CM, Fuchs CS, Gallinger S, Gao YT, Gapstur SM, Garcia-Closas M, Gaudet MM, Gaziano JM, Giles GG, Gillanders EM, Giovannucci EL, Goldin L, Goldstein AM, Haiman CA, Hallmans G, Hankinson SE, Harris CC, Henriksson R, Holly EA, Hong YC, Hoover RN, Hsiung CA, Hu N, Hu W, Hunter DJ, Hutchinson A, Jenab M, Johansen C, Khaw KT, Kim HN, Kim YH, Kim YT, Klein AP, Klein R, Koh WP, Kolonel LN, Kooperberg C, Kraft P, Krogh V, Kurtz RC, LaCroix A, Lan Q, Landi MT, Marchand LL, Li D, Liang X, Liao LM, Lin D, Liu J, Lissowska J, Lu L, Magliocco AM, Malats N, Matsuo K, McNeill LH, McWilliams RR, Melin BS, Mirabello L, Moore L, Olson SH, Orlow I, Park JY, Patiño-Garcia A, Peplonska B, Peters U, Petersen GM, Pooler L, Prescott J, Prokunina-Olsson L, Purdue MP, Qiao YL, Rajaraman P, Real FX, Riboli E, Risch HA, Rodriguez-Santiago B, Ruder AM, Savage SA, Schumacher F, Schwartz AG, Schwartz KL, Seow A, Wendy Setiawan V, Severi G, Shen H, Sheng X, Shin MH, Shu XO, Silverman DT, Spitz MR, Stevens VL, Stolzenberg-Solomon R, Stram D, Tang ZZ, Taylor PR, Teras LR, Tobias GS, Van Den Berg D, Visvanathan K, Wacholder S, Wang JC, Wang Z, Wentzensen N, Wheeler W, White E, Wiencke JK, Wolpin BM, Wong MP, Wu C, Wu T, Wu X, Wu YL, Wunder JS, Xia L, Yang HP, Yang PC, Yu K, Zanetti KA, Zeleniuch-Jacquotte A, Zheng W, Zhou B, Ziegler RG, Perez-Jurado LA, Caporaso NE, Rothman N, Tucker M, Dean MC, Yeager M, Chanock SJ. (2016) Female chromosome X mosaicism is age-related and preferentially affects the inactivated X chromosome. *Nature Communications.* Jun 13;7:11843. PMID: 27291797

54. Kodaman N[‡], **Aldrich MC**, Sobota R, Asselbergs FW, Brown NJ, Moore JH, Williams SM. Plasminogen Activator Inhibitor-1 and diagnosis of the metabolic syndrome in a West African population. (2016) *Journal of the American Heart Association*. Oct 3;5(10). PMID: 27697752 [‡]mentored student
55. Kodaman N[‡], **Aldrich MC**, Sobota R, Asselbergs FW, Poku KA, Brown NJ, Moore JH, Williams SM. Cardiovascular disease risk factors in Ghana during the rural-to-urban transition: a cross-sectional study. (2016) *PLoS ONE*. Oct 12; 11(10). PMID: 27732601 [‡]mentored student
56. Hollister BM[‡], Restrepo NA, Farber-Eger E, Crawford DC, **Aldrich MC**, Non A. (2017) Development and performance of text-mining algorithms to extract socioeconomic status from de-identified electronic health records. *Pac Symp Biocomputing*. 22: 230-241. PMCID: PMC5147499. [‡]mentored student
57. Wiley LK[‡], Vanhouten JP, Samuels DC, **Aldrich MC**, Roden DM, Peterson JF, Denny JC. (2016) Strategies for equitable pharmacogenomics-guided warfarin dosing among European and African American individuals in a clinical population. *Pac Symp Biocomputing*. 22:545-556. PMID: 27897005 [‡]mentored student
58. Ciesielski TH[‡], **Aldrich MC**, Marsit CJ, Hiatt RA, Williams SM. Transdisciplinary approaches enhance the production of translational knowledge. (2017) *Transl Res*. Apr;182:123-134. PMID 27893987 [‡]mentored student
59. Kodaman N[‡], Sobota RS, Asselbergs FW, Oetjens MT, Moore JH, Brown NJ, **Aldrich MC**, Williams SM. (2017) Genetic Effects on the Correlation Structure of CVD Risk Factors: Exome-Wide Data from a Ghanaian Population. *Glob Heart*. Jun;12(2):133-140. PMID: 28408189 [‡]mentored student
60. Giri A, Hartmann KE, **Aldrich MC**, Ward RM, Wu JM, Park AJ, Graff M, Qi L, Nassir R, Wallace RB, O'Sullivan MJ, North KE, Velez Edwards DR, Edwards TL. (2017) Admixture mapping of pelvic organ prolapse in African Americans from the Women's Health Initiative Hormone Therapy trial. *PLoS ONE*. Jun 5;12(6) PMID: 28582460
61. Carreras-Torres R, Johansson M, Haycock PC, Wade KH, Relton CL, Martin RM, Davey Smith G, Albanes D, **Aldrich MC**, Andrew A, Arnold SM, Bickeböller H, Bojesen SE, Brunnström H, Manjer J, Brüske I, Caporaso NE, Chen C, Christiani DC, Christian WJ, Doherty JA, Duell EJ, Field JK, Davies MPA, Marcus MW, Goodman GE, Grankvist K, Haugen A, Hong YC, Kiemeny LA, van der Heijden EHF, Kraft P, Johansson MB, Lam S, Landi MT, Lazarus P, Le Marchand L, Liu G, Melander O, Park SL, Rennert G, Risch A, Haura EB, Scelo G, Zaridze D, Mukeriya A, Savić M, Lissowska J, Swiatkowska B, Janout V, Holcatova I, Mates D, Schabath MB, Shen H, Tardon A, Teare MD, Woll P, Tsao MS, Wu X, Yuan JM, Hung RJ, Amos CI, McKay J, Brennan P. (2017) Obesity, metabolic factors and risk of different histological types of lung cancer: A Mendelian randomization study. *PLoS ONE*. Jun 8;12(6) PMID: 28594918
62. Jones CC[‡], Bush WS, Crawford DC, Wenzlaff A, Schwartz A, Wiencke JK, Wrensch MR, Blot WJ, Chanock SJ, Grogan EL, **Aldrich MC**. (2017) Germline genetic variants and lung cancer survival in African Americans. *Cancer Epidemiology Biomarkers & Prevention*. 26(8):1288-1295. PMID: 28619829 [‡]mentored student

63. McKay JD, Hung RJ, Han Y, Zong X, Carreras-Torres R, Christiani DC, Caporaso NE, Johansson M, Xiao X, Li Y, Byun J, Dunning A, Pooley KA, Qian DC, Ji X, Liu G, Timofeeva MN, Bojesen SE, Wu X, Le Marchand L, Albanes D, Bickeböllner H, **Aldrich MC**, Bush WS, Tardon A, Rennert G, Teare MD, Field JK, Kiemeny LA, Lazarus P, Haugen A, Lam S, Schabath MB, Andrew AS, Shen H, Hong YC, Yuan JM, Bertazzi PA, Pesatori AC, Ye Y, Diao N, Su L, Zhang R, Brhane Y, Leighl N, Johansen JS, Møller H, Saliba W, Haiman CA, Wilkens LR, Fernandez-Somoano A, Fernandez-Tardon G, van der Heijden HFM, Kim JH, Dai J, Hu Z, Davies MPA, Marcus MW, Brunnström H, Manjer J, Melander O, Muller DC, Overvad K, Trichopoulou A, Tumino R, Doherty JA, Barnett MP, Chen C, Goodman GE, Cox A, Taylor F, Woll P, Brüske I, Wichmann HE, Manz J, Muley TR, Risch A, Rosenberger A, Grankvist K, Johansson M, Shepherd FA, Tsao MS, Arnold SM, Haura EB, Bolca C, Holcatova I, Janout V, Kontic M, Lissowska J, Mukeria A, Ognjanovic S, Orłowski TM, Scelo G, Swiatkowska B, Zaridze D, Bakke P, Skaug V, Zienolddiny S, Duell EJ, Butler LM, Koh WP, Gao YT, Houlston RS, McLaughlin J, Stevens VL, Joubert P, Lamontagne M, Nickle DC, Obeidat M, Timens W, Zhu B, Song L, Kachuri L, Artigas MS, Tobin MD, Wain LV; Spirometa Consortium, Rafnar T, Thorgeirsson TE, Reginsson GW, Stefansson K, Hancock DB, Bierut LJ, Spitz MR, Gaddis NC, Lutz SM, Gu F, Johnson EO, Kamal A, Pikielny C, Zhu D, Lindström S, Jiang X, Tyndale RF, Chenevix-Trench G, Beesley J, Bossé Y, Chanock S, Brennan P, Landi MT, Amos CI. Large-scale association analysis identifies new lung cancer susceptibility loci and heterogeneity in genetic susceptibility across histological subtypes. (2017) *Nat Genet* Jul;49(7):1126-1132. PMID: 28604730.
64. Sausville LN[‡], Jones CC, **Aldrich MC**, Blot WJ, Pozzi A, Williams SM. (2017) Non-small cell lung cancer (NSCLC) survival associates with genetic variation in the eicosanoid pathway. *PLoS ONE*. Jul 13;12(7):e0180471. PMID: 28704416 [‡]mentored student
65. Conti DV, Wang K, Sheng X, Bensen JT, Hazelett DJ, Cook MB, Ingles SA, Kittles RA, Strom SS, Rybicki BA, Nemesure B, Isaacs WB, Stanford JL, Zheng W, Sanderson M, John EM, Park JY, Xu J, Stevens VL, Berndt SI, Huff CD, Wang Z, Yeboah ED, Tettey Y, Biritwum RB, Adjei AA, Tay E, Truelove A, Niwa S, Sellers TA, Yamoah K, Murphy AB, Crawford DC, Gapstur SM, Bush WS, **Aldrich MC**, Cussenot O, Petrovics G, Cullen J, Neslund-Dudas C, Stern MC, Jarai ZK, Govindasami K, Chokkalingam AP, Hsing AW, Goodman PJ, Hoffmann T, Drake BF, Hu JJ, Clark PE, Van Den Eeden SK, Blanchet P, Fowke JH, Casey G, Hennis AJM, Han Y, Lubwama A, Thompson IM Jr, Leach R, Easton DF, Schumacher F, Van den Berg DJ, Gundell SM, Stram A, Wan P, Xia L, Pooler LC, Mohler JL, Fontham ETH, Smith GJ, Taylor JA, Srivastava S, Eeles RA, Carpten J, Kibel AS, Multigner L, Parent ME, Menegaux F, Cancel-Tassin G, Klein EA, Brureau L, Stram DO, Watya S, Chanock SJ, Witte JS, Blot WJ, Henderson BE, Haiman CA; PRACTICAL/ELLIPSE Consortium. Two Novel Susceptibility Loci for Prostate Cancer in Men of African Ancestry. *J Natl Cancer Inst*. 2017 Aug 1;109(8). PMID: 29117387
66. Wang T, Moon JY, Wu Y, Amos CI, Hung RJ, Tardon A, Andrew A, Chen C, Christiani DC, Albanes D, Heijden EHF, Duell E, Rennert G, Goodman G, Liu G, McKay JD, Yuan JM, Field JK, Manjer J, Grankvist K, Kiemeny LA, Marchand LL, Teare MD, Schabath MB, Johansson M, **Aldrich MC**, Davies M, Johansson M, Tsao MS, Caporaso N, Lazarus P, Lam S, Bojesen SE, Arnold S, Wu X, Zong X, Hong YC, Ho GYF. (2017) Pleiotropy of genetic variants on obesity and smoking phenotypes: Results from the Oncoarray Project of

The International Lung Cancer Consortium. *PLoS ONE*. Sept 28; 12(9):e0185660. PMID: 28957450

67. Li Y, Xiao X, Han Y, Gorlova O, Qian D, Leighl N, Johansen JS, Barnett M, Chen C, Goodman G, Cox A, Taylor F, Woll P, Wichmann HE, Manz J, Muley T, Risch A, Rosenberger A, Arnold SM, Haura EB, Bolca C, Holcatova I, Janout V, Kontic M, Lissowska J, Mukeria A, Ognjanovic S, Orłowski TM, Scelo G, Swiatkowska B, Zaridze D, Bakke P, Skaug V, Zienolddiny S, Duell EJ, Butler LM, Houlston R, Artigas MS, Grankvist K, Johansson M, Shepherd FA, Marcus MW, Brunnström H, Manjer J, Melander O, Muller DC, Overvad K, Trichopoulou A, Tumino R, Liu G, Bojesen SE, Wu X, Le Marchand L, Albanes D, Bickeböllner H, **Aldrich MC**, Bush WS, Tardon A, Rennert G, Teare MD, Field JK, Kiemeny LA, Lazarus P, Haugen A, Lam S, Schabath MB, Andrew AS, Bertazzi PA, Pesatori AC, Christiani DC, Caporaso N, Johansson M, McKay JD, Brennan P, Hung RJ, Amos CI. (2017) Genome-wide interaction study of smoking behavior and non-small cell lung cancer risk in Caucasian population. *Carcinogenesis*. Mar 8;39(3):336-346. PMID: 29059373
68. Schildcrout JS, Schisterman EF, **Aldrich MC**, Rathouz PJ. (2018) Outcome-related, auxiliary variable sampling designs for longitudinal binary data. *Epidemiology*. Jan;29(1):58-66. PMID: 29068841
69. Ji X, Niu X, Qian J, Martucci V, Pendergrass SP, Gorlov IP, Amos CI, Denny JC, Massion PP, **Aldrich MC**. (2018) PheWAS uncovers a role for autoimmunity in the development of COPD. *American Journal of Respiratory Cell and Molecular Biology*. June; 58(6) 777-779. PMID: 29856256
70. O'Brien TD, Jia P, **Aldrich MC**, Zhao Z. Lung Cancer: One Disease or Many. (2018) *Human Heredity*. 83(2):65-70. PMID: 29864749
71. Jones CC, Fletcher S, Blume J, Wenzlaff A, Chen H, Deppen SA, Bush WS, Crawford DC, Schwartz A, Blot WJ, Grogan EL, **Aldrich MC**. (2018) Racial disparities in lung cancer survival: The contribution of stage, treatment, and ancestry. *Journal of Thoracic Oncology*. Oct. 13(10):1464-1473. PMID: 29885480
72. Rosenberger A, Hung RJ, Christiani DC, Caporaso NE, Liu G, Bojesen SE, Le Marchand L, Haiman CA, Albanes D, **Aldrich MC**, Tardon A, Fernández-Tardón G, Rennert G, Field JK, Kiemeny B, Lazarus P, Haugen A, Zienolddiny S, Lam S, Schabath MB, Andrew AS, Brunnsstöm H, Goodman GE, Doherty JA, Chen C, Teare MD, Wichmann HE, Manz J, Risch A, Muley TR, Johansson M, Brennan P, Landi MT, Amos CI, Pesch B, Johnen G, Brüning T, Bickeböllner H, Gomolka M. (2018) Genetic modifiers of radon-induced lung cancer risk: a genome-wide interaction study in former uranium miners. *Int Arch Occup Environ Health*. Nov;91(8):937-950. PMID: 29971594
73. Kachuri L, Saarela O, Bojesen SE, Davey Smith G, Liu G, Landi MT, Caporaso NE, Christiani DC, Johansson M, Panico S, Overvad K, Trichopoulou A, Vineis P, Scelo G, Zaridze D, Wu X, Albanes D, Diergaarde B, Lagiou P, Macfarlane GJ, **Aldrich MC**, Tardón A, Rennert G, Olshan AF, Weissler MC, Chen C, Goodman GE, Doherty JA, Ness AR, Bickeböllner H, Wichmann HE, Risch A, Field JK, Teare MD, Kiemeny LA, van der Heijden EHF, Carroll JC, Haugen A, Zienolddiny S, Skaug V, Wünsch-Filho V, Tajara EH, Ayoub Moysés R, Daumas Nunes F, Lam S, Eluf-Neto J, Lacko M, Peters WHM, Le Marchand L,

- Duell EJ, Andrew AS, Franceschi S, Schabath MB, Manjer J, Arnold S, Lazarus P, Mukeriya A, Swiatkowska B, Janout V, Holcatova I, Stojisic J, Mates D, Lissowska J, Boccia S, Lesseur C, Zong X, McKay JD, Brennan P, Amos CI, Hung RJ. (2018) Mendelian Randomization and mediation analysis of leukocyte telomere length and risk of lung and head and neck cancers. *Int J Epidemiol*. Jul 28. doi: 10.1093/ije/dyy140. PMID:30059977
74. Ji X, Bossé Y, Landi MT, Gui J, Xiao X, Qian D, Joubert P, Lamontagne M, Li Y, Gorlov I, de Biasi M, Han Y, Gorlova O, Hung RJ, Wu X, McKay J, Zong X, Carreras-Torres R, Christiani DC, Caporaso N, Johansson M, Liu G, Bojesen SE, Le Marchand L, Albanes D, Bickeböllner H, **Aldrich MC**, Bush WS, Tardon A, Rennert G, Chen C, Teare MD, Field JK, Kiemeny LA, Lazarus P, Haugen A, Lam S, Schabath MB, Andrew AS, Shen H, Hong YC, Yuan JM, Bertazzi PA, Pesatori AC, Ye Y, Diao N, Su L, Zhang R, Brhane Y, Leighl N, Johansen JS, Mellempgaard A, Saliba W, Haiman C, Wilkens L, Fernandez-Somoano A, Fernandez-Tardon G, van der Heijden EHF, Kim JH, Dai J, Hu Z, Davies MPA, Marcus MW, Brunnström H, Manjer J, Melander O, Muller DC, Overvad K, Trichopoulou A, Tumino R, Doherty J, Goodman GE, Cox A, Taylor F, Woll P, Brüske I, Manz J, Muley T, Risch A, Rosenberger A, Grankvist K, Johansson M, Shepherd F, Tsao MS, Arnold SM, Haura EB, Bolca C, Holcatova I, Janout V, Kontic M, Lissowska J, Mukeria A, Ognjanovic S, Orłowski TM, Scelo G, Swiatkowska B, Zaridze D, Bakke P, Skaug V, Zienolddiny S, Duell EJ, Butler LM, Koh WP, Gao YT, Houlston R, McLaughlin J, Stevens V, Nickle DC, Obeidat M, Timens W, Zhu B, Song L, Artigas MS, Tobin MD, Wain LV, Gu F, Byun J, Kamal A, Zhu D, Tyndale RF, Wei WQ, Chanock S, Brennan P, Amos CI. (2018) Identification of susceptibility pathways for the role of chromosome 15q25.1 in modifying lung cancer risk. *Nature Communications*. Aug 13;9(1):3221. PMID: 30104567
75. Maiga AW, Deppen SA, Scaffidi BK, Baddley J, **Aldrich MC**, Dittus RS, Grogan EL. (2018) Mapping Histoplasma capsulatum exposure, United States. *Emerging Infectious Diseases*. Oct; 24(10): 1835–1839. PMID: 30226187
76. Ferreiro-Iglesias A, Lesseur C, McKay J, Hung R, Han Y, Zong X, Christiani D, Johansson M, Xiao X, Li Y, Qian D, Ji X, Liu G, Caporaso N, Scelo G, Zaridze D, Mukeria A, Kontic M, Ognjanovic S, Lissowska J, Szołkowska M, Swiatkowska B, Janout V, Holcatova I, Bolca C, Savic M, Ognjanovic M, Bojesen S, Wu X, Albanes D, **Aldrich M**, Tardon A, Fernandez-Somoano A, Fernandez-Tardon G, Le Marchand L, Rennert G, Chen C, Doherty J, Goodman G, Bickeböllner H, Wichmann H-E, Risch A, Rosenberger A, Shen H, Dai J, Field J, Davies M, Woll P, Teare MD, Kiemeny L, van der Heijden E, Yuan J-M, Hong Y-C, Haugen A, Zienolddiny S, Lam S, Tsao M-S, Johansson M, Grankvist K, Schabath M, Andrew A, Duell E, Melander O, Brunnstrom H, Lazarus P, Arnold S, Slone S, Byun J, Kamal A, Zhu D, Landi M, Amos C, and Brennan P. (2018) Fine-mapping of the MHC region identifies different independent variants influencing susceptibility to lung cancer in Europeans and Asians. *Nature Communications*. 9(1):3927. PMID: 30254314
77. Sanderson M, **Aldrich MC**, Levine RS, Kilbourne B, Cai Q, Blot WJ. (2018) Neighborhood deprivation and lung cancer risk: a nested case-control study in the USA. *BMJ Open*. 2018;8:e021059. PMID: 30206077
78. Dai J, Li Z, Amos CI, Hung RJ, Tardon A, Andrew A, Chen C, Christiani DC, Albanes D, van der Heijden EHF, Duell E, Rennert G, James MD, Yuan JM, Field JK, Jonas M, Grankvist K, Le Marchand L, Teare MD, Schabath MB, **Aldrich MC**, Tsao MS, Lazarus P,

- Stephen L, Bojesen SE, Susanne A, Wu X, Haugen A, Vladimir J, Johansson M, Yonathan B, Fernandez-Somoano A, Kiemeny LA, Davies M, Zienolddiny S, Hu Z, Shen H. (2018) Systematic analyses of regulatory variants in DNase I hypersensitive sites identified two novel lung cancer susceptibility loci. *Carcinogenesis*. 40(3): p. 432-440. PMID: 30590402
79. Jiang X, Finucane HK, Schumacher FR, Schmit SL, Tyrer JP, Han Y, Michailidou K, Lesueur C, Kuchenbaecker KB, Dennis J, Conti DV, Casey G, Gaudet MM, Huyghe JR, Albanes D, **Aldrich MC**, [400+ authors] Kraft P, Lindström S. (2019) Shared heritability and functional enrichment across six solid cancers. *Nature Communications*. Jan 25;10(1):431. PMID: 30683880
80. Jones CC, Bradford Y, Amos CI, Blot WJ, Chanock SJ, Harris CC, Schwartz AG, Spitz MR, Wiencke JK, Wrensch MR, Wu X, **Aldrich MC**. (2019) Cross-cancer pleiotropic associations with lung cancer risk in African Americans. *Cancer Epidemiology, Biomarkers & Prevention*. Apr;28(4):715-723. PMID: 30894353
81. Hung, RJ, Spitz, MR, Houlston, RS, Schwartz, AG, Field, JK, Ying, J, et al. Lung Cancer Risk in Never Smokers of European Descent is Associated with Genetic Variation in the 5P15.33 TERT-CLPTM1L Region. *J Thorac Oncol*, 2019. [Epub ahead of print] PMID: 31009812
82. Li, Y, Xiao, X, Bosse, Y, Gorlova, O, Gorlov, I, Han, Y, et al. Genetic interaction analysis among oncogenesis-related genes revealed novel genes and networks in lung cancer development. *Oncotarget*, 2019. 10(19): p. 1760-1774. PMID: 30956756
83. Zhu Y, Wei Y, Zhang R, Dong X, Shen S, Zhao Y, Bai J, Albanes D, Caporaso NE, Landi MT, Zhu B, Chanock SJ, Gu F, Lam S, Tsao MS, Shepherd FA, Tardon A, Fernández-Somoano A, Fernandez-Tardon G, Chen C, Barnett MJ, Doherty J, Bojesen SE, Johansson M, Brennan P, McKay JD, Carreras-Torres R, Muley T, Risch A, Wichmann HE, Bickeboeller H, Rosenberger A, Rennert G, Saliba W, Arnold SM, Field JK, Davies MPA, Marcus MW, Wu X, Ye Y, Le Marchand L, Wilkens LR, Melander O, Manjer J, Brunnström H, Hung RJ, Liu G, Brhane Y, Kachuri L, Andrew AS, Duell EJ, Kiemeny LA, van der Heijden EHF, Haugen A, Zienolddiny S, Skaug V, Grankvist K, Johansson M, Woll PJ, Cox A, Taylor F, Teare DM, Lazarus P, Schabath MB, **Aldrich MC**, Houlston RS, McLaughlin J, Stevens VL, Shen H, Hu Z, Dai J, Amos CI, Han Y, Zhu D, Goodman GE, Chen F, Christiani DC. (2019) Elevated platelet count appears to be causally associated with increased risk of lung cancer: A Mendelian randomization analysis. *Cancer Epidemiology, Biomarkers & Prevention*. [Epub ahead of print] PMID: 30700444.
84. **Aldrich MC**, Cust AE, Raynes-Greenow C, on behalf of the International Network for Epidemiology in Policy. (2019) Gender Equity in Epidemiology: A Policy Brief. *Annals of Epidemiology*. 35: p.1-3. PMID: 31036443.
85. Hollister BM, Farber-Eger E, **Aldrich MC***, Crawford DC*. (2019) A social determinant of health may modify genetic associations for blood pressure: Evidence from a SNP by education interaction in an African American population. *Frontiers in Genetics*.10: p. 428. PMID: 31134134 *Shared corresponding author
86. Benn Torres J, Martucci V[‡], **Aldrich MC**, Vilar MG, MacKinney T, Tariq M, Gaieski JB, Hernandez RB, Browne ZE, Stevenson M, Walters W, Schurr TG, The Genographic Consortium. (2019) Analysis of biogeographic ancestry reveals complex genetic histories for

indigenous communities of St. Vincent and Trinidad. *Am J Phys Anthropol.* 169(3): p. 482-497 PMID: 31125126 ‡mentored student

87. **Aldrich MC**, Mercaldo SF, Sandler K, Blot WJ, Grogan EL, Blume JD. (2019) Evaluation of USPSTF Lung Cancer Screening Guidelines among African American Adult Smokers. *JAMA Oncology.* Jun 27;5(9):1318-24. PMID: 31246249
 - Numerous press releases highlighted this work, including Reuters, Bloomberg Law, Popular Science, MedPage Today, EurekaAlert, MedicalXpress, Drugs.com, Mail Online, Yahoo News, Channel NewsAsia, Physician's Weekly, Healio, AuntMinnie, 360Dx
88. Dai J, Huang M, Amos CI, Hung RJ, Tardon A, Andrew A, Chen C, Christiani DC, Albanes D, Rennert G, Fan J, Goodman G, Liu G, Field JK, Grankvist K, Kiemenev LA, Le Marchand L, Schabath MB, Johansson M, **Aldrich MC**, Johansson M, Caporaso N, Lazarus P, Lam S, Bojesen SE, Arnold S, Landi MT, Risch A, Wichmann HE, Bickeboller H, Brennan P, Shete S, Melander O, Brunnstrom H, Zienolddiny S, Woll P, Stevens V, Hu Z, Shen H. (2019) Genome-wide association study of INDELs identified four novel susceptibility loci associated with lung cancer risk. *Int J Cancer.* 146(10):2855-2864. PMID: 31577861
89. Bossé Y, Li Z, Xia J, Manem V, Carreras-Torres R, Gabriel A, Gaudreault N, Albanes D, **Aldrich MC**, Andrew A, Arnold S, Bickeboller H, Bojesen SE, Brennan P, Brunnstrom H, Caporaso N, Chen C, Christiani DC, Field JK, Goodman G, Grankvist K, Houlston R, Johansson M, Johansson M, Kiemenev LA, Lam S, Landi MT, Lazarus P, Le Marchand L, Liu G, Melander O, Rennert G, Risch A, Rosenberg SM, Schabath MB, Shete S, Song Z, Stevens VL, Tardon A, Wichmann HE, Woll P, Zienolddiny S, Obeidat M, Timens W, Hung RJ, Joubert P, Amos CI, McKay JD. (2019) Transcriptome-wide association study reveals candidate causal genes for lung cancer. *Int J Cancer.* Apr 1; 146(7):1862-1878. PMID: 31696517
90. **Aldrich MC**, Blot WJ, Blume JD. (2019) Defining equity in eligibility for cancer screening – Reply. *JAMA Oncology.* Nov 7. [Epub ahead of print] PMID: 31697339
91. Kachuri L, Johansson M, Rashkin SR, Graff RE, Bossé Y, Manem V, Caporaso NE, Landi MT, Christiani DC, Vineis P, Liu G, Scelo G, Zaridze D, Shete SS, Albanes D, **Aldrich MC**, Tardón A, Rennert G, Chen C, Goodman GE, Doherty JA, Bickeboller H, Field JK, Davies MP, Dawn Teare M, Kiemenev LA, Bojesen SE, Haugen A, Zienolddiny S, Lam S, Le Marchand L, Cheng I, Schabath MB, Duell EJ, Andrew AS, Manjer J, Lazarus P, Arnold S, McKay JD, Emami NC, Warkentin MT, Brhane Y, Obeidat M, Martin RM, Relton C, Davey Smith G, Haycock PC, Amos CI, Brennan P, Witte JS, Hung RJ. (2020) Immune-mediated genetic pathways resulting in pulmonary function impairment increase lung cancer susceptibility. *Nature Communications.* Jan 7; 11(1):27. PMID: 31911640
92. Haddad DN, Sandler KL, Henderson LM, Rivera MP, **Aldrich MC**. (2020) Disparities in Lung Cancer Screening: A Review. *Annals of the American Thoracic Society.* Apr; 17(4):399-405. PMID: 32017612
93. Ji X, Mukherjee S, Landi MT, Bossé Y, Joubert P, Zhu D, Gorlov I, Xiao X, Han Y, Gorlova O, Hung RJ, Brhane Y, Carreras-Torres R, Christiani DC, Caporaso N, Johansson M, Liu G, Bojesen SE, Le Marchand L, Albanes D, **Aldrich MC**, [...] Amos CI. (2020) Protein-

altering germline mutations implicate novel genes related to lung cancer development. *Nature Communications*. May 11;11(1):2220. PMID: 32393777

94. Wang Y, Gorlova OY, Gorlov IP, Zhu M, Dai J, Albanes D, Lam S, Tardon A, Chen C, Goodman GE, Bojesen SE, Landi MT, Johansson M, Risch A, Wichmann HE, Bickeboller H, Christiani DC, Rennert G, Arnold SM, Brennan P, Field JK, Shete S, Le Marchand L, Melander O, Brunnstrom H, Liu G, Hung RJ, Andrew AS, Kiemeny LA, Zienolddiny S, Grankvist K, Johansson M, Caporaso NE, Woll PJ, Lazarus P, Schabath MB, **Aldrich MC**, Stevens VL, Ma H, Jin G, Hu Z, Amos CI, Shen H. (2020) Association analysis of driver gene-related genetic variants identified novel lung cancer susceptibility loci with 20,871 lung cancer cases and 15,971 controls. *Cancer Epidemiol Biomarkers Prev*. Jul; 29(7):1423-1429. PMID: 32277007
95. Darst BF, Wan P, Sheng X, Bensen JT, Ingles SA, Rybicki BA, Nemesure B, John EM, Fowke JH, Stevens VL, Berndt SI, Huff CD, Strom SS, Park JY, Zheng W, Ostrander EA, Walsh PC, Srivastava S, Carpten J, Sellers TA, Yamoah K, Murphy AB, Sanderson M, Crawford DC, Gapstur SM, Bush WS, **Aldrich MC**, Cussenot O, Yeager M, Petrovics G, Cullen J, Neslund-Dudas C, Kittles RA, Xu J, Stern MC, Kote-Jarai Z, Govindasami K, Chokkalingam AP, Multigner L, Parent ME, Menegaux F, Cancel-Tassin G, Kibel AS, Klein EA, Goodman PJ, Drake BF, Hu JJ, Clark PE, Blanchet P, Casey G, Hennis AJM, Lubwama A, Thompson IM, Leach R, Gundell SM, Pooler L, Xia L, Mohler JL, Fontham ETH, Smith GJ, Taylor JA, Eeles RA, Brureau L, Chanock SJ, Watya S, Stanford JL, Mandal D, Isaacs WB, Cooney KC, Blot WJ, Conti DV, Haiman CA. (2020) A germline variant at 8q24 contributes to familial clustering of prostate cancer in men of African ancestry. *European Urology*. Sept;78(3):316-320. PMID: 32409115
96. Qin N, Li Y, Wang C, Zhu M, Dai J, Hong T, Albanes D, Lam S, Tardon A, Chen C, Goodman G, Bojesen SE, Landi MT, Johansson M, Risch A, Wichmann HE, Bickeboller H, Rennert G, Arnold S, Brennan P, Field JK, Shete S, Le Marchand L, Melander O, Brunnstrom H, Liu G, Hung RJ, Andrew A, Kiemeny LA, Zienolddiny S, Grankvist K, Johansson M, Caporaso N, Woll P, Lazarus P, Schabath MB, **Aldrich MC**, Stevens VL, Jin G, Christiani DC, Hu Z, Amos CI, Ma H, Shen H. (2020) *Front Med*. Sept 5. [Epub ahead of print] PMID: 32889700
97. Actkins KV, Singh K, Hucks D, Velez Edwards DR, **Aldrich M**, Cha J, Wellons M, Davis LK. (2020) Characterizing the clinical and genetic spectrum of polycystic ovary syndrome in electronic health records. *J Clin Endo Metab*. Sep 22. PMID: 32961557
98. Karunamuni RA, Huynh-Le MP, Fan CC, Thompson W, Eeles RA, Kote-Jarai Z, Muir K, UKGPCS Collaborators, Lophatananon A, Tangen CM, Goodman PJ, Thompson IM, Blot WJ, Zheng W, Kibel AS, Drake BF, Cussenot O, Cancel-Tassin G, Menegaux F, Truong T, Park JY, Lin HY, Bensen JT, Fontham ETH, Mohler JL, Taylor JA, Multigner L, Blanchet P, Brureau L, Romana M, Leach RJ, John EM, Fowke J, Bush WS, **Aldrich M**, Crawford DC, Srivastava S, Cullen JC, Petrovics G, Parent ME, Hu JJ, Sanderson M, Mills IG, Andreassen OA, Dale AM, Seibert TM, PRACTICAL Consortium. (2020) African-specific improvement of a polygenic hazard score for age at diagnosis of prostate cancer. *Int J Cancer*. Sep 15. PMID: 32930425
99. Sun R, Xu M, Li X, Gaynor S, Zhou H, Li Z, Bosse Y, Lam S, Tsao MS, Tardon A, Chen C, Doherty J, Goodman G, Bojesen SE, Landi MT, Johansson M, Field JK, Bickeboller H,

- Wichmann HE, Risch A, Rennert G, Arnold S, Wu X, Melander O, Brunnstrom H, Le Marchand L, Liu G, Andrew A, Duell E, Kiemeny LA, Shen H, Haugen A, Johansson M, Grankvist K, Caporaso N, Woll P, Dawn Teare M, Scelo G, Hong YC, Yuan JM, Lazarus P, Schabath MB, **Aldrich MC**, Albanes D, Mak R, Barbie D, Brennan P, Hung RJ, Amos CI, Christiani DC, Lin X. (2020) Integration of multiomic annotation data to prioritize and characterize inflammation and immune-related risk variants in squamous cell lung cancer. *Genet Epidemiol*. Sep 14. PMID: 32924180
100. Rivera MP, Katki HA, Tanner NT, Triplett M, Sakoda LC, Wiener RS, Cardarelli R, Carter-Harris L, Crothers K, Fathi JT, Ford ME, Smith R, Winn RA, Wisnivesky JP, Henderson LM, **Aldrich MC**. (2020) Addressing Disparities in Lung Cancer Screening Eligibility and Healthcare Access. An Official American Thoracic Society Statement. *Am J Respir Crit Care Med*. Oct 1;202(7):e95-e112. PMID: 33000953
101. Oremus M, Taylor-Wilson R, **Aldrich M**, Bell K, Gaudino J, Palevsky S, Payne J, Raynes-Greenow C, Sim F, Smith M, Weiss S, Zhang Y. (2020) The Role of Epidemiologists in SARA-CoV-2 and COVID-19 Research. *Public Health*. Oct 17.
102. Thomas P, Madubata C, **Aldrich M**, Lee M, Owonikoko T, Minna J, Rudin C, Sage J, Lovly C. (2020) A Call to Action: Dismantling Racial Injustices in Pre-Clinical Research and Clinical Care of Black Patients Living with Small Cell Lung Cancer. *Cancer Discovery*. Dec 14. [Epub ahead of print] PMID: 33318034
103. Rao S, Zhang H, Aldrich, Kobetz E, **Aldrich MC**, Conway D. (2020) Predicting DNA methylation from genetic data lacking racial diversity using shared classified random effects. *Genomics*. Nov 5. [Epub ahead of print] PMID: 33161089
104. Actkins KV, Singh K, Hucks D, Velez Edwards DR, **Aldrich M**, Cha J, Wellons M, Davis LK. (2021) Characterizing the clinical and genetic spectrum of polycystic ovary syndrome in electronic health records. *J Clin Endocrinol Metab*. Jan. 106 (1):153-167. PMID: 32961557
105. Conti DV, ... [+195 co-authors], **Aldrich MC**, Crawford DC, Srivastava S, Cullen JC, Petrovics G, Casey G, Roobol MJ, Jenster G, van Schaik RHN, Hu JJ, Sanderson M, Varma R, McKean-Cowdin R, Torres M, Mancuso N, Berndt SI, Van Den Eeden SK, Easton DF, Chanock SJ, Cook MB, Wiklund F, Nakagawa H, Witte JS, Eeles RA, Kote-Jarai Z, Haiman CA. (2021) Trans-ancestry genome-wide association meta-analysis of prostate cancer identifies new susceptibility loci and informs genetic risk prediction. *Nature Genetics*. Jan; 53(1):65-75. PMID: 33398198
106. Lakhani DA, Chen SC, Antic S, Muterspaugh A, Cook C, Liu N, Shujat H, Jouan S, Winston B, Fields K, Wenstrup J, Block SL, Hinton A, Miller A, Atmajoana S, Helton JT, Patel K, Balar AB, Brewer K, Nag S, Singh R, Disher A, Huerta L, Fremont R, Rickman O, Chen H, Eisenberg R, Sandler KL, Paulson A, Walker RC, Shah C, Smith GT, Landman B, Deppen S, Grogan EL, **Aldrich MC**, Massion PP. (2021) Establishing a cohort and a biorepository to identify biomarkers of early detection of lung cancer: The Nashville Lung Cancer Screening Cohort. *Ann Am Thoracic Society*. Jan 5 [Epub ahead of print] PMID: 33400907
107. Hung RJ, Warkentin MT, Brhane Y, Chatterjee N, Christiani DC, Landi MT, Caporaso NE, Liu G, Johansson M, Albanes D, Le Marchand L, Tardon A, Rennert G, Bojesen SE, Chen

- C, Field JK, Kiemeny LA, Lazarus P, Zienolddiny S, Lam S, Andrew AS, Arnold SM, **Aldrich MC**, Bickeböllner H, Risch A, Schabath MB, McKay JD, Brennan P, Amos CI. (2021) Assessing lung cancer absolute risk trajectory based on a polygenic risk model. *Cancer Research*. Jan 20 [Epub ahead of print] PMID: 33472890.
108. Zhou W, Liu G, Hung RJ, Haycock PC, **Aldrich MC**, Andrew AS, Arnold SM, Bickeböllner H, Bojesen SE, Brennan P, Brunnstrom H, Melander O, Caporaso NE, Landi MT, Chen C, Goodman GE, Christiani DC, Cox A, Field JK, Johansson M, Kiemeny LA, Lam S, Lazarus P, Le Marchand L, Rennert G, Risch A, Schabath MB, Shete SS, Tardon A, Zienolddiny S, Shen H, Amos CI. (2021) Causal relationships between body mass index, smoking and lung cancer: Univariable and multivariable Mendelian randomization. *Int J Cancer*. March 1; 148(5):1077-1086. PMID: 32914876
109. Martucci TL, Richmond B, Davis LK, Blackwell TS, Cox NJ, Samuels D, Velez Edwards D, **Aldrich MC**. (2021) Fate or coincidence: Do COPD and major depression share genetic risk factors? *Human Molecular Genetics*. Accepted.

Invited Scientific Oral Presentations:

- 2008 *Identifying Genetic Risk Factors for Lung Cancer: A New Approach*. National Latino Cancer Summit, San Francisco
- 2012 *Pulmonary Function and Genetic Ancestry*. Advances in the Management of Thoracic Diseases Symposium, Nashville
- 2014 *COPD and Lung Cancer Mortality in Low-Income Adults*. Vanderbilt-Ingram Cancer Center/Thoracic Program Retreat
- 2014 *Insights into the Genetics of Lung Cancer from Admixed Populations*. Vanderbilt-Ingram Cancer Center/Thoracic Program Seminar
- 2014 *Insights into the Genetics of Lung Cancer from Admixed Populations*. Meharry Medical College, Meharry/Vanderbilt Summer Research Program, Summer Program in Integrative Science and Cancer Research – State of the Art: Lung Cancer
- 2014 *Drug Repurposing and Personalized Medicine: Can Cancer Patients Benefit from Metformin Therapy*. Vanderbilt-Ingram Cancer Center, Thoracic Program
- 2014 *Rare and Common Variants Contribute to Lung Cancer Survival in African Americans*. Lung Cancer SPORE Workshop, National Cancer Institute
- 2014 *Tools for Organizing Your Mentor Panel: What is Your Research Program?* Newman Society, Vanderbilt University
- 2014 *Genetics of Lung Cancer Risk in African Americans*. Translational Research Forum, Vanderbilt University

- 2014 *Insights into Lung Cancer Survival in African Americans*. VICC Translational Research & Interventional Oncology Program Retreat, Vanderbilt University
- 2014 *Scientific Advantages of Studies in Racially Diverse Populations*. Vanderbilt Program in Molecular Medicine
- 2015 *Cancer Prognosis: Genetics or Environment?* Epidemiology Grand Rounds, Vanderbilt University Medical Center
- 2015 *Race in Lung Function Equations: Can we Improve Personalized Medicine for Lung Function?* American Association for Clinical Chemistry
- 2015 *Characterization of the microbiome in patients with benign lung nodules*. Vanderbilt Department of Medicine Mini-Research Retreat
- 2015 *Investigating Genetic Risk Factors for Lung Cancer in African Americans*. University of California Berkeley
- 2015 *Characterization of the microbiome in benign lung nodules and matched blood samples*. American Thoracic Society International Conference
- 2016 *Investigating Genetic Risk Factors for Lung Cancer in African Americans*. Case Western Reserve University, Epidemiology Biostatistics Seminar Series
- 2016 *Importance of Diversity in Genetics: Insights from Lung Cancer*. Dartmouth College
- 2017 *Importance of Diverse Populations for Advancing Precision Medicine for Lung Cancer*. Baylor College of Medicine
- 2017 *Importance of Diverse Populations for Advancing Precision Medicine*. Case Western Reserve University
- 2018 *Who gets screened for lung cancer? A simple adjustment to current guidelines to reduce racial disparities*. International Association for the Study of Lung Cancer, 19th World Conference on Lung Cancer, Toronto, Canada
- 2018 *Exploring population health disparities: What are the contributions of genetics, social inequalities, and behavior?* Interdisciplinary Association for Population Health Science Annual Meeting, Washington, DC
- 2018 *Mapping African Ancestry Among African Americans*. American Society of Human Genetics Annual Meeting, San Diego, CA
- 2019 *EHR Phenotyping for Chronic Obstructive Pulmonary Disease*. American Medical Informatics Association Informatics Summit, San Francisco, CA
*Mentored student Podium Presentation

- 2019 *The Impact of Race in Biomedical Research*. Department of Biomedical Informatics. Vanderbilt University Medical Center
- 2019 *The Impact of Race in Lung Biomedical Research*. Division of Allergy, Pulmonary, and Critical Care Medicine. Vanderbilt University Medical Center
- 2020 *The Impact of Race in Biomedical Research*. University of Tennessee Health Science Center. Memphis, TN
- 2020 *Equity in Health and Healthcare: Considerations of Race/Ethnicity in Precision Medicine*. Keystone Symposia Workshop. Beyond a Million Genomes: From Discovery to Precision Health, Breckenridge, CO
- 2020 *Racial and place-based differences in smoking population attributable risk for lung cancer*. American Society of Preventive Oncology [virtual]
- 2020 *Lung cancer screening: Will it widen disparities?* Health Equity Seminar Series, Vanderbilt University Medical Center
- 2021 *Exploring the reality of human genetic variation: Transdisciplinary approaches to race and ancestry in genetics*. Anti-Racism in Human Genetics Vanderbilt Genetics Institute Special Seminar Series