Curriculum Vitae

Last Updated: August 2023

PERSONAL DATA

Name: Mary C. Playdon
Citizenship: United States and Australia
ORCID: 0000-0001-6082-0447

EDUCATION

Years	Degree	Institution (Area of Study)
2000 - 2003	B.Sc.	Queensland University of Technology (Nutrition & Dietetics) Brisbane, Australia
2008 - 2010	M.P.H.	Queensland University of Technology (Epidemiology & Research Methods) Brisbane, Australia
2012 - 2014	M.Phil.	Yale School of Public Health (Chronic Disease Epidemiology) New Haven, CT
2012 - 2016	Ph.D.	Yale School of Public Health and National Cancer Institute (Yale/NCI Partnership Training Program in Cancer Prevention (Nutrition & Cancer)) New Haven, CT and Rockville, MD
2016 - 2018	Postdoctoral Fellow	National Cancer Institute (Division of Cancer Epidemiology and Genetics (DCEG), Metabolic Epidemiology Branch) Rockville, MD

ACADEMIC HISTORY

Department of Nutrition and Integrative Physiology, University of Utah and Division of Cancer Population Sciences, Huntsman Cancer Institute
05/01/2018 - Present Hire, Tenure Track, Assistant Professor
Department of Population Health Sciences, University of Utah
09/01/2018 – Present Adjunct Assistant Professor

PROFESSIONAL EXPERIENCE

Full-Time Positions

2004	Registered Clinical Dietitian, The Royal Brisbane and Women's Hospital, Brisbane, Australia
2004	Registered Clinical Dietitian, Ipswich Hospital, Ipswich, Australia
2005	Registered Clinical Dietitian, Doncaster Royal Infirmary, Rotherham General and City General Hospital, South Yorkshire and West Midlands, England
2005	Research Dietitian Consultant, The Princess Alexandra Hospital, Brisbane, Australia
2006 - 2007	Professional Research Associate, Robert H. Eckel Laboratory, Department of Endocrinology, Metabolism and Diabetes, University of Colorado School of Medicine, Aurora, CO
2007 - 2012	Senior Clinical Dietitian Research Associate, The Cancer Prevention Laboratory, Colorado State University, Fort Collins, CO

2012 - 2016	Graduate Researcher and Graduate Teaching Fellow, Cancer Prevention and Control Epidemiology Group, Yale School of Public Health, New Haven, CT
2018 - Present	Assistant Professor and Investigator, Department of Nutrition & Integrative Physiology and Huntsman Cancer Institute, University of Utah, Salt Lake City, UT

Editorial Experience

2014 - 2017	DCEG Fellows Editorial Board for Division of Cancer Epidemiology and Genetics, National Cancer Institute
2019	Special Issue Editor, *Metabolites*, "Metabolomic Profiles in Nutrition and Metabolic Health"
2021-Present	Editorial Board Member, *Nutrients*, Nutritional Epidemiology Section
2022	Special Issue Editor, *Nutrients*, "Nutritional Metabolomics in Cancer Epidemiology"

Reviewer Experience - Journals

Reviewer for *Advances in Nutrition*
Reviewer for *American Journal of Clinical Nutrition*
Reviewer for *American Journal of Epidemiology*
Reviewer for *BMC Medicine*
Reviewer for *BMC Nutrition*
Reviewer for *BMC Cancer*
Reviewer for *British Journal of Cancer*
Reviewer for *British Journal of Nutrition*
Reviewer for *Cancer Causes & Control*
Reviewer for *Cancer Epidemiology, Biomarkers & Prevention*
Reviewer for *Cancer Prevention Research*
Reviewer for *Cancers*
Reviewer for *European Journal of Nutrition*
Reviewer for *Heart*
Reviewer for *Journal of Clinical Endocrinology and Metabolism*
Reviewer for *Journal of Nutrition*
Reviewer for *Journal of the National Cancer Institute*
Reviewer for *Metabolites*
Reviewer for *Nature Communications*
Reviewer for *Nutrients*
Reviewer for *PLOS ONE*
Reviewer for *Science*
Reviewer for *Scientific Reports*
Reviewer for *Supportive Care in Cancer*

Reviewer Experience - Grants

Reviewer for the *World Cancer Research Fund*
Reviewer for the *Worldwide Cancer Research*
Reviewer for *NIH Integrative Vascular Biology and Hematology (IVBH) Study Section*

SCHOLASTIC HONORS

2012 - 2016	**NIH TU2 Cancer Prevention Training Grant** [CA105666 to Susan T. Mayne] Pre-doctoral Cancer Prevention Training Program
2013	**Conference Scholarship** American Institute for Cancer Research (AICR) Annual Research Conference

2013	**Travel Award** Mary Frances Picciano Dietary Supplement Research Practicum, Office of Dietary Supplements, NIH
2013	**Special Speaker Honorarium** Academy of Nutrition and Dietetics (AND) Food and Nutrition Conference Expo
2015	**Student Workshop Award** 2015 Society for Epidemiologic Research (SER)
2016	**National Cancer Institute Division of Cancer Epidemiology and Genetics Fellows Award for Research Excellence**
2017	**National Cancer Institute Division of Cancer Epidemiology and Genetics 2017 Fellowship Achievement Award**
2018	**Metabolomics Society Travel Award**
2019	**Transdisciplinary Research in Energetics and Cancer (TREC) Training Workshop scholarship**
2020	**2020 Teacher of the Year Award**, Department of Nutrition and Integrative Physiology, University of Uta**h**
2021	**2021 Preceptor of the Year Award**, Department of Nutrition and Integrative Physiology, University of Utah
2023	**2023 College of Health New Investigator Award**, College of Health, University of Utah

ADMINISTRATIVE EXPERIENCE

Professional Organization & Scientific Activities

2014 - 2017	Member, National Institutes of Health, Trans-NIH Metabolomics Working Group
2014 - 2017	Member, National Cancer Institute, Division of Cancer Epidemiology and Genetics, Metabolomics Special Interest Group
2015 - Present	Member, COnsortium of METabolomics Studies, International Consortium, Data Harmonization Working Group
2015 - Present	Abstract Reviewer, Society of Behavioral Medicine, Annual Meeting
2016 - Present	Member, COnsortium of METabolomics Studies, International Consortium, Age Analysis and Early Career Scientist Working Groups
2018	Co-Chair, COnsortium of METabolomics Studies, International Consortium, Early Career Scientist Working Group
2018-Present	Chair, COnsortium of METabolomics Studies, International Consortium, Diet Working Group
2018-Present	Member, Huntsman Cancer Institute Breast and Gynecological Cancer Center
2018-Present	Member, University of Utah Diabetes and Metabolism Research Center
2019-2023	Chair, ColoCare Cohort (international cohort), Diet Working Group
2020-Present	Member, Steering Committee, Breast and Gynecological Cancers Center, Huntsman Cancer Institute
2020-Present	Member, Translational Research, Breast and Gynecological Cancers Center, Huntsman Cancer Institute
2020-Present	Chair, Data Stewardship, Breast and Gynecological Cancers Center, Huntsman
2020-Present	Cancer Institute Steering Committee Member, Breast and Gynecological Cancers Center Biospecimen Committee, Huntsman Cancer Institute Gynecological Oncology
2020-Present	Co-Chair, Huntsman Cancer Institute Molecular Epidemiology Research Interest Group
2023-Present	Project Liaison, Community Outreach and Engagement (COE), Huntsman Cancer Institute Cancer Center Support Grant

2023-Present Co-Chair, Diet Working Group, NCI Metabolic Dysregulation and Cancer Risk (MeDoc) Consortium

Symposium/Meeting Chair/Coordinator

2014 - 2015 Co-Chair, Division of Cancer Epidemiology and Genetics Fellow's Training Symposium Planning Committee, National Cancer Institute

2020-Present Member, Huntsman Cancer Institute Seminar Series Committee

UNIVERSITY SERVICE

2019 Member, Search Committee, Cancer Population Sciences Division Chief, Department of Population Health Sciences, University of Utah School of Medicine

2019-Present Member, Review Committee, Coordinated Master's Program, Nutrition & Integrative Physiology, University of Utah

2021-Present Member, Search Committee, Cancer Biostatistics, Huntsman Cancer Institute and Department of Population Health Sciences, University of Utah

2022-Present Interim Bionutritionist, University of Utah Metabolic Kitchen & CTSI, University of Utah

PROFESSIONAL COMMUNITY ACTIVITIES

2011 - 2016 Chair, HERA Women's Cancer Foundation, Climb4Life Rock Climbing Committee, Boulder, CO and Washington D.C.

UNIVERSITY COMMUNITY ACTIVITIES

Programs, Centers & Institutes

2018 Volunteer, University of Utah Center for Community Nutrition

CURRENT MEMBERSHIPS IN PROFESSIONAL SOCIETIES

American Association for Cancer Research
American Society for Nutrition
American Society of Clinical Oncology
Metabolomics Society
Metabolomics Association of North America
American Society of Preventive Oncology

FUNDING

Active Grants

1/1/23 – 12/31/25 HCI Cancer Control and Population Sciences Pilot Grant
Malnutrition in Cancer Survivors: the MACS Study
Principal Investigator: Mary Playdon
Total Direct Costs $30,000
Describing malnutrition risk among cancer patients receiving treatment at HCI and association with cancer recurrence and survival; identifying novel biomarkers of malnutrition using metabolomics.

1/1/23 – 12/31/25 HCI Breast and Gynecological Cancers Center Pilot Grant
Family-based Meal Timing for Cancer Prevention Among Native Hawaiian and Pacific Islander Families: FAMTIME
Principal Investigator: Mary Playdon
Total Direct Costs $50,000
Randomized, controlled, crossover family-based dietary intervention among NHPI families in Utah to test efficacy of time restricted eating on metabolic health.

09/01/2022 – 08/31/2027 NCI 1U01CA272529-01
Ceramides as novel drivers of metabolic dysfunction and colorectal cancer

	Contact Principal Investigator: Mary Playdon Total Direct Costs $ 3,132,653 Transdisciplinary investigation into the role of ceramides in the development of colorectal cancer using epidemiologic and clinical cohort studies, animal and organoid experiments.
2/16/2022 – 2/15/2024	Cancer Control and Population Sciences Pilot Grant, HCI **A home-based lifestyle intervention for optimizing surgical outcomes among urinary bladder cancer patients: the BOOST study** Principal Investigator: Mary Playdon Total Direct Costs $30,000 A home based lifestyle intervention trial to prevent and manage malnutrition among bladder cancer patients at HCI.
5/1/2021 – 4/30/2023	Cancer Control and Population Sciences Pilot Grant, HCI **Dietary botanical diversity in relation to gut microbial diversity and activity and gastrointestinal symptoms among colorectal cancer patients** Principal Investigator: Mary Playdon Total Direct Costs $13,194 Measure dietary botanical diversity among colorectal cancer patients in the ColoCare cohort and the association with gut microbial diversity, gut health parameters, and urine metabolites.
07/01/2021-06/30/2024	5 for the Fight Fellowship **Investigating metabolic obesity, meal timing and diet quality in the development of cardiometabolic outcomes in endometrial cancer patients.** Principal Investigator: Mary Playdon Total Direct Costs $150,000 Identify modifiable determinants of cardiometabolic dysfunction and disease in endometrial cancer patients.
01/01/2021-12/30/2024	American Cancer Society Research Scholar Grant RSG CCE – 135107 **Metabolomics of Insulinemic Diets and Colon Cancer Risk** Principal Investigator: Fred Tabung Total Direct Costs $ 180,982 Multiple cohort meta-analysis of metabolomics data from the Consortium of Metabolomics Studies (COMETS) to determine metabolites associated with insulinemic dietary patterns and their relationship with colorectal cancer. Role: Co-Investigator
07/01/2020-06/30/2025	National Institutes of Health NIH/NINR R01NR078762-01A1 **Novel Biomarkers for Cancer-Related Fatigue: Integrating Metabolomics, Genomics and Behavior** Principal Investigator: Jane Figueiredo Total Direct Costs: $354,827 Examine genomic variation and metabolome in relation to cancer-related fatigue; and sleep, physical activity, diet and their relationships with the genome and metabolome as perpetuating factors for cancer-related fatigue among colorectal cancer survivors participating in the ColoCare study. Role: Site Principal Investigator
2/01/2020 – 2/9/2023	V Foundation Award **Inflammatory lipid mediators and aromatase inhibitor-associated arthralgias in breast cancer** Principal Investigator: Lynn Henry Direct Costs: $545,454 Total Costs: $600,000

Randomized controlled trial of omega-3 supplementation exploring inflammatory lipid mediators and aromatase inhibitor-associated arthralgias in breast cancer.
V Foundation
Role: Co-Investigator

12/23/2019-12/23/2023 FY20 Women's Cancers Center Research Seed Grant, Huntsman Cancer Institute
Feasibility and Acceptability of Time Restricted Eating among Endometrial Cancer Patients
Principal Investigator: Mary C. Playdon
Total Costs (all years): $35,000
This study aims to determine the feasibility, fidelity and preliminary acceptability of time restricted feeding intervention to improve metabolite health parameters among women diagnosed with endometrial cancer.
Role: Principal Investigator

Past Grants

04/01/2020-04/01/2023 Cancer Control and Population Sciences Pilot Grant, Huntsman Cancer Institute ($30K) AND University of Utah Center for Clinical and Translational Sciences Seed Grant (DSS #: 10056645; $30K)
Feasibility and Acceptability of Time Restricted Eating among Native Hawaiian and Pacific Islander Women at Risk for Developing Endometrial Cancer: TIMESPAN
Principal Investigator: Mary C. Playdon
Total Costs (all years): $60,000
This study aims to determine the feasibility, fidelity and preliminary acceptability of time restricted feeding intervention to improve metabolite health parameters among Native Hawaiian and Pacific Islander women at risk for developing endometrial cancer.
Role: Principal Investigator

07/03/17 - 04/30/22 NCI K99/R00 Career Transition Award (PA-16-193)
Blood metabolite profiles and risk of developing endometrial and estrogen receptor-negative breast cancer.
Principal Investigator: Mary C. Playdon
Direct Costs: $628,155 Total Costs: $1,027,800
Multiple-cohort meta-analyses measuring blood metabolite profiles and risk of developing endometrial cancer and estrogen receptor negative breast cancer.
National Institutes of Health
Role: Principal Investigator

3/1/2020-2/28/2022 Andrew S. Weyrich, Vice President for Research Research Incentive Seed Grant Program
Glycosylation in the etiology of new-onset diabetes after cancer diagnosis.
Principal Investigator: Mary C. Playdon
Total Costs (all years): $22,500
Examining the association of the human glycome with risk of developing diabetes after endometrial cancer diagnosis using existing stored blood samples from the Huntsman Cancer Institute Total Cancer Care cohort.
Role: Principal Investigator

07/01/2020 – 06/31/2021 Institutional Pilot Award, FY20 GI Disease Center of Excellence Pilot Projects Award Program
Leveraging genomic data to determine the shared genetics of diabetes and cancer

	Principal Investigator: Sheetal Hardikar Total Direct Costs (all years): $7500 This project aims to identify the shared genetic risk factors for diabetes and cancer development through exploration of germline genetic landscapes of cancer patients. Role: Co-Investigator
11/15/2019 – 11/15/2021	University of Utah Driving Out Diabetes, a Larry H. Miller Wellness Initiative **Incidence and Persistence of cancer-therapy induced hyperglycemia in the year after diagnosis** Principal Investigator: Sheetal Hardikar Total Direct Costs (all years): $50,000 Evaluate the incidence and prevalence of cancer-therapy induced hyperglycemia among cancer patients in the year following cancer diagnosis. Role: Co-Investigator
11/01/15 - 12/31/17	Women's Health Initiative Ancillary Study **Serum and urine metabolite profiles of diet measured by weighed food**. Principal Investigator(s): Steven C. Moore; Mary C. Playdon Direct Costs: $150,000 Total Costs: $150,000 National Cancer Institute Role: Co-Principal Investigator
01/01/11 - 12/31/11	Cancer Research Program Grant **Competency Development to Reduce Obesity and Promote Long Term Survival Following Treatment for Breast Cancer.** Direct Costs: $75,000 Total Costs: $75,000 Cancer League of Colorado Role: Collaborator

TEACHING RESPONSIBILITIES/ASSIGNMENTS

Course Lectures

2013 - 2014	Graduate Teaching Fellow, Nutritional Epidemiology (Faculty: Dr. Susan Mayne), Yale School of Public Health, New Haven, CT
2013 - 2014	Graduate Teaching Fellow, Epidemiology II (Advanced Epidemiology) (Faculty: Dr. Robert Dubrow), Yale School of Public Health, New Haven, CT
2016 - 2017	Lecturer, Metabolomics: Applications to epidemiology and cancer etiology studies, National Cancer Institute, Cancer Prevention Fellowship Program, Summer Curriculum in Cancer Prevention, Bethesda, MD
2018	Guest Lecturer, Biomarkers of Food Intake and Exposure: New frontiers, PHS 7110-001CTE Seminar, University of Utah, Salt Lake City, UT
2018	Guest Lecturer, Biomarkers of Food Intake and Exposure, NUIP 6220 Nutrition Policy: Domestic and Global, University of Utah, Salt Lake City, UT
2019	Guest Lecturer, Metabolomics in Molecular Epidemiology, PHS 7120 Molecular Epidemiology, University of Utah, Salt Lake City, UT
2019	Guest Lecturer, Metabolomics in Cancer Epidemiology, PB HLT 6302, Cancer Epidemiology, University of Utah, Salt Lake City, UT
2019-Present	Guest Lecturer, Eat Well, Starve Cancer, Biochem 6600 and 6601 Regulation of Metabolism, University of Utah, Salt Lake City, UT
2020-Present	Guest Lecturer, NUIP 6380 Medical Nutrition Therapy II, University of Utah, Salt Lake City, UT

2020-Present	Lecturer, NUIP 6240 Nutritional Epidemiology, University of Utah, Salt Lake City, UT

Clinical Teaching

2005	Nutrition and Dietetics Student Preceptor, Doncaster Royal Infirmary, Doncaster, England, UK
2008-2012	Nutrition and Dietetics Student Preceptor, for Regis University Nutrition and Dietetics students, Denver, CO

Small Group Teaching

2004 - 2012	Nutrition Educator, Group-based nutrition education as a clinical dietitian, Colorado State University and Ipswich Hospital, Australia

Trainee Supervision

Medical Student

2018 - 2019	Mentor, Huntsman Cancer Institute, Cancer Population Sciences. For visiting Medical student Rama **Kiblawi**.
2019 - Present	Co-Mentor, Huntsman Cancer Institute, Cancer Population Sciences. For University of Utah School of Medicine MD/PHD candidate Macie **Winn**.

Graduate

2019	Co-Mentor, Huntsman Cancer Institute, Cancer Population Sciences. For HCI Research Volunteer Alicja **Bulsiewicz**.
2019-Present	Ph.D. Committee Member, Nutrition & Integrative Physiology, University of Utah. For Ph.D. student Annelise **Poss**. Recipient of the FASEB Conference Travel Award, NUIP Outstanding PhD Poster award, University of Utah Graduate Student Travel Assistance Fellowship, NIH-T31 Training Grant in Metabolism, Keystone eSymposia on Fatty Liver Disease and Multisystem Complications Scholarship, University of Utah Elizabeth Fuhriman Gardner Prize for The Outstanding Woman in Health Sciences Finalist, University of Utah College of Health Outstanding Student Researcher Award, University of Utah Department on Nutrition and Integrative Physiology Wayne E. Askew Award for Exemplary Student Research, NIH F31: Ceramides as Lipotoxic mediators of NAFLD/NASH
2019-2020	Master's Thesis Committee Chair, Nutrition & Integrative Physiology, University of Utah. For Coordinated Master's Program student Kennedy **Springer**.
2019-2022	PhD Committee Chair, Mentor, Nutrition & Integrative Physiology, University of Utah. For Ph.D. student Lacie **Peterson**. Recipient of the NDEP Western Region Outstanding Dietetic Educator Award 2021; NDEP Preceptor Scholarship, AND Foundation 2020; Fellow of the Academy of Nutrition and Dietetics 2020; NDEP Scholarship, AND Foundation 2019; Fellow of the Association of Diabetes Care and Education Specialists 2018; CDR Doctoral Scholarship, AND Foundation 2018
2019-2022	PhD Committee Chair, Mentor, Nutrition & Integrative Physiology, University of Utah. For Ph.D. student Prasoona **Karra**. Recipient of the National Cancer Institute F99K00 Individual Predoctoral to Postdoctoral Fellow Transition Award 2021
2020-2022	Mentor, T32 Computational Diabetes Program, Nutrition & Integrative Physiology, University of Utah. For Ph.D. student Sean **Tatum**.
2021-2023	PhD Committee Member, Population Health Sciences, University of Utah. For Ph.D. student Ashley **Snyder**.

2021-Present	PhD Committee member, Population Health Sciences, University of Utah. For MD/PhD candidate Maci **Winn**.
2021-Present	PhD Committee Chair, Mentor, Nutrition & Integrative Physiology, University of Utah. For Ph.D. student Rachel **Hoobler**.
2021-2022	Focused Area of Study Project, Mentor, Nutrition & Integrative Physiology, University of Utah. For Masters students Brooke **Kudelka**, Helen **Hardy**, and Amber **Lawrence**.
2021-2022	Foodservice Capstone, Mentor, Nutrition & Integrative Physiology, University of Utah. For Masters student Carly **Alba**.
2022-Present	Master's Committee Chair, Mentor, Nutrition & Integrative Physiology, University of Utah. For Coordinated Master's student Manuela **Herrerra**.
2022-Present	Focused Area of Study Project, Mentor, Nutrition & Integrative Physiology, University of Utah. For Masters students Jessica **Pochmara**, Olivia **Hansen**, and Paige **Coker**.
2022-Present	PhD Committee Member, Health and Kinesiology, University of Utah. For Ph.D. student Michelle **Kubicki**.
2022-Present	PhD Committee Member, Nutrition & Integrative Physiology, University of Utah. For Ph.D. student Precious **Opurum**.
2023-Present	PhD Committee Chair, Mentor, Nutrition & Integrative Physiology, University of Utah. For Ph.D. student Sara **Saltzgiver**.
2023-Present	PhD Committee Member, Health and Kinesiology, University of Utah. For Ph.D. student Kelsey **Maslana**.
2023-Present	Master's Capstone Mentor, Bioinformatics, University of Utah. For Master's student Alex **Kimball**.

Undergraduate

2008 - 2012	Nutrition Student Mentor, Colorado State University. For Johnson and Wales University Culinary Nutrition Program as manager of Cancer Prevention Laboratory Clinic.
2019-2020	Mentor, University Research Opportunity Program (UROP), College of Nursing, University of Utah. For Undergraduate Nursing Student Jack Olin **Levitt**.
2019	Mentor, Huntsman Cancer Institute, Cancer Population Sciences, University of Heidelberg. For Computer Science Visiting Scholar Benedikt Hauner.
2019	Mentor, Department of Nutrition and Dietetics, Utah State University. For undergraduate student Rachel **Hoobler**.
2022-2023	Mentor, PathMaker Program. For undergraduate intern Arun **Acharya**.
2023	Mentor, Undergraduate Summer Intern. For undergraduate Donny **Doan**.
2023	Mentor, Haumana 'O Pasifika Summer Internship Program. For undergraduate Lusia **Tamala**

Educational Lectures

Department/Division Conferences

2014	Preferred health information needs and sources of long-term cancer survivors in the ACS Study of Cancer Survivors-I, Yale Cancer Prevention and Control Research Program
2018	Nutritional Metabolomics: Opportunities for Disease Prevention and Control, Diabetes and Metabolism Research Center and Driving Out Diabetes Initiative Fall Retreat, University of Utah

PEER-REVIEWED JOURNAL ARTICLES

https://www.ncbi.nlm.nih.gov/myncbi/1XMxyScgxQoAu/bibliography/public/

1. Perreault L, Bergman BC, **Playdon MC**, Dalla Man C, Cobelli C, Eckel RH. Impaired fasting glucose with or without impaired glucose tolerance: progressive or parallel states of prediabetes? *Am J Physiol Endocrinol Metab*. 2008; *295*(2), E428-35.
2. Perreault L, Bergman BC, **Playdon MC**, Eckel RH. High intramuscular triglyceride concentration and low turnover distinguish pre-diabetes from obesity in humans. *Diabetologia*. 2008; *51*, S20-1.
3. Bergman BC, Perreault L, Hunerdosse DM, **Koehler MC**, Samek AM, Eckel RH. Intramuscular lipid metabolism in the insulin resistance of smoking. *Diabetes*. 2009; *58*(10), 2220-7.
4. Bergman BC, Perreault L, Hunerdosse DM, **Koehler MC**, Samek AM, Eckel RH. Increased intramuscular lipid synthesis and low saturation relate to insulin sensitivity in endurance-trained athletes. *J Appl Physiol*. 2010; *108*(5), 1134-41.
5. Perreault L, Bergman BC, Hunerdosse DM, **Playdon MC**, Eckel RH. Inflexibility in intramuscular triglyceride fractional synthesis distinguishes prediabetes from obesity in humans. *Obesity (Silver Spring)*.2010; *18*(8), 1524-31.
6. Sedlacek SM, **Playdon MC**, Wolfe P, McGinley JN, Wisthoff MR, Daeninck EA, Jiang W, Zhu Z, Thompson HJ. Effect of a low fat versus a low carbohydrate weight loss dietary intervention on biomarkers of long term survival in breast cancer patients ('CHOICE'): study protocol. *BMC Cancer*.2011; *11*, 287.
7. Thompson HJ, Sedlacek SM, Paul D, Wolfe P, McGinley JN, **Playdon MC**, Daeninck EA, Bartels SN, Wisthoff MR. Effect of dietary patterns differing in carbohydrate and fat content on blood lipid and glucose profiles based on weight-loss success of breast-cancer survivors. *Breast Cancer Res*. 2012; *14*(1), R1.
8. Bergman BC, Hunerdosse DM, Kerege A, **Playdon MC**, Perreault L. Localisation and composition of skeletal muscle diacylglycerol predicts insulin resistance in humans. *Diabetologia*. 2012; *55*(4), 1140-50.
9. Bergman BC, Perreault L, Hunerdosse D, Kerege A, **Playdon M**, Samek AM, Eckel RH. Novel and reversible mechanisms of smoking-induced insulin resistance in humans. *Diabetes*. 2012; *61*(12), 3156-66.
10. **Playdon M**, Thomas G, Sanft T, Harrigan M, Ligibel J, Irwin M. Weight Loss Intervention for Breast Cancer Survivors: A Systematic Review. *Curr Breast Cancer Rep*. 2013; *5*(3), 222-46.
11. Thompson HJ, Sedlacek SM, **Playdon MC**, Wolfe P, McGinley JN, Paul D, Lakoski SG. Weight loss interventions for breast cancer survivors: impact of dietary pattern. *PLoS ONE*. 2015; *10*(5), e0127366.
12. Thompson HJ, Sedlacek SM, Wolfe P, Paul D, Lakoski SG, **Playdon MC**, McGinley JN, Matthews SB. Impact of Weight Loss on Plasma Leptin and Adiponectin in Overweight-to-Obese Post Menopausal Breast Cancer Survivors. *Nutrients*. 2015; *7*(7), 5156-76.
13. Harrigan M, Cartmel B, Loftfield E, Sanft T, Chagpar AB, Zhou Y, **Playdon M**, Li F, Irwin ML. Randomized Trial Comparing Telephone Versus In-Person Weight Loss Counseling on Body Composition and Circulating Biomarkers in Women Treated for Breast Cancer: The Lifestyle, Exercise, and Nutrition (LEAN) Study. *J Clin Oncol*. 2016; *34*(7), 669-76.
14. **Playdon M**, Ferrucci LM, McCorkle R, Stein KD, Cannady R, Sanft T, Cartmel B. Health information needs and preferences in relation to survivorship care plans of long-term cancer survivors in the American Cancer Society's Study of Cancer Survivors-I. *J Cancer Surviv*. 2016; *10*(4), 674-85.
15. **Playdon MC**, Sampson JN, Cross AJ, Sinha R, Guertin KA, Moy KA, Rothman N, Irwin ML, Mayne ST, Stolzenberg-Solomon R, Moore SC. Comparing metabolite profiles of habitual diet in serum and urine. *Am J Clin Nutr*. 2016; *104*(3), 776-89.
16. **Playdon MC**, Moore SC, Derkach A, Reedy J, Subar AF, Sampson JN, Albanes D, Gu F, Kontto J, Lassale C, Liao LM, Mannisto S, Mondul AM, Weinstein SJ, Irwin ML, Mayne ST, Stolzenberg-Solomon R. Identifying biomarkers of dietary patterns by using metabolomics. *Am J Clin Nutr*. 2017; *105*(2), 450-65.

17. **Playdon MC**, Nagle CM, Ibiebele TI, Ferrucci LM, Protani MM, Carter J, Hyde SE, Neesham D, Nicklin JL, Mayne ST, Webb PM. Pre-diagnosis diet and survival after a diagnosis of ovarian cancer. *Br J Cancer*. 2017; *116*(12), 1627-37.
18. **Playdon MC**, Ziegler RG, Sampson JN, Stolzenberg-Solomon R, Thompson HJ, Irwin ML, Mayne ST, Hoover RN, Moore SC. Nutritional metabolomics and breast cancer risk in a prospective study. *Am J Clin Nutr*. 2017; *106*(2), 637-49.
19. Murphy RA, Moore SC, **Playdon M**, Meirelles O, Newman AB, Milijkovic I, Kritchevsky SB, Schwartz A, Goodpaster BH, Sampson J, Cawthon P, Simonsick EM, Gerszten RE, Clish CB, Harris TB. Metabolites Associated With Lean Mass and Adiposity in Older Black Men. *J Gerontol A Biol Sci Med Sci*. 2017; *72*(10), 1352-9.
20. Derkach A, Sampson J, Joseph J, **Playdon MC**, Stolzenberg-Solomon RZ. Effects of dietary sodium on metabolites: the Dietary Approaches to Stop Hypertension (DASH)-Sodium Feeding Study. *Am J Clin Nutr*. 2017; *106*(4), 1131-41.
21. Bergman BC, Perreault L, Strauss A, Bacon S, Kerege A, Harrison K, Brozinick JT, Hunerdosse DM, **Playdon MC**, Holmes W, Bui HH, Sanders P, Siddall P, Wei T, Thomas MK, Kuo MS, Eckel RH. Intramuscular triglyceride synthesis: importance in muscle lipid partitioning in humans. *Am J Physiol Endocrinol Metab*. 2018; *314*(2), E152-E164.
22. **Playdon MC**, Coburn SB, Moore SC, Brinton LA, Wentzensen N, Anderson G, Wallace R, Falk RT, Pfeiffer R, Xu X, Trabert B. Alcohol and oestrogen metabolites in postmenopausal women in the Women's Health Initiative Observational Study. *Br J Cancer*. 2018; *118*(3), 448-57.
23. Moore SC, **Playdon MC**, Sampson JN, Hoover RN, Trabert B, Matthews CE, Ziegler RG. A Metabolomics Analysis of Body Mass Index and Postmenopausal Breast Cancer Risk. *J Natl Cancer Inst*. 2018; *110*(6), 588-97.
24. Murphy RA, Moore S, **Playdon** M, et al. Metabolites Associated With Risk of Developing Mobility Disability in the Health, Aging and Body Composition Study. *J Gerontol A Biol Sci Med Sci.* 2019;74(1):73-80.
25. Beger RD, Dunn WB, Bandukwala A, Bethan B, Broadhurst D, Clish CB et al.. Towards quality assurance and quality control in untargeted metabolomics studies. *Metabolomics.* 2019; *15(1):4,* https://doi.org/10.1007/s11306-018-1460-7.
26. Yu B ZK, Temprosa E, Appel N, Boerwinkle E, Derkach A, Fahy E, Gunter MJ, Hoover E, Lotta L, Mathé E, Murphy RA, **Playdon MC**, Risch A, Sampson J, Travis R, Wang Y, Younes N, Albanes DA, Barrera CB, Casas JP, Castle A, Chow WH, Clish C, Eliassen H, Gieger C, Harada S, Harris T, Herrington D, Hsing A, Johannson M, Kristal B, Langenberg C, Lasky-Su J, LeMarchand L, Mangino M, Matthews CE, Menni C, Oresic M, Orwoll E, Pereira A, Rexrode K, Shah S, Shu XO, Srinivas P, Stevens V, Stolzenberg-Solomon R, Takebayashi T, Ulrich N, Zhao H, Moore SC. The Consortium of Metabolomics Studies (COMETS): Metabolomics in 47 prospective cohort studies. *American Journal of Epidemiology*. 2019; *188(6)*:991-1012.
27. **Playdon** MC, Joshi A, Tabung F, Cheng S, Henglin M, Kim A, Lin T, van Roekel EH, Huang J, Krumsiek J, Mathe E, Temprosa M, Moore SC, Zeleznik, OA. Metabolomics Analytics Workflow for Epidemiological Research: Perspectives from the Consortium of Metabolomics Studies (COMETS). *Metabolites.* 2019; *9 (7):* 145; doi:10.3390/metabo9070145.
28. Kim S, Chen Y, Rowe K, Snyder J, Fraser A, Smith K, Deshmukh VG, Newman M, Herget K, Porucznik C, Ose D, **Playdon M**, Gaffney D, Hashibe M (2019) Long-term Diabetes Risk among Endometrial Cancer Survivors in a Population-Based Cohort Study. *Gynecol Oncol.* 2019; 156(1):185-193.
29. Mazzilli KM, McClain KM, Lipworth L, **Playdon MC**, Sampson JN, Clish CB, Gerszten RE, Freedman ND, Moore SC. Identification of 102 Correlations between Serum Metabolites and Habitual Diet in a Metabolomics Study of the Prostate, Lung, Colorectal, and Ovarian Cancer Trial. *J Nutr*. 2019; *150(4)*:694-703.

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REVIEW ARTICLES

1. **Playdon MC**, Matthews SB, Thompson HJ. Weight change patterns and breast cancer risk: a brief review and analysis. *Crit Rev Eukaryot Gene Expr*. 2013; *23*(2), 159-69.
2. **Playdon MC**, Bracken MB, Sanft TB, Ligibel JA, Harrigan M, Irwin ML. Weight Gain After Breast Cancer Diagnosis and All-Cause Mortality: Systematic Review and Meta-Analysis. [Review]. *J Natl Cancer Inst*. 2015; *107*(12), djv275.
3. Mayne ST, **Playdon MC**, Rock CL. Diet, nutrition, and cancer: past, present and future. *Nat Rev Clin Oncol*. 2016; *13*(8), 504-15.
4. McGee EE, Kiblawi R, **Playdon** MC, Eliassen AH. Nutritional Metabolomics in Cancer Epidemiology: Current Trends, Challenges, and Future Directions. *Curr Nutr Rep.* 2019; 8(3):187-201.
5. Karra P, Winn M, Pauleck S, Bulsiewicz-Jacobsen A, Peterson L, Coletta A, Doherty J, Ulrich CM, Summers SA, Gunter M, Hardikar S, **Playdon MC**. Metabolic dysfunction and obesity-related cancer: Beyond obesity and metabolic syndrome. *Obesity*. 2022; 30(7): 1323-1334.
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7. Thompson HJ, Lutsiv T, McGinley J, Hussan H, **Playdon MC**. Dietary Oncopharmacognosy as a Crosswalk between Precision Oncology and Precision Nutrition. *Nutrients*. 2023; 15: 2219.

8. Giles ED, Purcell SA, Olson J, Vrieling A, Hirko KA, Woodruff K, **Playdon MC**, Thomas GA, Gilmore LA, Moberly HK, Newell-Fugate AE. Trends in Diet and Cancer Research: A Bibliometric and Visualization Analysis. Cancers (Basel). 2023 Jul 25;15(15):3761.

POSTER PRESENTATIONS

1. **Playdon MC** (2011). *Effect of dietary patterns differing in carbohydrate and fat content on blood lipid profiles based on weight loss success of breast cancer survivors.* Poster session presented at American Institute for Cancer Research Research Conference, Washington, DC.
2. **Playdon MC** (2013). *Diet and Survival After a Diagnosis of Ovarian Cancer.* Poster session presented at American Institute for Cancer Research Research Conference, Washington, DC.
3. **Playdon MC** (2015). *Comparing metabolite profiles of habitual diet in serum and urine.* Poster session presented at Metabolomics 2015 Conference, San Francisco, CA.
4. **Playdon MC** (2015). *Comparing biospecimens for nutritional metabolomics.* Poster session presented at 2015 National Cancer Institute Division of Cancer Epidemiology and Genetics Fellow's Training Symposium, Rockville, MD.
5. **Playdon MC** (2016). *Nutritional metabolomics and breast cancer risk in a prospective study.* Poster session presented at COnsortium of METabolomics Studies (COMETS) Conference, Rockville, MD.
6. **Playdon MC** (2017). *Identifying urinary and serum biomarkers of habitual weighed food intake in an ancillary feeding study within the Women's Health Initiative Nutrition and Physical Activity Assessment Study (NPAAS).* Poster session presented at American College of Epidemiology Conference, New Orleans, LA.
7. **Playdon MC** (2017). *Alcohol and estrogen metabolites in postmenopausal women in a nested case-control study within the Women's Health Initiative Observational Study.* Poster session presented at American College of Epidemiology Conference, New Orleans, LA.
8. **Playdon MC** (2021). *Metabolic mediation of obesity and endometrial cancer risk: a meta-analysis of nested case control studies.* Poster session presented at the American Institute for Cancer Research conference [Virtual]
9. **Playdon MC** (2021). *Blood metabolite profile and risk of estrogen receptor negative breast cancer: a meta-analysis.* Poster session presented at the Metabolomics Association of North American conference [Virtual]
10. **Playdon MC** (2023). *Metabolomics of inflammatory and insulinemic dietary patterns.* Poster session presented at International Conference on Diet and Activity Methods (ICDAM). Limerick, Ireland.

ORAL PRESENTATIONS

Invited/Visiting Professor Presentations

International

2016	**Playdon MC**. Identifying biomarkers of dietary patterns using metabolomics. COnsortium of METabolomics Studies Annual Meeting, Rockville, MD
2016	**Playdon MC**. Nutritional metabolomics and breast cancer risk in a prospective study. Epidemiology Congress of the Americas 2016, Miami, FL
2018	**Playdon MC**. Metabolomic Profiles of Food Intake and Dietary Patterns. National Institutes of Health Workshop on Omics Approaches, Bethesda, MD
2018	**Playdon MC**. Objective biomarkers of usual diet: a metabolomics analysis of weighed food intake. 14th International Conference of the Metabolomics Society, Seattle, WA
2020	**Playdon MC.** Diet and Cancer. Queensland Centre for Gynaecological Cancer (QCGC) Research Patient Symposium. University of Queensland, Brisbane, QLD, Australia

National

2013	**Playdon MC**. Unique Weight Management Concerns of Breast Cancer Survivors: The Lifestyle Exercise and Nutrition Study. Food and Nutrition Conference & Expo, Academy of Nutrition & Dietetics, Houston, TX
2016	**Playdon MC**. Nutritional metabolomics and application to breast cancer etiology. Trans-NIH Metabolomics Interest Group Lecture Series, Bethesda, MD
2017	**Playdon MC**. Application of metabolomics to dietary patterns research. Dietary Patterns Methods Project, US National Interest Group
2018	**Playdon MC**. Dietary Biomarkers in the Age of Metabolomics. John Milner Nutrition Practicum, National Cancer Institute, Rockville, MD
2019	**Playdon MC**. I Know What You Ate Last Summer. University of Iowa, Iowa City, IA
2020	**Playdon MC.** I Know What You Ate Last Summer. Yale School of Public Health CDE and Yale Cancer Center Cancer Prevention and Control Seminar, Yale University, New Haven, CT [virtual]
2021	**Playdon MC**. Diet, obesity and breast and endometrial cancer: convergence on metabolism. Ohio State University Molecular Cancer Epidemiology Seminar Series, Ohio State University, Columbus, OH [virtual]
2021	**Playdon MC**. Diet, obesity and women's cancer: convergence on metabolism. 24th Annual Basic Science Virtual Research Symposium, Loma Linda University, Loma Linda, CA
2022	**Playdon MC**. Time restricted eating among Native Hawaiian and Pacific Islander Women at risk of endometrial cancer: the TIMESPAN study. NCI Transdisciplinary Research into Energetics and Cancer (TREC) Program seminar [Virtual]
2022	**Playdon MC.** Chrononutrition for humans: Are we ready for recommendations? American Society for Preventive Oncology (ASPO) Seminar Series [Virtual]
2023	**Playdon MC.** Diet, obesity and metabolism in the etiology of endometrial cancer. Invited talk for the Molecular Epidemiology Seminar Series, Ohio State University, OH.
2023	**Playdon MC.** Diet, obesity and endometrial cancer: convergence on metabolism. Invited talk for the Cell and Molecular Biology program, Colorado State University, CO
2023	**Playdon MC.** Diet, obesity and endometrial cancer: convergence on metabolism. Invited talk for the Epidemiology of Endometrial Cancer Consortium (E2C2), Memorial Sloan Kettering Cancer Center, NY

Local/Regional

2017	**Playdon MC**. Nutritional metabolomics and application to cancer epidemiology. Huntsman Cancer Institute, Division of Cancer Population Sciences, University of Utah School of Medicine, UT
2017	**Playdon MC**. Dietary biomarkers in the age of metabolomics. NIH Nutrition Research Coordinating Committee (NRCC), Rockville, MD
2018	**Playdon MC**. I know what you age last summer. Metabolism Research in Progress seminar series, University of Utah, Salt Lake City, UT
2018	**Playdon MC**. Nutritional metabolomics: Opportunities for disease prevention and control. Diabetes and Metabolism Research Center Symposium, University of Utah, Salt Lake City

2018	**Playdon MC**. The Next Big Thing in Nutrition for Cancer Prevention and Survivorship, Huntsman Cancer Institute Women's Cancers Center, University of Utah, Salt Lake City, UT
2020	**Playdon MC.** Your Diet is In Your Blood and What That Says About Your Cancer Risk. Vitae 2020, University of Utah, Salt Lake City, UT
2022	**Playdon MC.** Diet and cancer. National Cancer Prevention Workshop 2022, Federal Senate, Washington DC [presented to senators remotely]
2022	**Playdon MC.** Meal timing, diet quality and metabolic health in endometrial cancer patients and survivors. 5 For the Fight Symposium, Huntsman Cancer Institute, Salt Lake City, UT.
2022	**Playdon MC.** Time restricted eating among Native Hawaiian and Pacific Islander Women at risk of endometrial cancer: the TIMESPAN study. Behavioral Research Seminar Series, University of Utah, Salt Lake City, UT