

**Alyssa I. Clay-Gilmour, Ph.D.**

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**EDUCATION**

- 2011-2016  
Ph.D. Cancer Pathology and Prevention  
Emphasis: Genetic Epidemiology / Statistical Genomics  
**State University of New York-Buffalo (SUNY)**  
Dissertation: "*Evidence for heterogeneous genetic associations with Acute Lymphoblastic Leukemia by cytogenetics, age, and sex in high-risk patients treated with matched unrelated donor allogeneic blood or marrow transplant*"  
Mentor: Lara Sucheston-Campbell, M.S., Ph.D.  
Committee: Theresa Hahn, Ph.D, Christine Ambrosone, Ph.D., Philip McCarthy, M.D.
- 2006-2010  
Bachelor of Science (B.S.)-Professional Biology  
Bachelor of Science (B.S.)-Psychology  
**Charleston Southern University**

**POST-GRADUATE TRAINING**

- 2016-2019  
Post-doctoral Research Fellow (R25CA092049: National Cancer Institute)  
**Mayo Clinic**  
Cancer Genetic & Molecular Epidemiology / Biostatistics  
Primary Advisor: Celine Vachon, Ph.D. - Multiple Myeloma  
Secondary Advisor: Susan Slager, Ph.D. - Acute / Chronic Leukemia

**PROFESSIONAL EXPERIENCE**

- 2019-  
Assistant Professor (Tenure-Track)  
**University of South Carolina- Arnold School of Public Health**  
Department of Epidemiology & Biostatistics  
Greenville, South Carolina
- 2019-  
Academic Collaborator / Health Science Research  
**Prisma Health**  
Greenville, South Carolina
- 2019-  
External Collaborator / Research Professional  
**Mayo Clinic**  
Department of Epidemiology  
Rochester, Minnesota
- 2016-2019  
Research Fellow Professional  
**Mayo Clinic**  
Rochester, Minnesota
- 2012-2016  
Graduate Research Assistant  
**Roswell Park Cancer Institute**  
Buffalo, New York  
Cancer Pathology and Prevention, Genetic Epidemiology, and Statistical Genomics  
Primary Advisor: Lara Sucheston-Campbell, Ph.D. - Genetic Epidemiology

Secondary Advisors: Theresa Hahn, Ph.D. / Philip McCarthy, M.D - Bone Marrow Transplantation & Hematologic Malignancies

- 2011-2012 Graduate Research Assistant  
**Roswell Park Cancer Institute**  
Buffalo, New York  
Cancer Pathology and Prevention, Epidemiology (Rotation)  
Primary Advisor: Kirsten Moysich, Ph.D. - Ovarian Cancer
- 2008-2010 Undergraduate Research Assistant  
**Charleston Southern University**  
Primary Advisor: Rachel Walker, Ph.D. - Behavioral Science  
Primary Advisor: Dr. Virginia Probin, Ph.D. – Lipids / Sphingolipids & Senescence
- 2009 Undergraduate Research Intern  
**University of Colorado Denver Cancer Center**  
Primary Advisor: Yiqun Shellman, Ph.D. – Melanoma Prevention  
Project: “Effects of inhibiting MEK and PI3K Pathways on expression of Bcl-2 family members in melanoma cells”

## **AWARDS**

- 2016 Abstract Achievement Award: 58th American Society of Hematology (ASH) Annual Meeting and Exposition
- 2011-2015 Presidential Fellowship  
State University of New York-Buffalo
- 2009-2016 The National Scholar’s Honor Society Alpha Chi
- 2009 The National Honor Society in Psychology Psi Chi
- 2008 Athletic Training Captains Resolve Award / Team Impact Player  
Charleston Southern University-Women’s Soccer
- 2006-2010 Charleston-Southern University Division 1 Women’s Soccer Scholarship
- 2006-2010 Presidential Honor Roll / Deans List  
Charleston Southern University
- 2007-2009 Charleston Southern University Athletic Letter

## **FUNDING**

- 2019-2021 Loan Repayment Program Grant Renewal (National Institute of Health)  
Clinical-External  
“Genetic Epidemiology of Exceptional Survivors with Acute Leukemia who received blood and marrow transplantation”  
Submitted: Nov. 2019  
Status: Under Review  
Role: PI
- 2017-2019 Loan Repayment Program Grant Renewal (National Institute of Health)  
Clinical-External  
“Genetic Epidemiology of Multiple Myeloma”  
Submitted: Nov. 2017

Status: Completed  
 Role: Mentored Investigator (Mentor: Celine Vachon, Ph.D.)

2016-2019 5R25CA092049-12 (MPI), NCI  
 VACHON (PI): Mayo Clinic in the Cancer Genetic and Molecular  
 Epidemiology training program  
 Submitted: May 2016  
 Status: Completed  
 Role: Trainee

## TEACHING & MENTORING

Year/time	Institution	Course/Activity	Role	Student/Trainee
Spring 2021	University of South Carolina	Genetic Epidemiology	Professor/ Lecturer	Graduate (masters/doctoral)
Fall 2020	University of South Carolina	Epidemiology	Professor	Graduate (Masters/Doctoral)
Spring 2019	University of South Carolina	Doctoral Seminar	Professor/ lecturer	Doctoral graduate
Fall 2019	University of South Carolina	Departmental Seminar	Lecturer	Faculty, graduate students (masters/doctoral)
2018	The Ohio State University	Family Genetics Workshop	Lecturer/invited speaker	Faculty, visiting faculty, graduate students, post-docs
2016-2019	Mayo Clinic-Postdoctoral Fellows	InSciEd Out- "Speed Date a Scientist"	Volunteer	Middle School students
2016 / 2017	Mayo Clinic	Genetic Epidemiology and Risk Assessment (GERA) Program Seminar	Lecturer	Faculty, post-docs, allied health professionals
2015	Roswell Park Cancer Institute	(BPR577) Cellular Biophysics	Graduate Assistant	Graduate students (masters/doctoral)
2014	Roswell Park Cancer Institute	Department of Cancer Pathology & Prevention-Work in Progress Seminar	Lecturer	Faculty, graduate students, post-docs
2014	State University of New York at Buffalo	School of Social and Preventive Medicine (SPM 604)-Genetic Epidemiology	Lecturer	Graduate Students (doctoral/masters)
2013-2016	Roswell Park Cancer Institute	Cancer Pathology & Prevention (CPP) Epidemiology preliminary exam preparation	Tutor/mentor	1-2 year doctoral students in CPP program

## WORKSHOPS

2018 Family Genetics Workshop- The Ohio State University  
 2017 AACR Integrative Molecular Epidemiology Workshop  
 2017 AACR Annual Meeting Grant Writing Workshop  
 2017 Writing for Biomedical Publication, CCaTS Annual Workshop  
 2016 / 2017 American Society of Hematology: Integrative Clinical and Molecular Epidemiology of Hematologic Malignancies  
 2016 CCaTS: Writing a Winning Grant Workshop, Mayo Clinic, Rochester, MN  
 2014 4<sup>th</sup> Short Course: Next-Generation Sequencing: Technology & Statistical Methods: University of Alabama Birmingham  
 2013 Advanced Gene Mapping Course, The Rockefeller University  
 2013 OICR Advanced Topics in Genome-Wide Association Studies Workshop, University of Toronto

## COURSE WORK

Spring 2018 Clinical Research Protocol Development  
 Genetic Epidemiology-Association Studies  
 Fall 2017 Pharmacogenomics & Metabolism  
 Responsible Research Conduct  
 Fall 2014 Statistical Genomics  
 Spring 2014 Genetic Epidemiology  
 Fall 2013 Cancer Control and Prevention  
 Spring 2013 Fundamentals of Immunology

Fall 2012	Applied Biostatistics to Epidemiology Part 2 Biochemical Principles
Spring 2012	Applied Biostatistics to Epidemiology Cancer Epidemiology Oncology for Scientists Part 2 Advanced Methodology in Epidemiology
Fall 2011	Cancer Epidemiology Oncology for Scientists Part 2 Recent Advances in Pathology Oncology for Scientists Principles of Epidemiology Medical Statistics

## **CERTIFICATIONS**

2019	CIHR Institute of Gender and Health-Sex and Gender in Primary Data
2019	HIPAA Regulation Training
2019	CITI Biomedical Responsible Conduct of Research
2019	CITI Human Research (social/behavioral/humanistic)
2019	EMR Health Record Training
2019	National Institute of Health Certified (NIH)

## **PROGRAMMING SKILLS**

R-statistical programming language  
SAS (Statistical Analysis Software)  
SPSS / JMP  
Linux / scripting environments  
Python / JAVA

## **PROFESSIONAL SOCIETY MEMBERSHIPS**

2019-	National Center for Faculty Development and Diversity
2019-	American Society for Transplantation and Cellular Therapy (ASTCT)
2017-	International Lymphoma Epidemiology Consortium (InterLymph) Working groups: Myeloma, Familial, Genetics, Analytics, Mendelian Randomization
2014-	American / European Society of Human Genetics (ASHG / ESHG)
2016-	American Association for Cancer Research (AACR)
2014-2016	American Society of Hematology (ASH)
2014-2016	American Association of University Women Buffalo Branch
2014-2016	Buffalo-STEM, Women in Science

## **CONSORTIUMS**

2016-	International Lymphoma Epidemiology Consortium (InterLymph) Co-Director of Data Coordinating Center
2016-	Multiple Myeloma Family Working Group (Chair-Elect 2019)
2016-	Genetic Epidemiology of Chronic Lymphocytic Leukemia (GEC) Consortium
2014-	Genes and Exposures in Myeloid Malignancies (GEMM)
2014-	DiSCOVeRY-BMT Group

## **PEER REVIEW RESPONSIBILITIES**

2019-	Scientific Reports, a Nature Research journal
2019-	International Journal of Cancer (IJC)
2019-	American Journal of Epidemiology
2018-	Leukemia and Lymphoma
2018-	Cancer Epidemiology, Biomarkers & Prevention
2018-	Blood Cancer Journal

2018- Mayo Clinic Proceedings  
2017- Human Molecular Genetics  
2016- Biology of Blood and Marrow Transplantation  
2015- Genomics, Proteomics & Bioinformatics

## ACADEMIC SERVICE

2019- Admissions Committee- Epidemiology Division  
University of South Carolina  
Arnold School of Public Health  
Department of Epidemiology & Biostatistics  
2019- Research Committee  
University of South Carolina  
Arnold School of Public Health  
Department of Epidemiology & Biostatistics

## INVITED ORAL SPEAKER PRESENTATIONS

2019 American Association of Cancer Research Conference  
Mini Symposium Session Title: Exposures and Genetics in Cancer Risk  
“Associations between a polygenic risk score and risk of multiple myeloma and its precursor”  
2019 University of Utah / Huntsman Cancer Center  
2019 Moffitt Cancer Center-Department of Epidemiology  
2019 University of South Carolina-Arnold School of Public Health, Department of  
Epidemiology & Biostatistics  
2018 60<sup>th</sup> Annual American Society Hematology Conference  
Molecular Epidemiology Workshop:  
“Extending Genome Wide Association Studies of Multiple Myeloma to Elicit Clues to  
Etiology”  
2018 Family Genetics Workshop: The Ohio State University  
“Linkage analysis in Multiple Myeloma Families from the Multiple Myeloma Family Working  
Group”  
2018 International Lymphoma Epidemiology Consortium Annual Meeting  
Moderator of Myeloma Working Group Session  
Speaker in Family Working Group, Genetic Working Group, and Myeloma Working Group  
2017 Mayo Clinic: Acute Leukemia / MDS Clinical Disease Orient Group Meeting  
“Adult-Acute Lymphoblastic Leukemia Registry”  
2016 58th American Society of Hematology (ASH) Annual Meeting and Exposition  
“Exome Array Analyses Identify Low-Frequency Germline Variants Associated with  
Increased Risk of AML in a HLA-Matched Unrelated Donor Blood and Marrow Transplant  
Population”  
2016 Multiple Myeloma Family Consortium Meeting  
“Large-scale linkage analysis of Multiple Myeloma Families”  
2016 Roswell Park Cancer Institute: Department of Epidemiology Grand Rounds  
Invited by: Dr. Kirsten Moysich  
2016 University of Chicago-Department of Medicine  
Invited by: Dr. Ken Onel  
2016 Mayo Clinic-Department of Epidemiology and Biostatistics  
Invited by: Drs. Celine Vachon & Susan Slager  
2016 National Human Genome Research Institute (NHGRI)  
Invited by: Dr. Joan-Bailey-Wilson Group  
2016 University of Southern California and Cancer Institute  
Invited by: Dr. Chris Haiman’s Group  
2016 The Ohio State University  
Invited by: Dr. John Byrd  
2014 Roswell Park Cancer Institute-Institutional Science Retreat

## PRESENTATIONS/ABSTRACTS

**Clay-Gilmour AI**, Hildebrandt M, Amann Y, Brown EB, Hofmann JN, Spinelli J, Giles G, Bhatti P, Cozen W, Robinson DP, O'Brien DR, Rajkumar, SV Shulan Tian S, Berndt SI, Chanock SJ, Machiela M, Norman AD, Sinnwell JP, Wu X, Waller RG, Milne RL, Slager SL, Kumar SK, Camp, NJ Ziv E, and Vachon CM. Association between a Polygenic Risk Score for Multiple Myeloma Risk and Overall Survival. American Society of Hematology. Publication Number: 4366 / Submission ID: 126088 Session Name: 651. Myeloma: Biology and Pathophysiology, excluding Therapy: Poster III. December 9, 2019

**Clay-Gilmour AI**, Michelle A. Hildebrandt, MA , Camp NJ, Ziv E, Brown E, Hofmann J, Spinelli J, Giles GG, Bhatti P, Cozen, W Wu X, Robinson, D Norman A, Sinnwell J, Kumar S, Rajkumar SJ, SL and Vachon CM. Associations between a polygenic risk score and risk of multiple myeloma and its precursor. Proceedings: AACR Annual Meeting 2019; Session Epidemiology. Abstract 2686: March 29-April 3, 2019; Atlanta, GA. DOI: 10.1158/1538-7445.AM2019-2686 Published July 2019

**Clay-Gilmour AI**, Camp NJ, Wei X, Norman AD, Sinnwell JP, Demangel D, Waller RG, Dumontet C, McKay J, Offit K, Chen S, O'Brien DR, Rajkumar SV, Klein R, Kumar S, Lipkin S, Slager SL and Vachon CM. Large-Scale Linkage Analysis of Multiple Myeloma (MM) and Monoclonal Gammopathy of Undetermined Significance (MGUS) Families. American Society of Hematology. 2018; Atlanta, GA.

Wang J\*, **Clay-Gilmour AI\***, Karaesmen E, Rizvi A, Zhu Q, Yan L, Preus L, Liu, S, Wang Y, Griffiths E, Stram DO, Pooler L, Sheng X, Haiman C, Van Den Berg D, Webb A, Brock G, Spellman S, Pasquini M, McCarthy PA, Allan J, Stölzel F, Onel K, Hahn T, Sucheston-Campbell LE. Genome Wide Association Analyses Identify Pleiotropic Variants Associated with Acute Myeloid Leukemia (AML) and Myelodysplastic Syndrome (MDS) Susceptibility. American Society of Hematology. 2018; Atlanta, GA.

**Clay-Gilmour AI**, O'Brien DR, Achenbach SJ, Vachon CM, Chaffee KG, Call T, Leis JF, Norman AD, Kabat BF, Parikh SA, Kay NE, Braggio E, Cerhan JR and Slager. SL. Rare germline variants segregating in chronic lymphocytic leukemia (CLL) families. Epidemiology, Abstract 1226. Proceedings: AACR Annual Meeting 2018; April 14-18, 2018; Chicago, IL. DOI: 10.1158/1538-7445.AM2018-1226 Published July 2018

Karaesmen E, Rizvi A, Preus L, McCarthy PL, Pasquini M, Singh S, Singh SK, Onel K, Zhu X, Spellman S, Haiman C, Stram DO, Pooler L, Sheng X, Zhu Q, Yan L, Liu Q, Hu Q, Liu S, **Clay-Gilmour A**, Battaglia S, Tritchler D, Hahn T, Sucheston-Campbell LE. Genome-Wide Significant Donor Genetic Associations with Death due to Disease in AML and MDS Patients in the First 1 Year after BMT Are Not Modified By Conditioning Intensity or TBI. Accepted for presentation at BMT Tandem Meeting 2018

Rizvi A, Karaesmen E, Preus L, McCarthy PL, Pasquini M, Singh S, Singh SK, Onel K, Zhu X, Spellman S, Haiman C, Stram DO, Pooler L, Sheng X, Zhu Q, Yan L, Liu Q, Hu Q, Liu S, **Clay-Gilmour A**, Battaglia S, Tritchler D, Hahn T, Sucheston-Campbell LE. Novel genetic associations with day +100 transplant related mortality after HLA- Matched Unrelated Donor Blood and Marrow Transplantation (DISCOVeRY-BMT). BMT-Tandem Meeting 2018

Breitenstein MK\*\*, **Clay AI**, Weinshilboum RM, Nair KS, Kaddurah-Daouk RF, Wang L. (\*\*First and last author) WARS2 implicated as a common modifier of metformin metabolite signals in a biobank cohort. Accepted for presentation at Pacific Symposium on Biocomputing 2017. <https://psb.stanford.edu/previous/psb17/conference-materials/abstractbook.pdf>

**Clay AI**, Rishi A, Kumar S, Rajkumar S, Greenberg A, Larson D, O'Byrne MM, Slager SL, Vachon CM. Risk of Monoclonal Gammopathy of Undetermined Significance (MGUS) in First Degree Relatives of Multiple Myeloma (MM) Cases By Cytogenetic Subtype. Myeloma: Biology and Pathophysiology, excluding Therapy: Poster III. American Society of Hematology; 2016 December 3; San Diego, CA, United States. c00.

**Clay AI**, Hahn T, Zhu Q, Yan Li, Preus Leah, Stram D, Haiman C, Pooler L, Sheng Xin, Onel K, Liu Qian, Hu Q, Liu Song, Zhu X, Spellman S, Pasquini M, McCarthy P, Sucheston-Campbell L. Exome Array Analyses Identify Low-Frequency Germline Variants Associated with Increased Risk of AML in a HLA-Matched Unrelated Donor Blood and Marrow Transplant Population.. Session #: 617. Acute Myeloid Leukemia: Biology, Cytogenetics, and Molecular Markers in Diagnosis and Prognosis: Genomic Discoveries in Myeloid Leukemogenesis. . American Society of Hematology; 2016 December 03; San Diego, CA, United States. c 00 .

Zhu Q, Yan L, Hu Q, Preus L, **Clay AI**, Onel K, Stram D, Pooler L, Sheng X, Haiman C, Zhu X, Spellman S, Pasquini M, McCarthy P, Liu S, Hahn T, Sucheston-Campbell LE. Exome Array Analyses Identify New Genes Influencing Survival Outcomes after HLA-Matched Unrelated Donor Blood and Marrow Transplantation. Session: 732. Clinical Allogeneic Transplantation: Results: Allogeneic HCT: Predictors of Relapse, Non-Relapse Mortality, and Overall Survival. American Society of Hematology; 2016 December 3; San Diego, CA, United States. c00.

Karaesmen E, Rizvi A, Zhu Q, Yan L, Liu Q, Hu Q, Preus L, **Clay AI**, Liu S, Stram D, Pooler L, Sheng X, Haiman C, Zhu X,

Spellman S, Pasquini M, McCarthy P, Hahn T, Sucheston-Campbell LE. Replication of Candidate SNP Survival Analyses and Gene-Based Tests of Association with Survival Outcomes after an Unrelated Donor Blood or Marrow Transplant: Results from the Discovery-BMT Study. Session: 732. Clinical Allogeneic Transplantation: Results: Predicting Outcome. American Society of Hematology; 2016 December 3; San Diego, CA, United States. c00.

**Clay AI**, Hahn T, Preus L, Zhu Q, Yan Li, Liu Q, Hu Q, Liu Song, Ambrosone CB, Zhu X, Haiman C, Stram D, Pooler L, Sheng X, Tritchler D, Battaglia S, Weisdorf D, Spellman S, Pasquini M, McCarthy PM, Onel K, Sucheston-Campbell L. Evidence for Heterogeneous Genetic Associations with Acute Lymphoblastic Leukemia (ALL) By Cytogenetics and Sex in High-Risk Patients Treated with Matched Unrelated Donor Allogeneic Blood or Marrow Transplant (URD-BMT). Session: 618. Acute Lymphoblastic Leukemia: Biology, Cytogenetics and Molecular Markers in Diagnosis and Prognosis: Poster II. American Society of Hematology: Blood 2015: 126:2621; 2015 December 05; Orlando, FL, United States. c 00 .

**Clay AI**, Hahn T, Preus L, Zhu Q, Yan Li, Liu Q, Hu Q, Liu Song, Ambrosone CB, Zhu X, Haiman C, Stram D, Pooler L, Sheng X, Tritchler D, Battaglia S, Weisdorf D, Spellman S, Pasquini M, McCarthy PM, Onel K, Sucheston-Campbell L. The genetic contribution to risk of Acute Lymphoblastic Leukemia (ALL) differs across the lifespan in patients treated with unrelated donor allogeneic hematopoietic cell transplant (URD-HCT). American Society of Human Genetics-Cancer Genetics-2602T. Oct. 6-10, 2015. Baltimore, MD.

Hahn T, Preus L, McCarthy P, Pasquini M, Onel K, Zhu X, Spellman S, Haiman C, Stram D, Pooler L, Sheng X, Zhu Q, Yan L, Liu Q, Hu Q, Liu S, **Clay AI**, Battaglia S, Tritchler D, Sucheston-Campbell LE. Genome-Wide Association Study of Overall and Progression-Free Survival after HLA-Matched Unrelated Donor Blood and Marrow Transplantation (DISCOVeRY-BMT study). Session: 732. Clinical Allogeneic Transplantation: Results: New Insights Into the Biology of Allogeneic Transplantation. American Society of Hematology; 2015 December 5; Orlando, FL, United States. c00.

Sucheston-Campbell LE, Preus L, Pasquini M, McCarthy PL, Onel K, Zhu X, Spellman S, Haiman C, Stram D, Pooler L, Sheng X, Zhu Q, Yan L, Liu Q, Hu Q, Liu S, **Clay AI**, Battaglia S, Tritchler D, Hahn T. Combined Donor and Recipient Non-HLA Genotypes Show Evidence of Genome Wide Association with Transplant Related Mortality (TRM) after HLA-Matched Unrelated Donor Blood and Marrow Transplantation (URD-BMT) (DISCOVeRY-BMT study). Session: 732. Clinical Allogeneic Transplantation: Results I. American Society of Hematology: Blood 2015: 126:61; 2015 December 5; Orlando, FL, United States. c00.

**Clay A**, Peoples B, Ross L, Moysich K, Zhang Y, PL McCarthy, Hahn T. *Patterns of Referral for, and Utilization of, Blood and Marrow Transplantation (BMT) By Race*. The combined annual meetings of CIBMTR and the American Society of Blood and Marrow Transplantation (ASBMT). Abstracts / Biol Blood Marrow Transplant 20. S104eS127. Feb 2014. Grapevine, TX.

**Clay A**, Shellman Y, Norris S. University of Colorado Cancer Research Fellowship Program Third Annual Poster Session. *The effects of inhibiting MEK or PI3K pathways on expressions of the Bcl-2 family members in melanoma cells*. July 2009. Aurora, CO.

## PRE-PRINT SERVER PUBLICATIONS

Wang J\*, **Clay-Gilmour AI\***, Karaesmen E, Rizvi A, Zhu Q, Yan L, Preus L, Liu, S, Wang Y, Griffiths E, Stram DO, Pooler L, Sheng X, Haiman C, Van Den Berg D, Webb A, Brock G, Spellman S, Pasquini M, McCarthy PA, Allan J, Stölzel F, Onel K, Hahn T, Sucheston-Campbell LE. Genome-wide association analyses identify variants in IRF4 associated with Acute Myeloid Leukemia and Myelodysplastic Syndrome susceptibility. Cold Springs Harbor Laboratory. *Biorxiv*: <https://www.biorxiv.org/content/10.1101/773952v1>. doi: <https://doi.org/10.1101/773952>

## PEER REVIEWED PUBLICATIONS (<https://www.ncbi.nlm.nih.gov/myncbi/alyssa.clay.1/bibliography/public/>)

**Clay-Gilmour AI**, Rishi AR, Goldin LR, Greenberg A, Achenbach SJ, Chaffee KG, Maurer MJ, Kay NE, Shanafelt TD, Call TG, Weinberg B, Camp NJ, Cerhan JR, Leis J, Norman A, Rajkumar V, Caporaso N, Landgren O, McMaster ML, Slager SL, Celine M, Vachon CM. Association of elevated serum free light chains with familial Chronic Lymphocytic Leukemia and Monoclonal B cell Lymphocytosis. *Blood Cancer J*. 2019 Aug 5;9(8):59. doi: 10.1038/s41408-019-0220-x. PMID: 31383849

**Clay-Gilmour AI**, Kumar S, Rajkumar SV, Rishi A, Kyle RA, Katzmann JA, Murray DL, Norman AD, Greenberg AJ, Larson DR, O'Byrne MM, Slager SL, Vachon CM. Risk of MGUS in Relatives of Multiple Myeloma Cases by Clinical and Tumor Characteristics. *Leukemia*. 2019 Feb;33(2):499-507. doi: 10.1038/s41375-018-0246-2. Epub 2018 Sep 10. PMID: 30201985

Zhu Q\*, Yan L\*, Liu Q, Zhang C, Wei L, Hu Q, Preus L, **Clay-Gilmour AI**, Onel K, Stram DO, Pooler L, Sheng X, Haiman CA, Zhu X, Spellman SR, Pasquini M, McCarthy PL, Liu S, Hahn T, Sucheston-Campbell LE. Exomechip Analyses Identify Genes Affecting Mortality after HLA-Matched Unrelated Donor Blood and Marrow Transplantation. *Blood*. 2018 Apr 2. pii: blood-2017-11-817973. doi: 10.1182/blood-2017-11-817973. PMID: 29610366

- Sucheston-Campbell LE, **Clay-Gilmour AI**, Barlow WE, Budd GT, Stram DO, Haiman CA, Sheng X, Yan L, Zirpoli G, Yao S, Jiang C, Owzar K, Hershman D, Albain KS, Hayes DF, Moore HC, Hobday TJ, Stewart JA, Rizvi A, Isaacs C, Salim M, Gralow JR, Hortobagyi GN, Livingston RB, Kroetz DL, Ambrosone CB. Genome-Wide Meta-Analyses Identifies Novel Taxane-Induced Peripheral Neuropathy Associated Loci. *Pharmacogenet Genomics*. 2018 Feb; 28 (2):49-55. PMID: 29278617
- Karaesmen E, Rizvi AA, Preus LM, McCarthy PL, Pasquini MC, Onel K, Zhu X, Spellman S, Haiman CA, Stram DO, Pooler L, Sheng X, Zhu Q, Yan L, Liu Q, Hu Q, Webb A, Brock G, **Clay-Gilmour AI**, Battaglia S, Tritchler D, Liu S, Hahn T, Sucheston-Campbell LE. Replication and validation of genetic polymorphisms associated with survival after allogeneic blood or marrow transplant. *Blood*. 2017 Sep 28; 130 (13):1585-1596 Epub 2017 Aug 15. PMID: 28811306.
- Clay-Gilmour AI**, Hahn T, Preus LM, Onel K, Skol A, Hungate E, Zhu Q, Haiman CA, Stram DO, Pooler L, Sheng X, Yan L, Liu Q, Hu Q, Liu S, Battaglia S, Zhu X, Block AM, Sait SNJ, Karaesmen E, Rizvi A, Weisdorf DJ, Ambrosone CB, Tritchler D, Ellinghaus E, Ellinghaus D, Stanulla M, Clavel J, Orsi L, Spellman S, Pasquini MC, McCarthy PL, and Sucheston-Campbell LE. Genetic association with B-cell Acute Lymphoblastic Leukemia in Allogeneic Transplant patients differs by age and sex. *Blood Advances*. 2017 1:1717-1728; doi: <https://doi.org/10.1182/bloodadvances.2017006023>. PMID: 29296818
- Hampras SS, Sucheston-Campbell LE, Cannioto R, Chang-Claude J, Modugno F, Dork T, Hillemanns P, Preus L, Knutson KL, Wallace PK, Hong CC, Friel G, Davis W, Nesline M, Pearce CL, Kelemen LE, Goodman MT, Bandera EV, Terry KL, Schoof N, Eng KH, **Clay A**.....Cunningham JM, Pharoah PP, Ness RB, Odunsi K, Goode EL, Moysich KB. Assessment of variation in immunosuppressive pathway genes reveals TGFBR2 to be associated with risk of clear cell ovarian cancer. *Oncotarget*. 2016 Oct 25; 7 (43): 69097-69110. DOI: 10.18632/oncotarget.10215. PMID: 27533245
- Sucheston-Campbell LE, Cannioto R, **Clay AI**.....Odunsi K, Chang-Claude J, Goode EL, Moysich KB. No evidence that genetic variation in the myeloid-derived suppressor cell pathway influences ovarian cancer survival. *Cancer Epidemiol Biomarkers Prev*. 2017 Mar; 26 (3): 420-424 Epub 2016 Sept 27. pii: cebp.0631.2016. PMID: 27677730
- Clay A**, Peoples B, Zhang Y, Moysich K, Ross L, McCarthy P, Hahn T. Population-Based Analysis of Hematologic Malignancy Referrals to a Comprehensive Cancer Center, Referrals for Blood and Marrow Transplantation, and Participation in Clinical Trial, Survey, and Biospecimen Research by Race. *Biol Blood Marrow Transplant*. 2015 Apr 18. pii: S1083-8791(15)00294-3. PMID: 25899454
- Hahn T\*, Sucheston-Campbell LE\*, Preus L, Zhu X, Hansen JA, Martin PJ, Yan L, Liu S, Spellman S, Tritchler D, **Clay A**, Onel K¥, Pasquini M¥, McCarthy PL¥. Establishment of Definitions and Review Process for Consistent Adjudication of Cause-specific Mortality after Allogeneic Unrelated-donor Hematopoietic Cell Transplantation. *Biol Blood Marrow Transplant*. 2015 May 29. pii: S1083-8791(15)00376-6. PMID: 26028504
- Sucheston-Campbell LE, **Clay A**, McCarthy PL, Zhu Q, Preus L, Pasquini M, Onel K, Hahn T. Identification and utilization of donor and recipient genetic variants to predict survival after HCT: are we ready for primetime? *Curr Hematol Malig Rep*. 2015 Mar;10(1):45-58. PMID: 25700678

\*joint first authors; ¥ joint last authors



## REFERENCES

### **Celine Vachon, PhD**

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E-mail: vachon@mayo.edu

### **Susan Slager, PhD**

Division Chair of Biomedical Statistics & Informatics Health Science Research  
Mayo Clinic  
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E-mail: Slager.Susan@mayo.edu

### **Lara Sucheston-Campbell, MS, PhD**

Associate Professor College of Pharmacy  
College of Veterinary Medicine & Veterinary Biosciences Address: 604 Riffe Building, 496 W. 12th Ave.  
Columbus, OH 43210  
Phone: (614) 688-2502 / Cell: (716) 361-0984  
E-mail: sucheston-campbell.1@osu.edu

### **Theresa Hahn, PhD**

Associate Professor of Oncology Roswell Park Cancer Institute Address: Carlton & Elm Streets  
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