**ALYSSA I. CLAY-GILMOUR, PH.D.**

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**EDUCATION**

Ph.D. Cancer Pathology and Prevention 2011-2016 Emphasis: Genetic Epidemiology / Statistical Genomics

State University of New York-Buffalo (SUNY) / Roswell Park Cancer

Institute, Buffalo, NY

Advisor: Lara Sucheston-Campbell, M.S., Ph.D.

Committee: Theresa Hahn, Ph.D, Christine Ambrosone, Ph.D.,

Philip McCarthy, M.D., Qianqian Zhu, Ph.D.

B.S. Bachelor of Science (B.S.)-Professional Biology 2006-2010

Bachelor of Science (B.S.)-Psychology

Charleston Southern University, Charleston, SC

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**POST-GRADUATE TRAINING**

Postdoctoral Mayo Clinic 2016-2019

Fellowship Division of Epidemiology, Department of Quantitative Health Sciences

Cancer Genetic & Molecular Epidemiology

(R25CA092049/National Cancer Institute)

Advisors: Celine Vachon, Ph.D., Susan Slager, Ph.D.

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**CURRENT ACADEMIC APPOINTMENTS**

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| --- | --- |
| Assistant Professor, Tenure-track, University of South Carolina, Arnold School of Public Health, Department of Epidemiology and Biostatistics, Columbia, SC | 2019- |
| Adjunct Research Appointment, University of South Carolina School of Medicine, Greenville, SC | 2020- |
| Adjunct Research Appointment, Prisma Health, Greenville, SC | 2020- |

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**PROFESSIONAL EXPERIENCE & OTHER ACADEMIC APPOINTMENTS**

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| --- | --- |
| Faculty Member, Institute of Infectious Disease and Translational Research, University of South Carolina, Arnold School of Public Health | 2022- |
| Research Appointment, Department of Veterans Affairs (VA), William Jennings Bryan Dorn Veterans Affairs Medical Center, Columbia, SC (pending) | 2020- |
| Research Professional & Collaborator, Mayo Clinic, Division of Epidemiology, Department of Quantitative Health Sciences, Rochester, MN | 2019- |
| Post-doctoral Fellow, Mayo Clinic, Division of Epidemiology, Department of Quantitative Health Sciences, Rochester, MN *(Advisors: Celine Vachon / Myeloma, Ph.D., Susan Slager, Ph.D. / Leukemia, Statistical Genetics)* | 2016-2019 |
| Graduate Research Assistant, Roswell Park Cancer Institute, Cancer Pathology & Prevention, Buffalo, NY *(Advisors: Lara Sucheston-Campbell / Genetic Epidemiology, Ph.D., Theresa Hahn / Clinical Epidemiology, Leukemia, Blood and Marrow Transplantation, Ph.D., Kirsten Moysich, Ph.D. / Ovarian Cancer)* | 2011-2016 |
| Undergraduate Research Assistant, Charleston Southern University, Charleston, SC *(Advisors: Rachel Walker, Ph.D./ Behavioral Science, Virginia Probin, Ph.D./ Sphingolipid Metabolism)* | 2008-2010 |
| Undergraduate Research Intern, University of Colorado Denver Cancer Center, Aurora, CO *(Advisor: Yiqun Shellman, Ph.D. / Melanoma Prevention-“Effects of inhibiting MEK and PI3K Pathways on expression of BCL-2 family members in melanoma cells”)* | 2009 |

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**HONORS & AWARDS**

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| --- | --- | --- | --- |
| NIH Clinical Research Loan Repayment Award, National Cancer Institute | 2023-2025  2020-2021  2017-2019 |  |  |
| Two Thumbs Up Award, Student Disability Resource Center, University of South Carolina | 2022-2023 |  |  |
| Abstract Achievement Award: 58th American Society of Hematology (ASH) Annual Meeting | 2016 | Adjunct Research Appointment, University of South Carolina School of Medicine, Greenville, SC | 2020- |
| Presidential Fellowship, State University of New York Buffalo | 2011-2015 | Adjunct Research Appointment, Prisma Health, Greenville, SC | 2020- |
| The National Scholar’s Honor Society Alpha Chi | 2009-2010 |  |  |
| The National Honor Society in Psychology Psi Chi | 2009 |  |  |
| Athletic Training Captains Resolve Award / Team Impact Player  Charleston Southern University-Women’s Soccer | 2008 |  |  |
| Charleston-Southern University Division 1 Women’s Soccer Scholarship | 2006-2010 |  |  |
| Presidential Honor Roll / Deans List  Charleston Southern University | 2006-2010 |  |  |
| Charleston Southern University Athletic Letter | 2007-2009 |  |  |

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**PROFESSIONAL SCIENTIFIC SERVICE & LEADERSHIP POSITIONS**

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| --- | --- | --- | --- |
| Co-Director of Data Coordinating Center (DCC) of International Lymphoma Epidemiology Consortium (InterLymph) | 2020- |  |  |
| Member/Organizer of International Lymphoma Epidemiology Consortium (InterLymph) Annual Meeting | 2020-2023 |  |  |
| Co-Chair of International Lymphoma Epidemiology Consortium (InterLymph)  Associate Member Council | 2020-2023 |  |  |
| Chair of Multiple Myeloma Working Group in International Lymphoma Epidemiology  Consortium (InterLymph) | 2020-2021 | Adjunct Research Appointment, University of South Carolina School of Medicine, Greenville, SC | 2020- |
| Member of International Lymphoma Epidemiology Consortium (InterLymph) | 2016- |  |  |
| Member of Genetic Epidemiology of Chronic Lymphocytic Leukemia (GEC) Consortium | 2016- |  |  |
| Member of DISCOVeRY-BMT (Determining the Influence of Susceptibility COnveying Variants Related to one-Year mortality after BMT) study | 2014- |  |  |

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**PEER REVIEW & EDITORIAL EXPERIENCE**

***National Institutes of Health (NIH) Grant Review & Study Sections***

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| --- | --- |
| NIH, Reviewer, Loan Repayment Program (LRP) | 2024  2023  2022 |
| NIH, Reviewer, 2024/01 F08-L (20) Fellowships: Genes, Genomes and Genetics | 2023 |

***Journal editor***

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| --- | --- |
| Guest Editor, *Journal of Translational Genetics and Genomics, Special Edition: Genetics of blood cancers: from etiology to treatment.* | 2020 |

***Ad hoc manuscript review***

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| --- | --- |
| *Acta Oncologica* | *International Journal of Cancer* |
| *Acta Haematologica* | *Leukemia and Lymphoma* |
| *Journal of Cancer Research and Clinical Oncology* | *Cancer Epidemiology, Biomarkers, & Prevention* |
| *Cancer Causes & Control* | *Blood Cancer Journal* |
| *American Journal of Epidemiology* | *Mayo Clinic Proceedings* |
| *PLos One* | *Human Molecular Genetics* |
| *Hematology* | *Biology of Blood and Marrow Transplantation* |
| *Scientific Reports*  *Leukemia* | *Genomics, Proteomics, & Bioinformatics*  *Journal of Stem Cell Therapy and Transplantation* |

***Other Review***

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| --- | --- |
| Abstract Reviewer, Health Science Center Research Showcase at Prisma Health | 2022 |
| Outside Reader, Doctoral Dissertation: Ahmad Alsulimani, Inflammatory Factors and Biomarkers for Epithelial Ovarian Cancer”, State University of New York at Buffalo, Department of Epidemiology, Roswell Park Cancer Institute, Cancer Pathology & Prevention Program | 2020 |

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**INSTITUTIONAL PROFESSIONAL SERVICE**

***University Level***

|  |  |
| --- | --- |
| Senator, Department of Epidemiology & Biostatistics, University of South Carolina | 2022- |
| Faculty Affiliate, Behavioral Biomedical Interface Program (BBIP), University of South Carolina | 2021- |
| Faculty Affiliate, Stamps, Carolina, McNair Scholars Program, University of South Carolina | 2021- |
| Faculty Affiliate, South Carolina Honors College, University of South Carolina | 2021- |

***College Level***

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| Member, Scholastic Standards and Petitions Committee, University of South Carolina | 2021- |

***Department Level***

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| Member, Biostatistics Faculty Search Committee, University of South Carolina | 2023- |
| Member, Bridge to Faculty (B2F) Search Committee, University of South Carolina | 2023- |
| Chair, Exam Committee, Division of Epidemiology, University of South Carolina | 2022- |
| Member, Online MPH Faculty Committee, Division of Epidemiology, University of South Carolina | 2021-2022 |
| Chair-elect, Exam Committee, Division of Epidemiology, University of South Carolina | 2021-2022 |
| Member, Epidemiology Faculty Search Committee, University of South Carolina | 2021-2022 |
| Member, Academic Handbook Revision Committee, Division of Epidemiology, PhD Section, University of South Carolina | 2020-2021 |
| Co-Chair, Department of Epidemiology and Biostatistics Seminar, University of South Carolina | 2020-2021 |
| Grader (Progression/Qualifying Exams), Exam Committee, Division of Epidemiology, University of South Carolina | 2020- |
| Presenter, Admitted Students Day Faculty Research Panel, Division of Epidemiology, University of South Carolina | 2020-2022 |
| Member, Admissions Committee, Division of Epidemiology, University of South Carolina | 2019-2021 |

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**PROFESSIONAL MEMBERSHIPS AND AFFILIATIONS**

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| --- | --- |
| National Center for Faculty Development and Diversity | 2020- |
| University of South Carolina Women | 2019- |
| American Society for Transplantation and Cellular Therapy (ASTCT) | 2019- |
| International Lymphoma Epidemiology Consortium (Interlymph) | 2017- |
| American / European Society of Human Genetics (ASHG / ESHG) | 2014- |
| American Association for Cancer Research (AACR) | 2014- |
| American Society of Hematology (ASH) | 2014- |
| American Association of University Women - Buffalo Branch | 2014-2016 |
| Buffalo-STEM, Women in Science | 2014-2016 |

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**PUBLICATIONS**

***Book Chapters***

1. **Clay-Gilmour AI**, Macauda A, Marinac C, Textbook of Cancer Epidemiology, 4th Edition (Chapter: Multiple Myeloma; Genetic and Molecular Epidemiology). 2024. *In preparation*
2. Wang SS, Duggal P, Wojcik G, **Clay-Gilmour AI**, Beaty TH, Khoury M. Human Genetics: Problems and Approaches (Vogel and Motulsky). Genetic Epidemiology (Chapter 17). 2023. *In Press*

***Publications in peer-reviewed journals (Underlined names indicate student/mentee, \* indicates joint first authors, or last)***

1. **Clay-Gilmour AI**, Cooper J, Wang J, Zhu Q, Pooler L, Sheng X, Haiman C, Spellman SR, Pasquini M, McCarthy P, Brock P, Senter-Jamieson L, Hahn T, Sucheston-Campbell, L. Pathogenic and Likely Pathogenic Germline Variation in Patients with Myeloid Malignancies and Their Unrelated HLA-matched Hematopoietic Stem Cell Donors. Journal of Translational Genetics and Genomics. 2023. *In Press.*
2. Zhao L, **Clay-Gilmour A**, Zhang J, Zhang X, Steck SE. Higher ultra-processed food intake is associated with adverse liver outcomes: a prospective cohort study of UK Biobank participants. Am J Clin Nutr. 2024 Jan;119(1):49-57. doi: 10.1016/j.ajcnut.2023.10.014. Epub 2023 Oct 21. PMID: 37871746.
3. Macauda A, Briem K, **Clay-Gilmour A**, Cozen W, Försti A, Giaccherini M, Corradi C, Sainz J, Niazi Y, Ter Horst R, Li Y, Netea MG, Vogel U, Hemminki K, Slager SL, Varkonyi J, Andersen V, Iskierka-Jazdzewska E, Mártinez-Lopez J, Zaucha J, Camp NJ, Rajkumar SV, Druzd-Sitek A, Bhatti P, Chanock SJ, Kumar SK, Subocz E, Mazur G, Landi S, Machiela MJ, Jerez A, Norman AD, Hildebrandt MAT, Kadar K, Berndt SI, Ziv E, Buda G, Nagler A, Dumontet C, Raźny M, Watek M, Butrym A, Grzasko N, Dudzinski M, Rybicka-Ramos M, Matera EL, García-Sanz R, Goldschmidt H, Jamroziak K, Jurczyszyn A, Clavero E, Giles GG, Pelosini M, Zawirska D, Kruszewski M, Marques H, Haastrup E, Sánchez-Maldonado JM, Bertsch U, Rymko M, Raab MS, Brown EE, Hofmann JN, Vachon C, Campa D, Canzian F. Identification of novel genetic loci for risk of multiple myeloma by functional annotation. Leukemia. 2023 Nov;37(11):2326-2329. doi: 10.1038/s41375-023-02022-8. Epub 2023 Sep 18. PMID: 37723249; PMCID: PMC10624610.
4. Clavero E, Sanchez-Maldonado JM, Macauda A, Ter Horst R, Sampaio-Marques B, Jurczyszyn A, **Clay-Gilmour A**, Stein A, Hildebrandt MAT, Weinhold N, Buda G, García-Sanz R, Tomczak W, Vogel U, Jerez A, Zawirska D, Wątek M, Hofmann JN, Landi S, Spinelli JJ, Butrym A, Kumar A, Martínez-López J, Galimberti S, Sarasquete ME, Subocz E, Iskierka-Jażdżewska E, Giles GG, Rybicka-Ramos M, Kruszewski M, Abildgaard N, Verdejo FG, Sánchez Rovira P, da Silva Filho MI, Kadar K, Razny M, Cozen W, Pelosini M, Jurado M, Bhatti P, Dudzinski M, Druzd-Sitek A, Orciuolo E, Li Y, Norman AD, Zaucha JM, Reis RM, Markiewicz M, Rodríguez Sevilla JJ, Andersen V, Jamroziak K, Hemminki K, Berndt SI, Rajkumar V, Mazur G, Kumar SK, Ludovico P, Nagler A, Chanock SJ, Dumontet C, Machiela MJ, Varkonyi J, Camp NJ, Ziv E, Vangsted AJ, Brown EE, Campa D, Vachon CM, Netea MG, Canzian F, Försti A, Sainz J. Polymorphisms within Autophagy-Related Genes as Susceptibility Biomarkers for Multiple Myeloma: A Meta-Analysis of Three Large Cohorts and Functional Characterization. Int J Mol Sci. 2023 May 9;24(10):8500. doi: 10.3390/ijms24108500. PMID: 37239846; PMCID: PMC10218542.
5. Cabrera-Serrano AJ, Sánchez-Maldonado JM, Ter Horst R, Macauda A, García-Martín P, Benavente Y, Landi S, **Clay-Gilmour A**, Niazi Y, Espinet B, Rodríguez-Sevilla JJ, Pérez EM, Maffei R, Blanco G, Giaccherini M, Cerhan JR, Marasca R, López-Nevot MÁ, Chen-Liang T, Thomsen H, Gámez I, Campa D, Moreno V, de Sanjosé S, Marcos-Gragera R, García-Álvarez M, Dierssen-Sotos T, Jerez A, Butrym A, Norman AD, Luppi M, Slager SL, Hemminki K, Li Y, Berndt SI, Casabonne D, Alcoceba M, Puiggros A, Netea MG, Försti A, Canzian F, Sainz J. Do GWAS-Identified Risk Variants for Chronic Lymphocytic Leukemia Influence Overall Patient Survival and Disease Progression? Int J Mol Sci. 2023 Apr 28;24(9):8005. doi: 10.3390/ijms24098005. PMID: 37175717; PMCID: PMC10178669.
6. Haycock PC, Borges MC, Burrows K, Lemaitre RN, Burgess S, Khankari NK, Tsilidis KK, Gaunt TR, Hemani G, Zheng J, Truong T, Birmann BM, OMara T, Spurdle AB, Iles MM, Law MH, Slager SL, Saberi Hosnijeh F, Mariosa D, Cotterchio M, Cerhan JR, Peters U, Enroth S, Gharahkhani P, Le Marchand L, Williams AC, Block RC; ACCC; CCFR-CORECT-GECCO; EPITHYR; **InterLymph (Clay-Gilmour, AI);** MMAC; ECAC; ILCCO; PRACTICAL Consortium; PanScan; PanC4; Amos CI, Hung RJ, Zheng W, Gunter MJ, Smith GD, Relton C, Martin RM; Fatty Acids in Cancer Mendelian Randomization Collaboration. The association between genetically elevated polyunsaturated fatty acids and risk of cancer. EBioMedicine. 2023 May;91:104510. doi: 10.1016/j.ebiom.2023.104510. Epub 2023 Apr 20. PMID: 37086649; PMCID: PMC10148095.
7. Gregory K, Zhao L, Felder TM, **Clay-Gilmour A**, Eberth JM, Murphy EA, Steck SE. Prevalence of health behaviors among cancer survivors in the United States. J Cancer Surviv. 2023 Mar 18:1–9. doi: 10.1007/s11764-023-01347-8. Epub ahead of print. PMID: 36933085; PMCID: PMC10024006.
8. Dicanio M, Giaccherini M, **Clay-Gilmour A**, Macauda A, Sainz J, Machiela MJ, Rybicka-Ramos M, Norman AD, Tyczyńska A, Chanock SJ, Barington T, Kumar SK, Bhatti P, Cozen W, Brown EE, Suska A, Haastrup EK, Orlowski RZ, Dudziński M, Garcia-Sanz R, Kruszewski M, Martinez-Lopez J, Beider K, Iskierka-Jazdzewska E, Pelosini M, Berndt SI, Raźny M, Jamroziak K, Rajkumar SV, Jurczyszyn A, Vangsted AJ, Collado PG, Vogel U, Hofmann JN, Petrini M, Butrym A, Slager SL, Ziv E, Subocz E, Giles GG, Andersen NF, Mazur G, Watek M, Lesueur F, Hildebrandt MAT, Zawirska D, Ebbesen LH, Marques H, Gemignani F, Dumontet C, Várkonyi J, Buda G, Nagler A, Druzd-Sitek A, Wu X, Kadar K, Camp NJ, Grzasko N, Waller RG, Vachon C, Canzian F, Campa D. A pleiotropic variant in DNAJB4 is associated with multiple myeloma risk. Int J Cancer. 2023 Jan 15;152(2):239-248. doi: 10.1002/ijc.34278. Epub 2022 Oct 1. PMID: 36082445; PMCID: PMC9828677.
9. Earle A, Bessonny M, Benito J, Huang K, Parker H, Tyler E, Crawford B, Khan N, Armstrong B, Stamatikos A, Garimella S, **Clay-Gilmour A**. Urinary Exosomal MicroRNAs as Biomarkers for Obesity-Associated Chronic Kidney Disease. J Clin Med. 2022 Sep 7;11(18):5271. doi: 10.3390/jcm11185271. PMID: 36142918; PMCID: PMC9502686.
10. Macauda A\*, **Clay-Gilmour A\***, Hielscher T, Hildebrandt MAT, Kruszewski M, Orlowski RZ, Kumar SK, Ziv E, Orciuolo E, Brown EE, Försti A, Waller RG, Machiela MJ, Chanock SJ, Camp NJ, Rymko M, Raźny M, Cozen W, Várkonyi J, Piredda C, Pelosini M, Belachew AA, Subocz E, Hemminki K, Rybicka-Ramos M, Giles GG, Milne RL, Hofmann JN, Zaucha JM, Vangsted AJ, Goldschmidt H, Rajkumar SV, Tomczak W, Sainz J, Butrym A, Watek M, Iskierka-Jazdzewska E, Buda G, Robinson DP, Jurczyszyn A, Dudziński M, Martinez-Lopez J, Sinnwell JP, Slager SL, Jamroziak K, Reis RMV, Weinhold N, Bhatti P, Carvajal-Carmona LG, Zawirska D, Norman AD, Mazur G, Berndt SI, Campa D, Vachon CM, Canzian F. Does a Multiple Myeloma Polygenic Risk Score Predict Overall Survival of Patients with Myeloma? Cancer Epidemiol Biomarkers Prev. 2022 Sep 2;31(9):1863-1866. doi: 10.1158/1055-9965.EPI-22-0043. PMID: 35700034.
11. García-Martín P, Díez AM, Maldonado JMS, Serrano AJC, Ter Horst R, Benavente Y, Landi S, Macauda A, **Clay-Gilmour A**, Hernández-Mohedo F, Niazi Y, González-Sierra P, Espinet B, Rodríguez-Sevilla JJ, Maffei R, Blanco G, Giaccherini M, Puiggros A, Cerhan J, Marasca R, Cañadas-Garre M, López-Nevot MÁ, Chen-Liang T, Thomsen H, Gámez I, Moreno V, Marcos-Gragera R, García-Álvarez M, Llorca J, Jerez A, Berndt S, Butrym A, Norman AD, Casabonne D, Luppi M, Slager SL, Hemminki K, Li Y, Alcoceba M, Campa D, Canzian F, de Sanjosé S, Försti A, Netea MG, Jurado M, Sainz J. Validation and functional characterization of GWAS-identified variants for chronic lymphocytic leukemia: a CRuCIAL study. Blood Cancer J. 2022 May 17;12(5):79. doi: 10.1038/s41408-022-00676-8. PMID: 35581176; PMCID: PMC9114372.
12. **Clay-Gilmour A**, Chattopadhyay S, Hildebrandt MAT, Thomsen H, Weinhold N, Vodicka P, Vodickova L, Hoffmann P, Nöthen MM, Jöckel KH, Schmidt B, Langer C, Hajek R, Hallmans G, Pettersson-Kymmer U, Ohlsson C, Späth F, Houlston R, Goldschmidt H, Manasanch EE, Norman A, Kumar S, Rajkumar SV, Slager S, Försti A, Vachon CM, Hemminki K. Genome-wide meta-analysis of monoclonal gammopathy of undetermined significance (MGUS) identifies risk loci impacting IRF-6. Blood Cancer J. 2022 Apr 13;12(4):60. doi: 10.1038/s41408-022-00658-w. PMID: 35418122; PMCID: PMC9007981.
13. Lin WY, Fordham SE, Hungate E, Sunter NJ, Elstob C, Xu Y, Park C, Quante A, Strauch K, Gieger C, Skol A, Rahman T, Sucheston-Campbell L, Wang J, Hahn T, **Clay-Gilmour AI**, Jones GL, Marr HJ, Jackson GH, Menne T, Collin M, Ivey A, Hills RK, Burnett AK, Russell NH, Fitzgibbon J, Larson RA, Le Beau MM, Stock W, Heidenreich O, Alharbi A, Allsup DJ, Houlston RS, Norden J, Dickinson AM, Douglas E, Lendrem C, Daly AK, Palm L, Piechocki K, Jeffries S, Bornhäuser M, Röllig C, Altmann H, Ruhnke L, Kunadt D, Wagenführ L, Cordell HJ, Darlay R, Andersen MK, Fontana MC, Martinelli G, Marconi G, Sanz MA, Cervera J, Gómez-Seguí I, Cluzeau T, Moreilhon C, Raynaud S, Sill H, Voso MT, Lo-Coco F, Dombret H, Cheok M, Preudhomme C, Gale RE, Linch D, Gaal-Wesinger J, Masszi A, Nowak D, Hofmann WK, Gilkes A, Porkka K, Milosevic Feenstra JD, Kralovics R, Grimwade D, Meggendorfer M, Haferlach T, Krizsán S, Bödör C, Stölzel F, Onel K, Allan JM. Author Correction: Genome-wide association study identifies susceptibility loci for acute myeloid leukemia. Nat Commun. 2022 Jan 4;13(1):2. doi: 10.1038/s41467-021-27679-6. Erratum for: Nat Commun. 2021 Oct 29;12(1):6233. PMID: 34983928; PMCID: PMC8727612.
14. Huang K, Garimella S, **Clay-Gilmour A,** Vojtech L, Armstrong B, Bessonny M, Stamatikos A. Comparison of Human Urinary Exosomes Isolated via Ultracentrifugation Alone versus Ultracentrifugation Followed by SEC Column-Purification. J Pers Med. 2022 Feb 24;12(3):340. doi: 10.3390/jpm12030340. PMID: 35330340; PMCID: PMC8950278.
15. Lal A, Pike JFW, Polley EL, Huang S, Sanni M, Hailat T, Zimmerman S, **Clay-Gilmour A**, Bruce TF, Marcus KR, Roudebush WE, Chosed RJ. Comparison of RNA content from hydrophobic interaction chromatography-isolated seminal plasma exosomes from intrauterine insemination (IUI) pregnancies. Andrologia. 2022 Mar;54(2):e14325. doi: 10.1111/and.14325. Epub 2021 Nov 27. PMID: 34837240.
16. Hahn T, Wang J, Preus LM, Karaesmen E, Rizvi A, **Clay-Gilmour AI**, Zhu Q, Wang Y, Yan L, Liu S, Stram DO, Pooler L, Sheng X, Haiman CA, Berg DVD, Webb A, Brock G, Spellman SR, Onel K, McCarthy PL, Pasquini MC, Sucheston-Campbell LE. Novel genetic variants associated with mortality after unrelated donor allogeneic hematopoietic cell transplantation. EClinicalMedicine. 2021 Aug 25;40:101093. doi: 10.1016/j.eclinm.2021.101093. PMID: 34746714; PMCID: PMC8548922.
17. **Clay-Gilmour AI\*,** Wang J\*, 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. Frontiers of Genetics. 2021 Jun 17;12:554948. doi: 10.3389/fgene.2021.554948. eCollection 2021. PMID: 34220922
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4. Collection of Genome-wide associations studies from InterLymph Consortium (authorship positions under discussion, \*lead author of MM, WM, and DLBCL, U01).
   1. Genome-wide association study in Mantle Cell Lymphoma. *In Progress*
   2. **Genome-wide association study in Waldenström's Macroglobulinemia (WM). *In Progress***
   3. Genome-wide association study in Follicular Lymphoma (FL). *In Progress*
   4. Genome-wide association study in Chronic Lymphocytic Leukemia (CLL). *In Progress*
   5. Genome-wide association study in Burkitt’s Lymphoma (BL). *In Progress*
   6. **Genome-wide association study in Diffuse-Large B-Cell (DLBCL). *In Progress***
   7. **Genome-wide association study in Multiple Myeloma (MM). *In Progress***
   8. Genome-wide association study in Hodgkin’s Lymphoma (HL) *In Progress*
5. Earl A, Shah P, Sucheston-Campbell L, Zhu Q, Hahn T, **Clay-Gilmour, AI.** Uncovering the genetic susceptibility of exceptional survivors of acute leukemia who received unrelated hematopoietic stem cell transplantation (HSCT) and their unrelated donors. *In progress*
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Macauda A, **Clay-Gilmour A**, Giaccherini M, Dicanio M, Sainz J, Vachon C, Campa D, Canzian F, on behalf of the IMMEnSE consortium and InterLymph MM working group. “Pleiotropy scan on multiple myeloma susceptibility and survival”. InterLymph Annual Consortium Meeting, Sept 2020. Salt Lake City, UT. *(Oral)* 7. Lal A, Wolfe LG, Shull T, Brandt AP, Collins CM, Khalil SK, Zimmerman S, Chang TA, Robinson RD, Wininger JD, Roudebush WE, **Clay-Gilmour A**, Chosed RJ. Altered expression of genes involved in JAK-STAT, adipocytokine, and toll-like receptor signaling pathways are detected in blastocoel fluid conditioned media from euploid embryos with positive implantation outcomes. The American Society of Reproductive Medicine. 2020. Fertility and Sterility, 114(3), e356-e357. doi.org/10.1016/j.fertnstert.2020.08.1062 *(Poster)* 8. Philip C Haycock, Carolina Borges, Rozenn N. Lemaitre, Stephen Burgess, Kimberly Burrows, Paul Newcombe, Chang Xuling, Jason Westra, Nathan Tintle, Nikhil Khankari, Kostas Tsilidis, Tom Gaunt, Gib Hemani, Jie Zheng, Mattias Johansson, Paul Brennan, Terri Rice, Tracy OMara, Amanda Spurdle, 23andMe, Genetics and Epidemiology of Colorectal Cancer Consortium (GECCO), The Glioma International Case-Control Study/MD Anderson Cancer Center study (GICC/MDA), The International Lung Cancer Consortium (ILCCO), Kidney Cancer Risk (KIDRISK), **InterLymph,** The Pancreatic Cancer Cohort Consortium (PanScan), Singapore Chinese Health Study (SCHS), San Francisco Bay Area Adult Glioma Study (SF AGS), San Francisco-Mayo glioma study (UCSF Mayo), B cell non-Hodgkin lymphoma group, Bladder cancer group, Cervical cancer group, Childhood acute lymphoblastic leukemia group, Esophageal adenocarcinoma group, Hepatocellular carcinoma group, Hodgkin’s lymphoma group, Malignant pleural mesothelioma group, Melanoma group, Meningioma group, **Multiple myeloma group (Clay-Gilmour A),** Neuroblastoma group, Thyroid cancer group, Upper gastrointestinal cancers group, uveal melanoma group, Chris Amos, George Davey Smith, Ann Williams, Rayjean J. Hung, Wei Zheng, Marc Gunter\*, Caroline Relton\*, Richard Martin\*. “A Mendelian randomization study of fatty acid biosynthesis pathways and risk of 30 cancers in 483,563 cases & 1,554,649 controls.” American Society of Human Genetics (ASHG). 2020. *(Poster)* 9. Binder M, **Clay-Gilmour AI**, Norman AD, Slager SL, Rajkumar SV, Kumar SK, Vachon CM. Germline Predictor of Immune dysregulation in multiple myeloma. European Hematology Association: 1639. 13. Myeloma and other monoclonal gammopathies - Biology & Translational Research. Frankfurt, Germany from June 11 - 14, 2020. *(Poster)* 10. Smith W, Allison Bellomo A, \*Cull E, Saha A\*, **Clay-Gilmour, A\*.** A Retrospective Review of Referral Rates for Genetic Screening of AYA Patients Diagnosed with Myeloid Malignancies and Aplastic Anemia. American Society of Transplantation and Cellular Therapy. Accepted in 2019, presented Feb. 2020. Orlando, FL. doi.org/10.1016/j.bbmt.2019.12.613 *(Poster)* 11. Roter K, Hu D, **Clay-Gilmour A**, Huntsman S, Shah N, Wong S, Martin T, Wolf J, Binder M, Kumar S, Rajkumar V, Slager S, Vachon C, Ziv E. (2019). Germline Variation Predicts Treatment Response in Multiple Myeloma. Blood. 134. 4397-4397. 10.1182/blood-2019-129344. *(Poster)* |
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| 1. **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. *(Poster)* |
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| 1. 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. *(Poster)* |
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| 1. Sucheston-Campbell LE, Preus L, Spellman S, Pasquini MC, McCarthy PL, Onel K, Zhu X, Haiman C, Stram DO, Pooler L, Sheng X, Zhu Q, Yan L, Liu Q, Hu Q, Liu S, **Clay A**, Battaglia S, Hahn TE. Functional single nucleotide polymorphisms (SNPs) in the major histocompatibility complex (MHC) class II region are associated with overall survival (OS) after HLA matched…Biology of Blood and Marrow Transplantation 22 (3), S72-S73. doi.org/10.1016/j.bbmt.2015.11.365 *(Oral)* |
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| 1. 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. doi.org/10.1182/blood.V128.22.71.71 *(Oral)* |
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| 1. **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. *(Poster)* |
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| 1. 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. doi.org/10.1182/blood.V126.23.397.397 *(Oral)* |
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| 1. 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. doi.org/10.1182/blood.V126.23.61.61 *(Oral)* |
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| 1. **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. doi.org/10.1016/j.bbmt.2013.12.158 *(Poster)* |
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| 1. **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. *(Poster)* |

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**INVITED TALKS & MODERATOR ROLES**

***Internal***

1. “Genetic Epidemiology & Infectious Disease”. University of South Carolina, Center of Infectious Disease. Columbia, SC. 2024
2. Extending Genome Wide Association Studies of Multiple Myeloma to Elicit Clues to Etiology”. University of South Carolina, Department of Epidemiology & Biostatistics Seminar. Columbia, SC. 2019
3. “Research Overview and Collaborations”. Prisma Health Embedded Research Meeting. Virtual. Greenville, SC. 2021. *(Invited Talk)*
4. “Research Overview”. Prisma Health: Biomedical Science Faculty Seminar. Virtual. 2020 *(Invited Talk)*
5. “ Genetic Epidemiology & Epigenetics to Inform Clinical Practice”. Prisma Health: Health Science Research Seminar. Virtual. 2020 *(Invited Talk)*
6. “Adult-Acute Lymphoblastic Leukemia Registry”. Mayo Clinic: Acute Leukemia / MDS Clinical Disease Orient Group Meeting. Rochester, MN. 2017 *(Invited Talk)*
7. “Genetic association with B-cell Acute Lymphoblastic Leukemia in Allogeneic Transplant patients differs by age and sex”. Roswell Park Cancer Institute-Institutional Science Retreat. Geneseo, NY. 2016 *(Invited Talk)*

***External***

1. “Transcriptome-wide association study in Chronic Lymphocytic Leukemia”. InterLymph Annual Meeting 2024. Genetics Working Group. Stillwater, MN. June 2024. *(Invited Talk)*
2. “Implications for PRS in MGUS”. 20th Annual Genetic Epidemiology of CLL (GEC) Meeting 2023:

Precancer in lymphoid malignancies: risk, clinical outcomes, and comorbidities. Fairmont Le Chateau Frontenac, Quebec City, Quebec Canada. November 13-15, 2023. *(Invited Talk)*

1. “Lessons Learned: UK Biobank from a Lymphoma Perspective & UKBB-CanR Package”. InterLymph Annual Meeting 2023. Pathology & Survival Working Group. World Health Organization (WHO) in Lyon, France. Monday June 12, 2023. *(Invited Talk)*
2. “Publicly Available Genomic Datasets in Lymphoma”. InterLymph Annual Meeting: Associate Member Council Session. Virtual. June 2022. *(Invited Talk & Session Moderator)*
3. International Lymphoma Epidemiology Consortium (InterLymph) Annual Meeting 2022. Sessions: Associate Member Council & Myeloma Working Group. Virtual. June 2022. *(Sessions Moderator)*
4. “COVID-19 Variants”. American College Health Association. Virtual. 2021 *(Invited Talk)*
5. “InterLymph Multiple Myeloma Working Group”. IMMEnSE Virtual Meeting 2021 *(Invited Talk)*
6. “CoMMpass Data”. International Lymphoma Epidemiology Consortium (InterLymph). Myeloma Working Group Monthly Meeting. Virtual. 2020 *(Invited Talk)*
7. “Associations between a polygenic risk score and risk of multiple myeloma and its precursor”. American Association of Cancer (AACR) Research Conference. Mini Symposium Session Title: Exposures and Genetics in Cancer Risk. Atlanta, Georgia. 2019 *(Invited Talk)*
8. Extending Genome Wide Association Studies of Multiple Myeloma to Elicit Clues to Etiology”. 60th Annual American Society Hematology Conference: Molecular Epidemiology Workshop. San Diego, California. 2018 *(Invited Talk)*
9. “Linkage analysis in Multiple Myeloma Families from the Multiple Myeloma Family Working Group”. Family Genetics Workshop: The Ohio State University. Columbus, OH. 2018 *(Invited Talk)*
10. International Lymphoma Epidemiology Consortium (InterLymph) Annual Meeting 2018. Session: Working Group. Virtual. June 2018. *(Session Co-Moderator)*
11. “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”. 58th American Society of Hematology (ASH) Annual Meeting and Exposition. San Diego, CA. 2016 *(Invited Talk)*
12. “Large-scale linkage analysis of Multiple Myeloma Families”. Multiple Myeloma Family Consortium Meeting. Amelia Island, FL. 2016. *(Invited Talk)*
13. “Genetic association with B-cell Acute Lymphoblastic Leukemia in Allogeneic Transplant patients differs by age and sex”. University of Chicago-Department of Medicine Seminar. Invited by: Dr. Ken Onel. Chicago, IL. 2016 *(Invited Talk)*
14. “Genetic association with B-cell Acute Lymphoblastic Leukemia in Allogeneic Transplant patients differs by age and sex”. Mayo Clinic Division of Epidemiology Seminar. Invited by: Dr. Celine Vachon. Rochester, MN. 2016 *(Invited Talk)*
15. “Genetic association with B-cell Acute Lymphoblastic Leukemia in Allogeneic Transplant patients differs by age and sex”. National Human Genome Research Institute (NHGRI). Invited by: Dr. Joan Bailey-Wilson. Baltimore, MD. 2016 *(Invited Talk)*
16. “Genetic association with B-cell Acute Lymphoblastic Leukemia in Allogeneic Transplant patients differs by age and sex”. University of Southern California Seminar. Invited by: Dr. Chris Haiman. Los Angeles, CA. 2016 *(Invited Talk)*
17. “Genetic association with B-cell Acute Lymphoblastic Leukemia in Allogeneic Transplant patients differs by age and sex”. The Ohio State University Byrd Lab Seminar. Invited by: Dr. John Byrd. Columbus, OH. 2016 *(Invited Talk)*

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**TEACHING**

***Courses taught at The University of South Carolina***

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| Fundamentals of Genetic Epidemiology (EPID 777; 3 Credit) | 2021- |
| Fundamentals of Epidemiology (EPID 701; 3 Credit) | 2020- |
| Epidemiology Doctoral Seminar (EPID 845A; 1 Credit) | 2020 |

***Guest lectures***

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| Advanced Analytic Methods in Epidemiology (EPID 801), Topic: Mendelian randomization, University of South Carolina, Graduate | 2024  2023 |
| Grant Writing and Review Panel (EPID 802), Topic: The Art of Writing Successful Grants, University of South Carolina, Graduate/EPID | 2023 |
| Cancer Epidemiology (746), Topic: Hematologic Malignancies, University of South Carolina, Graduate | 2023  2022 |
| Infectious Disease Epidemiology (EPID 349), Topic: Genetic Epidemiology, University of South Carolina, Undergraduate | 2022  2021  2020 |
| Public Health Surveillance (EPID 730), Topic: Genomics, University of South Carolina, Undergraduate | 2021 |
| Principles of Epidemiology (EPID 410), Topic: Genetic Epidemiology, University of South Carolina, Undergraduate | 2020  2019 |
| Cellular Biophysics (BPR 577), Topic: Genome-wide association studies, Roswell Park Cancer Center, Graduate | 2015 |
| Fundamentals of Genetic Epidemiology (SPM 604), Topic: Genome-wide Association Studies, Social and Preventive Medicine, State University of New York at Buffalo, Graduate | 2014 |

***Other teaching experience***

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| InSciEd Out, Speed Date a Scientist, Mayo Clinic, Middle School | 2016-2019 |
| Cancer Pathology & Prevention Epidemiology Preliminary Exam, Roswell Park Cancer Institute, Graduate | 2013-2016 |

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**MENTORSHIP & ADVISING**

***Dissertation Committee Chair***

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| --- | --- |
| Nadine El Kalach, University of South Carolina | 2024- |
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| Pankhil Shah, PhD, Epidemiology, University of South Carolina | 2021- |
| Angel Earle, PhD, Epidemiology, University of South Carolina | 2020- |
| Brittany Crawford, PhD (awarded), BBIP Trainee, Epidemiology, University of South Carolina | 2020-2023 |

***Master’s Thesis Committee Chair***

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| --- | --- |
| Nadine El Kalach, MS, Epidemiology, University of South Carolina | 2022-2024 |
| Hannah Dice, MS, Epidemiology, University of South Carolina | 2022-2024 |
| Avery Ulrich, MS (awarded), Epidemiology, University of South Carolina | 2020-2022 |

***Undergraduate Thesis Committee Chair and/or Mentor***

|  |  |
| --- | --- |
| Ella Masek, BS, Recipient of Honors College Research Grant & Magellan Scholar Award (2023-2024), Honors College, University of South Carolina | 2022- |
| Paige Beans, BS (awarded), Honors College, University of South Carolina | 2021-2023 |
| Morgan Aitchison, BS (awarded), Honors College, University of South Carolina | 2022-2023 |
| Samantha Go, BS (awarded), Honors College, University of South Carolina | 2021-2022 |
| Sophia Valeo, BS (awarded), Magellan Scholar, University of South Carolina | 2020-2022 |
| Nabeeha Khan, BS (awarded), Honors College, University of South Carolina | 2020-2022 |
| Madison Bessonny, BS (awarded), Exercise Science, University of South Carolina | 2019-2020 |

***Doctoral Dissertation Committee Member***

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| --- | --- |
| Maxwell Akonde, PhD, Epidemiology, University of South Carolina | 2022- |
| Prema Bhattachari, PhD (awarded), Epidemiology, University of South Carolina | 2021-2024 |
| Longgang Zhao, PhD (awarded), Epidemiology, University of South Carolina | 2021-2023 |
| Hancong Tang, PhD (awarded), Pharmaceutical Sciences, The Ohio State University | 2020-2022 |

***Masters Thesis Committee Member***

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| --- | --- |
| Daba Seck, MS, Epidemiology, University of South Carolina | 2022-2024 |

***Teaching Practicum Mentor***

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| Aisha Alkandari, EPID 701, University of South Carolina | 2024 |
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| Ali Alshayhan, EPID 701, University of South Carolina | 2024 |
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| Jessica Sainyo, EPID 701, University of South Carolina | 2023 |
| Angel Earle, EPID 701, University of South Carolina | 2022 |
| Kyndall Breuller, EPID 701, University of South Carolina | 2021 |
| Samual Gavi, EPID 701, University of South Carolina | 2021 |
| Daniel Brown, EPID 701, University of South Carolina | 2020 |
| Kokou (Elom) Volley, EPID 701, University of South Carolina | 2020 |

***Clinical Fellow Research Mentor***

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| Wes Smith, DO, Prisma Health Residency Program | 2019-2022 |

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**RESEARCH FUNDING (Grants and Contracts)**

***Current-External***

Title: U01: Impact of Genetic susceptibility along the continuum from MGUS to MM (MPIs: Vachon, Brown, Chui)

Date: 5/01/2022 - 04/30/2027

Funder: NIH/NCI

Award Number: U01-CA271014

Total Cost: $154,569

Role: Co-PI

Objectives: To identify the genetic variations that predispose individuals to development of MGUS and those that are associated with increased risk of progression to MM and understand how these differ based on race, in order to help inform a targeted screening approach that in the long run will allow earlier intervention and eventual prevention of active MM.

Title: U01: InterLymph Consortium: interrogating pleiotropy and gene by environment interactions among hematopoietic malignancies. (MPI: Clay-Gilmour, McKay, Wang, Hjalgrim)

Date: 7/1/2021-6/30/2026

Funder: NIH/NCI

Award Number: U01-CA257679

Total Cost: $549,127

Role: PI

Objectives: The major goals of this project are to leverage the InterLymph Consortium genotyping and phenotyping data to perform the largest genetic variants association studies with risk and gene-environment interactions of lymphoma subtypes to date.

Title: R01: Multi-ethnic high-throughput study to identify novel non-HLA genetic contributors to mortality after blood and marrow transplantation (MPI: Hahn, Zhu, Clay-Gilmour)

Date: 8/1/2021-7/31/2026

Funder: NIH/NCI

Award Number: R01-CA262899

Total Cost: $593,025

Role: PI

Objectives: The major goals of this project are to deepen our understanding of non-HLA genetic contributors to BMT mortality and to build the clinical-genomic prognostic models to translate such understanding into clinical practice.

Title: Loan Repayment Program Grant: Genetic Epidemiology of B-cell Malignancies: Identification of Pleiotropy and Shared Heritability.

Date: 7/1/2023-11/1/2024

Funder: NIH / Loan Repayment Program Renewal (Clinical-External)

Award Number: 2 L30 CA220780-03A1

Total Cost: $25,000

Role: PI

Objectives: Genetic epidemiology of B-cell malignancies, focusing on the identification of pleiotropy and shared heritability.

***Current-Internal***

Title: The University of South Carolina Infectious Disease Translational Research Center (PI: Nolan)

Date: 08/15/2023 - 08/15/2027

Funder: USC Office of the Vice President for Research

Award Number: 115200-23-63111 (USCera)

Total Cost: $2,000,000

Role: Co-I

Title: Assessment of platelet activating factor’s impact on gene expression during sea urchin embryo development

Date: 09/01/2023 - 08/31/2024

Funder: SC INBRE

Award Number: 160000-23-64578 (USCera)

Total Cost: $10,000

Role: Co-PI

Objectives: to assess the impact of PAF on gene transcription during early embryo development by using Lytechinus variegatus, the short spined sea urchin.

Title: University of South Carolina Honors College Research Grant: Ella Masek (Undergraduate Student)

Date: 5/2023-5/2024

Funder: University of South Carolina Honors College

Award Number: G43644863

Total Cost: $3000

Role: Principal Investigator (PI)

Objectives: This project is focused on the shared association between lymphomas, myelomas, and diabetes. Specifically, targeting shared genetic variants contributing to a polygenic susceptibility model.

***Completed-External***

Title: Loan Repayment Program Grant: Genetic Epidemiology of Exceptional Survivors with Acute Leukemia who received blood and marrow transplantation

Date: 07/01/2020 - 06/30/2021

Funder: NIH / Loan Repayment Program Renewal (Clinical-External)

Award Number: 2L30CA220780-02

Total Cost: $43,054.02

Role: PI

Objectives: Elucidate novel genetic variants associated with inherited genetic predisposition to exceptional survivors compared to poor survivors.

Title: Analysis of COVID-19 in Prisma Health staff and patients: Monitoring the virus landscape and progression

Date: 05/15/2020 - 12/31/2021

Funder: University of South Carolina: The Office of Research: COVID-19 Research Initiative

Award Number: 111100-20-54068 (USCera)

Total Costs: $25,000

Role: Co-I

Objectives: COVID-19 viral monitoring of genetic landscape and disease progression.

Prisma Health System Transformative Research Grant

Title: Prisma Health System CCDR Seed Grant: Changes in exosomal urinary MicroRNA expression in obese children as an early biomarker for chronic kidney disease

Date: 04/01/2020 - 03/31/2021

Funder: Prisma Health System

Award Number: 115200-20-52738 (USCera)

Total Costs: $20,000

Role: PI (MPI: Clay-Gilmour, Garimella)

Objectives: Identify changes in exosomal urinary microRNA expression in obese pediatric population with chronic kidney disease- a collaboration with USC, Prisma, & Clemson.

Title: Prisma Health System CCDR Seed Grant: Clinical applicability of proposed algorithm for hematologic genetic screening of patients diagnosed with myeloid malignancies and aplastic anemia in a community-based hospital

Date: 03/02/2020 - 03/31/2021

Funder: Prisma Health System

Award Number: 115200-20-52736 (USCera)

Total Costs: $20,000

Role: PI (MPI: Cull, Saha, Clay-Gilmour)

Objectives: Utilize in clinic survey designed to screen for predisposition and risk of myeloid malignancies and aplastic anemia in Prisma health system.

Title: Loan Repayment Program Grant: Examining family history and genetic variants contributing to risk, etiology, and heredity of Multiple Myeloma (MM) and Monoclonal Gammopathy of Undetermined Significance (MGUS)

Date: 07/01/2017 - 06/30/2019

Funder: NIH / Loan Repayment Program Renewal (Clinical-External)

Award Number: 1L30CA220780-01

Total Costs: $70,000

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

Objectives: Study genetic and molecular epidemiology of Multiple Myeloma and MGUS (precursor disease).

Title: Mayo Clinic in the Cancer Genetic and Molecular Epidemiology training program (R25)

Date: 5/2016-7/2019

Funder: NIH/NCI

Award Number: 5R25CA092049-12

Total Costs for Budget Period: N/A

Role: Trainee

***Completed-Internal***

Title: Magellan Journey Award: Ella Masek (Undergraduate Student)

Date: 9/2022

Funder: University of South Carolina- Office of Research

Award Number: G43644863

Total Cost: $1000

Role: Principal Investigator (PI)

Objectives: This project is focused on the shared association between lymphomas, myelomas, and diabetes. Specifically, targeting shared genetic variants contributing to a polygenic susceptibility model.

Title: Magellan Award: Sophia Valeo (Undergraduate Scholar Award)

Date: 5/2021-5/2022

Funder: University of South Carolina

Award Number: 115200-21-57171 (USCera)

Total Cost: $2700

Role: Principal Investigator (PI)

Objectives: Genetic association of Thalassemia germline variants on the risk of Acute Myeloid Leukemia.

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**MEDIA**

1. Carolina News and Reporter: “Coronavirus variant detected in SC; vaccines still effective”. Feb 4, 2021. *https://carolinanewsandreporter.cic.sc.edu/coronavirus-variant-detected-in-sc-vaccines-still-effective/*
2. Spotlight Story: ASPPH Friday Newsletter- Member Story. 2020. *https://aspph.cmail20.com/*
3. WIS News 10: “What experts are learning about COVID-19”. 2020. *https://www.wistv.com/2020/05/12/what-experts-are-learning-about-covid-/*
4. University of South Carolina: New Faculty Highlight: “Genetic epidemiologist Alyssa Clay-Gilmour joins Greenville campus, bolstering Arnold School’s cancer expertise”. 2019. *https://www.sc.edu/study/colleges\_schools/public\_health/about/news/2019/alyssa\_clay-gilmour.php#.XycDPhNKgpY*
5. The Myeloma Beacon- “Researchers Shed More Light On Risk Of MGUS In Close Relatives Of People With Multiple Myeloma”. 2018. *https://myelomabeacon.org/news/2018/10/09/risk-of-mgus-in-close-relatives-of-multiple-myeloma-patients/*

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**PROFESSIONAL DEVELOPMENT AND CERTIFICATIONS**

***Internal***

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| 1. “Mental Health and Well-being Competency Certificate”: Courses: Support Zone Training Part 1, Support Zone Training Part 2, Resilience in the Classroom, Recovery Ally. Center of Teaching Excellence, University of South Carolina | 2024 |
| 1. “Addressing Common Violations”, Center for Teaching Excellence , University of South Carolina | 2023 |
| 1. “Overcoming Apathy & Maintaining Student Motivation”, Center for Teaching Excellence , University of South Carolina | 2023 |
| 1. University of South Carolina: Research Computing Workshops | 2021-2024 |
| 1. “Preventing Harassment and Discrimination”: Supervisors with Title IX/Clery Module. University of South Carolina | 2021 |
| 1. Carolina On-line Learning and Teaching (COLT) Program certificate. Center for Teaching Excellence. University of South Carolina. | 2020 |
| 1. Big Data Workshop: University of South Carolina | 2020 |
| 1. NIH Boot Camp: Arnold School of Public Health, University of South Carolina | 2019 |

***External***

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| 1. DNANexus: Series of webinars; UK Biobank Research Analysis Platform | 2023- |
| 1. InterLymph Associate Member Council Webinars | 2023- |
| 1. American Society of Hematology Scientific Workshop (Remote) | 2020 |
| 1. CIHR Institute of Gender and Health-Sex and Gender in Primary Data Certification | 2020 |
| 1. HIPAA Regulation Training | 2020- |
| 1. CITI Biomedical Responsible Conduct of Research | 2020- |
| 1. CITI Human Research (social/behavioral/humanistic) | 2020- |
| 1. EMR Health Record Training | 2020- |
| 1. New Faculty Academy | 2019- |
| 1. Family Genetics Workshop- The Ohio State University | 2018 |
| 1. AACR Integrative Molecular Epidemiology Workshop | 2017-2019 |
| 1. AACR Annual Meeting Grant Writing Workshop | 2017 |
| 1. Writing for Biomedical Publication, CCaTS Annual Workshop, Mayo Clinic, Rochester, MN | 2017 |
| 1. American Society of Hematology: Integrative Clinical and Molecular Epidemiology of Hematologic Malignancies | 2016-2017 |
| 1. CCaTS: Writing a Winning Grant Workshop, Mayo Clinic, Rochester, MN | 2016 |
| 1. 4th Short Course: Next-Generation Sequencing: Technology & Statistical Methods: University of Alabama Birmingham | 2014 |
| 1. Advanced Gene Mapping Course, The Rockefeller University | 2013 |
| 1. OICR Advanced Topics in Genome-Wide Association Studies Workshop, University of Toronto | 2013 |
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