

CURRICULUM VITAE

I. Samantha E. Greenberg, M.S., M.P.H., CGC

University of Texas Southwestern Medical Center

Assistant Professor, Health Care Services

Samantha.greenberg@UTSouthwestern.edu

II. EDUCATION

Degrees	Institutions	Dates
Ph.D.	University of Utah (Nursing)	2020- Present
M.P.H.	University of Michigan, (Health Behavior and Health Education)	2013-2016
M.S.	University of Michigan (Genetic Counseling)	2013-2016
B.S.	University of Michigan, (Neuroscience, Honors)	2007-2011

III. PROFESSIONAL EXPERIENCE

1. Academic:

Assistant Professor, University of Texas Southwestern Medical Center,
01/01/2023-Present

Faculty I, University of Utah Program in Genetic Counseling,
01/01/2017 - 06/30/2023

Adjunct Professor, University of Utah Population Health Services
01/01/2022-06/30/2023

Adjunct Professor, University of Utah Internal Medicine (Oncology)
11/01/2021-06/30/2023

2. Administrative:

Director, Genetic Counseling Program, UT Southwestern Medical Center, School
of Health Professions, 2023 - Present

Genetic Counselor Liaison, Genetic Counseling Assistant Team, Huntsman
Cancer Institute, 2018 - 2020

Lead Genetic Counselor and Coordinator, Hereditary Paraganglioma Clinic Co-
director, Pheo Para Alliance accredited Center of Excellence Huntsman Cancer
Institute, 2018 – 2022

Lead Genetic Counselor, High Risk Prostate Clinic, Huntsman Cancer

Institute, 2017 – 2022

Lead Genetic Counselor, Von Hippel Lindau VHLA-Accredited Comprehensive Cancer Center, Huntsman Cancer Institute, 2016 – 2020

3. Hospital/Clinical

Genetic Counselor, UT Southwestern Medical Center, 2023-present

Genetic Counselor II, University of Utah, 2019 – 2022

Genetic Counselor I, University of Utah, 2016 – 2019

IV. CERTIFICATION OR BOARD STATUS

American Board of Genetic Counseling, Certified, 08/15/2016 – 12/31/2026

V. LICENSES

State of Utah DOPL: State License - Genetic Counselor, 2016 - 2024

VI. RESEARCH AND SCHOLARSHIP

1. Research Grants and Contracts

Active Grants

01/09/2023-Present- Assessing Genetic and Urologic providers thoughts on renal screening recommendations for individuals with a family history of renal cancer
National Society of Genetic Counselors Cancer Special Interest Group Award
\$1,625 Role: Co-investigator

06/30/2022-Present (Involvement ended 12/31/2022) - Establishing infrastructure to research individuals with personal and familial risk for paraganglioma
Huntsman Cancer Institute Head and Neck Cancer Center
\$35,000 Role: Co-Principal Investigator

Past Grants

06/30/19 – 06/30/2022 - Evaluating novel approaches to germline genetic evaluation in men with prostate cancer

Huntsman Cancer Institute Genitourinary Cancer Centers
\$25,000 Role: Principal Investigator

04/01/19 – 03/31/2023 - Expanded Genome-Wide Association Studies of Renal Cell

Carcinoma
National Cancer Institute
Role: Co-Investigator

05/01/17 - 05/30/18 - Men's knowledge of prostate cancer genetics: What do they want to do now? Huntsman Cancer Institute, GU Cancer Center, \$9900
Role: Principal Investigator

Past Contracts

08/04/20 – 12/31/2022 - Inherited genetic variation and penetrance of Hereditary Paranglioma-Pheochromocytoma Syndrome
National Cancer Institute Role:
Co-Investigator

11/30/20 - 09/29/21 Utah Prostate Cancer Genomics Workgroup
\$25,000 Utah Department of Health
Role: Co-Principal Investigator

2. Other Scholarly Activities and Creative Achievements

a. Graduate Student Committees

2022-Present - Member, Emma Fosbinder, University of Utah Graduate Program in Genetic Counseling, Information Priorities in Pediatric Neurofibromatosis Type I

2021-2023 - Member, Carley Knudsen, Northwestern University, Knowledge and Perceptions of Individuals with Prostate cancer on genetic counseling and testing

2021 – 2023 - Member, Yanete Rodriguez, University of Utah Graduate Program in Genetic Counseling, Identifying helpful resources to improve the communication of cascade screening for Lynch syndrome: patient and genetic counselor perspectives

2021 – 2023 - Chair, Kara Eckberg, University of Utah Graduate Program in Genetic Counseling, SDHx variant type as a predictor of tumor risk in hereditary pheochromocytoma paraganglioma syndrome

2021 – 2023 - Chair, Samantha Beck, University of Utah Graduate Program in Genetic Counseling, The Impact of Geography and Service Delivery on Prostate Cancer Genetic Counseling

2021 – 2022 - Member, Breanne Prindeville, Northwestern University, What African American Males with Prostate Cancer Want to Learn Regarding Genetic Counseling and Testing

2019 – 2020 - Chair, Amy Whitburn, University of Utah, Factors in Screen Adherence Across the Developmental Lifespan for Individuals with Hereditary Cancer Syndromes

2018 – 2019 - Chair, Ambreen Khan, University of Utah, Barriers and Facilitators to the Implementation of Alternative Service Delivery Models in Genetic Counseling Practice: a qualitative analysis

2017 – 2018 - Member, Nicole Stopa, University of Utah, Thesis title: What do you want to know about Prostate Cancer Genetics?

2017 – 2018 - Member, Rachel Holman, University of Utah, Clinical and Molecular Predictors of Malignancy in Carriers of SDHx Mutations

VII. PUBLICATIONS

1. Referred journals

1. Eckberg, K. S., Patel, N. S., Eddington, D., Naumer, A., & **Greenberg, S. E.** (2023). Evaluating Patterns of SDHx Tumor Presentation by Gene and Variant Type: A Retrospective Analysis of a Large Clinical Cohort. *JCO Precision Oncology*, 7, e2300262.
2. Tooker EL, Wiggins RH 3rd, Espahbodi M, Naumer A, Buchmann LO, **Greenberg SE**, Patel NS. The Natural History of Observed SDHx-Related Head and Neck Paragangliomas Using Three-Dimensional Volumetric Tumor Analysis. *Otol Neurotol*. 2023 Aug 16. doi: 10.1097/MAO.0000000000003989. Epub ahead of print. PMID: 37590887
3. Foley M, Sharma A, Garfield K, Maese L, Buchmann L, Boyle J, Kohlmann W, Jeter J, **Greenberg SE**. A need to tailor surveillance based on family history: describing a highly penetrant familial paraganglioma kindred with an SDHD pathogenic variant. *Fam Cancer*. 2023 Apr;22(2):217-224. doi: 10.1007/s10689-022-00318-9. Epub 2022 Oct 12. PubMed PMID: 36223042.
4. Harper JB, **Greenberg SE (shared first)**, Hunt TC, Cooney KA, O'Neil BB. Initial outcomes and insights from a novel high-risk prostate cancer screening clinic. *Prostate*. 2023 Feb;83(2):151-157. doi: 10.1002/pros.24447. Epub 2022 Oct 7. PubMed PMID: 36207779; PubMed Central PMCID: PMC9772159.
5. Pauley K, Koptiuch C, **Greenberg S**, Kohlmann W, Jeter J, Colonna S, Werner T, Kinsey C, Gilcrease G, Weis J, Whisenant J, Florou V, Garrido-Laguna I. Discrepancies between tumor genomic profiling and germline genetic testing. *ESMO Open*. 2022 Aug;7(4):100526. doi: 10.1016/j.esmoop.2022.100526. Epub 2022 Jul 1. PubMed PMID: 35780590; PubMed Central PMCID: PMC9511791.
6. Maxwell KN, Cheng HH, Powers J, Gulati R, Ledet EM, Morrison C, Le A, Hausler R, Stopfer J, Hyman S, Kohlmann W, Naumer A, Vagher J, **Greenberg SE**, Naylor L, Laurino M, Konnick EQ, Shirts BH, AlDubayan SH, Van Allen EM, Nguyen B, Vijai J, Abida W, Carlo MI, Dubard-Gault M, Lee DJ, Maese LD, Mandelker D, Montgomery B, Morris MJ, Nicolosi P, Nussbaum RL, Schwartz LE, Stadler Z, Garber JE, Offit K, Schiffman JD, Nelson PS, Sartor O, Walsh MF, Pritchard CC (2021).

- Inherited TP53 Variants and Risk of Prostate Cancer. *Eur Urol*.
7. **Greenberg SE**, Holman R, Kohlmann W, Buchmann L, Naumer A (2021). Paraganglioma and other tumour detection rates in individuals with SDHx pathogenic variants by age of diagnosis and after the age of 50. *Clin Endocrinol (Oxf)*, 95(3), 447-452.
 8. **Greenberg S**, Hunt T, Ambrose J, Lowrance W, Dechet C Tward J, O'Neil B (2021). Clinical Germline Testing Results of Men with Prostate Cancer: Patient- level Factors and Implications of NCCN Guideline Expansion. *JCO Precis Oncol*.
 9. **Greenberg SE**, Hunt TC, Ambrose JP, Lowrance WT, Dechet CB, O'Neil BB, Tward JD (2021). Clinical Germline Testing Results of Men With Prostate Cancer: Patient-Level Factors and Implications of NCCN Guideline Expansion. *JCO Precis Oncol*, 5.
 10. Khan A, Cohen S, Weir C, **Greenberg S** (2021). Implementing innovative service delivery models in genetic counseling: a qualitative analysis of facilitators and barriers. *J Genet Couns*, 30(1), 319-328.
 11. Boothe E, **Greenberg S**, Delaney CL, Cohen SA (2021). Genetic counseling service delivery models: A study of genetic counselors' interests, needs, and barriers to implementation. *J Genet Couns*, 30(1), 283-292.
 12. **Greenberg SE**, Jacobs MF, Wachtel H, Anson A, Buchmann L, Cohen DL, Bonanni M, Bennett B, Naumer A, Schaefer AM, Kohlmann W, Nathanson KL, Else T, Fishbein L (2020). Tumor detection rates in screening of individuals with SDHx-related hereditary paraganglioma-pheochromocytoma syndrome. *Genet Med*, 22(12), 2101-2107.
 13. **Greenberg SE**, Boothe E, Delaney CL, Noss R, Cohen SA (2020). Genetic Counseling Service Delivery Models in the United States: Assessment of changes in use from 2010 to 2017. *J Genet Couns*, 29(6), 1126-1141.
 14. **Greenberg S**, Slager S, Neil BO, Cooney K, Maughan B, Stopa N, Venne V, Zickmund S, Colonna S (2020). What men want: Qualitative analysis of what men with prostate cancer (PCa) want to learn regarding genetic referral, counseling, and testing. *Prostate*, 80(5), 441-450.
 15. Boyle JL, Hahn AW, Kapron AL, Kohlmann W, **Greenberg SE**, Parnell TJ, Teerlink CC, Maughan BL, Feng BJ, Cannon-Albright L, Agarwal N, Cooney KA (2020). Pathogenic Germline DNA Repair Gene and HOXB13 Mutations in Men With Metastatic Prostate Cancer. *JCO Precis Oncol*, 4 .
 16. Miller I, **Greenberg S**, Yashar BM, Marvin ML (2020). Improving access to cancer genetic services: perspectives of high-risk clients in a community-based setting. *J Community Genet*, 11(1), 119-123.
 17. **Greenberg S**, Buys SS, Edwards SL, Espinel W, Fraser A, Gammon A, Hafen B, Herget KA, Kohlmann W, Roundy C, Sweeney C (2019). Population prevalence of individuals meeting criteria for hereditary breast and ovarian cancer testing. *Cancer Med*, 8(15), 6789-6798.
 18. McCrary HC, Babajanian E, Calquin M, Carpenter P, Casazza G, Naumer A, **Greenberg S**, Kohlmann W, Cannon R, Monroe MM, Hunt JP, Buchmann L (2019). Characterization of Malignant Head and Neck Paragangliomas at a Single Institution Across Multiple Decades. *JAMA Otolaryngol Head Neck Surg*, 145(7), 641-646.
 19. Ponte A, **Greenberg S**, Greendale K, Senier L (2019). Moving the Needle on Action Around Evidence-Based Screening for Hereditary Conditions: Preparing State Chronic

Disease Directors to Advance Precision Public Health. *Public Health Rep*, 134(3), 228-233.

20. **Greenberg S**, Yashar BM, Pearlman M, Duquette D, Milliron K, Marvin M (2019). Evaluating and improving the implementation of a community-based hereditary cancer screening program. *J Community Genet*, 10(1), 51-60.
21. Martin C, Leiser CL, O'Neil B, Gupta S, Lowrance WT, Kohlmann W, **Greenberg S**, Pathak P, Smith KR, Hanson HA (2018). Familial Cancer Clustering in Urothelial Cancer: A Population-Based Case-Control Study. *J Natl Cancer Inst*, 110(5), 527-533.
22. Gupta S, **Greenberg S**, Grimmitt J, Gaston D, Agarwal N, Lowrance W, Schiffman J, Kohlmann W (2017). Inherited DNA repair gene mutations detected by tumor next generation sequencing in urinary tract cancers. *Fam Cancer*, 16(4), 545-550.

2. Non-refereed publications

Greenberg, S; Tward, J; O'Neil, B (2019). Germline variants in Highly Selected Patients with Prostate Cancer [Letter to the editor]. *JAMA Oncol*, 5(9), 1368-1369.

Rathi N, Anderson N, **Greenberg S**, Vagher J, Agarwal N, Hahn AW (2018). DNA Damage Repair (DDR) Mutations and the Utility of High-Risk Genetics Clinics in Metastatic Castration-Refractory Prostate Cancer (mCRPC). *World J Oncol*, 9(4), 119-122.

3. Chapters in Books

Greenberg, S; Maughan, B; Maese, L. (2021). Von Hippel-Lindau. In *Cassidy and Allanson's Management of Genetic Syndromes* Wiley.

Else T, **Greenberg S**, Fishbein L (2018, 2023). Hereditary Paraganglioma-Pheochromocytoma Syndromes. <https://www.ncbi.nlm.nih.gov/books/NBK1548/>. In Adam MP, Ardinger HH, Pagon RA, et al. (Eds.), *GeneReviews* Seattle: University of Washington.

4. Other:

- a. Published scientific reviews
- b. Abstracts
 1. **Greenberg S**, Yashar B, Pearlman M, Duquette D, Milliron K, Marvin M. Community-Based cancer genetics: Evaluating the Planned Parenthood System. Poster presentation at National Society of Genetic Counselors Annual Education Conference. Pittsburgh, PA. October, 2015
 2. **Greenberg S**, Miller IM, Yashar B, Pearlman M, Duquette D, Milliron K, Marvin M. Client Perspectives on the Utilization of Genetic Services in a Community- Based Hereditary Cancer Screening Program. Poster presentation at National Society of Genetic Counselors Annual Education Conference. Seattle, WA. September, 2016.

3. **Greenberg S**, Yashar B, Pearlman M, Duquette D, Milliron K, Marvin M. Clinician education as a vehicle for improving high risk women's path to genetic counseling: The impact of educational interventions in a community health setting. Platform presentation at National Society of Genetic Counselors Annual Education Conference. Seattle, WA. September, 2016
4. Modell S, **Greenberg S**, Kumerow M. Impact of Health Care Reform on Cancer Genetic Services for Marginalized Groups—A Policy-Based Assessment. Poster presentation at American Public Health Association, 2017
5. Ponte A, **Greenberg S**, Greendale K, Senier L. Moving the needle on action around Tier 1 conditions: Knowledge and interest in genomics among state and territorial Chronic Disease Directors. Poster presentation at American Public Health Association 2017.
6. Hanson H, Leiser C, Martin C, O'Neil B, Lowrance W, Gupta S, Kohmann W, **Greenberg S**, Smith K, Camp N. Classifying Bladder Cancer for Population Health Surveillance Using Genealogies and the Exposome. Poster presentation at Population Association of America conference 2017.
7. Hahn A, Kapron A, Boyle J, Kohlmann W, Poole A, Gill D, **Greenberg S**, Hale P, Maughan B, Cannon-Albright L, Agarwal N, Cooney K. Prevalence of clinically actionable germline pathogenic variants (PVs) in advanced prostate cancer (aPC)
. Awarded best poster during presentation at European Society of Medical Oncology, 2018.
8. Holman, R, **Greenberg S**, Naumer A, Kohlmann W, Buchmann L, Monroe M. Evidence for the continuation of surveillance practices for SDHx-mutation carriers after the age of 50. Poster presentation at National Society of Genetic Counselors Annual Conference, 2018
9. **Greenberg S**, Slager S, Zickmund S, Colonna S. Perspectives on information desired during genetics evaluation: A qualitative analysis of men with prostate cancer. Poster presentation at National Society of Genetic Counselors Annual Conference, 2018
10. **Greenberg S**, Noss R, Cohen S. Changes in Service Delivery Model Use among genetic counselors from 2010 to 2017. Poster presentation at National Society of Genetic Counselors Annual Conference, 2018
11. **Greenberg S**, O'Neil B, Cooney K, Pappas LM, Tward J. Clinical characteristics of men with prostate cancer and evaluation of NCCN prostate cancer guidelines on germline genetic testing outcomes. Poster presentation for Genitourinary malignancy ASCO meeting, 2019
12. McCrary H, Carpenter P, Babajanian E, Naumer A, **Greenberg S**, Kohlmann W, Cannon R, Monroe M, Hunt J, Buchmann L. Characterization of malignant paragangliomas of the head and neck: a multi-decade experience of a single institution. Oral presentation for Combined Otolaryngology Spring Meeting, 2019
13. **Greenberg S**, Tward, J, Cooney K, Pappas LM, O'Neil B. Germline genetic testing in men with prostate cancer: clinical characteristics and testing outcomes in a newly indicated population. Poster at American Urological Association, 2019
14. Eckstein, S, Maese L, Bollo R, Gammon A, **Greenberg S**, Cheshier S, Whipple N. Atypical

teratoid rhabdoid tumor in a newborn: diagnosis by germline testing. Poster presentation for American Society of Pediatric Hematology/Oncology, 2019

15. **Greenberg, S**, Jacobs, MF, Wachtel, H, Anson A, Bennett B, Bonanni M, Buchmann L, Cohen DL, Kohlmann W, Nathanson KL, Naumer A, Schaefer A, Else T, Fishbein L. Tumor detection rates using standard screening protocols in patients with SDHx pathogenic variants. Poster presentation, North American Neuroendocrine Tumor Society, 2019
16. **Greenberg, S**, Jacobs, MF, Wachtel, H, Anson A, Bennett B, Bonanni M, Buchmann L, Cohen DL, Kohlmann W, Nathanson KL, Naumer A, Schaefer A, Else T, Fishbein L. Tumor detection rates using standard screening protocols in patients with SDHx pathogenic variants. Poster presentation, National Society of Genetic Counselors Annual Conference, 2019
17. Hunt T, **Greenberg S**, Ambrose J, Tward J, O'Neil B. Clinical characteristics of men with prostate cancer and evaluation of NCCN prostate cancer guidelines on germline genetic testing outcomes. Poster presentation for Genitourinary malignancy ASCO meeting, 2020
18. Hunt, T. C., **Greenberg, S. E.**, Ambrose, J. P., O'Neil, B. B., & Tward, J. D. (2020). Patient-level factors are not associated with improved identification of germline pathogenic variants in men with prostate cancer. Poster presentation for American Urological Association 2020
19. **Greenberg, S**, Jacobs, MF, Wachtel, H, Anson A, Bennett B, Bonanni M, Buchmann L, Cohen DL, Kohlmann W, Nathanson KL, Naumer A, Schaefer A, Else T, Fishbein L. Tumor detection rates using standard screening protocols in patients with SDHx pathogenic variants. Poster presentation at American Society of Clinical Oncology, 2020
20. Mazzone, A, Hunt, TC, Harper J, **Greenberg SE**, O'Neil B. Psychological Effect of Prostate Cancer Screening in Patients with Pathogenic Variants. Poster presentation, American Urological Association Western Section Meeting, 2020
21. Hunt TC, Mazzone A, Harper J, **Greenberg SE**, O'Neil B. Outcomes of High-Risk Prostate Cancer Screening in Men with DNA Repair Pathogenic Variants or Strong Family History. Oral presentation, American Urological Association Western Section Meeting, 2020
22. Whitburn, A, Naumer A, Kohlmann W, Wu YP, **Greenberg SE**. Factors in Screen Adherence Across the Lifespan in Individuals with Rare Hereditary Cancer Syndromes. Poster presentation, NSGC Annual conference 2020
23. **Greenberg SE**, Buchmann L, Naumer A, Kohlmann W, Garfield K, Sharma A. Description of a SDHD c.129G>A (p.W43X) mutation with variable presentation in multiple family members. Poster presentation, ENDO Society conference 2021
24. **Greenberg, S.**, Woelmer, E., Devlin, M., Low, S., Anson, A., Kohlmann, W., Wong, B., Neil, B. O., Dechet, C. B., Sanchez, A., Tward, J. D., Johnson, S. B., Agarwal, N., Kohli, M., Gupta, S., Swami, U., & Maughan, B. L. Impact of pretest video genetic education in prostate cancer patients: Do patients need us? Poster presentation at GU ASCO Annual meeting, 2022 https://doi.org/10.1200/JCO.2022.40.6_suppl.068
25. **Greenberg, S.**, Woelmer, E., Devlin, M., Low, S., Anson, A., Kohlmann, W., Wong, B., Neil,

- B. O., Dechet, C. B., Sanchez, A., Tward, J. D., Johnson, S. B., Agarwal, N., Kohli, M., Gupta, S., Swami, U., & Maughan, B. L. Impact of pretest video genetic education in prostate cancer patients: Do patients need us? International Prostate Cancer Update, Grand Rounds Urology 2022
26. McCrary HC, Dunkleberger M, Naumer A, **Greenberg SE**, Patel N, Buchmann L. Patterns of disease in patients with multiple paragangliomas and an SDHx mutation. American Head and Neck Society Conference Poster presentation, 2022
 27. **Greenberg, SE**, Zoyamp N, Anson J, Brand S, Buchmann L, Kohlmann W, Low S, Wong B, Else T, Vaidya A, Fishbein L. Impact of COVID-19 on individuals with paraganglioma/pheochromocytoma history and/or hereditary risk. American Society of Clinical Oncology Conference Poster presentation, 2022
 28. Prindeville, B; Duquette, D; Szymaniak, B; **Greenberg, SE**; Murphy AB; Ross A. “Hope at a Better Chance”: Perspectives on Genetic Counseling and Testing Among Black Individuals with Prostate Cancer. National Society of Genetic Counselors Annual Conference 2022, Poster presentation
 29. Beck, S; Orlando, E; Low, S; Bly, J; Anson, J; Gammon, A; Wong, B; Maughan, BL; Tward, J; **Greenberg, SE**. The impact of geography on prostate cancer patient uptake of video-based genetic counseling education. National Society of Genetic Counselors Annual Conference 2022, Poster presentation
 30. Eckberg, K; Patel, N; Naumer, A; **Greenberg, SE**. Distribution of variants and tumor presentation in hereditary pheochromocytoma paraganglioma syndrome. National Society of Genetic Counselors Annual Conference 2022, Poster presentation
 31. **Greenberg, S.**, Orlando, E., Devlin, M., Low, S., Anson, A., O Neil, B., ... & Maughan, B. L. (2022). Comparing pretest video genetic education for prostate cancer patients: Do patients need assistance?. Poster presentation at GU ASCO Meeting 2022. *Journal of Clinical Oncology* 2022 40:16_suppl, 5061
 32. Moody, E., Larson, M., **Greenberg, S.**, Jump, T., Bell, M., Gygi, J., ... & Gill, D. M. (2022). Impact of provider education on prostate cancer genetic counseling referrals. Poster presentation at GU ASCO Meeting 2022. *Journal of Clinical Oncology* 2022 40:6_suppl, 59
 33. Beck, S., Tward, J. D., Gammon, A., & **Greenberg, SE**. (2023). Geographical impact on prostate cancer genetic testing eligibility: A preliminary study from an academic cancer center. *Journal of Clinical Oncology* 2023 41:16_suppl, 10618
 34. Kohlmann, W., Pauley, K., Naumer, A., **Greenberg, S.**, Stevenson, N., Ellis, K., ... & Sutherland, N. (2023). P083: Incidental findings in FH and SDHA genes: Navigating cancer risk assessment and follow-up recommendations. Poster Presentation, American College of Medical Genetics Annual Meeting 2023. *Genetics in Medicine Open*, 1(1).

35. Eckberg, K., Patel, N., Naumer, A., & **Greenberg, S.** (2023). P051: Distribution of variants and tumor presentation in pediatric patients diagnosed with hereditary pheochromocytoma paraganglioma syndrome. Poster Presentation, American College of Medical Genetics Annual Meeting 2023. *Genetics in Medicine Open*, 1(1).
 36. Eckberg, K., Patel, N., Naumer, A., & **Greenberg, S.** (2023). P051: A retrospective descriptive analysis of tumor presentation and variant data in a large SDHx clinical cohort. Poster presentation, National Society of Genetic Counselors Annual Conference 2023
- c. Editorials, position papers, background papers

Jacobs MF, **Greenberg SE.** Prostate Cancer Genomic Testing: When Sequencing Is Not Sufficient and Germline Testing Is Necessary. *European Urology*. 2023 Jan;83(1):39-40. DOI: 10.1016/j.eururo.2022.09.016. PMID: 36208965.

Greenberg SE, Jacobs MF (2022). Continuing the Evolution of Germline Genetics in Prostate Cancer: Tailoring Testing To Enhance Patient Care. *Eur Urol*.

Greenberg SE, Cloyes KG, O’Neil B. (2021). Germline Genetics in Prostate Cancer: Amidst a paradigm shift. *Urol Oncol*.

Additional media

2023 Byrne, L and **Greenberg, SE.** Perspectives in Genetic Counseling Magazine: Utilizing Small Peer Groups to Address the Evolution of Clinical Practice. <https://perspectives.nsgc.org/Article/utilizing-small-peer-groups-to-address-the-evolution-of-clinical-practice>

2020 **Greenberg S** and Boothe, E. Perspectives in Genetic Counseling Magazine: A Committee’s Adventures to Learning About, and Learning to Love, Credentialing. 2020

2019 **Greenberg S.** Positive Impact of Genetic Test on the Management and Outcome of Patients With Paraganglioma and/or Pheochromocytoma. PracticeUpdate website. 2019

2018 Media release, National Society of Genetic Counselors Annual Conference 2018: Men with Prostate Cancer Benefit from Genetic Counseling

2018 **Greenberg, S** and Cohen, S. Perspectives in Genetic Counseling Magazine: Alternative Service-Delivery Models to Address Unintended Consequences of Cascade Testing Innovations

2015 Modell, S; Mathew E; **Greenberg S:** Status Report: Oncogenomic testing in the Wake of Health Care Reform, *Annals of Public Health Research*

2015 **Greenberg, S.** Perspectives in Genetic Counseling Magazine:

viii. TEACHING ACTIVITIES

1. Course participation:
 - a. Within department
 - b. Intradepartmental/School/University
 - c. Other teaching, activities

Course Instructor

Spring 2023 PI, H GEN H GEN-6503: Clinical Cancer Genetic, 10 students, University of Utah, School of Medicine

Spring 2022 PI, H GEN H GEN-6503: Clinical Cancer Genetic, 10 students, University of Utah, School of Medicine

Spring 2021 PI, H GEN H GEN-6503: Clinical Cancer Genetic, 9 students, University of Utah, School of Medicine

Spring 2020 PI, H GEN H GEN-6503: Clinical Cancer Genetic, 8 students, University of Utah, School of Medicine

Spring 2019 PI, H GEN H GEN-6503: Clinical Cancer Genetic, 8 students, University of Utah, School of Medicine

Spring 2018 PI, H GEN H GEN-6503: Clinical Cancer Genetic, 7 students, University of Utah, School of Medicine

Spring 2017 PI, H GEN H GEN-6503: Clinical Cancer Genetic, 7 students, University of Utah, School of Medicine

Spring 2016 Head Graduate Student Instructor, BIO305: Introduction to Genetics, 300 students, University of Michigan, Biology, Introduction to Genetics

Fall 2015 Graduate Student Instructor, BIO232: Biology and Society, 45 students, University of Michigan, Biology, Honors graduate seminar

Didactic Lectures

2023-Present 'Aligning Professional Identity and Educational Approaches', Applied Clinical Research: Teaching and Learning in Healthcare Education

2020 - 2021 Genitourinary Cancer Mock Tumor Board Case Presentation and Discussion, M1 Class, School of Medicine, University of Utah

2017 - 2022 Lecturer, Clinical Orientation for University of Utah Genetic Counseling Students, ‘Goal-Setting and Reflection: What does it look like in my rotations?’

2017 - Present Lecturer, Genetic Counseling Seminar IV: “Public Health in Genetic Counseling Part 2” and “Digital Networking 101”

2016 - Present Lecturer, Genetic Counseling Seminar I: “Public Health in Genetic Counseling Part 1”

d. Contributions to continuing education

National contributions to continuing education (conferences, webinars, etc)

Genitourinary cancer presentations

2021 Leveraging stakeholders to create multi-disciplinary care teams for hereditary RCC, Educational Breakout Session, National Society of Genetic Counselors Annual Conference

Paranglioma/SDHx presentations

2023 Case Café: Hereditary paraganglioma; Ambry Genetics

2022 Identification and Management of Hereditary Paranglioma/Pheochromocytoma, BC Cancer, British Columbia, Cancer

2021 Identification and Hereditary Management of PPGL, EducateNext, Ambry Genetics

2020 Hereditary cancer and oxygen-sensing pathways: What’s new in Von Hippel-Lindau (VHL) and Hereditary Paranglioma/pheochromocytoma (SDHx), National Society of Genetic Counselors Cancer SIG Webinar

2019 Tumor detection rates using standard screening protocols in patients with SDHx pathogenic variants, NANETS Young Investigator Selected Platform

Genetic Counseling and Cancer presentation

2022 Double, Double, Toil and Trouble: Multiple Pathogenic Variants, Cascade Testing, and Variants of Uncertain Significance, ASCO conference abstract discussant

Medical education presentation

2020 Learning in a Digital World: Adapting to Remote Education and Supervision, National Society of Genetic Counselors Annual Conference

Regional contributions to continuing education (conferences, webinars, etc)

Genitourinary cancer presentations

- 2023 Genetics/Counseling in Urologic Cancers;
Christopher G. Wood Urologic Oncology Symposium, University of Texas
- 2021 Prostate cancer: Approaches to identifying and managing hereditary cancer conditions, Utah Urological Society Fall meeting, Salt Lake City, UT

Genetic Counseling and Cancer presentations

- 2022 Identifying Hereditary Cancers using Genetic Counseling & Testing, Society of Utah Medical Oncologists
- 2020 Genetic counseling and hereditary cancer for patients: The 5 W's, Intermountain Chapter of Oncology Nursing Society (ICONS)
- 2018 New Mandatory data items: Genetics and BRCA, Utah Cancer Registrars Association
- 2018 Cancer Genomics, Snowbird CME Conference
- 2017 Utilizing Surveillance for Identification of High-Risk Patients, Utah Cancer Registrars Association
- 2016 Family History: How a Few Minutes Can Change Patient Care, Rural Health Association of Utah conference
- 2016 Familial Breast Cancer Management: Breast MRI, Identifying and Managing High Risk Patients Project ECHO
- 2016 Genetics and Law: Is my patient protected, Identifying and Managing High Risk Patients Project ECHO

Medical education presentations

- 2023 And Then There were Three...Genetic Counseling Training in Texas
Texas Society of Genetic Counselors
- 2022 How to take the Silver Linings from COVID to increase Engagement;
University of Utah Academy of Health Science Educators Education Symposium

Additional institutional contributions to continuing education

- 2021 Genetic Counseling and hereditary cancer in urology, University of Utah
Urology Resident Education
- 2020 Genetic counseling and hereditary cancer for patients at HCI: The 5 W's,
Advanced Practice Clinicians Monthly Education Webinar
- 2017 Genetic Services at HCI: When could my patient benefit?, Advanced Practice Clinicians
Monthly Education Webinar
- 2020 Grand Rounds: Hereditary endocrine cancer syndromes and genetic services for
patients, University of Utah Department of Endocrinology, Salt Lake City, UT

1. Clinical Activities

Clinical Service

Genetic Counselor, UT Southwestern Medical Center, 2023-present

Genetic Counselor II, University of Utah, 2019 – 2022

Genetic Counselor I, University of Utah, 2016 – 2019

Clinical Education Service

2018 – 2022 Clinical rotation co-director University of Utah Genetic Counseling Graduate Program

2016 – 2022 Clinical case supervisor for genetic counseling students, medical students, residents, and fellows from the University of Utah and other institutions at the Family Cancer Assessment Clinic at Huntsman Cancer Institute

2. Service to professional societies.

2022-Present Accreditation Council for Genetic Counseling Program Review Committee, Member

2022-2023 American Board of Genetic Counseling Nominating Committee, Member

2021 – Present Active Member, National Society of Genetic Counselors, Cancer Special Interest Group, Anti-Racist, subcommittee

2020 – 2022 Abstract Reviewer, National Society of Genetic Counselors, National Society of Genetic Counselor Annual Conference

2019 Chair & Member, National Society of Genetic Counselors, Access and Service Delivery Committee, Service Delivery Subcommittee

2018 – 2020 Member, Von Hippel-Lindau Alliance, Clinical Care Center Improvement Committee

2018 Co-Chair & Member, National Society of Genetic Counselors, Access and Service Delivery committee, Service Delivery subcommittee co-chair

2017 Abstract Reviewer, American Public Health Association, APHA Genomic Committee

2017 Member, National Society of Genetic Counselors, Access and Service Delivery

Committee, Efficiency subcommittee

2016 – 2017 Chair & Member, American Public Health Association, Genomics Forum Policy Committee

2015 Co-Chair & Member, American Public Health Association, Genomics Forum Policy Committee

2014 Member, American Public Health Association, Genomics Forum Policy Committee

3. Editorial services

Reviewer Experience

2023- Present	Journal Clinical Endocrinology & Metabolism
2021 - Present	Journal of Urology
2020 - Present	Journal of Genetic Counseling
2020	Cancers
2019 - Present	European Urology
2019	Genes
2018	JCO Precision Oncology

4. Invited and special lectures of clinical and service relevance

Academic Presentations

2023 The Michigan Difference: Building Career-Long Collaborations; Bev Yashar Genetic Counseling Research Symposium, University of Michigan, Ann Arbor, MI

2023 Integrating a genetic counseling training program and faculty into the School of Health Professions, FAEC Spring Faculty Assembly

2023 Enhancing Genetics at UTSW Through Genetic Counseling Training; UT Southwestern McDermott Center, Work in Progress Talks

2019 Translational GU Research: Integrating cancer genetics into prostate cancer care (PCa), Huntsman Cancer Institute Town Hall

Community Engagement Presentations

2023 Genetics and NETs; Learn Advocate Connect Neuroendocrine Tumor Society

2020 Approaches for Adherence and Coping in Young Adults and Adolescents with Von Hippel Lindau, Von Hippel-Lindau Alliance Family Weekend

2019 Genetic Testing and SDHx Mutations: What do they have to do with

PGL/GIST/Pheos?, LifeRaft Symposium Webinar

- 2016 Improving efficacy of a Community Health Cancer Genetics Screening Program: Client and Clinician Perspectives, Michigan Cancer Genetics Alliance

Payer Advocacy Presentations

- 2016 Adjusting Approaches to Genetic Testing Coverage, Regence Healthcare
5. Consultantships
- 2023 Life Raft Group Consultant for incorporation of *SDHC* promoter methylation testing
- 2018 Advisory Board consultant (one-time) to Tempus Laboratories
6. Professional service to the community
- 2017 – Present Committee Member, University of Utah Graduate Program in Genetic Counseling, Clinical Supervision Committee

Patient and Student Outreach Presentations

National

- 2021 Supporting the transition to adulthood in adolescents/young adults with VHL, St. Jude's Annual Patient Symposium
- 2021 Addressing Family Dynamics and Genetic Mutations, Pheo Para Alliance Educational Webinar
- 2020 I have a Genetic Mutation: Now What?, Pheo Para Alliance Educational Webinar
- 2016 Across the Lifespan: Jewish Genetic Diseases in adults, Revolve Community, Webinar

Local

- 2019 Man, what does BRCA1/2 have to do with men? Utah Department of Health BRCA Event
- 2017 Family Health History, Magna Library in Collaboration with Utah Department of Health

2017 What's new with BRCA1/2 and You, Utah Department of Health Cancer Genetic Patient Awareness Event

2016 Dinner and DNA, Moab Hospital Community Event, Moab, UT

Genetic Counseling Career Awareness

2023 The Genetic Counseling Application Process; Michigan State University

2022 Genetic Counseling: An Overview; Saginaw Valley State University Biology courses

2022 Introduction to Genetic Counseling, Michigan State University Genetics Club

2021 Defining the landscape of genetic counseling: Who are we?, Association of Utah Genetic Counselors Career Camp

2014 What is Genetic Counseling?, Canton High School, Canton, MI

2014 What is Genetic Counseling? Ypsilanti Tech High School, Ypsilanti, MI

2014 Genetic Counseling, University of Michigan Undergraduate Research Opportunity Program (UROP)

7. Other

Mentoring/Advising

Masters

2021 – 2022 Advisor/Mentor, Gabrielle Ernst, University of Michigan Genetic Counseling Program

Trainee's Current Career Activities: Genetic Counselor, Dana Farber Cancer Institute

2020 - 2021 Advisor/Mentor, Hiam Abdel-Salam, University of Michigan Genetic Counseling Program

Trainee's Current Career Activities: Genetic Counselor, MD Anderson

2018 – 2020 Advisor/Mentor, Ambreen Khan, University of Utah Graduate Program in Genetic Counseling

Trainee's Current Career Activities: Genetic Counselor II, Intermountain Medical Center

Support Group Outreach

2023 Genetics and Paragangliomas; Pheo Para Alliance Support Group

2021 Genetics & NETs, NET Cancer Foundation, Monthly support meeting

X. ADMINISTRATION [College and University Service]

1. Budget responsibilities
 - Development and adherence to the UTSWGCP budget
2. Personnel management responsibilities
 - Manages 2 faculty members that directly report to Director of UTSWGCP
 - Manages administrator that supports UTSWGCP
 - Manages additional staff (C. Clark) that contributes FTE to UTSWGCP
 - Growth and development of clinical FTE at UTSW Medical Center to support UTSWGCP growth
3. Facilities responsibilities
 - Management of Genetic Counseling Program suite and facility resources
4. Other

XI.

Institutional Committee Participation

2023-Present Women in Science and Medicine Advisory Council

2023- Present School of Health Professions (SHP Faculty Council

2023-Present SHP Academic and Student Affairs Committee

2023-Present SHP Research Advisory Committee

2023 Regent's Outstanding Teaching Award Committee

XII. MEMBERSHIPS, HONORS, AWARDS and SPECIAL RECOGNITION

1. Scholarly, Professional and Scientific Memberships

2015 – 2017 American Public Health Association

2017 – 2022 American Society of Clinical Oncology

2015 – Present National Society of Genetic Counselors

2022- Present North American Neuroendocrine Tumor Society

2. Awards, Honors, Special Recognition

- 2023 Journal of Urology ‘Reviewer of the Month’, May 2023
- 2021 AGCPD Outstanding Supervisor Award
- 2021 University of Utah Graduate Program in Genetic Counseling Teaching Award
- 2015 Public Health Genetics Fellowship
- 2014 James V Neel Fellowship

XIII. PROFESSIONAL GROWTH AND DEVELOPMENT

1. Degree(s) in progress
 - 2020 – Present PhD University of Utah, Salt Lake City, UT
2. Formal course work
 - Leadership Foundations Course, UT Southwestern Medical Center
 - Relationship-Centered Communication for Health System Leaders, UT Southwestern Medical Center
3. Other
 - Faculty Mentorship, School of Health Professions, Mentor: Dr. Carolyn Bradley-Guidry
 - BRG Mentorship, UT Southwestern Medical Center, Mentor: Jerra Brandon
 - Executive Coaching, UT Southwestern Medical Center, Coach: Meredith Stringer

XIV. OTHER

Last updated: November 22, 2023