# The Cancer Moonshot$^{SM}$ Biobank

Help change the future of cancer treatments.

# Participant and Provider Engagement Workshop

May 2–3, 2024

# The Cancer Moonshot℠ Biobank

Help change the future of cancer treatments.

**NCI Shady Grove Campus**
**9609 Medical Center Drive**
**Rockville, MD 20850**

## Overview

The Cancer Moonshot℠ Biobank is a longitudinal biospecimen collection study that engages patients and medical institutions across the U.S. in the donation of biospecimens (tumor tissue and blood) and medical data over the course of cancer treatment. The biospecimens and data will be used in research to better understand and improve cancer treatments.

Participant and provider engagement is a cornerstone of the study. Engagement aspects include the return of clinical results directly to participants and their providers; an online engagement website in English and Spanish with secure login for viewing signed consent forms and clinical reports; electronic informed consent in English and Spanish; return of aggregate results via an annual report; funding of local, investigator-initiated engagement projects; and an External Scientific Panel of patient advocates, oncologists, nurses, and health disparities experts that provides regular input to the study.

In this Participant and Provider Engagement Workshop, we will assess Cancer Moonshot℠ Biobank study progress and opportunities in engagement. Attendees will hear from the Cancer Moonshot℠ Biobank and other research programs about successful engagement approaches and consider potential new approaches and best practices for engagement in biobanking.

- Two-day workshop with a mix of presentations, panel discussions, and smaller breakout sessions
- Limited in-person attendance to facilitate small-group discussions and networking
- Key workshop participants include members of the Cancer Moonshot℠ Biobank's External Scientific Panel and local engagement investigator teams, along with guest speakers from other engagement-focused research programs such as the NIH *All of Us Research Program* and the NCI Participant Engagement for Cancer Genome Sequencing Network (PE-CGS)

# 2024 PARTICIPANT AND PROVIDER ENGAGEMENT WORKSHOP AGENDA

## DAY 1: MAY 2, 2024

| | |
|---|---|
| 8:30–9:00 AM | Registration |
| 9:00–9:15 AM | Welcome<br>**James H. Doroshow, MD**, Deputy Director, National Cancer Institute; Director, Division of Cancer Treatment and Diagnosis (DCTD) |
| 9:15–9:45 AM | Cancer Moonshot Biobank Overview and Introduction to the Workshop<br>**Helen M. Moore, PhD**, Branch Chief, Biorepositories and Biospecimen Research Branch, DCTD, National Cancer Institute |
| 9:45–10:15 AM | Introductions and Icebreaker Activity |
| 10:15–10:30 AM | Coffee Break |
| 10:30 AM–12:30 PM | Reports from Cancer Moonshot Biobank Local Engagement Teams: Session 1<br>*Gibbs' Engagement Mission*<br>Upstate Carolina Consortium Community Oncology Research Program:<br>**Tondre Buck, MD; Amy Curtis, MD; Melyssa Foust, MSN, RN, OCN; Audrianna C. Paden Carrington, MS, CCRP**<br>*Participation in Cancer Moonshot Biobank: Is Access Universal?*<br>MaineHealth Cancer Care Network:<br>**Michael Kohut, PhD; Jamie Saunders, MS; Susan Miesfeldt, MD; Neil Korsen, MD, MSc** (presenting virtually)<br>*Cancer Moonshot Biobank Improvement & Engagement Initiative to Develop a Research Quality, Experience, and Safety Toolkit (ReQuEST)*<br>Michigan Cancer Research Consortium NCORP:<br>**Rose Juhasz, PhD; Rachel Ploskodniak, BS; Oreoluwa Obiri, MS**<br>Panel Discussion: **Jane Wanyiri, PhD**, Moderator |
| 12:30–1:15 PM | Lunch Break |
| 1:15–2:00 PM | NCI Program Report<br>*Digital Engagement Tools Employed for the Cancer Moonshot Biobank*<br>**Jeffrey McLean, MS**, Frederick National Laboratory for Cancer Research<br>*Progress on Longitudinal Biospecimen Collections*<br>**Veena Gopalakrishnan, PhD**, NCI Biorepositories and Biospecimen Research Branch |
| 2:00–3:30 PM | *Promising Engagement Practices in the NIH All of Us Research Program*<br>**Minnkyong Lee, PhD**, Deputy Chief Engagement Officer, All of Us Research Program, National Institutes of Health<br>*Opportunities and Challenges in Digital Engagement for Cancer Research*<br>**Suzanne George, MD**, Division Chief, Sarcoma Center, Dana-Farber Cancer Institute<br>Panel Discussion: **Carol J. Weil, JD**, Moderator |
| 3:30–3:45 PM | Coffee Break |
| 3:45–4:45 PM | Breakout Sessions (By Invitation)<br>Breakout Room 1: *Strategies and tools for individual and community engagement* (Room TE406)<br>Breakout Room 2: *Communicating benefits of research participation to patients and physicians* (Room TE408)<br>Breakout Room 3: *Coordinating across the medical institution(s) to screen, enroll, and follow patients over time* (Room TE410) |
| 4:45–5:00 PM | Closing Remarks for Day 1<br>**Helen M. Moore, PhD** |
| 6:00–8:30 PM | Networking Dinner |

## DAY 2: MAY 3, 2024

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|---|---|
| 9:00–9:15 AM | Opening Remarks and Overview of the Day<br>**Helen M. Moore, PhD** |
| 9:15–9:30 AM | Second Icebreaker Activity |
| 9:30–10:00 AM | Reports from Day 1 Breakout Sessions<br>**Day 1 Breakout Session Moderators** |
| 10:00 AM–12:00 PM | Reports from Cancer Moonshot Biobank Local Engagement Projects: Session 2<br>*Moonshot Biobank Meets Columbia Digital Engagement*<br>Columbia University Minority Underserved NCORP:<br>**Erik Harden, MA; Jessica Hutchinson, RN, BSN**<br>*Cancer Moonshot Biobank*: *Progress and Challenges of Gulf South NCORP*<br>Gulf South Minority Underserved NCORP:<br>**Omeed Moaven, MD, FACS; Cambri Moeller, MS**<br>*Nevada NCORP Moonshot Initiative Update*<br>Nevada Cancer Research Foundation NCORP:<br>**Daniela Perez Salas, BS; Giovannie Carideo, BS; Khawaja Saad Jahangir, MD** (presenting virtually)<br>*Marshfield Clinic Health System Cancer Moonshot$^{SM}$ Biobank Engagement*<br>Wisconsin NCORP:<br>**Wendy Schumacher, RN, BSN** (presenting virtually)<br>Panel Discussion: **Lucy J. Gansauer, MSN, RN, OCN, CCRP**, Moderator |
| 12:00–1:00 PM | Lunch |
| 1:00–2:30 PM | *Engagement with the Under-Resourced Latino Cancer Community in the Washington, DC, Area*<br>**Laura A. Logie, PhD**, Director of Research, Nueva Vida<br>*Optimizing Engagement of Hispanic Cancer Patients in Cancer Genomic Research*<br>**Mariana C. Stern, PhD**, Professor of Population and Public Health Sciences and Urology, and **Ira Goodman** Chair in Cancer Research, Keck School of Medicine of USC; Associate Director of Population Science, USC Norris Comprehensive Cancer Center (presenting virtually)<br>Panel Discussion: **Elizabeth M. Gillanders, PhD**, Moderator |
| 2:30–2:45 PM | Coffee Break |
| 2:45–3:45 PM | Breakout Sessions (By Invitation)<br>Breakout Room 1: *Strategies and tools for individual and community engagement*: *What approaches are useful and transferable, and do they represent best practices?* (Room TE406)<br>Breakout Room 2: *Communicating benefits of research participation to patients and physicians*: *What approaches are useful and transferable, and do they represent best practices?* (Room TE408)<br>Breakout Room 3: *Coordinating across the medical institution(s) to screen, enroll, and follow patients over time*: *What approaches are useful and transferable, and do they represent best practices?* (Room TE410) |
| 3:45–4:00 PM | Break (Prepare Breakout Reports) |
| 4:00–4:30 PM | Reports from Breakout Sessions<br>**Day 2 Breakout Session Moderators** |
| 4:30–5:15 PM | *What Have We Learned?*<br>Panel Discussion: **Laura A. Logie, PhD**, Director of Research, Nueva Vida; **Janet Freeman-Daily, MS**, Co-Founder, President, Board Chair, The ROS1ders, Gray Connections; **Iman Martin, PhD, MPH, MSc**, Commander, United States Public Health Service, and Program Officer, Environmental Influences on Child Health Outcomes (ECHO), Office of the Director, National Institutes of Health; **Jeffrey Berenberg, MD**, MACP, Professor, University of Hawai'i Cancer Center; **Marvella Ford, PhD**, Professor, Department of Public Health Sciences and Associate Director, Population Science and Community Outreach and Engagement, Hollings Cancer Center, Medical University of South Carolina, and SmartState Endowed Chair, Cancer Disparities Research, South Carolina State University |
| 5:15-5:30 PM | Future Directions and Wrap-Up<br>**Helen M. Moore, PhD** |

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# External Scientific Panelists

**Jeffrey Berenberg, MD, MACP**

Professor, University of Hawai'i Cancer Center

**Jeffrey Berenberg, MD, MACP**, first became interested in cancer and blood diseases when he observed his grandfather dying from myelofibrosis. Additionally, Berenberg's father was a professor of pediatrics and a close friend of Sidney Farber, MD, one of the fathers of modern oncology. Together, this background led him into a long-term career of clinical oncology and community-based clinical cancer research.

Berenberg has worked for more than 40 years at the Tripler Army Medical Center and the University of Hawai'i Cancer Center (UHCC) leading cancer screening, prevention, control, and treatment studies. At UHCC, he serves as a professor and the chair of the Protocol Review and Monitoring Committee. Currently, Berenberg is the chief of medical oncology at the University of Hawai'i John A. Burns School of Medicine.

He is the contact principal investigator of the Hawai'i Minority/Underserved NCI Community Oncology Research Program (MU NCORP). The MU NCORP has accrued thousands of patients over the past 15 years on MU NCORP and predecessor minority NCORP trials. Berenberg has not only supervised trial conduct but also personally accrued and co-authored pivotal trials in both breast and colorectal cancers, as well as practice trials in geriatric oncology.

Berenberg has also mentored numerous medical students, residents, fellows, and junior faculty for over 40 years. He is committed to reducing healthcare disparities by facilitating accrual of Hawai'i's underrepresented racial/ethnic minorities, adolescents and young adults, elderly, rural, and sexual and gender minorities through participation in traditional clinical trials and cancer care delivery research. Recently, Berenberg has taken great pleasure while serving on the NCORP Diversity and Equity Working Group and contributing as a member to the NCI Cancer Moonshot℠ Biobank External Advisory Committee.

**Deborah Collyar, MBA**
Founder and President, Patient Advocates in Research

**Deborah Collyar, MBA**, is the founder and president of Patient Advocates in Research, "where research meets reality." Her leadership in patient engagement started in the 1990s after her first cancer diagnosis. Collyar applies her business leadership, IT, communication, and strategic skills to bridge gaps between scientists, medical providers, governments, and patients.

Collyar has vast experience in translational and clinical research, epidemiology, health outcomes, and health delivery research working with academia, federal agencies, companies, and patient communities. She also infuses patient representatives into projects and gathers relevant patient input, encompassing many diseases, programs, and policies at grassroots, national, and international levels. To improve clinical results and increase patient engagement, Collyar has collaborated with many—including the American Association for Cancer Research, the Association of Community Cancer Centers, the Agency for Healthcare and Research Quality, the American Society of Clinical Oncology, the Health Literacy Media, the Institute for Clinical and Economic Review, the Society for Immunotherapy of Cancer, and the Oncology Research Information and Exchange Network. Key insights are delivered throughout development, clinical trials, results reporting, data-sharing, standards, and genomics—and into practice.

**Catasha Davis, PhD, MS**
Recruitment Outreach Specialist, National Institute on Aging

**Catasha Davis, PhD**, earned her doctoral degree in mass communication from the University of Wisconsin-Madison. Davis also holds master's degrees in journalism and African American studies from the University of Wisconsin-Madison. Her research interests include health disparities, stereotypes, prejudice reduction, and communication with a focus on persuasion, influence, and social marketing. She currently works at the National Institute on Aging in the Office of Clinical Research.

**Marvella Ford, PhD**
Professor, Department of Public Health Sciences and Associate Director Population Sciences and Community Engagement, Medical University of South Carolina

**Marvella Ford, MSW, MS, PhD**, earned her degrees and completed postdoctoral training at the University of Michigan— Ann Arbor, where she was awarded pre- and postdoctoral fellowships from the National Institute on Aging. Subsequently, Ford held faculty positions at the Henry Ford Health System in Detroit, MI, and Baylor College of Medicine before coming to the Medical University of South Carolina and the Hollings Cancer Center.

Ford's training in how the social determinants of health affect disease and its treatment has uniquely positioned her to take a leading role in tackling a distressing and misunderstood public health problem in South Carolina: An overarching goal of her research is to identify and address the disparities in cancer outcomes due to race, geography, and other contextual and/or socioeconomic factors. Her research interest includes evaluating the impact of patient navigation interventions on healthcare behavior, developing and testing methods to improve cancer surveillance adherence, developing and testing methods to improve cancer screening adherence, and improving informed decision-making for prostate cancer screening.

**Janet Freeman-Daily, MS**
Co-founder, President, Board Chair, The Ros1ders Inc., Gray Connections

**Janet Freeman-Daily, MS**, is a writer, speaker, and international cancer research advocate who translates the experience and science of cancer for others. She was diagnosed with metastatic non-small cell lung cancer in 2011, learned about biomarker testing and clinical trials from online patient communities, joined a clinical trial, and has been doing well on a targeted therapy since 2012. Freeman-Daily is the co-founder and president of The ROS1ders and co-founder of the International Association for the Study of Lung Cancer Supportive Training for Advocates on Research and Science program for training research advocates in lung cancer. She has received the LUNGevity Hero award, coauthored articles in oncology journals, been an invited speaker at national and international cancer conferences, and served on committees and scientific advisory boards for cancer centers, national nonprofits, industry, and government agencies. Formerly an aerospace systems engineer, Freeman-Daily holds engineering degrees from the Massachusetts Institute of Technology (SB) and the California Institute of Technology (MS). She blogs at GrayConnections.net.

**Lucy Gansauer,
RN, MSN, OCN, CCRP**
Director of Cancer Care
Delivery and DEI Champion,
SWOG Cancer Research
Network and Spartanburg
Regional Healthcare

**Lucy Gansauer, RN, MSN, OCN, CCRP**, is a strong advocate for evidenced practice with a focus on equity in outcomes among populations. Her research has focused on health disparities and cancer care delivery research. In her work, Gansauer translates evidenced-based practices to community settings, while understanding both population issues and environmental constraints. She is strongly interested in the impact of navigation on health disparities and ensuring equity of outcomes. Gansauer is also interested in studies describing and understanding local variations in clinical practice patterns and studies that compare different approaches to managing specific medical conditions. She has focused on studies that examine patients' and clinicians' beliefs and attitudes as they affect medical decision-making, particularly around disparities and literacy.

**Charles Kamen,
PhD, MPH**
Associate Professor and
Assistant Director of
Community Outreach and
Engagement, University of
Rochester Medical Center

**Charles Kamen, PhD, MPH**, is an associate professor in the Department of Surgery and Psychiatry in the Division of Cancer Control at the University of Rochester. He also serves as assistant director for community outreach and engagement at the Wilmot Cancer Institute and chair of health equity research for the University of Rochester Cancer Center NCI Community Oncology Research Program Research Base. Kamen is a clinical psychologist by training, and his program of research focuses on cancer-related health disparities affecting sexual and gender minority (or LGBTQ+) and other minoritized cancer survivors. He has over 100 peer-reviewed publications. He has also contributed to the development of a range of behavioral interventions with the goal of improving the health and well-being of cancer patients, survivors, and their caregivers, and has worked with national and international organizations around the collection of sexual orientation and gender identity data in oncology.

**Laura Logie, PhD, MA**
Director of Research,
Nueva Vida

**Laura Logie, PhD, MA**, is the director of research for Nueva Vida, a support network for Latinas with cancer in the Washington, DC, metropolitan area. Prior to her position at Nueva Vida, she served as the assistant director for the Consortium on Race, Gender, and Ethnicity and affiliate faculty in the Department of Women's Studies at the University of Maryland, College Park. Her research interests focus on the intersectional analysis of persistent health disparities, social justice, and the health of low-income racial/ethnic women. Specifically, her work has focused on the efforts to eliminate social inequalities that drive persistent disparities in health by gender, race, ethnicity, immigration status, and socioeconomic position. Logie received her BSEd in health education and promotion from George Mason University, and earned her graduate and doctoral degrees in women's studies/public health from the University of Maryland.

**Adam Murphy, MD, MBA, MSCI**
Tenured Associate Professor of Urology, Northwestern Medicine and Jesse Brown VA Medical Center

**Adam B. Murphy, MD, MBA, MSCI**, has been studying the health disparities faced by minorities with prostate cancer, including in Black and Hispanic men. His laboratory has been looking at the role of biomarkers and risk-prediction tools in men at risk of prostate cancer or diagnosed with prostate cancer. Clinically, Murphy is interested in general urology and men's health and has appointments at Northwestern Medicine, and Jesse Brown VA Medical Center. He is the Distinguished Professor of Health Equity Research in Urology and the director of clinical trials accrual equity for the Robert H. Lurie Comprehensive Cancer Center at Northwestern Medicine.

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# Guest Speakers

Minnkyong Lee, PhD

## Promising Engagement Practices in the NIH *All of Us* Research Program

The *All of Us* Research Program provides expansive health data as the nation's largest, most diverse biomedical dataset, inclusive of more than 80% of participants from populations historically underrepresented in biomedical research (UBR) with 45% self-identifying as racial or ethnic minorities. Data from participants, including those from biosamples, physical measurements, electronic health records, social determinant-related surveys, and wearable devices, are made available through a centralized, secure, cloud-based platform (https://researchallofus.org) and can be integrated to examine health disparities. Intentional engagement efforts have been central to achieving a participant community of one million or more individuals who are reflective of the true diversity of the United States. Guided by an ecological conceptual model developed by the *All of Us* Division of Engagement and Outreach, the program has leveraged several promising practices in engagement to reach this level of diversity in participants, including its partnership with a diverse network of community and healthcare organizations. During this session, the speaker will review the program's engagement framework and how this has been implemented across the country through the program's various partners.

**Minnkyong Lee, PhD** (she/her), is the deputy chief engagement officer for the NIH *All of Us* Research Program. Since 2017, Lee has been working with *All of Us* awardees to identify and disseminate best practices in the engagement and retention of participants and researchers. Prior to *All of Us*, she worked with animal models and big data at the National Human Genome Research Institute. As a fervent supporter of STEM education and mentoring, Lee has taught and volunteered at local institutions, including Northern Virginia Community College, the University of the District of Columbia, the University of Maryland, and the Marian Koshland Science Museum. With her experiences in the laboratory and with diverse communities, she contributes a unique, inclusive perspective as a strong advocate of the program and its ecosystem of invaluable partners.

Suzanne George, MD

## Opportunities and Challenges in Digital Engagement for Cancer Research

Increasing direct patient engagement in cancer research is a priority across the cancer research community; however, optimization of methods for engagement through digital platforms are limited. **Suzanne George, MD**, will summarize experiences from the Alliance Multi-Cancer Early Detection Biobanking Study, as well as experiences from Count Me In and the Participant Engagement and Cancer Genome Sequencing (PE-CGS) Network, and provide thoughts regarding future opportunities for digital engagement and data permissions.

George is a leading medical oncologist and expert in sarcoma management and clinical investigation. She is an associate professor of medicine at Harvard Medical School and the division chief of the Sarcoma Center at Dana-Farber Cancer Institute. George has served as Alliance Group vice chair as well as Alliance for Clinical Trials Interim Group chair. She has developed the Alliance Participant Engagement Portal and is a principal investigator in a multiple principal investigators project.

Laura Logie, PhD, MA

## Engagement with the Under-Resourced Latino Cancer Community in the Washington, DC, Area

A compelling ethical rationale supports patient engagement in cancer biobanking and genomic sequencing. Experiences with engaging patients in molecular and genetic cancer research suggests that effective patient-centered outcomes hinge on patients being interested and emotionally involved in the research being undertaken. But how do you engage patients in under-resourced communities that face myriad challenges and barriers? This presentation focuses on the medical mistrust and barriers faced and suggests strategies to effectively engage Latinos in biobanking, potentially leading to better individual prevention, diagnosis, prognosis, treatment, and monitoring. Equitable engagement among this population is especially relevant given the demographic growth in the Washington, DC, metropolitan area and the fact that it is cancer (and not heart disease) that remains the number-one killer of Latinos in the United States. Overall, this presentation on Latino engagement highlights the importance of "*nada sobre mí va sin mí*" (nothing about me without me) in a medically under-resourced Latino community.

Mariana C. Stern, PhD

## Optimizing Engagement of Hispanic Cancer Patients in Cancer Genomic Research

Despite its high cancer burden among US Hispanic/Latino (H/L) individuals, the colorectal cancer (CRC) tumor landscape, and the key determinants of outcomes in H/L patients are understudied. To address this, we launched the ENLACE study, funded as a Cancer Moonshot℠ Biobank initiative, to engage H/L CRC patients in cancer genomic sequencing studies and identify optimal approaches for patient engagement. To complement these efforts, we also developed the Community Genetic Navigation Engagement Specialists (CoGENES) program to train a workforce of community lay liaisons who can increase knowledge about colorectal cancer prevention, genetic testing, and counseling in our Hispanic communities.

**Mariana C. Stern, PhD**, is a professor in the Department of Population and Public Health Sciences at the Keck School of Medicine of the University of Southern California (USC) and serves as the associate director of population science at the USC Norris Comprehensive Cancer Center. Stern is the director of the Epidemiology MS program in the Keck School of Medicine of USC. She is one of the founding directors of the Florida-California Cancer Research Education and Engagement (CaRE2) Health Equity Center, an NCI-funded center focused on the training of underrepresented minorities from undergraduates to early-career scientists, which includes a partnership with the University of Florida and the Florida Agricultural and Mechanical University. This bi-coastal partnership is focused on conducting innovative translational research in cancers of high mortality among Blacks and Latinos, training underrepresented minorities both in Florida and California, and conducting community outreach and education to foster participation of underrepresented minorities in cancer research and clinical trials.

Stern obtained her undergraduate degree in biology at the University of Buenos Aires, School of Sciences, in Buenos Aires, Argentina, and a PhD in cancer biology from the University of Texas, M.D. Anderson Cancer Center. She completed her postdoctoral training in epidemiology at the National Institute of Environmental Health Sciences. Stern joined the faculty in the Keck School of Medicine of USC in 2001.

Stern is a cancer epidemiologist with expertise in the identification of cancer determinants, translational cancer research, and cancer disparities research. Stern's research studies are focused on colorectal and prostate cancer, with an emphasis on dietary sources of carcinogenic exposures, and cancer genetics, cancer patterns, tumor characteristics, and clinical outcomes, with a special focus on minority populations. Stern was appointed by the California Governor to the Carcinogen Identification Committee of Proposition 65, for the California Office of Environmental Health Hazard Assessment. Stern has served and continues to serve, in various organizing committees for cancer health disparity initiatives, such as the AACR Minorities in Cancer Research Council and serving as co-chair of the 2022 AACR Cancer Disparities Progress Report. Since 2021, Stern has served as co-lead of the Patient Engagement Unit for the Center for Optimization of Patient Engagement in Cancer Characterization Studies, an NCI-funded center part of the Cancer Moonshot℠ Biobank initiative on Patient Engagement in Cancer Genomic Studies (PE-CGS).

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# Local Engagement Investigator Teams and Presentations

# Upstate Carolina Consortium Community Oncology Research Program

## Gibbs' Engagement Mission

**Tondre Buck, MD; Amy Curtis, MD;
Melyssa Foust, RN, MSN, OCN; and
Audrianna C. Paden Carrington, MS, CCRP**

Dr. Buck will begin with a look at the prevalence and disparities in outcomes and treatments for patients with multiple myeloma. Dr. Curtis will discuss the program's rationale for applying for the Engagement grant and what the team hoped to accomplish. Melyssa will then talk about the group's efforts, strategies, and lessons learned. Finally, Audrianna will offer some "Steps to Success" for other research coordinators.

## Upstate Carolina NCI Community Oncology Research Program (NCORP) Cancer Moonshot℠ Biobank Project Engagement Team

**Melyssa Foust, MSN, RN, OCN©**, is the director of Upstate Carolina NCORP's Cancer Care Delivery Research (CCDR) and the CCDR and the cancer control manager for Gibbs Cancer Center & Research Institute. A registered nurse for over twenty years, Melyssa leads a team dedicated to enrolling patients onto NCI clinical trials in their own community. Melyssa is passionate about working to eliminate health disparities in cancer outcomes by increasing clinical trial enrollment of underrepresented populations and working to overcome barriers to enrollment. She has been involved with the Cancer Moonshot℠ Biobank engagement grant at Upstate Carolina NCORP since the beginning and is most proud of assisting in the creation of Gibbs' Community Advisory Council.

**Audrianna C. Paden Carrington, MS, CCRP**, a clinical research professional and the lead Cancer Moonshot℠ Biobank coordinator at Upstate Carolina NCORP/Gibbs Cancer Center & Research Institute. Audrianna received her bachelor's in chemistry from Spelman College and her MS in community-engaged medicine from Furman University. Audrianna's background includes exploring the interconnectedness of the social determinants of health, health disparities, and inequities among underserved populations. Her work entails promoting the participation of underrepresented groups, particularly African American patients, in the Cancer Moonshot℠ Biobank, working with patients to identify barriers impacting clinical trial participation and educating patients and families about clinical research and access to adequate healthcare. She is passionate about population health, patient advocacy, advancing cancer research, reducing cancer disparities, and improving cancer outcomes in underrepresented communities.

**Tondre Buck, MD**, multiple myeloma specialist and physician champion, is the model of an engaged provider. Dr. Buck received his medical degree from the University of Mississippi at Jackson and completed a residency at the University of Mississippi Medical Center in Internal Medicine. Dr. Buck also completed a fellowship at the University of Mississippi Medical Center in Internal Medicine. He is board certified in hematology/oncology. Dr. Buck is passionate about enrolling patients onto clinical trials, particularly the Cancer Moonshot℠ Biobank. As an African American physician, Dr. Buck has worked tirelessly to improve the health outcomes of African American patients with multiple myeloma and other hematological malignancies. Dr. Buck is a consummate, engaged professional. An educator at heart, Dr. Buck provides mentorship to the lead Cancer Moonshot℠ Biobank coordinator, as well as acting as a resource to the entire research department.

**Amarinthia (Amy) Curtis, MD**, the Cancer Moonshot℠ Biobank engagement principal investigator, is an important link between Upstate Carolina NCORP and the Cancer Moonshot℠ Biobank engagement program. Dr. Curtis received her medical degree from the University of North Carolina School of Medicine. She completed a residency in radiation oncology training at Baylor College of Medicine. At Baylor, she was named Naresh Prashad Scholar, an award for the highest academic achievement in the Department of Radiology. Dr. Curtis' decades of experience in clinical research and research advocacy help inform strategy and align key stakeholders around the team's Cancer Moonshot℠ Biobank engagement efforts. Dr. Curtis's visibility in the community helps build trust between the Cancer Moonshot℠ Biobank program, the hospital, and the patients served. As the medical director of the Gibbs Cancer Center & Research Institute, Dr. Curtis strives to involve her peers in the Cancer Moonshot℠ Biobank and encourages referrals and accruals.

## MaineHealth Cancer Care Network

### Participation in Cancer Moonshot Biobank: Is Access Universal?

**Michael Kohut, PhD; Jamie Saunders, MS; Neil Korsen, MD; and Susan Miesfeldt, MD**

This group examined the reasons that structurally vulnerable MaineHealth cancer patients may not participate in Cancer Moonshot℠ Biobank, with a focus on rural, socioeconomically disadvantaged individuals, and New Mainers (immigrants, refugees, and asylum seekers). Results revealed that those populations with limited healthcare access are less likely to participate in Cancer Moonshot℠ Biobank, with a cumulative downstream negative effect on the applicability of research findings. Barriers to Cancer Moonshot℠ Biobank enrollment discovered because of this work are informing institutional solutions that promise to improve Cancer Moonshot℠ Biobank access.

### MaineHealth Cancer Care Network (MHCCN) Cancer Moonshot℠ Biobank Project Engagement Team

Left to Right:

**Scot Remick, MD**, is the principal investigator on this NCI Community Oncology Research Program (NCORP) and a medical oncologist with a career-long commitment to clinical trials.

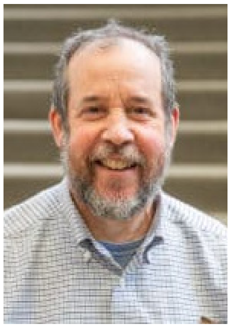
**Susan Miesfeldt, MD**, is a practicing medical oncologist and clinician investigator with qualitative and quantitative research experience. She is the medical director for the Cancer Risk and Prevention Program at Maine Medical Center and MHCCN. She has had direct experience in developing, implementing, and completing a range of health services research projects focused primarily on improving access to cancer care, including cancer genetic risk assessment and management. Dr. Miesfeldt serves as the co-principal investigator for the MHCCN Cancer Moonshot℠ Biobank community engagement efforts. This work has included in-depth assessments of clinical trial barriers among rural and socioeconomically disadvantaged cancer patients served by the area's health system, as well as regional immigrant and refugee communities.

**Jill Prescott, MPH**, serves as the administrator of NCORP for the MHCCN. She provides oversight of the research base and its administrative coordination.

**Jamie Saunders, MS**, serves as the program manager of multi-site oncology trials and special studies. She leads a team that oversees many cancer-prevention, screening, and biobanking trials as well as investigator-initiated studies with the MHCCN.

**Anne Breggia, PhD**, is the director of the Center for Applied Science and Technology at the MaineHealth Institute for Research and chair of the MaineHealth Precision Medicine Council. Dr. Breggia is the MHCCN site principal investigator for the Cancer Moonshot℠ Biobank study and key personnel for the Cancer Moonshot℠ Biobank Community Engagement study.

Not shown in group photo and included below:



**Neil Korsen, MD, MSc**, is a physician scientist at the MaineHealth Institute for Research. After spending almost twenty years as a rural family physician, he received a research training grant from the American Academy of Family Physicians and has had a twenty-year research career. He provides expertise on community engagement and outreach to the Cancer Moonshot℠ Biobank team.

**Mike Kohut, PhD**, is a staff scientist at the Center for Interdisciplinary Population and Health Research at MaineHealth Institute for Research. Dr. Kohut is trained as an anthropologist and specializes in qualitative methods.

# Michigan Cancer Research Consortium NCI Community Oncology Research Program (NCORP)

## Cancer Moonshot Biobank Improvement & Engagement Initiative to Develop a Research Quality, Experience, and Safety Toolkit (ReQuEST)

**Rose Juhasz, PhD; Rachel Ploskodniak, BS; and Oreoluwa Obiri, MS**

The presenters will discuss their approach to increasing operational efficiencies and engagement with the Cancer Moonshot℠ Biobank at their sites across southeast Michigan. Quality-improvement methods and frameworks were applied to determine barriers and facilitators running the study. A variety of engagement and education tools have been used with providers, patients, and the community.

## Michigan Cancer Research Consortium (MCRC) Cancer Moonshot℠ Biobank Project Engagement Team

To develop and complete their engagement project, MCRC assembled a multidisciplinary team of a) physician and non-physician investigators, b) staff skilled in research and healthcare engagement with underserved populations, and c) Cancer Center champions of performance improvement and patient and family engagement. Together, the team is taking a multi-level approach of engaging both physicians and patients in Cancer Moonshot℠ Biobank through education and increased and purposeful outreach. To improve enrollment and engagement strategies, they are applying traditional health system quality-improvement methods to become more efficient in screening and organizing the patient journey with the study.

### Investigator Team

**Tareq Al baghdadi, MD**, MCRC principal investigator and provider engagement champion
**Elie Dib, MD, MS, FACP**, MCRC co-principal investigator and HemOnc fellow engagement champion
**Rose Juhasz, PhD**, patient engagement champion

### Research Staff

**Adriana Gamboa, MPH**, research coordinator with expertise in engaging the Hispanic community in cancer research
**Oreoluwa Obiri, MS**, research coordinator with expertise in engaging immigrant, underserved, and at-risk patient groups
**Rachel Ploskodniak, BS**, project manager of the Cancer Moonshot℠ Biobank

### Cancer Center Leaders of Support and Quality Improvement Services

**Chris Hardy, MDiv**, chaplain and leader of the Patient and Family Advisory Committee
**Wendy Markovich, BA**, program excellence leader

# Columbia University Minority Underserved NCI Community Oncology Research Program (NCORP)

## Cancer Moonshot Biobank meets Columbia Digital Engagement

**Erik Harden, MA, and Jessica Hutchinson, RN, BSN**

Columbia NCORP has leveraged digital strategies to increase enrollment. The team has had a weekly automated patient list created and sent to them since March 2023, which has collectively produced more than 4,000 potentially eligible patients. In conjunction to those digital patient identification efforts, the team had a "patient biobank" educational video created. The video will be provided to patients identified from the automated reports to learn more information about the Cancer Moonshot℠ Biobank.

## Columbia University Minority Underserved NCORP Cancer Moonshot℠ Biobank Engagement Team

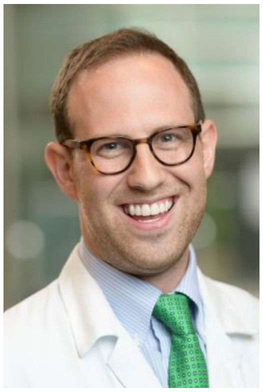
**Benjamin Herzberg, MD**, is a board-certified medical oncologist specializing in the treatment of thoracic malignancies, including non-small cell lung cancer, small cell lung cancer, mesothelioma, and thymoma. He is the study principal investigator and the physician champion for the study. Dr. Herzberg is a highly active researcher and works with a team of specialists to bring individual, compassionate care to each of his patients. Dr. Herzberg also works to clinically oversee proposed engagement activities and provide scientific direction in creating provider and patient materials. He supervises engagement study deliverables such as quarterly reports. He leads the biweekly Columbia Moonshot calls and delivers presentations on the ongoing work.

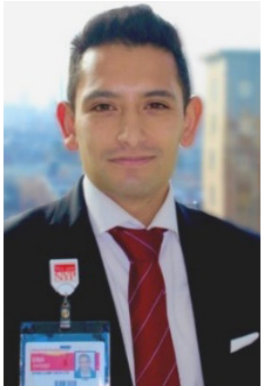
**Mary Beth Terry, PhD**, is a cancer epidemiologist with over 20 years of leading studies of cancer etiology specifically focused on the role of genetics, epigenetics, and other biomarkers play in modifying the effects of environmental exposures. Dr. Terry is the engagement principal investigator for this study. Currently, she leads numerous NIH grants funded by the NCI. Additionally, Dr. Terry is the director of the Community Outreach and Education (COE) office. Dr. Terry and her COE office work alongside Dr. Herzberg to oversee the creation of provider and patient materials and ensure they are culturally and educationally relevant for the audiences proposed. Dr. Terry and her COE office also create scripts for patients identified for the study. She also supervises the outreach efforts of the translation and outreach coordinator and community health workers.

**Belkis Poche**, is the translation and outreach coordinator. She is a committed healthcare worker with years of clinical, community engagement, and research experience. Poche has worked as a medical and nurse assistant, assisted grassroots organizations to improve reading and create youth development programs, and she goes out into the community to discuss cancer and cancer clinical trials. Poche, who is Dominican, works to ensure patient materials are culturally relevant to this population. She works with the research nurse navigator and Columbia NCORP team to speak with any Spanish-speaking patient identified or interested in the Cancer Moonshot℠ Biobank.

**Erik Harden, MS**, is the breast oncology senior clinical research manager at Columbia University Medical Center (CUMC) and the NCORP administrator for CUMC and CUMC's community and veteran affairs affiliates. Erik centrally coordinates all NCI research across Columbia and its five sub-affiliates while also supervising staff dedicated to NCI research and supporting staff who work on NCI research across Columbia and its affiliates. Erik plans on attending George Washington University's Doctor of Public Health (DrPH) program in the fall, where he hopes to study how to increase cancer clinical trial/research accessibility at community hospitals and VAs through digital engagement strategies.

**Finnegan I. Hall, MA**, is a clinical research coordinator with a strong passion for community health and increasing healthcare accessibility to underserved communities, which pairs excellently with his role as clinical research coordinator for the NCORP. He aspires to attend medical school in the near future and has a particular interest in emergency medicine, orthopedics, and endocrinology.





## Gulf South Minority Underserved NCI Community Oncology Research Program (NCORP)—Engagement Team

**Augusto Ochoa, MD**, is the Cancer Moonshot℠ Biobank project principal investigator. He is also the principal investigator for the Gulf South Clinical Trials Network. The Gulf South Clinical Trials Network aims to increase access to prevention, early detection, and treatment clinical trials for minority and underserved patients through a state-wide clinical trials program in Louisiana. Dr. Ochoa is also the deputy director at the Louisiana State University (LSU) LCMC Health Cancer Center and chair of the Department of Interdisciplinary Oncology. As the deputy director, Dr. Ochoa has made remarkable strides in training researchers and developing leaders. His primary objective has been to train young investigators in translational research programs to address cancer-related health disparities within their region. Dr. Ochoa also serves as the director of the Gulf South NCORP, a multi-institutional program providing crucial clinical trial opportunities to patients throughout Louisiana.

**Omeed Moaven, MD, FACS**, is the engagement principal investigator and physician champion. He is a board-certified surgical oncologist and assistant professor of surgery and interdisciplinary oncology at the LSU Health New Orleans School of Medicine and LSU LCMC Health Cancer Center. He received his medical degree from Mashhad University. Among many other things, Dr. Moaven has also established LSU LCMC Health Cancer Center's biobank and serves as the director of the biobank and the biorepository core of the cancer center. He is the site primary investigator for the Alliance of Clinical Trials in Oncology in the Gulf Shore NCORP. He is a committee member in various national professional societies, including the American Hepatopancreatobiliary Association and the Alliance for Clinical Trials in Oncology.

**Cambri Moeller, MS**, is a clinical research coordinator focused primarily on specimen collection trials and the lead Cancer Moonshot℠ Biobank engagement coordinator. Cambri graduated with her bachelor's in biology from the University of Louisiana at Lafayette in 2017 and received her MS in biomedical sciences from Mississippi College in 2019. In this study, she is responsible for working with physicians and clinic personnel to increase Cancer Moonshot℠ Biobank education and involvement, as well as patient screening, enrollment, and coordination of sample collection.

**Celeste Daigneault, MT(ASCP)**, is one of the biobank operations leads. For the Cancer Moonshot℠ Biobank project, she helps with tissue procurement and processing. She is also involved with provider engagement.

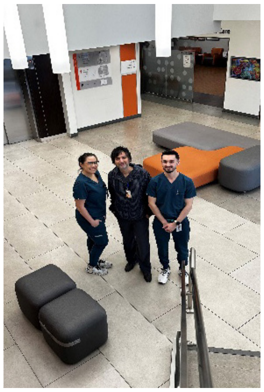
## Nevada Cancer Research Foundation NCI Community Oncology Research Program (NCORP)—Engagement Team

Nevada Cancer Research Foundation (NCRF) has been at the forefront of community-driven research for the past four decades. With a dedicated team of 22 employees and two principal investigators, the team collaborates closely with six local adult clinics, one pediatric clinic, and other sites spanning the West Coast.

**Khawaja Saad Jahangir, MD**, has been instrumental as the team's Cancer Moonshot$^{SM}$ Biobank champion, facilitating the enrollment of patients into NCRF's studies. Within the team, **Valerie Littlefield** brings over 12 years of experience as an associate program administrator, ensuring smooth operations and coordination. **Diamond Rozek**, the team's program coordinator, has contributed her expertise for the past six years, driving the execution of the team's initiatives.

**Giovannie Carideo**, the team's senior clinical research coordinator, has been with NCRF for 2.5 years, demonstrating exceptional dedication and proficiency in patient care. **Daniela Perez**, the Cancer Moonshot$^{SM}$ Biobank coordinator, joined the team less than a year ago but has already made significant contributions to the team's mission.

At the helm of the group's administration is **Shannon Yule**, who boasts an impressive 23 years with NCRF, providing invaluable leadership and guidance to the organization.



## Wisconsin NCI Community Oncology Research Program (NCORP)

### Marshfield Clinic Health System Cancer Moonshot Engagement Team

**Wendy Schumacher, RN, BSN, oncology research nurse**

Oncology research trials have always been a key aspect of cancer care at the Marshfield Clinic Health System, especially in its rural communities. Its mission is to support basic and translational biomedical research to improve human health by continually advancing disease knowledge and increasing the availability of new therapies. The team continues to work on community engagement opportunities knowing that this engagement in research promotes collaboration, innovation, and excellence in cancer research while increasing patient awareness to oncology research opportunities and therefore increasing patient enrollments.

## Marshfield Clinic Research Institute—Cancer Moonshot Biobank Project Engagement Team

The Marshfield Clinic Cancer Care and Research Center is a branch of the Marshfield Clinic Research Institute, one of the largest private medical research institutes in Wisconsin. Currently, Marshfield Clinic has enrolled a total of 40 patients in the Cancer Moonshot℠ Biobank project, 34 of whom are currently active. Of those 34 active patients, 21 are under the care of Dr. Onitilo.

For the engagement project, the team intended to deploy existing strategies as well as innovative ways to engage the community and bring awareness of the community to the importance of the Cancer Moonshot℠ Biobank project. Unfortunately, the team had to halt its community engagement due to COVID-19 and the loss of all the previous engagement staff. The group is in the process of restructuring engagement project strategies.

Currently, two main staff members work on the Cancer Moonshot℠ Biobank protocol, including **Alicia Rowland** and **Wendy Schumacher**, whose efforts are supported by Dr. Onitilo.

**Adedayo Onitilo, MD, PhD, MSCR, FACP**, serves as the director of the Marshfield Clinic Cancer Care and Research Center, Wisconsin NCORP principal investigator, director of the Oncology/Hematology/Radiation Oncology/Palliative Medicine Service Line, clinical adjunct professor of medicine with the University of Wisconsin-Madison, and editor-in-chief of *Clinical Medicine & Research*. Dr. Onitilo is a strong champion for biospecimen research within the Marshfield Clinic Health System and has worked to overcome many systemic obstacles to biospecimen and oncology research.

**Alicia Rowland, MA**, is the team's research coordinator. She has a bachelor's degree in psychology from the University of Minnesota-Twin Cities and a master's degree in psychology from the University of Chicago. She joined Marshfield Clinic in August 2023. In this study, Alicia oversees enrolling, data entry, patient tracking, and preparation of study kits.

**Wendy Schumacher, RN, BSN**, is the team's research nurse. She has a bachelor's degree in nursing from the University of Wisconsin-Oshkosh. She joined Marshfield Clinic in May 2023. In this study, Wendy is in charge of patient screening and consenting and assists with enrolling (or anything else to help Alicia).

The team thanks Dr. Onitilo for his support and guidance with the Cancer Moonshot℠ Biobank protocol and looks forward to the future of enrolling more patients and engaging the patients and other providers.