



The Whether, How, and When of Race in Cancer Disparities Research: Three Viewpoints

Americana Ballroom Salon 4

Chairperson: Timothy R. Rebbeck, University of Pennsylvania School of Medicine, Philadelphia, PA

The concepts of race, ethnicity, and ancestry are commonly used in biomedical research. It is not always clear if or when this designation is appropriate, or how to interpret research results that involve race. There are widely divergent perceptions and uses of the value and use of race, ethnicity, or ancestry in research. Furthermore, race is being used in the translation of research into clinical practice. This session will present three different perspectives on the use and meaning of race in cancer disparities research.

A social and ethical perspective

Vence Bonham, National Human Genome Research Institute, Bethesda, MD

A Native American community perspective

Judith S. Kaur, Mayo Clinic College of Medicine, Rochester, MN

An epidemiologist's perspective

Timothy R. Rebbeck, University of Pennsylvania School of Medicine, Philadelphia, PA



The Chronic Disease Prevention Model: It's Time To Think Strategically

Americana Ballroom Salon 4

Chairperson: Elena Martínez, University of Arizona Cancer Center, Tucson, AZ

According to the World Health Organization, chronic noncommunicable diseases, including cancer, are responsible for 60% of all deaths worldwide. This global epidemic represents diseases that are highly preventable through the elimination of shared risk factors that include tobacco use, unhealthy diet, physical inactivity, and harmful use of alcohol. Prevalence of these risk factors is known to be disproportionately higher among racial/ethnic minorities and individuals from poor communities. Thus, while important gains have been made in primary prevention of chronic diseases, some population groups continue to lag behind. This session will highlight the principles of the chronic disease model and describe opportunities for launching collaborative programs across disease sites including cancer, cardiovascular diseases, chronic respiratory diseases, and diabetes. This comprehensive approach has the potential to ultimately improve cancer and other chronic disease prevention efforts in underserved communities.

Strategic considerations in applying U.S.-conceived models in cultures or settings other than those in which they were tested [ED02-01]*

Lawrence W. Green, University of California, San Francisco, CA

Vitamin D status as a measure of chronic disease risk [ED02-02]*

Elizabeth T. Jacobs, University of Arizona Cancer Center, Tucson, AZ

Addressing physical activity and obesity in the primary prevention of cancer [ED02-03]*

Antronette Yancey, University of California Los Angeles School of Public Health, Los Angeles, CA

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).



Americana Ballroom Salon 4

Welcome and Opening Remarks

Margaret Foti, AACR, Philadelphia, PA

Levi A. Garraway, Dana-Farber Cancer Institute, Boston, MA

Special Video Presentation

Science Policy Evolves From Science

The formulation and implementation of government programs that are aimed at combating cancer health disparities, either through specific proposals acted upon by Congress or established administratively through the efforts of federal agency officials, are most effective when they proceed from a solid scientific foundation. This special short video presentation includes perspectives of numerous Congressional and federal agency leaders as they provide their ideas and thoughts on the specific policy prescriptions that are necessary to help combat cancer health disparities.

Keynote Address

Money, maps, and mom: Fighting cancer in the 21st century [KN01]*

Arthur L. Kellermann, RAND Corporation, Arlington, VA

First AACR Distinguished Lecture on the Science of Cancer Health Disparities
in Racial/Ethnic Minorities and the Medically Underserved
Supported by a generous grant from Susan G. Komen for the Cure®

Charles M. Perou, University of North Carolina, Lineberger Comprehensive Cancer Center,
Chapel Hill, NC

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).



How Can Science Drive Public Discourse to Impact Cancer Health Disparities?

Americana Ballroom Salon 4

Chairperson: Garth Graham, U.S. Department of Health and Human Services, Rockville, MD

Title to be announced

Garth Graham, U.S. Department of Health and Human Services, Rockville, MD

Where racial/ethnic populations are with respect to the cancer fight

Moon S. Chen, Jr., University of California Davis Cancer Center, Sacramento, CA

Title to be announced

Lovell A. Jones, UT M. D. Anderson Cancer Center, Houston, TX



Blending Methodologies to Optimize Cancer Disparities Research

Americana Ballroom Salon 4

Chairperson: Rena J. Pasick, UCSF Helen Diller Family Comprehensive Cancer Center, San Francisco, CA

This session will explore what is missed when interventions and behavior are studied using only quantitative/deductive methods and the insights to culture and social context that can be achieved when blending the above with qualitative/inductive methods. Importantly, reviewers are responding very favorably to these approaches. Topics include the quantifiability of culture; the limitations of focus group methodology in seeking cultural sensitivity; and examples of mixed methods configurations in cancer disparities studies and the possibilities of those still to come.

The imperative of mixed methods for cancer disparities research [PL01-01]*

Rena J. Pasick, UCSF Helen Diller Family Comprehensive Cancer Center, San Francisco, CA

The methodologies of mixed methods research

Anthony Onwuegbuzie, Sam Houston State University, Huntsville, TX

Advancing racial and ethnic health disparities research through mixed methods

Sheba George, Charles Drew University of Medicine and Science, Cerritos, CA

Contexts of clinical trials decision making: A multimethod approach [PL01-04]*

Nancy J. Burke, University of California, San Francisco, CA

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).



Prostate Cancer: Disparities in the Most Common Cancer in Men

Americana Ballroom Salon 4

Chairperson: William G. Nelson, Johns Hopkins Kimmel Comprehensive Cancer Center, Baltimore, MD

Prostate cancer has become one of the leading causes of morbidity and mortality among men in the United States, especially for African American men. Disparities in prostate cancer outcomes among different race/ethnic groups are striking: Death rates for African American men are nearly twice those for Caucasians. The source of these disparities are complex, ranging from differential access to and utilization of screening, varied attitudes toward treatments and treatment options, inherited susceptibilities for disease development, and differences in molecular pathways for disease pathogenesis. This session focused on prostate cancer disparities will tackle each of these contributing factors.

Race/ethnicity and inherited susceptibility to prostate cancer

Kathleen A. Cooney, University of Michigan Comprehensive Cancer Center, Ann Arbor, MI

Profiling of prostate tumors to identify factors that contribute to health disparities [PL02-02]*

Stefan Ambs, National Cancer Institute, Bethesda, MD

Disparities in screening and primary treatment for prostate cancer

Stephen J. Freedland, Duke University, Durham, NC

Disparities in treatment decision making, watchful waiting/expectant management of indolent prostate cancer [PL02-04]*

Mack Roach, III, UCSF Helen Diller Family Comprehensive Cancer Center, San Francisco, CA

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).



Spotlight on Proffered Abstracts: Session 1

Americana Ballroom Salon 4

Chairperson: Levi A. Garraway, Dana-Farber Cancer Institute, Boston, MA

Genetic African ancestry and race differences in blood insulin-like growth factor 1 (IGF-1), IGF-2, and IGF binding protein 3 (IGFBP-3) [PR-1]*

Jay H. Flowke, Vanderbilt University, Nashville, TN

Within-group differences between native-born and foreign-born black men on prostate cancer risk reduction and early detection practices [PR-2]*

Folakemi Odedina, University of Florida, Gainesville, FL

CDX-2 polymorphism, calcium intake and prostate cancer risk for African Americans in a population-based study [PR-3]*

Glovioell Rowland, University of Southern California, Los Angeles, CA

Genetic heterogeneity in colorectal cancer associations in African Americans [PR-4]*

Nathan A. Ellis, University of Illinois at Chicago, Chicago, IL

*An extended abstract for this presentation is available in the Proffered Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).



Global Cancer Research and Training: Collaborating Internationally to Improve Health Outcomes

Americana Ballroom Salon 4

Chairpersons: Silvia Franceschi, International Agency for Research on Cancer, Lyon, France;
Serigne M. Gueye, African Organization for Research and Training in Cancer (AORTIC), Dakar, Senegal

Cancer is becoming more of a global burden than ever. In response, attendees will hear from national and international experts in cancer health disparities research and training and share in a discussion of new and proposed interventions, strategies, and programs to address the reduction and/or elimination of global cancer health disparities.

The intent of the session is to: 1) Identify biomedical research opportunities to train the next generation of medical and behavioral researchers, both U.S. and international, in global cancer health disparities. 2) Discuss strategies to collect, analyze, and disseminate research and training on the prevention, diagnosis, and treatment of cancer among racial and ethnic groups in developing and developed countries. 3) Stimulate the creation of innovative comprehensive approaches to address global cancer health disparities. 4) Identify opportunities to develop scientific teams to strengthen the current international research agenda to include initiatives that provide the region/country with research infrastructure. 5) Develop and enhance personalized, culturally appropriate interventions and strategies to improve health outcomes, expand global research training efforts, and integrate community-based participatory research.

Overview

Silvia Franceschi, International Agency for Research on Cancer, Lyon, France;
Serigne M. Gueye, African Organization for Research and Training in Cancer (AORTIC), Dakar, Senegal

Differences in global cancer incidence, burden, outcome, and future predictions

Silvia Franceschi, International Agency for Research on Cancer, Lyon, France

Defining standards of care and quality metrics in low-resource settings [PL03-03]*

Benjamin Anderson, Fred Hutchinson Cancer Research Center, Seattle, WA

Discussion

Using a cancer prevention service infrastructure to foster the development of international research capacity initiatives: Lessons from Zambia

Groesbeck Parham, Center for Infectious Disease Research in Zambia (CIDRZ), Lusaka, Zambia

International clinical research: Barriers and challenges – A vision from independent and publicly funded trials [PL03-05]*

Eduardo Cazap, Latin American and Caribbean Society of Medical Oncology (SLACOM), Buenos Aires, Argentina

Discussion

Cancer genetics in the African diaspora

Rick A. Kittles, University of Chicago, Chicago, IL

Building cancer research and training partnership that promote capacity building in Africa

Serigne M. Gueye, African Organization for Research and Training in Cancer (AORTIC), Dakar, Senegal

Discussion

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).



Analytical Methods

Administrative and Large-Scale Database Methods

A1 NCI CRCHD Geographic Management Program (GMAP): Catalyzing inter-institutional collaboration for enhanced cancer health disparity (CHD) research and outreach. Steven R. Patierno, Peter Shields, Sarah Hijaz, Sarah Reisinger.

A2 The efficacy of administrative and large-scale databases for measuring cancer health disparities among micro-minorities: The case of native Hawaiians and Pacific Islanders. Sela V. Panapasa, David Williams, James McNally.

Multilevel Analysis

A3 Design and model for breast cancer literacy outcomes among medically underserved females in Michigan. David Todem, Karen Patricia Williams.

A4 Do social class gradients predict breast cancer burden differently for black and white women? Ann C. Klassen, Frank Curriero, Abigail Ward.

Statistical and Epidemiological Models

A5 Structural equation modeling analysis associated with prostate cancer screening among Chinese American men. Grace X. Ma, Min Q. Wang, Wanzhen Gao, Steven E. Shive, Jamil I. Toubbeh.

Behavioral and Social Science

Cancer Communications

A6 Clinical trial awareness among racial/ethnic minorities in HINTS 2007: Sociodemographic, attitudinal, and knowledge correlates. Aisha T. Langford, Ken Resnicow, Lawrence An.

A7 Ethnic variations in trusted sources of prostate cancer information among American, Jamaican, and Bahamian black men. Shanita D. Williams, Louie Ross, Lisa Hinton, V. Diane Woods, Robin Roberts.

A8 Increasing knowledge of cancer clinical trials among Hispanic cancer patients and caregivers. Gwendolyn P. Quinn, Susan T. Vadaparampil, Clement K. Gwede, Cathy D. Meade, Teresita M. Antonia, Kristin Wells.

A9 Perceptions of information provided by oncologists in clinical interactions with black and white patients/companions. Susan Eggly, Louis A. Penner, Felicity W.K. Harper, Ludmila Zhdanova, Richard Gonzalez, Terrance L. Albrecht.

A10 Multimodal training of primary care physicians in cancer risk communication. Eboni Price-Haywood, Kit Shelby, Lisa A. Cooper.

A11 Development and validation of a scale to measure patient perceived similarity to their navigator. Mechelle R. Sanders, Kevin Fiscella, Paul C. Winters, Charcy M. Salamone.

A12 You're putting what, where? Using humor to increase colonoscopy rates among African Americans. Linda G. Blount, Christopher E. Ervin.

A13 How do breast imaging centers communicate results: A national survey. Erin N. Marcus, Tulay Koru-Sengul.

A14 Qualitative study of African American smokers regarding lung cancer. Christopher Lathan, Emily Browning, Joshua Gagne.

A15 Increasing participation in therapeutic clinical trials among African Americans with cancer. Deliya R. Banda, Sandra M. Swain.



A16 Dissemination and end-user evaluation of a culturally targeted brochure about hereditary breast and ovarian cancer for black women. Susan T. Vadaparampil, Patrice J. Fleming, Desiree Rivers, Veronica Harville, Tuya Pal.

A17 Health and cancer information seeking practices and preferences: HINTS in Puerto Rico. Guillermo Tortolero-Luna, Lila J. Finney Rutten, Bradford W. Hesse, Terisa Davis, Richard P. Moser, Ana P. Ortiz-Martinez, Julie Kornfeld, Marta M. Sanchez-Aracil, Ruby A. Serrano-Rodríguez, Kia Davis.

A18 To bank or not to bank: Engaging community members in discussions about biobanking. Shalewa Noel-Thomas, Gwendolyn Quinn, Shalanda Bynum, Clement K. Gwede, Nazach Rodriguez-Snapp, Mariana Arevalo, John S. Luque, Dale Watson, Jim W. West, Gloria San Miguel, Margarita Romo, Carmen Reyes, Cathy Meade.

A19 Haitian Creole photo-novella for communicating on colorectal cancer screening and early detection to reduce cancer health disparities. Clement K. Gwede, Emmanuel Jean-Francois, Gwendolyn P. Quinn, Shaenelle Wilson, Susan T. Vadaparampil, Shalewa Noel-Thomas, Cathy D. Meade.

Community-based Interventions

A20 Increasing pap testing with a community-based educational intervention in the Latina population. Jessica L. Barnack-Tavlaris, Ana Navarro, Kate Murray, Marianne McKennett, Lori McNicholas, Olga Sanchez.

A21 Changes in healthcare utilization following community cancer education programs. Kate Murray, Ana Navarro, Jessica Barnack-Tavlaris, Lupe Minero, Olga Sanchez.

A22 New instrument to measure functional breast cancer literacy. Karen Patricia Williams, Thomas N. Templin.

A23 Psychometric development and validation of a Patient Satisfaction with Interpersonal Relationship with Navigator (PSN-I) measure: A multisite National Cancer Institute-sponsored Patient Navigation Research Program (PNRP) study. Pascal Jean-Pierre, Kevin Fiscella, Paul C. Winters, Kristen Wells, Tracy Battaglia, Douglas Post, Melissa Simon, Kristin Kilbourn.

A24 Successful translation of a colorectal cancer screening intervention into practice. Daniel S. Blumenthal, Selina Smith, Lisa Hinton.

A25 Reaching diverse populations about cancer clinical trials: Lessons learned from ENACCT's pilot education program. Margo Michaels, Natasha Blakeney, Abbey Britton, Liz Swords, Naomi Bitow, Brian Gibbs, Samantha Yeun, Bruce Rytkonen, Robert Goodman, Amanda Greene, Lisbeth Jarama.

A26 Caseload for patient navigation: What is keeping navigators busy? Howard Mary Beth, Karen Freund, Tracy Battaglia.

A27 Developing sisters informing sisters: A peer-based intervention in treatment decision making for newly diagnosed black breast cancer patients. Vanessa B. Sheppard.

A28 Reaching vulnerable populations: A process-oriented approach to breast screening. Jena Baker-Calloway, Terrance L. Albrecht, Lisa Berry-Bobovski, William Stengle, Kelly Brittain, Carie Francis.

A29 Community-based approach to developing a cervical cancer patient navigator program: A pilot. Kristen J. Wells, Sara K. Proctor, Maria Rivera, Gloria Arroyo, Gwendolyn P. Quinn, Shalanda Bynum, Marlene Rivera, Dinorah Martinez-Tyson, Cathy D. Meade.

A30 A cancer education program for community health workers in NYC. Martha M. Sanchez, Victor R. Grann, Carol Magai, Maxine Ashby-Thomson, Ana Chacon, Patricia Hepburn, Brenda Adjai, Alfred Neugut.



A31 Patient navigation for culturally diverse populations: The experience of the Moffitt Cancer Center's Patient Navigator Research Program (PNRP).

Kristen J. Wells, Ercilia R. Calcano, Cathy D. Meade, Richard G. Roetzheim G. Roetzheim, Angela Estampador, Lilllean Arevalo-Mez, Luis Espejo, Rania Abdulla, Yolanda Sarmiento, Nikki Ross-Inda, Diana Sanchez, Lisa Gonzalez, Aileen Reyes-Garcia, Marlene Rivera.

Diffusion and Dissemination Research

A32 Tackling cancer health disparities through science, training, and community: Generating new knowledge through continuing education.

Cathy D. Meade, Clement K. Gwede, Shalewa Noel-Thomas, Shalanda Bynum, Chrystyna Pospolyta, Cindy Burcham, Mariana Arevalo.

Genetic Testing and Counseling

A33 Culturally relevant cancer risk counseling for underserved Latinas.

Juarez Gloria, Martin Perez, Veronica Lagos, Katheleen Blazer, Raquel Ogaz, Jeffrey Weitzel.

A34 Short-term evaluation of telephone-based genetic counseling for hereditary breast and ovarian cancer among African American women: A pilot study.

Susan T. Vadaparampil, Tuya Pal.

A35 Mothers and daughters: A key to acceptability of genetic testing for breast cancer among Latina women.

Amelie G. Ramirez, Alan Holden, Sandra L. San Miguel, Kipling J. Gallion.

A36 Awareness and use of genetic tests among Puerto Rican adults: results from the Health Information National Trends Survey in Puerto Rico.

Ana P. Ortiz-Martinez, Magdalena Lopez, Libertad Flores, Marievelisse Soto-Salgado, Ruby A. Serrano-Rodriguez, Lila J. Finney Rutten, Bradford W. Hesse, Guillermo Tortolero-Luna.

Recruitment/Retention/Adherence Research

A37 Methodological considerations in comparing first-generation Jamaican black immigrants to U.S.-born black (African American) men in public health, behavioral, or health disparities research.

Shanita D. Williams, Louie Ross, Lisa Hinton, Robin Roberts, V. Diane Woods.

A38 A pilot program in collaboration with African American churches successfully increases the African American population awareness of the importance of cancer research and their participation in cancer translational research studies.

Monica L. Albertie, Gerardo Colon-Otero, Mary Lesperance, Jennifer Weis, Alton Coles, Nina Smith, Lynette Mills, Timothy Woodward, Alvaro Moreno Aspitia, Prakash Vishnu, Floyd Willis, Amber Isley, Raphael Fonseca, Celine Vachon, S. Vincent Rajkumar.

A39 Enhancing diversity in clinical trials: Solutions from community members.

Marvella E. Ford, Laura A. Siminoff, Elisabeth Pickelsimer, Arch G. Mainous, III, Dam W. Smith, Vanessa Diaz, Lea H. Soderstrom, Barbara C. Tilley.

A40 An institutional strategy to increase minority recruitment to therapeutic trials.

Victoria V. Anwuri, Lannis E. Hall, Katherine Mathews, Brian C. Springer, Jennifer R. Tappenden, Dione M. Farria, Sherrill Jackson, Timothy J. Eberlein, Graham A. Colditz.

A42 Optimizing health care systems recruitment and retention practices for medically underserved populations: Impact of ENACCT cancer clinical trial staff training.

Natasha C. Blakeney, Margo Michaels, Abbey Britton, Liz Swords, Naomi Bitow, Brian Gibbs, Samantha Yeun, Bruce Rytkenon, Robert Goodman, Amanda Greene, Lisbeth Jarama.



A43 Recruitment and retention success of African Americans in a vitamin D supplementation trial.

Bettina F. Drake, Jamil B. Scott, Elizabeth Gonzalez-Suarez, Karen M. Emmons, Edward Giovannucci, Charles Fuchs.

A44 Minority enrollment to clinical trials: experience at the Dan L. Duncan Cancer Center.

Martha P. Mims, Susan Blaney, Bambi Grilley, Helen Heslop, C. Kent Osborne, Maria L. Jibaja Weiss.

Socioeconomic Influences

A45 Patterns of care regarding surgical choice and application of adjuvant radiation therapy for preinvasive and early-stage breast cancer in rural Appalachia.

Andrew Freeman, Bin Huang, Anthony Dragun.

A46 Neighborhood socioeconomic deprivation and all-cause, cancer-, and CVD-specific mortality: NIH-AARP Study.

Jacqueline M. Major, Chyke A. Doubeni, Neal D. Freedman, Yikyung Park, Min Lian, Albert R. Hollenbeck, Arthur Schatzkin, Barry I. Graubard, Rashmi Sinha.

A47 Delayed stage colorectal adenocarcinoma diagnosis: Are we neglecting critical demographic information?

John W. Morgan, Christine Guenzi, Myung Mi Cho, Christian Jackson, Sharon L. Lum, Zuhair Natto, Padma Uppala.

A48 Class, culture, and patterns of cancer care navigation.

Elizabeth A. Gage.

A49 Colorectal cancer screening practices by race and physician specialty.

Karon L. Phillips, Chyke Doubeni.

A50 Impacts of poverty threshold and health insurance on breast cancer screening in California.

In Kyu Kim.

A51 Financial and psychosocial impacts of adjuvant chemotherapy in older colorectal cancer patients: Differences by income.

Elisa S. Weiss, Elena Elkin, Amy Hamilton, Shilpa Patel, Larissa K. Temple.

Biomarkers

Biomarkers in Cancer Surveillance and Screening

A52 Metabolomic profiling reveals impaired xenobiotic metabolism in bladder cancer.

Nagireddy Putluri, Vihas T. Vasu, Ali Shojaie, Gagan Singh Thangjam, Shaiju K. Vareed, Vasanta Putluri, Charles Butler, Judith G. Giri, Mary Anne Park, Rajeshwari Ponnala, Theodore R. Sana, Steven M. Fischer, Gabriel Sica, Daniel J. Brat, Huidong Shi, Martha K. Terris, George Michailidis, Arun Sreekumar.

A53 Comprehensive population-specific biobehavioral marker panel for early prostate cancer diagnostics and risk assessment: A DETECT study.

Ganna Chornokur, Hui-Yi Lin, Nagi B. Kumar.

Biomarkers in Intervention Studies

A54 miRNA profiling: Prognostic markers in chemoprevention.

Jennie L. Williams, Ping Ji.

Biomarkers of Risk and Surrogate Endpoints

A55 Regional differences in breast cancer biomarkers in American Indian and Alaska Native women.

Judith S. Kaur, Robert Vierkant, Shannon Myers.

A56 Mitochondrial DNA damage as a biomarker of colorectal cancer susceptibility.

Carlos A. Torres-Ramos, Sylvette Ayala-Torres, Sharon Fonseca-Williams, Randa El-Zein.

Molecular Diagnostics

A57 Progress on a universal classifier for tumor samples.

Nia Jackson, Steven Enkemann.

Novel Technologies

A58 Super SILAC proteomics for childhood blood cancers.

William E. Haskins.



Cancer Treatment and Outcomes

Drug Design, Discovery, and Delivery

A59 Developing novel peptide inhibitors to chromosomal cohesion using mRNA display for nanodrug delivery in breast cancer therapy. Elizabeth O. McCullum, Debananda Pati.

Late Effects/Survivorship

A60 Preliminary findings from the Southern Community Cancer Survivorship Study: Disparities in late effects, Part 1. Ann M. Flores, Mary Dietrich, William J. Blot.

A61 Prevalence of memory problems that limit daily functioning in a national representative sample of adult cancer patients in the United States population. Michael Antoni, Pascal Jean-Pierre, Daniel Armstrong, Steven Lipschultz, Tracie L. Miller.

A62 Survival outcomes in patients with curable cancers: Disparities by Medicaid status. Siran M. Koroukian, Paul M. Bakaki, Derek Raghavan.

A63 Effectiveness of a holistic mind-body intervention to treat fatigue in breast cancer survivors: Does race make a difference? Susan E. Appling, Ryan MacDonald, Susan Scarvalone, Lisa Gallicchio, Kathy Helzlsouer.

A64 Review on the application of laser thermal therapy for palliation of recurrent head and neck cancer. Marcos B. Paiva, Michael Bublik, Marcio Abrahao, Joel Sercarz.

Proteomics, Chemogenomics, and Chemoinformatics

A65 Changes in protein expression related to acidosis in the tumor microenvironment. Karla J. Schramm, Sophie Vibet, Umut Oguz, Jonathan Wojtkowiak, John M. Koomen, Robert J. Gillies.

A66 Integrative phosphoproteomic analysis of signaling pathways in *NRAS*-mutated melanoma.

Beulah D. Joseph, Inna V. Fedorenko, Kim H.T. Paraiso, Bin Fang, John M. Koomen, Keiran S.M. Smalley.

A67 An LC-MRM method to simultaneously measure abundance and activation of Src family tyrosine kinases in a B cell line model of IL-6 signaling. Joel Aliancy, Jr., Mark B. Meads, Elizabeth Wood, Yi Chen, John M. Koomen, William S. Dalton, Kenneth H. Shain.

A68 Assessing dose response to kinase inhibitors using quantitative mass spectrometry. Nicholas J. Eustace, Bin Fang, Guolin Zhang, Jiannong Li, Takeshi Yoshida, John M. Koomen, Eric B. Haura.

Quality of Life

A69 Quality of life among ethnically diverse prostate cancer survivors: A first look. Kyra Selwyn, Cameron Paine-Thaler, Cathy Roche, Bradley Morganstern.

A70 Crafting a collaborative agenda to create health equality: Outcomes from a cancer survivorship research roundtable. Mandi Chapman, Amina L. Gilyard, Steven Patierno.

A71 Perceived stress management skills and quality of life in ethnic minority men newly diagnosed with prostate cancer. Natalie E. Bustillo, Mikal Rasheed, Catherine Benedict, Eric Zhou, Bruce Kava, Mark Soloway, Michael Antoni, Jose Szapocznik, Frank J. Penedo.

A72 A qualitative examination of the quality of life of African American prostate cancer survivors and their spouses. Brian Rivers, Euna August, Clement K. Gwede, Julio Pow-Sang, Bernard Lee Green, Gwendolyn P. Quinn.

Second Cancers

A73 Multiple primary malignancies in early-stage breast cancer patients. Dolly Quispe, Rebecca Roques-Davis, Runhua Shi, Gary V. Burton.



Epidemiology, Lifestyle, and Genetics

Behavioral Epidemiology

A74 Lifestyle patterns and the risk for prostate cancer among African American men: The multiethnic cohort. Paxton Raheem, Lynne Wilkens, Kris Monroe, Brian Henderson, Shine Chang, Laurence Kolonel.

A75 Ten-year retrospective cross-racial and -ethnic prostate cancer incidence and mortality in the Florida Department of Corrections. Meghan E. Borysova, David T. Ensley, Nagi B. Kumar.

A76 Cancer control outcomes in Asian Americans: Using secondary data from large surveys to investigate populations with limited sample. Wen-ying Sylvia Chou, April Oh, Salma Shariff-Marco, Richard M. Moser, Shobha Srinivasan.

Diet and Nutrition

A77 Gastric cancer risk in relation to capsaicin intake, *H. pylori* CagA status and IL1B-31C>T genotypes. Lizbeth Lopez-Carrillo, Constanza Camargo, Mariano E. Cebrian, Barbara G. Schneider, Liviu A. Sicinschi, Raul U. Hernandez-Ramirez, Pelayo Correa.

A78 Associations between IGF-axis, testosterone and nutrients in healthy African American and Caucasian men at increased risk for prostate cancer. Tanya D. Agurs-Collins, Kephher Makambi, Hyunuk Seung, Bruce J. Trock, Kevin J. Cullen.

A79 Vitamin D status and breast cancer aggressiveness among African American and European American women in South Carolina. Susan E. Steck, Rebecca Rosling, E. Angela Murphy, J. Mark Davis, James R. Hebert.

Exercise and Prevention

A80 Physical activity reduces breast cancer risk in African American women. Vanessa Sheppard, Kephher Makambi, Sherrie Wallington, Jennifer Sween, Lucile Adams-Campbell, Teletia Taylor.

Familial and Genetic Epidemiology

A82 The *FTO* obesity gene and the risk of postmenopausal breast cancer among the medically underserved population in rural Pennsylvania. Diane T. Smelser, Glenn S. Gerhard, Nikita Patel, Alicia Golden, Azadeh Stark.

General Epidemiology and Biostatistics

A83 The Women's Circle of Health Study: Studying breast cancer disparities through collaborative efforts. Elisa V. Bandera, Gregory Ciupak, Helena Hwang, Gary Zirpoli, Lina Jandorf, Karen Pawlish, Kitaw Demissie, Dana Bovbjerg, Christine Ambrosone.

A84 Risk factors for lung cancer in Nepal. Mia Hashibe, Bhola Siwakoti, Binay Kumar Thakur, Chin Bahadur Pun, Bhakta Man Shrestha, Zachary Burningham, Amir Sapkota.

A85 Breast cancer pathology, receptor status, and patterns of metastasis in a rural Appalachian population. Linda C. Vona-Davis, Vijaya Gadiyaram, Barbara Ducatman, Sobha Kurian, Jame Abraham, Hannah Hazard, Gerald Hobbs.

A86 Sociodemographic correlates of cancer survivors in the United States. Tainya C. Clarke, David J. Lee, Lora E. Fleming, Kristopher L. Arheart, Alberto J. Caban-Martinez, Manuel Ocasio, Michael H. Antoni.

A87 The epidemiology of breast and cervical cancer: pre- and post-National Health Insurance Scheme in Ashanti Region of Ghana. Yussif Dokurugu, Perry Brown, Tyra Dark, Baffour Awuah.



Molecular Epidemiology

A88 Differences in plasma and breast tissue adipokine levels by race and obesity status. Adana A. Llanos, Ramona G. Dumitrescu, Catalin Marian, Hyunuk Seung, Kephher Makambi, Scott L. Spear, Bhaskar V.S. Kallakury, Jo Freudenheim, Peter G. Shields.

A89 HER2-overexpressing tumors and time since last pregnancy. Giovanna I. Cruz, Melissa Bondy, Adrian Daneri-Navarro, Maria Mercedes Meza-Montenegro, Luis Enrique Gutiérrez-Millan, María Elena Martínez, Patricia Thompson-Carino.

A90 Nonmelanoma skin cancer epidemiology and DNA repair in Puerto Ricans. Manuel Bayona, Jose F. Vidal, Luisa Morales, Carolina Alvarez-Garriga, Jorge Sanchez, Jaime Villa, Abigail Ruiz, Jaime L. Matta.

A91 Epigenetic deregulation of *IGF2* and cervical cancer precursors in HIV+ and HIV- patients. Cathrine Hoyo.

A92 Preliminary report on the methylation status of *CDKN2A* and *MLH1* genes in Puerto Rican patients with acute myeloid leukemia. Maribel Tirado-Gomez, Raul D. Bernabe-Dones, Mercedes Y. Lacourt, Cristina I. Castro-Munoz, Maribel Cotto-Santiago.

Organ Site Research

Breast Cancer

A93 Investigating reasons for ethnic disparities in breast cancer survival in New Zealand. Fiona McKenzie, Lis Ellison-Loschmann, Mona Jeffreys.

A94 Multidisciplinary team approach improves breast cancer survival in minority women. Derrick J. Beech, Abiola Atanda, Beverly Weatherspoon.

A96 Breast tumor subtypes and survival outcomes in African American and Latina patients in South Los Angeles. Jaydutt V. Vadgama, Yanyuan Wu, Marianna Sarkissyan, Yayha Elshimali, Hezla Mohamed, Sheila Clayton, Dennis Slamon, H. Phillip Koeffler.

A97 Loss of function for *FOXO1A* contributes to poor outcome in African American and Latina women with breast cancer. Yanyuan Wu, Marianna Sarkissyan, Yayha Elshimali, Hezla Mohamed, Sheila Clayton, Dennis Slamon, Phillip H. Koeffler, Jaydutt V. Vadgama.

A98 Zinc transporter activation and the later age of lactation may increase the risk for breast cancer. Clara L. Jones, Leslie A. Johnson, Jessica Abercrombie, Omar Bagasra.

A99 Passive smoking increases the risk of breast cancer among pre- and postmenopausal Mexican women. Olivia L. Chilian-Herrera, Kenneth P. Cantor, Raúl U. Hernández-Ramírez, Lizbeth López-Carrillo.

A100 Alcohol promotes breast cancer cell invasion by regulating the *Nm23-ITGA5* pathway. Nomeli P. Nunez.

A101 A novel resource to accelerate research into the cause and prevention of breast cancer: The Love/Avon Army of Women. Susan M. Love.

A102 The role of socioeconomic status, pathology and genetic biomarkers in explaining racial disparities in breast cancer survival. Terry Hyslop, Kathy A. Foley, Hallgeir Rui, Edith Mitchell.

A103 Breast cancer molecular subtype analysis in Egypt reveals high prevalence of luminal A: Implications for improving prognosis. Bodour Salhia, Elia Anis Ishak, Salwa Gaber, Bree Berghuis, Khateeb H. Hussain, Rachelle A. Duquette, James Resau, Coya Tapia, John Carpten.

A104 Involvement of *FOXO1* in *E2/ER* pathway and tamoxifen resistance in *MCF-7* cells. Eleby R. Washington, IV, Marianna Sarkissyan, Suren Sarkissyan, Yanyuan Wu, Jay V. Vadgama.



Colorectal Cancer

A105 The extracellular calcium sensing receptor regulates the proliferation of colonic epithelial cells.

Osvaldo Rey, Wenhan Chang, Daniel Bikle, Nora Rozengurt, Enrique Rozengurt.

A106 Neighborhood socioeconomic deprivation is associated with higher risk of diagnosis with nonlocalized colorectal cancers.

Doubeni A. Chyke, Adeyinka O. Laiyemo, Rosalie Torres Stone, Jacqueline Major, Wenjun Li, Barry Graubard, Arthur Schatzkin.

Gastrointestinal Cancers

A107 Esophageal and stomach cancer trends by race, gender, subsite, and histology.

Derrick D. Cox, Carol DeSantis, Stacey Fedewa, Ahmedin Jemal, Martin Blaser, Elizabeth Ward.

Genitourinary Cancers

A108 Differential expression of peroxiredoxins in prostate cancer: Ethnic differences in the association of PRDX3 expression with clinical outcomes.

Anamika Basu, Hiya Banerjee, Heather Rojas, Shannalee Martinez, Melanie Mediavilla-Varela, Roy Sourav, Zhenyu Jia, Dan Mercola, Michael B. Lilly, Marino De Leon, Carlos A. Casiano.

Gynecological Cancers

A110 Factors affecting cervical cancer survival for patients referred to a tertiary care center in Kentucky.

Rebecca L. Tarrant, Christopher P. DeSimone, Lauren A. Baldwin, Sarah Pachtman, Iwona Podzielinski, Adam J. Branscum, Robin C. Vanderpool, Johnathan M. Feddock, Marcus E. Randall, Steven T. Fleming, Leigh G. Seamon.

A111 Race is a predictor for endometrioid endometrial cancer cause-specific survival, but not all-cause survival.

Michele L. Cote, Julie J. Ruterbusch, Sara H. Olson, Shawnita Sealy-Jefferson, Benjamin A. Rybicki, Sharon Hensley-Alford, Mohamed A. Elshaikh, Arthur R. Gaba, Daniel Schultz, Rouba Ali-Fehmi, Adnan R. Munkarah.

A112 Temporal trends in treatment and survival among white and black women with uterine cancer.

Ilze Berzins, Kevin Albuquerque.

A113 Enhancement of the lethality of platinum-based therapy by antiprogestin mifepristone in ovarian cancer.

Carlos Gamarra Luques, Carlos M. Telleria.

Head and Neck Cancers

A114 Does being Latino affect a patient's outcome after being diagnosed with squamous cell carcinoma of the head and neck: An analysis of the SEER database.

Matthew C. Abramowitz, Jennifer Hu, Elizabeth J. Franzmann, Edgardo S. Santos, Jean L. Wright, Donald T. Weed, Luis E. Raez, Jarrard W. Goodwin, Brian E. Lally.

Other Organ Sites

A115 Mitochondrial analysis and epithelial ovarian carcinoma.

Sharifeh Mehrabi, Gregory Adams, Jr., Edward Partridge, Felix Aikhionbare.

**Center to Reduce Cancer Health Disparities Funding Opportunities in Cancer Research and Training**

Americana Ballroom Salon 4

Chairperson: Alexis Bakos, National Cancer Institute, Center to Reduce Cancer Health Disparities, Rockville, MD

This session will explore the NCI Center to Reduce Cancer Health Disparities™ (CRCHD) efforts in the training of students and investigators from diverse populations who will be part of the next generation of competitive researchers in cancer and cancer health disparities research. It will provide a framework for research training opportunities, including CRCHD's flagship diversity training programs, the Continuing Umbrella of Research Experiences (CURE) program and the Comprehensive Partnership to Reduce Cancer Health Disparities (CPRCHD) program for high school and predoctoral students, postdoctoral fellows, junior faculty, and established scientists. The session will also address forging new steps to successful research training opportunities in cancer health disparities.

Outcomes:

- 1) Increase competitive NCI/CRCHD grant application submissions from investigators of diverse populations with interest in cancer and/or cancer health disparities research
- 2) Promote communication, networking, and funding opportunities among scientific experts in cancer health disparities research and Minority-Serving Institution (MSI) predoctoral students, postdoctoral fellows, junior faculty, and established scientists
- 3) Advance health disparities research in cancers affecting diverse and underrepresented populations
- 4) Identify funding opportunities to develop scientific teams of investigators from diverse populations to strengthen the research infrastructure in cancer health disparities

Key steps to success: The CURE diversity training program

H. Nelson Aguila, National Cancer Institute, Rockville, MD

Forging new steps to success: Opportunities in cancer health disparities

Carmen P. Moten, National Cancer Institute, Rockville, MD

Question and Answer



Emerging Technologies for Molecular Studies in Cancer

Americana Ballroom Salon 4

Chairperson: John D. Carpten, Translational Genomics Research Institute, Phoenix, AZ

Metabolomic profiling of cancer progression

Arun Sreekumar, Medical College of Georgia Cancer Center, Augusta, GA

Quantitative epigenomics for epidemiology research

Jean-Pierre J. Issa, UT M. D. Anderson Cancer Center, Houston, TX

Title to be announced

John D. Carpten, Translational Genomics Research Institute, Phoenix, AZ



Spotlight on Proffered Abstracts: Session 2

Americana Ballroom Salon 4

Chairperson: Levi A. Garraway, Dana-Farber Cancer Institute, Boston, MA

Risk factor distribution among women of Mexican descent by level of acculturation: Findings from the ELLA Binational Breast Cancer Study [PR-5]*

Rachel L. Zenuk, University of Arizona, Mel and Enid Zuckerman College of Public Health, Tucson, AZ

Does racial/ethnic concordance between patients and their navigators increase identification of barriers to care? [PR-6]*

M. Christina Santana, Boston University School of Medicine, Boston, MA

A church-based hepatitis B intervention for Korean Americans [PR-7]*

Grace X. Ma, Temple University, Philadelphia, PA

Gene-environment interactions between JAZF1 and occupational and neighborhood lead exposure in African American prostate cancer cases [PR-8]*

Christine M. Neslund-Dudas, Henry Ford Hospital, Detroit, MI

*An extended abstract for this presentation is available in the Proffered Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).



Behavioral and Social Science

Community-based Participatory Research

B1 Promoting environmental worksite wellness among minority-owned businesses: A feasibility study. Deborah J. Bowen, Phyllis M. Wallace.

B2 Educational intervention to reduce breast cancer disparities: The Dallas Cancer Disparities Community Research Coalition. Kathryn M. Cardarelli, Sheila Haley, Kim Linnear, Rachael Jackson, Marcus Martin, Roy Lopez, Charles Senteio, Preston Weaver, Anna Hill, Jesse Banda, Marva Epperson-Brown, Janet Morrison, Deborah Parrish, Johnrice Newton, Marcene Royster, Camille Lafayette, Phyllis Harris, Jamboor K. Vishwanatha, Eric S. Johnson.

B3 The utilization of volunteer community health advisors as research partners to reduce cancer health disparities in African American communities. Claudia M. Hardy.

B4 Supportive care needs survey for Australian indigenous cancer patients. Patricia C. Valery, Vanessa L. Beesley, Catherine Jacka, Monika Janda, Lisa Whop, Peter O'Rourke, Adele Green, Gail Garvey.

B5 Mexican-American and Puerto Rican breast cancer survivors' perspectives on exercise. Rose A. Trevino, Liliana Vallejo, Daniel C. Hughes, Velda Gonzalez, Maribel Tirado-Gomez, Karen Basen-Engquist.

B6 Social marketing intervention to increase HPV vaccine utilization among Hispanic girls: Preliminary data. Pamela C. Hull, Maureen Sanderson, Dineo Khabele, Juan Canedo.

B7 The Lincoln University-Fox Chase Partnership in cancer research and training. Delroy Loudon, John Chikwem, Linda Fleisher, Maureen Murphy, Theresa Berger, Loretha Moore, J. Robert Beck.

B8 Research on HIV/AIDS-related cancers among racial/ethnic minority and underserved persons in the United States. Sandra F. Richardson.

B9 A health disparities and clinical trials advocacy partnership to reduce colorectal cancer among Pacific Islanders in Southern California. Sora P. Tanjasiri, Maria Gonzales, Ruth Peters, Lianne Nacpil, Nancy Harris, Jay Harness.

B10 Nueva Vida: A support network for Latinas with cancer model and system of care delivery with an eye to community participatory research. Larisa Caicedo, Karlynn BrintzenhofeSzoc, James R. Zabora.

B11 The Lincoln University-Fox Chase partnership in cancer research and training: Summer internship program. Theresa E. Berger, Delroy Loudon, John Chikwem, Linda Fleisher, Maureen Murphy, Carolyn Fang, Margie Clapper, Kuang-Yi Wen, Denise Gaither-Hardy, Karen Baskerville, Karen Mechanic, Robert Burger, Bonnie Miller, Elizabeth Hopper-Borge, Veda Giri, Susan Safford, Derrick Swinton, J. Robert Beck.

B12 Tobacco use and interest in smoking cessation among Latinos attending community health fairs. Ana P. Cupertino, Lisa Sanderson Cox, Susan Garrett, Natalia Suarez, Hannah Sandt, Irazema Mendoza, Edward Ellerbeck.

B13 An evaluation of a multisite national cancer community-based participatory research initiative to address health disparities. John Foster-Bey, Lynn D. Disney, Tiffani Jeffries, Marcia Salazar, Timothy J. Willis.

B14 Understanding beliefs about biospecimen collection and use for cancer research among older, urban African Americans. Kelly Brittain, Terrance Albrecht, Lisa Berry-Bobovski.

B15 Effect of patient navigation on mammography screening among African American female Medicare beneficiaries at risk for low health literacy. Jessie K. Kimbrough-Sugick, Olive Mbah, Darcy Phelan, Gary Shapiro, Jennifer Wenzel, Lee Bone, Mary Garza, Lawrence Johnson, Mollie Howerton, Jean G. Ford.

B16 Developing a fidelity index (FI) to evaluate a community-based participatory research (CBPR) program aimed at reducing cancer health disparities. John Foster-Bey, Lynn D. Disney, Tiffani Jeffries, Marcia Salazar, Timothy J. Willis.

B17 Providing access and reducing barriers to mammography use in an underserved area. Bettina F. Drake, Shivon Tannan, Victoria Anwuri, Graham Colditz.

B18 Impact of Nueva Vida's model on self-efficacy in Latinas with breast cancer. Larisa Caicedo, Karlynn BrintzenhofeSzoc, James R. Zabora.



B19 Developing HPV educational programs in faith-based settings: Results of a community-based participatory research study. Heather M. Brandt, Kathy Dhotre, Dolores B. Scott, Deloris G. Williams, Ruby Fore Drayton, Rachel Mayo, James R. Hebert.

B20 Community bridges to cancer clinical trials: Evaluating community education modules. Melissa A. Green, Margo Michaels, Natasha Blakeney, Alan Richmond, Debra Long, William Robinson, Sharon Elliott-Bynum, Giselle Corbie-Smith.

Decision Making

B21 Patient health literacy may affect use of screening mammography in an underinsured patient population. Lorenzo Machado, Anne E. Klemens, Jesse Nodora, Chiu-Hsieh Hsu, Rachel Zenuk, Maria Elena Martinez, Luis Borbon, Marcia E. Bouton, Ian K. Komenaka.

B22 Demographic and psychosocial predictors of low-income mothers' decision to vaccinate their daughters against HPV. Tiffany Floyd.

B23 Correlates of an informed decision regarding colorectal cancer screening among African Americans. Kelly Brittain, Carol Loveland-Cherry, Laurel Northouse, Cleopatra H. Caldwell, Jacquelyn Y. Taylor.

Health Education

B24 When *promotores* and advanced technology meet: A qualitative analysis of *promotores*' use of advanced technologies to increase colorectal cancer screening among South Texas Latinos. Arvey R. Sarah, Maria E. Fernandez, L. Kay Bartholomew.

B25 Prostate cancer factual knowledge and misconceptions among African American, Jamaican, and Bahamian men. Shanita D. Williams, Louie Ross, Lisa Hinton, V. Diane Woods, Robin Roberts.

B26 Developing a community health educator (CHE) intervention model for identifying unmet needs and assessing behavioral change with tailored health education for breast and colorectal cancer patients after cancer treatment. Bonnie Schwartzbauer, Kevin Fiscella, Starlene Loader, Sally Rousseau.

B27 Developing promotora curriculum modules for cervical cancer prevention and control. John S. Luque, Mondri Mason, Claudia Reyes Garcia, Andrea Hinojosa, Cathy D. Meade.

B28 Outcomes from a statewide dissemination of an evidence-based, community-engaging wellness program for African American churches. Danielle M. Crookes, Evelyn González, Serina Gaston, Linda Fleisher.

B29 Training cancer researchers that are community advocates. Danyell S. Wilson, Joel Aliancy, Kenneth Shain, Nicholas Eustace, Eric Haura, Beulah Joseph, Keiran Smalley, Karla Schramm, Robert Gillies, Bin Fang, William Dalton, John Koomen, Cathy Meade.

B30 Increasing awareness of health research in the African American community. Carmelle D. Rogers, Mintesinot Jiru, Md. Jamal Uddin, Tatiana Roth, Jacob Adeyeye.

B31 Implementation of video improves understanding of breast cancer concepts in an undereducated county hospital population. Gina R. Shirah, Marcia E. Bouton, Jesse Nodora, Chiu-Hsieh Hsu, Anne E. Klemens, Maria Elena Martinez, Ian K. Komenaka.

B32 Training the next generation of Hispanic cancer researchers: The UPR/UT MDACC program. Ilka C. Ríos, Elizabeth Travis.

B33 Project LINK: breaking new ground in fueling minority research experiences. John L. Robinson, Maria Rincon, Emanuel Ortiz, Nia Jackson, Megan Newton, Scott Antonia, William S. Dalton, Cathy D. Meade.

Stress

B34 Discrimination, stress, and risk factors for cancer among Latinos. India Ornelas, Norma Mariscal, Javiera Martinez, Rachel Ceballos, Beti Thompson.

Other

B35 Working to close the gap: Identifying predictors of HPV vaccine initiation among young African American women. Shalanda A. Bynum, Heather M. Brandt, Patricia A. Sharpe, Michelle S. Williams, Jelani C. Kerr.



B37 Negative affect and fruit/vegetable consumption: The nature of the relation differs by race/ethnicity. Marc T. Kiviniemi, Heather Orom, Gary A. Giovino.

B38 A summer fellowship designed to engage medical students with demonstrated interest in health disparities: Cancer in the Underprivileged, Indigent or Disadvantaged (CUPID). Fred Bunz, Gail Voelker, Richard Zellars.

B39 Administrative tools to promote cancer health disparities research partnerships. Mary A. O'Connell, Beti Thompson, Helena Loest, Jennifer Anderson.

B41 Effect of community health worker (CHW) interventions on rates of screening mammography: A systematic review and meta-analysis. Kristen J. Wells, John S. Luque, Ambuj Kumar.

B42 Short-term cancer research experiences for medical students: Goals and outcomes. Ananta Bhatt, May Cho, Derrick Beech, Dana Marshall.

B43 Assessment of an educational video and brochure in four languages: Cantonese, Hmong, Vietnamese, and English for biospecimen contributions. Julie H.T Dang, Moon S. Chen, Jr.

B44 GMaP/BMaP Region 3: Coming together to eliminate cancer disparities in the South and Puerto Rico. Cathy Meade, Isabel Scarinci, Teresita Muñoz-Antonia.

B45 Partnering to reduce cancer health disparities in Guam, Hawaii and the US-associated Pacific Islands through research, training and outreach. Helen J.D. Whippy, Carl-Wilhelm Vogel, Hali R. Robinett.

B46 Fear as a barrier to mammography for African American women. Jennifer Hatcher.

Carcinogenesis

DNA Damage and Repair Mechanisms

B47 Potential role for *RNF8* in breast cancer development. Ivan Anduro-Corona, Patricia Thompson, Julie Buckmeier, María Elena Martínez, Luis Enrique Gutiérrez-Millán.

Environmental and Radiation Carcinogenesis

B48 Do the gut flora play a role in the high incidence of colon cancer in African Americans? Hassan Brim, Edward Lee, Erwin Zoetendal, Karen Nelson, Mannolito Torralba, Duane Smoot, Hassan Ashktorab, Cynthia Sears.

Mutagenesis, Oxidative Stress, and Carcinogenesis

B50 Telomerase expression is upregulated in response to severe oxidative stress. Theodor U. Uzamere.

B51 Neuregulin induces telomerase expression in response to oxidative stress. Theodor Uzamere, DeMario Butts, Wallace Sharif.

Predictive Assays for Carcinogenicity

B52 Predictor of distinct genetic alterations in African Americans with colon cancer by genomic analysis. Hassan Ashktorab, Mehdi Nouraie, Duane T. Smoot, Hassan Brim.

Tumor Promotion and Progression

B53 KSHV regulation of fibulins in Kaposi's sarcoma (KS): Implications for the role of the extracellular matrix in KS tumorigenesis. Donald J. Alcendor, Susan M. Knobel, Wen Q. Zhu, Prashant Desai, Gary S. Hayward.



B54 Pregnancy and postpartum involution promote tumorigenesis in a preclinical model for triple negative/basal breast cancer. Tanya D. Russell, Jaime Fornetti, Pepper Schedin.

Cell, Molecular, and Tumor Biology

Cancer Genetics/Gene Expression

B55 Integrative genomic analysis of prostate cancer disparities between African American and Caucasian American populations. Bi-Dar Wang, Ramez Andrawis, Fernando Bianco, Thomas Jarrett, Harold Frazier, James Tall, Steven Patierno, Norman Lee.

B56 Prostate cancer: A health disparity among African American men and the racial differences within nonmalignant prostate tissue pertaining to the differential expression of *hZIP1*. Leslie A. Johnson, Kendall M. Williams, Keaira Berry, Mazhar Kanak, Andrea Kajdacsy-Balla, Omar Bagasra, Joseph Pestaner.

B57 Breast cancer subtypes and survival in a hospital-based sample in Puerto Rico. Ana P. Ortiz-Martinez, Frías Orquidea, Javier Pérez, Carmen Gonzalez-Keelan, Fernando Cabanillas, Edna Mora, Erick Suárez.

Cell Growth Signaling Pathways

B58 hnRNP H1, a novel coactivator of the androgen receptor implicated in progression and hormone resistance of prostate cancer in African Americans. Yijun Yang, Dingwu Jia, Rodney Davis, Sudesh Srivastav, Krzysztof Moroz, Byron E. Crawford, II, Krishnarao Moparty, Raju Thomas, Asim B. Abdel-Mageed.

B59 A novel mechanism in tumor development and progression. Mahasin A. Osman.

B60 NR4A2: A novel therapeutic target in triple negative breast cancer. Christopher C. Williams, Shwan D. Llopis.

B61 Phospholipid scramblase is a critical mediator of estrogen-induced apoptosis in antihormone resistant breast cancer cells. Joan S. Lewis-Wambi, Tabitha King, Annalese Smith.

DNA Methylation/Epigenetics, and Chromatin Regulation

B62 Epigenetic DNA methylation changes may underlie racial differences and susceptibility to prostate cancer. Bernard Kwabi-Addo, Songping Wang, Srinivasan Yegnasubramanian.

Oncogenes/Tumor Suppressor Genes

B64 Analysis of somatic copy number alterations among African American patients with multiple myeloma using array CGH. Angela S. Baker, Michael Chapman, Esteban Braggio, Jonathan Keats, Bunmi Mfuko, Gregory Ahmann, Vijayalakshmi Sanmugam, Bodour Salhia, Anna Moore, Kendria Chewing, Joan Levy, Louise Perkins, Daniel Auclair, Todd Golub, P. Leif Bergsagel, Rafael Fonseca, Jeffrey Trent, John Carpten.

B65 Targeted resequencing of the *EphB2* gene in colorectal cancer for SNP discovery using next-generation sequencing. Christiane M. Robbins, Jake A. Harris, Waibhav Tembe, Vijayalakshmi Shamugam, Rick A. Kittles, Nathan A. Ellis, John D. Carpten.

Viral Oncogenesis and Mechanisms

B66 Benzo(a)pyrene increases expression of HPV oncoproteins: A potential co-factor for increased cervical cancer among American Indian women living in the Northern Plains. Diane M. Maher, Maria C. Bell, Emmylu A. O'Donnell, Meena Jaggi, Subhash C. Chauhan.

Other

B67 Establishment of a high-content assay to assess the effects of gene silencing on inflammatory breast cancer cell motility. Zainab I. Thomas, Jonathan Z. Sexton, Willietta Gibson, Katherine M. Aird, Amy Aldrich, Gayathri R. Devi, Kevin P. Williams.



Epidemiology, Lifestyle, and Genetics

Neighborhood Factors

B69 Effects of obesity and neighborhood socioeconomic status on prostate cancer stage and grade. Charnita M. Zeigler-Johnson, Ziyue Liu, Elaine Spangler, Timothy Rebbeck.

B70 Breast cancer mortality declined more slowly in Appalachia than in non-Appalachia: 1990-2006. Nengliang Yao, Eugene Lengerich, Marianne M. Hillemeier.

B71 Residential racial segregation and prostate cancer treatment decisions. Kristen Wells, George Stukenborg, M. Norman Oliver.

Obesity, Metabolism, and Cancer

B72 Obesity and breast cancer in African American and Latina Women: A hospital-based comparison study. Marianna Sarkissyan, Yanyuan Wu, Jay Vadgama.

B73 Complementary and alternative medicine and the development of self in chronic diseases: A prospective, multicenter observational survey in the Munshiganj district of Bangladesh. Md. Ariful Haque Mollik, Bivash Chandra Panday, Md. Badruddaza, Md. Mizanur Rahman, Bulbul Ahmmmed, A.K.M. Fahmidul Haque, Israt Jahan Mukti, Kamrun Nahar.

B74 Racial variation of adipocytokine levels in women with breast cancer. Tiffany Avery, Krystal Sexton, Abenaa Brewster, Randa El-Zein, Melissa Bondy.

Race, Admixture, and Ethnicity

B75 Racial differences in *Helicobacter pylori* infection in the southeastern United States. Meira Epplein, Lisa B. Signorello, William J. Blot.

B76 The effect of ethnicity on esophageal cancer survival in British Columbia, Canada. Morteza Bashash, Greg Hislop, Amil Shah, Nhu Le, Angela Brooks-Wilson, Chris Bajdik.

B77 Ethnicity and hematopoietic stem cell transplantation (HSCT) outcomes in British Columbia, Canada. Maryam Noparast, Donna Hogge, John J. Spinelli, Carolyn Gotay, Chris Bajdik.

B78 Is race a prognostic factor for lung cancer? Courtney E. Krug, Todd W. Gress, Maria T. Tirona, Luay Mousa, Chris Lark, Rajesh Sehgal.

B79 Racial and socioeconomic disparities in time to treatment for breast cancer in the District of Columbia. Heather A. Young, Margaret Ulfers, Steven R. Patierno.

B80 Timing of radiation therapy for rectal cancer improves survival for select racial/ethnic groups. Wendy Lee, Avo Artinyan, Brian Mailey, Smita Bhatia, Julio Garcia-Aguilar, Joseph Kim.

B81 A spatial analysis of racial variation in post-treatment outcomes in prostate cancer. M. Norman Oliver, Kristen Wells, George Stukenborg.

Other Risk Factors

B83 Breast cancer risk evaluation and action using the OncoVue Risk Tool in self-referred and targeted minority populations. Kari A. Casas.

B84 Lower vitamin D status among black Americans may explain much of the racial disparities in cancer outcomes. William B. Grant.



Health Economics, Outcomes, and Policy Research

Health Economics, Policy, and Outcomes

B85 Impact of patient/provider communications on quality of care for cancer. Shahnaz Khan, Ann D. Colosia, Gerson Peltz, Gerhardt Pohl, Esther Liu, James A. Kaye.

B86 Health care utilization during transition to Medicare coverage in patients with prostate cancer: Evidence from CaPSURE registry. Natalia Sadetsky, Matthew Cooperberg, Dejana Braithwaite, Rena Pasick.

B87 The impact of insurance and treatment on racial differences in uterine cancer survival: A study of patients in the National Cancer Database. Stacey A. Fedewa, Catherine Lerro, Dana Chase, Elizabeth M. Ward.

Healthcare Systems

B88 Can a Papanicolaou test screening service improve outcomes among women admitted to a rural community hospital? Jesse F. Greenblatt, Judith S. Jacobson, Melissa Brower, Nicole Krupa, Paul Jenkins.

B89 The influence of race/ethnicity on facility use and postsurgical hospitalization among Medicare beneficiaries with breast cancer. Tracy L. Onega, Julie Weiss, Aaron Jenkyn.

B90 The District of Columbia citywide Patient Navigation Research Program (DC-PNRP): Preliminary descriptive findings. Steven R. Patierno, Nancy L. LaVerda, Heather J. Hoffman, Lisa M. Alexander, Paul H. Levine, Heather A. Young.

Treatment Factors and Outcomes

B91 Predictors of worsened survival among medically underserved hepatocellular carcinoma patients. Curtis J. Wray, John A. Harvin, Karin M. Hahn, Lillian S. Kao.

B92 Satisfaction with a breast cancer patient navigation program: Perspectives of patients, navigators, and clinical staff. Marvella E. Ford, Kathleen Cartmell, Debbie C. Bryant, Melanie S. Jefferson, Anthony J. Alberg.

B93 Does race predict the likelihood of laparoscopic versus open colorectal cancer resection? Michael Y. Lee, Joshua Walleet, Theodore Bell, Rodney Grim, Vanita Ahuja.

B94 A 10-year retrospective analysis of African American and white patients with diffuse large B cell lymphoma treated at the University of Alabama at Birmingham. Uma M. Borate, Will Donnelan, Angeline The, James Foran.

B95 Disparities in cancer drug use in the geriatric patient. June M. McKoy, Denys T. Lau.

Prevention Research

Prevention Behaviors

B96 Increasing access and utilization of supportive cancer care activities through health information technology: A prostate cancer example. David Victorson, Phoebe Block, Sarah Buono, Thomas Mason, Pete Thomas, Marcus Murray.

B97 Physical activity and social support: Racial differences among female cancer survivors. Jennifer M. Jabson, Deborah J. Bowen.

Screening and Early Detection

B98 Racial differences in HPV knowledge and acceptability: U.S. black and white females. Phyllis M. Wallace, Deborah J. Bowen.

B99 A community-based randomized trial to increase colorectal cancer screening: Approaches to assessing intervention effectiveness, subgroup analyses and behavioral mediators of screening. Annette E. Maxwell, Roshan Bastani, Catherine M. Crespi, Leda L. Danao.

B100 Regional predictors of smoking status in three cities in Tennessee. Kushal A. Patel, Jianguo Liu, Donna Kenerson, Maureen Sanderson, Margaret Hargreaves.

B101 Cervical cancer screening along the U.S./Mexico border. Beti Thompson, Hugo Vilchis, Crystal Moran, Gloria D. Coronado.



B102 Colorectal cancer screening practice among primary care physicians in rural, Indian Health Service, and community health center facilities.

Jesse Nodora.

B103 Time for a change in breast cancer screening? A survey of female physicians' perception of 2009 USPSTF guidelines on breast cancer screening.

Hui Liu, Susan Sloan, Fahima Nasreen, Mahesh Krishnamurthy.

B104 Disparities in colorectal cancer screening among motivated men participating in a prostate cancer risk assessment program.

Michael J. Hall, Karen Ruth, Veda N. Giri.

B105 Addressing colorectal cancer disparities in rural Appalachia.

Mark Dignan, Nancy Schoenberg, Brent Shelton, Kevin Pearce, Cheri Tolle.

B106 Breast cancer screening among American Indian/Alaska Native (AI/AN) women: Adherence and risk factor associations in four Bemidji area tribes.

Wesley O. Petersen, Ann M. Nicometo, Marilyn A. Roubidoux, Robert A. Vierkant, Steve Haugen, Judith S. Kaur.

B107 Colorectal cancer (CRC) screening: What is discussed with patients in a federally qualified health center?

Mira L. Katz, Justin King, Kathy Eubanks, Electra D. Paskett.

B108 "GET SCREENED": A randomized trial of reminders, recall and outreach (RRO) to improve cancer screening in safety-net primary care practices.

Kevin Fiscella, Samantha Hendren, Sharon Humiston, Patricia Ford, Paul Winters, Ray Specht, Starlene Loader, Amy Yosha, Steve Marcus, Shirley Pope, Amna Idris.

B109 Salivary markers and risk factor data: Towards a new combined approach to predict head and neck squamous cell carcinoma.

Lutecia H. Mateus Pereira, Isildinha Reis, Robert Duncan, Aymee Perez, Islamiyat Nancy Adebisi, Elizabeth J. Franzmann.

B110 Gender differences in cancer screening beliefs and behaviors: Implications for health promotion.

Jenna L. Davis, B. Lee Green, Ralph V. Katz.

B111 Disparities in colorectal cancer: Who receives screening?

JoAnn S. Oliver, Rebecca S. Allen, Jamie DeCoster, Courtney Worley, Leslie Palardy, Giyeon Kim.

B112 Relationship of colorectal cancer awareness and knowledge with colorectal cancer screening: Results of a population-based study.

Heather M. Brandt, Heather Ranhofer, Patricia A. Sharpe, James W. Hardin.

B113 Regional differences in barriers to breast cancer screening among low-income African American women in Nashville, Chattanooga, and Memphis, Tennessee.

Donna M. Kenerson, Kushal Patel, Jianguo Liu, Margaret K. Hargreaves.

B114 Comparative effectiveness research on colorectal cancer screening.

Doubeni A. Chyke, Ann G. Zauber, Robert H. Fletcher.

Vaccines and Immunoprevention

B115 Barriers to HPV vaccination of Medicaid patients among Florida physicians.

Susan T. Vadaparampil, Stephanie A. S. Staras, Teri L. Malo, Katie Z. Eddleton, Anna R. Giuliano, Elizabeth A. Shenkman.

Organ Site Research

Breast Cancer

B116 Comparison of African American (AA) and Caucasian patients with respect to radiotherapy (RT) delivery in National Surgical Adjuvant Breast & Bowel Project (NSABP) breast cancer treatment trials.

Charles R. Thomas, Jr., Khaleelah Z. Glover, John W. Wilson, Eleanor Feingold, John P. Constantino.



A Novel Method to Recruit Minorities and the Medically Underserved for Research Studies

Americana Ballroom Salon 4

Chairperson: Susan M. Love, Dr. Susan Love Research Foundation, Santa Monica, CA

This panel discussion will focus on the Love/Avon Army of Women initiative and how it serves as a new approach for recruiting minorities and the medically underserved for translational research looking into the cause and prevention of breast cancer. Each panelist will focus on their experience using the Army of Women for their specific research study that required participation of racial/ethnic minorities and the medically underserved. Dr. Susan Love will discuss the overall vision for the initiative and some of the success stories. Drs. Sheppard, Graves, and Boehmer have used the Army of Women for their research studies, focusing on African-Americans, Latinas, and lesbian/bisexual women, respectively. They will discuss how this resource has accelerated their research and enabled them to save money, time, and resources. Supported by Love/Avon Army of Women.

Panelists:

Susan M. Love

Vanessa B. Sheppard, Georgetown University Medical Center, Washington, DC

Kristi D. Graves, Georgetown University, Washington, DC

Ulrike Boehmer, Boston University School of Public Health, Boston, MA



Accrual and Retention of Minority and Underserved Populations: Moving Toward the Positive

Americana Ballroom Salon 4

Chairpersons: Eddie Reed, University of South Alabama, Mobile, AL; **Bettye L. Green**, Saint Joseph Regional Medical Center, South Bend, IN

In 2009, the National Cancer Institute reported that the death rate for all cancers diagnosed in black and Hispanic patients was 33% higher in men and 16% higher in women than in their white counterparts (www.cancer.gov). Even when cancers are discovered at the same stage of progression and patients receive the same course of treatment, a much smaller percentage of minority patients make it to remission. This session will address the various factors that contribute to cancer mortality among minorities, proposing that increased community education efforts and enrollment in clinical trials will begin to bridge the racial gap, resulting in new discoveries and an increased standard of care. The challenge of effectively preventing, diagnosing, and treating cancer is greater today than ever before, but so is the understanding that it's time to act. Are we ready?

The relevance of clinical trials to minorities

Sandra Millon-Underwood, University of Wisconsin, Milwaukee, WI

American College of Surgeons Oncology Group and cancer health disparities in clinical trials

David M. Ota, Duke University Medical Center, Durham, NC

Clinical trials, personalized medicine, and vulnerable patient populations

Christopher Lathan, Dana-Farber Cancer Institute, Boston, MA

It's time... Are we ready? Looking at trial design, marketing, advocacy for enrollment, and retention of minority in clinic trials

Bettye L. Green, Saint Joseph Regional Medical Center, South Bend, IN



Emerging Molecular Determinants of Cancer Across Populations

Americana Ballroom Salon 4

Supported by:



UNIVERSITY OF MIAMI
MILLER SCHOOL
of MEDICINE

Chairperson: Cheryl L. Willman, University of New Mexico Cancer Research and Treatment Center, Albuquerque, NM

Discovery of novel genetic abnormalities and association with race and ethnicity in pediatric high-risk acute lymphoblastic leukemias

Cheryl L. Willman, University of New Mexico Cancer Research and Treatment Center, Albuquerque, NM

Viral related malignancies affecting ethnic minorities and immigrant sub-populations in the United States [PL06-02]*

Juan Carlos Ramos, University of Miami Sylvester Comprehensive Cancer Center, Miami, FL

Title to be announced

Cosette M. Wheeler, University of New Mexico Health Sciences Center, Albuquerque, NM

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).



Comparative Effectiveness Research in Health Disparities

Americana Ballroom Salon 4

Chairperson: Paul B. Jacobsen, H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL

Racial and ethnic minorities and persons from medically underserved populations have a greater likelihood of being diagnosed with cancer at later stages, resulting in higher cancer mortality rates. Evidence exists that underutilization of early detection tests and failure to receive prompt and proper treatment contributes to the difference in mortality. Comparative effectiveness research (CER), with its focus on improving the delivery of health care, provides a methodology for understanding and addressing these disparities. Presenters in this session will: 1) provide an overview of CER; 2) describe methods used for CER and provide several examples of CER that relate to disparities in cancer treatment; and 3) review promising interventions and highlight areas that still need to be explored using CER to improve adoption of interventions that can increase the use of early detection tests in at-risk populations.

Overview of comparative effectiveness research

Paul B. Jacobsen, H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL

The role of comparative effectiveness research in understanding and addressing disparities in cancer treatment

Deborah Schrag, Dana-Farber Cancer Institute, Boston, MA

Comparative effectiveness research in the use of early detection tests to reduce cancer health disparities

Electra D. Paskett, The Ohio State University Comprehensive Cancer Center, Columbus, OH



Breast Cancer Disparities

Americana Ballroom Salon 4

Chairperson: Lisa L. Baumbach-Reardon, University of Miami Miller School of Medicine, Miami, FL

Ethnic/racial disparities in breast cancer morbidity and mortality are well documented. For example, breast cancer (BC) is the second leading cause of cancer death among African American (AA) women, and mortality is 20% greater than Caucasians. AA women are also more likely to have poorly differentiated BC that is also ER, PR and HER-2 negative—factors associated with more aggressive tumorigenicity. Recent data provide strong evidence for poorer survival rates and advanced stage at presentation in Hispanic (His) BC patients as compared to non-His white subjects. In summary, significant ethnic-specific differences in stage of presentation and survival rates among different racial/ethnic groups in North America have been well documented. These differences are undoubtedly a result of a combination of contributing factors, including socioeconomic, lifestyle, tumor characteristics, and inherent factors, such as genetic composition. In this session, nationally recognized speakers will provide an overview of current understanding and issues in BC disparities; provide information on genetic factors and research into ethnic-specific genomic differences contributing to these disparities; and discuss barriers to screening and reduced survival in different ethnic groups, while highlighting some community-based programs to improve access to screening and interventions. The session will allow time for audience participation.

Overview of breast cancer disparities

Lisa A. Newman, University of Michigan Comprehensive Cancer Center, Ann Arbor, MI

Racial disparities in breast cancer: One size does not fit all

Erin N. Kobetz, University of Miami Miller School of Medicine, Miami, FL

The origin and evolution of patient navigation

Harold P. Freeman, Ralph Lauren Center for Cancer Care and Prevention, New York, NY

Genomic/genetic differences in breast cancer across ethnicities

Lisa L. Baumbach-Reardon, University of Miami Miller School of Medicine, Miami, FL

Engaging immigrant Latinas in community-based interventions: Methods may be more important than messages for increasing screening [PR-9]*

Deborah O. Erwin, Roswell Park Cancer Institute, Buffalo, NY

Impact of race, ethnicity and health insurance on delays in breast cancer diagnosis in the District of Columbia [PR-10]*

Heather J. Hoffman, The George Washington University, Washington, DC

*An extended abstract for this presentation is available in the Proffered Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).



Personalizing Cancer Prevention and Therapy

Americana Ballroom Salon 4

Chairperson: Alex A. Adjei, Roswell Park Cancer Institute, Buffalo, NY

Personalizing cancer therapy: Implications for health disparities

Alex A. Adjei, Roswell Park Cancer Institute, Buffalo, NY

From genomics to personalized medicine in oncology

Levi A. Garraway, Dana-Farber Cancer Institute, Boston, MA

Race and cancer treatment outcome: Roswell Park over 50 years [PL08-03]*

James R. Marshall, Roswell Park Cancer Institute, Buffalo, NY

Title to be announced

Patricia A. Thompson, University of Arizona, Tucson, AZ

*An extended abstract for this presentation is available in the Invited Abstracts section of the *Proceedings* (the abstract number is listed in brackets above).