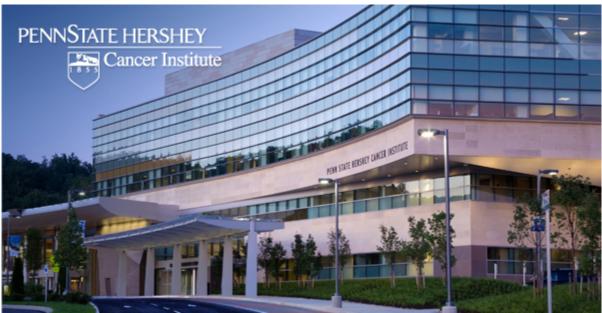
#### December 2012



# **Multidisciplinary Teams**

Penn State Hershey Cancer Institute held its first Network Summit on Friday, November 16 at the University Conference Center. More than 60 physicians, administrators, directors, managers, clinical trials personnel and key front-line staff from each of our affiliate hospitals began a discussion of shared vision and goals for the future of the network. Learn More



# Our Partners - Regional Center for Cancer Care Trust<sup>2</sup>.Confidence<sup>2</sup>.Strength<sup>2</sup>.Fight<sup>2</sup>. Regional Center For Cancer Care Lancaster, Pennsylvania benefits from having an exister. Pennsylvania benefits from having an exister.



Lancaster, Pennsylvania benefits from having an exceptionally experienced caster, Pennsylvania benefits from having an exceptionally experienced team of specialists for cancer care at the Regional Center for Cancer Care (RCCC), a joint program of Lancaster and Heart of Lancaster Regional Medical Centers. And Penn State Hershey Cancer Institute's recent affiliation with the RCCC greatly enhances that multidisciplinary care - from early screening and preventive education to advanced diagnosis, treatment and recovery services.

A program of Lancaster Regional and Heart of Lancaster Regional Medical Centers

As part of this partnership, RCCC oncology patients will gain access to the medical and surgical specialists and sub-specialists of Penn State Hershey and benefit from the latest medical advances in cancer prevention and treatment. Patients also gain access to the academic medical center's clinical research study programs. Penn State Hershey is providing training and oversight as the RCCC assembles a team of research professionals to begin conducting clinical trials.

The cancer team that constitutes the Regional Center for Cancer Care is led by Robert Conter, M.D., and includes a range of experienced, multidisciplinary oncological specialists.

"Our partnership with Penn State Hershey Cancer Institute builds upon the scope and quality of oncology services for our patients," said Bob Moore, Market CEO for Lancaster and Heart of Lancaster Regional Medical Centers. "Together we offer a higher level of personalized attention often lacking at much larger hospitals and strive to make the experience of cancer patients and their families as positive as possible."

The Regional Center for Cancer Care is headquartered at 233 College Avenue, Lancaster, PA. <u>Click here to learn more about the Regional Center for Cancer Care</u>, or call 1-855-517-5008.

For a full list of Cancer Institute partners, visit Penn State Hershey partners.

# **Community Outreach**

# **Inaugural Cancer Institute Network Summit**

Penn State Hershey Cancer Institute held its first Network Summit on Friday, November 16 at the University Conference Center. More than 60 physicians, administrators, directors, managers, clinical trials personnel and key front-line staff from each of our affiliate hospitals began a discussion of shared vision and goals for the future of the network. Click here for a brief summary of the summit.







#### **Education and Research**

# **Faculty Briefs**

<u>Jeffrey Peters, Ph.D.</u> was recently appointed to serve on the editorial board member of the Journal of Biological Chemistry.

Matthew Kaag, M.D. was invited to give two lectures at the Society of Government Service Urologists 59th Annual Kimbrough Meeting on new developments in the treatment of penile cancer and on the role of perioperative chemotherapy in the management of upper tract urothelial cancers.

Andrea Mastro, Ph.D. was elected to the Board of Directors of the International Society for Metastasis Research and appointed to the Editorial Board of Clinical and Experimental Metastasis. She received funding from the Metavivor Foundation (01/01/12-1/31/13; \$25,000). The goals of this application are to compare metastatic, dormant, and non-metastatic breast cancer cell lines in a 3-D system of bone. She also received funding from the Department of Defense Breast Cancer Research Program (04/01/12-03/31/14; \$743,229) to test the hypothesis that the extracellular matrix and cytokines of the bone microenvironment are critical in determining whether metastatic breast cancer cells will grow or remain dormant.

<u>Robin Taylor Wilson, Ph.D.</u> was awarded three years of research funding from the American Institute for Cancer Research "Genetic, Dietary and Environmental Influences on Vitamin D Metabolism," to start January 1, 2013.

Karam El-Bayoumy, Ph.D. lectured on the role of environmental pollutants in the development of breast cancer on October 18, 2012 at the Center of Excellence in Environmental Toxicology, Perelman School of Medicine at the University of Pennsylvania. He was recently appointed to serve as a review member of a special emphasis panel (SEP) of the Prevent Cancer Program for three years by the NCI Division of Cancer Prevention.

#### Faculty Grant Support (August-November 2012)

Primary Investigator	Research	Sponsor
Chandra Belani, MD	Oncogenic Mutations/Rearrangements in Patients with Advanced Adenocarcinoma Lung	PA TSF
Robert Bonneau, PhD	A Genetic Basis for Stress Neuroendocrine Immune Interactions	NIH
Neil Christensen, PhD	MediGene anti-L2 Vaccine Study in the CRPV/Rabbit Model	Medigene AG
David Claxton, MD	A Phase 2, Randomized, Open-Label Study of the Safety and Efficacy of Two Doses of Drug A in Subjects with FLT3-ITD Positive Relapsed or Refractory AML	Astellas Pharma US, Inc.
Wafik El-Deiry, MD, PhD, FACP	Development and Commercialization of Novel Cancer Therapeutic TIC10	Oncoceutics, Inc.
Wafik El-Deiry, MD, PhD, FACP	Molecular Analysis of Breast Cancer CTC Heterogeneity & Drug Sensitivity in Preclinical Models & Patients	PA TSF
Adam Glick, PhD	Suppression of Cancer Inflammation with AHR Modulators	NIH
Michael Green, PhD	Preparing Family Caregivers of Very III Patients for End- of-Life Decision-making	NIH
Pamela Hankey, PhD	Role of Gab1 and Gab2 in Stress Erythropoiesis	NIH
Terryl Hartman, PhD	Geisinger Rural Aging Study	USDA
John Kuttesch, MD	A Phase 2 Multi-center, Historically-controlled Study of Drug A Added to Standard Chemotherapy in Pediatric Patients with Newly Diagnosed Philadelphia Chromosome Positive ALL	Children's Hospital of Philadelphia
Philip Lazarus, PhD	Role of Pharmacogenetics on Exemestane Metabolism and Toxicity	NCI
Eugene Lengerich, DVM	Harrisburg Community Cancer Network Community Health Worker Program	ACS
Thomas Loughran, MD	Characterization of the LGL Leukemia Virus (PQ #12)	NCI
Kathleen Mulder, PhD	Mechanisms for km23-1 Control of Ras/TGF Beta Signaling in Human Colon Cancer and Non-cancer Cells PA	TSF
Andrew Patterson, PhD	Optimized Metabolite Extraction, Separation, and Identification for Metabolomics	NIH
Leslie Parent, MD	Nuclear Export of Retroviral RNP's: Cytoplasmic Fates Determined in the Nucleus	NCI
Lorraine Santy, PhD	Cytohesin dependent ARF to Rac signaling in HGF mediated motility	NIH
Jiyue Zhu, PhD	Genetic Engineering of A Humanized Telomerase Gene Locus	W. W. Smith Charitable Trust

Siyang Zheng, PhD	Integration of Flexible Micro Spring Array and High Throughput Microfluidics for Obtaining Clinical Relevant Information from Circulating Tumor Cells	NCI
Siyang Zheng, PhD	Development of a Flexible Micro Spring Array device for viable circulating tumor cell enrichment, analysis, primary culture and ex vivo therapeutic response test	NCI

#### Faculty Publications (August-November 2012)

- 1. Ang, K. C., Ngu, M. S., Reid, K. P., Teh, M. S., Aida, Z. S., Koh, D. X., Berg, A., Oppenheimer, S., Salleh, H., Clyde, M. M., Md-Zain, B.M., Canfield, V.A., and Cheng, K.C. (2012). Skin color variation in Orang Asli tribes of Peninsular Malaysia. PLoS One 7, e42752.
- 2. Brenner, D.R., Boffetta, P., Duell, E.J., Bickeböller, H., Rosenberger, A., McCormack, V., Muscat, J.E., Yang, P., Wichmann, H.E., Brueske-Hohlfeld, I., Schwartz, A.G., Cote, M.L., Tjønneland, A., Friis, S., Le Marchand, L., Zhang, Z.F., Morgenstern, H., Szeszenia-Dabrowska, N., Lissowska, J., Zaridze, D., Rudnai, P., Fabianova, E., Foretova, L., Janout, V., Bencko, V., Schejbalova, M., Brennan, P., Mates, I.N., Lazarus, P., et. al. (2012). Previous lung diseases and lung cancer risk: a pooled analysis from the international lung cancer consortium. Am J Epidemiol 176, 573-585.
- 3. Cho, H., Yeh, E. C., Sinha, R., Laurence, T. A., Bearinger, J. P., and Lee, L. P. (2012). Single-Step Nanoplasmonic VEGF(165) Aptasensor for Early Cancer Diagnosis. ACS Nano 6, 7607-7614.
- 4. Dolloff, N. G., Allen, J. E., Dicker, D. T., Aqui, N., Vogl, D., Malysz, J., Talamo, G., and El-Deiry, W. S. (2012). Sangivamycin-Like Molecule 6 (SLM6) exhibits potent anti-multiple myeloma activity through inhibition of cyclin-dependent kinase-9 (CDK9). Mol Cancer Ther. Epub ahead of print.
- 5. Gowda, R., Madhunapantula, S. V., Desai, D., Amin, S., and Robertson, G. P. (2012). Simultaneous Targeting of COX-2 and AKT Using Selenocoxib-1-GSH to Inhibit Melanoma. Mol Cancer Ther. Epub ahead of print.
- 6. Haque, R., Lei, F., Xiong, X., Bian, Y., Zhao, B., Wu, Y., and Song, J. (2012). Programming of regulatory T cells from pluripotent stem cells and prevention of autoimmunity. J Immunol 189, 1228-1236.
- 7. Kantarjian, H., Faderl, S., Garcia-Manero, G., Luger, S., Venugopal, P., Maness, L., Wetzler, M., Coutre, S., Stock, W., Claxton, D., et al. (2012). Oral sapacitabine for the treatment of acute myeloid leukemia in elderly patients: a randomized phase 2 study. Lancet Oncol 13, 1096-1104.
- 8. Ludgate, L., Ning, X., Nguyen, D. H., Adams, C., Mentzer, L., and Hu, J. (2012). Cyclin-dependent kinase 2 phosphorylates s/t-p sites in the hepadnavirus core protein C-terminal domain and is incorporated into viral capsids. J Virol 86, 12237-12250.
- 9. Mallett, K.A., Turrisi, R. Billingsley, E., Comer, C.D., Read, A., Varvil-Weld, L., Gaber, R., Favero, S., Guttman, K., and Robinson, J.K. (2012). Enhancing patients' satisfaction and sun-protective behaviors using the ABC method of physician-patient communication. Arch Dermatol 148, 1087-1089.
- 10. Morad, S. A., Levin, J., Shanmugavelandy, S., Kester, M., Fabrias, G., Bedia, C., and Cabot, M. C. (2012). Ceramide-antiestrogen nanoliposomal combinations novel impact of hormonal therapy in hormone-insensitive breast cancer. Mol Cancer Ther. Epub ahead of print.
- 11. Plichta, K. A., Mathers, J. L., Gestl, S. A., Glick, A. B., and Gunther, E. J. (2012). Basal but not luminal mammary epithelial cells require PI3K/mTOR Signaling for Ras-driven overgrowth. Cancer Res. Epub ahead of print.
- 12. Uckun, F. M., Ma, H., Zhang, J., Ozer, Z., Dovat, S., Mao, C., Ishkhanian, R., Goodman, P., and Qazi, S. (2012). Serine phosphorylation by SYK is critical for nuclear localization and transcription factor function of Ikaros. Proc Natl Acad Sci U S A 109, 18072-18077.
- 13. Yoder, J. D., Cifuente, J. O., Pan, J., Bergelson, J. M., and Hafenstein, S. (2012). The Crystal Structure of a Coxsackievirus B3-RD Variant and a Refined 9-Angstrom Cryo-Electron Microscopy Reconstruction of the Virus Complexed with Decay-Accelerating Factor (DAF) Provide a New Footprint of DAF on the Virus Surface. J Virol 86, 12571-12581.

#### **News and Notes**

#### You Danced. You Voted. We Won!

Penn State Hershey entered the national Pink Glove Dance Video competition, along with 269 other organizations, to share a message - a bold, loud, shockingly pink message about the importance of early detection. Thanks to the hard work and dedication of the more than 600 faculty, staff, patients, survivors and the Nittany Lion, and the immense support from our community, we won \$5,000 for the PA Breast Cancer Coalition. Like us, their commitment to fighting cancer goes well beyond the gloves. Thanks for dancing, thanks for voting, and thanks for continuing the fight against breast cancer!



- Watch our winning Pink Glove Dance Video
- View behind-the-scenes photos captured during filming of the Pink Glove Dance
- View photos from the Pink Glove Dance Video employee premiere events

# Second Annual Chocolate Tour raises nearly \$45,000 for cancer research



The Second Annual Chocolate Tour to support cancer research at Penn State Hershey Cancer Institute to find the cure raised nearly \$45,000. Cyclists, walkers, and runners participated in this event on Saturday, September 29, which included the Foreman Foundation six-mile race, The Mike Geltrude Foundation six-mile fun walk, the Half Marathon Relay event sponsored by WINK 104.1 FM and The Hershey Company, and the Life Technologies Cycling events. The run and walk events took place on the beautiful campus of the Milton Hershey School. Cyclists experienced the countryside of central Pennsylvania with its Amish farms and covered bridges, and visited the historic chocolate towns of Hershey,

Elizabethtown and Lititz. More than 750 people from as far away as Michigan, Delaware, Maryland, New York, New Jersey, Georgia and Canada joined Pennsylvanians to support fundraising efforts for the Cancer Institute.

The Chocolate Tour Fundraising Committee would like to thank participants, the more than 100 volunteers and volunteer organizations (Kiwanis and Lions Club of Lititz, Knights of Columbus St Joan of Arc Hershey and the Mark Encin Foundation), donors, corporate and community sponsors (The Foreman Foundation, The Mike Geltrude Foundation, Life Technologies, WINK 104.1 FM, The Hershey Company, Cargill/Wilbur, Fisher Scientific, Comfort Inn-Hershey, Denville Scientific, Hershey Center for Applied Research, TE Connectivity, VivoPharm, PenForGel LLC and Penn State Hershey Melanoma Center). The Pennsylvania State Police organized a team to participate in the Chocolate Tour in support of a colleague who was recently diagnosed with cancer. This highly enthusiastic and energetic group had over thirty people participating and rose over \$2,150 to support cancer research at Penn State Hershey. They truly showed that together we can make a difference.

The Committee would also like to thank our supporters, The Hershey Company, M&M Mars, UTZ, Brookes, Pepsi-Cola, The Hershey Lodge, Giant Food Stores, WLPA/WROZ/WKZF Radio, WLBR&WQIC Radio, The Walters Company and a SPECIAL thanks to The Milton Hershey School for hosting the 2012 Chocolate Tour on their campus and helping to make the event a huge success.

The 2013 Chocolate Tour is already in its planning stages. As details are confirmed, they will be posted here. Please check back periodically for updates.

# Finding Hope with Penn State Hershey Cancer Institute

A <u>new publication was produced for the Cancer Institute</u> and mailed to more than 44,000 households in the Harrisburg Metro area in November. Articles include robotic surgery for prostate cancer, nutrition services, genetics counseling and more. The next issue will be published in March 2013.

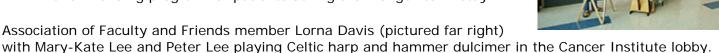
#### **Center Stage**

<u>Center Stage</u> is a performing and visual arts program funded by Penn State Hershey Medical Center and Penn State College of Medicine. You'll find Center Stage performing artists in the Cancer Institute a few times each month, including the lobby, infusion therapy and inpatient rooms.



Its mission is to offer a regular menu of live art to patients, families, caregivers and visitor during their time at the Medical Center, including:

- Live music, theatrical and dance performances by performing artists in waiting and clinical areas throughout the Medical Center
- Piano music on our baby grand inside the main entrance lobby
- A summer lunchtime concert series for the entire Medical Center and College of Medicine community
- Juried rotating exhibitions by local artists in numerous waiting and clinical areas that culminate in artist reception and art sales
- Collaborative art making projects for patients and family members
- Artwork lending program for patients during their longer-term stay





Patty Gelenberg and musician Mark Wesling playing the acoustic guitar outside of patient rooms in the Medical ICU on the sixth floor.

# Third Annual Harrisburg Cancer Education Summit - Moving Forward with Survivorship: Keeping Yourself Fit and Well

One of the signature events of the Harrisburg Community Cancer Network (HCCN) is its annual Harrisburg Cancer Education Summit, held on the first Saturday of November every year. The theme for the 2012 Summit was **Moving Forward with Survivorship: Keeping Yourself Fit and Well**. The Summit was sponsored by Penn State Hershey Cancer Institute, American Cancer Society, Wal-Mart Foundation, Members 1st Federal Credit Union, and Giant Food Store. Organized by a subcommittee of the HCCN Community Engagement Advisory Board and held at the Zion Assembly Church of Harrisburg, the Summit provided cancer survivors, especially breast cancer survivors, with evidence-based programs to help them live well through survivorship.

Over 80 people attended this year's Summit. For the third year in a row, Linda Thompson, Mayor of Harrisburg, opened the Summit. Dr. Lavette Paige, Pastor of Martin Luther King Baptist Church, followed with a very inspirational message for both cancer survivors and those who had never been diagnosed with cancer. The program continued through lunch with dynamic and expert speakers and audience participation on topics including:

- Five Myths and Facts about Exercise and Fitness
- Nutrition Before, During and After Cancer
- A Physician Panel: Lost in Transition From Your Oncologist to Primary Care Physician

The HCCN is a community/academic partnership to reduce the burden of cancer in Harrisburg and Dauphin County, with a focus upon minority and medically underserved populations. Begun in 2009, the HCCN is led by a Community Engagement Advisory Board. In 2009, 32 women in the city of Harrisburg were diagnosed with breast cancer; 7 died from breast cancer (EpiQMS, PA Department of Health). Breast cancer is the most frequently diagnosed cancer and the second leading cause of cancer death among females in Harrisburg. Across the United States, African-American women tend to have more aggressive tumors and tend to be diagnosed at later stage. Many factors contribute to the higher death rates among African-American women, including differences in access to early detection, treatment choices, and tumor characteristics.

The 2013 Harrisburg Cancer Education Summit will be held on November 2, 2013. Mark your calendar!



Joseph A. Cincotta, M.D., Kathryn A. Peroutuka, M.D., Harold A. Harvey, M.D., Pastor Kevin St. Martin



Summit participant Janet Bailey and Pastor Kevin St. Martin

# **Harrisburg Breast Cancer Support Group**

This support group offers women of all ages - including newly diagnosed women, caregivers and survivors - an opportunity to meet, share experiences, celebrate life, and receive education. The Harrisburg Breast Cancer Support Group is a program of the Harrisburg Community Cancer Network, a community-academic partnership to reduce the burden of cancer in Harrisburg and Dauphin County with a focus upon minority and medically underserved populations.

#### WHEN:

- Tuesday, November 13, 2012
- Tuesday, March 12, 2013
- Tuesday, April 9, 2013
- Tuesday, May 14, 2013
- Tuesday, July 9, 2013
- Tuesday, September 10, 2013
- Tuesday, November 12, 2013

All programs are from 6:00-7:30 p.m.

#### WHERE:

GIANT Harrisburg - Blue Mountain Commons 2300 Linglestown Rd.

Registration is required. To register or <u>for more information about the Harrisburg Breast Cancer Support Group</u> contact Patricia Robinson, Penn State Hershey Cancer Institute, at 717-531-0003, ext. 289477 or via e-mail: <u>probinson1@hmc.psu.edu</u>.

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