



PCRP Perspectives

Volume 2, Number 2 – September 2010

In This Issue

page 1 PCRP's Commitment; Landmark Consortium; Featured Opinion **page 2** Landmark Consortium, continued **page 3** Spotlight; Program News; Calendar of Events
page 4 PCRP's Commitment, continued; Contact Information **page 5** Spotlight, continued; Did You Know
page 6 Summary of FY09–FY10 PCRP Award Recommendations; Grant Writing Tips; Opinion, continued

Featured Opinion

Mr. Virgil Simons

Founder and President, The Prostate Net
 Fiscal Year 2010 Chair-Elect, PCRP Integration Panel



Prostate cancer is second only to lung cancer as a leading cause of cancer death in men. The disease has an even greater impact on African American men, as their death rate from prostate cancer is more than twice that of Caucasian men. Even with the approval, just this year, of two new drugs that extend survival for patients with advanced stage disease and potentially may provide better quality of life, the fact that there is still no cure for locally advanced or metastatic prostate cancer means that African American men will continue to die from this disease at an alarming rate.

Yet, despite this seemingly dire data, hope abounds through the avenue of research and the ongoing work of the Department of Defense Prostate Cancer Research Program (PCRP). Since its establishment by Congress in 1997, the PCRP has invested in research to address issues of prostate cancer health disparity. This issue of PCRP Perspectives shines a light on those investments and the PCRP's continued emphasis to find and fund studies that will ultimately eliminate health disparities. For example, the PCRP has funded the landmark North Carolina-Louisiana Prostate Cancer

» continued, **SEE OPINION, PG. 6**

PCRP's Commitment to Resolving Prostate Cancer Health Disparity

Prostate cancer (PCa) is a common disease with which 1 out of every 6 men will be diagnosed during their lifetime, and 1 in 36 men will die (<http://www.cancer.org/Cancer/ProstateCancer/DetailedGuide/prostate-cancer-key-statistics>). Predictions by the American Cancer Society estimate that in 2010 alone, approximately 217,730 men in the United States will be diagnosed with prostate cancer and 32,050 men will lose their life to this disease. Although men from any race, ethnicity, or socioeconomic group may acquire PCa, some populations are disproportionately affected. African

American (AA) men are particularly vulnerable, with an increased risk of incidence and mortality more than twice that of any other ethnic group.

Since its inception in 1997, the Prostate Cancer Research Program (PCRP) has focused on identifying and funding innovative, high-risk/high-impact research aimed toward the prevention, detection, diagnosis, and treatment of human prostate cancer in all populations. The PCRP's longstanding commitment to resolving prostate cancer health disparity has been evidenced by its

» continued, **SEE PCRP COMMITMENT, PG. 4**

Landmark Consortium Wraps Up 8 Years of Data Collection and Investigation into Prostate Cancer Health Disparity

The Prostate Cancer Project (PCaP) Consortium was established in fiscal year 2002 (FY02) with a Consortium Award funded by the Prostate Cancer Research Program (PCRP) (1). Directed by Dr. James Mohler of the Roswell Park Cancer Institute (RPCI),

and in collaboration with Dr. Jeannette Bensen at the University of North Carolina at Chapel Hill (UNC-CH), and Dr. Elizabeth Fontham at Louisiana State University Health Science Center (LSUHSC), the PCaP sought to evaluate multiple contributing

» continued, **SEE LANDMARK, PG. 2**

VISION: Conquer prostate cancer.

MISSION: Fund research that will end death and suffering from prostate cancer.

» LANDMARK FROM PG. 1

factors to prostate cancer health disparity in an effort to determine an effective plan for resolving it. After 8 years of perseverance and overcoming the challenges of recruiting patients to a prospective epidemiologic study, PCaP investigators have successfully completed the recruitment of 2,258 men to participate in a series of epidemiological and genetic studies of African American and Caucasian men newly diagnosed with prostate cancer. These efforts involved in-home interviews, retrieval of medical records, and the collection of biological specimens from each participant. Importantly, beyond the PCaP studies described below, the investigators and institutions involved in PCaP have made the entirety of the PCaP data and specimen collection, unmatched in size and quality, available to the prostate cancer research community.

Approximately equal numbers of African American (AA, 1,130) and Caucasian American (CA, 1,128) men were enrolled to the PCaP study. Despite a major delay caused by the displacement of both patients and investigators after Hurricanes Katrina and Rita, LSUHSC was able to adjust and ultimately recruited numbers of participants similar to those recruited by UNC-CH. Demographic analysis of these participants revealed that the age of prostate cancer diagnosis tended to be younger in AA men, even though their cancer was likely to be more aggressive than in CA men. AA men also tended to have lower income and education levels than CA men and were less likely to be married. From the standpoint of general health and health care, AA men were less likely to report general good health, visit the same doctor more than once, or to have had prior prostate cancer screening. The reported family history of prostate cancer was similar in both races and states. The preferred primary treatment for both AA and CA men was radical prostatectomy although this procedure was more common in North Carolina than in Louisiana. The wealth of information gathered in these studies is providing tangible targets to address health disparities in the early screening, detection, and treatment of prostate cancer.

In addition to the enormous volume of epidemiological data created by this project, a vast collection of biological specimens was also accumulated and stored. Samples collected include plasma, serum, red blood cells, urine, mouthwash, toe nail clippings, and diagnostic and radical prostatectomy (RP) tissue blocks. DNA was processed from either blood or mouthwash samples

for more than 98% of patients in the study, creating an unparalleled resource for prostate cancer health disparity research. In addition, peripheral blood mononuclear cells are being immortalized in an effort to perpetuate this valuable resource. To date, 6,284 diagnostic blocks and 7,287 RP blocks have been processed although annotation of the samples is ongoing. Some of the tissue samples have been used to create tissue microarrays (TMAs), which permit the simultaneous analysis of hundreds of patients. More than 98% of patients have consented to continued follow-up, which will greatly increase the value of the annotated repository specimens.

Several epidemiological studies were conducted with the information gathered from the in-home interviews. One issue addressed was the interactions of these men with their health care provider. Interview responses showed that CA men placed greater trust in their physicians than AA men, likely because they were also more likely to visit the same physician on multiple visits, thereby increasing the likelihood of developing a trusting relationship. Personal interactions and levels of trust in the care received were found to be important criteria in another study that examined satisfaction with the health care system (2). In another project, analyses are in progress to assess the results of a dietary questionnaire designed to establish the relationship between dietary intake and prostate cancer aggressiveness.

With the completion of sample collection, a number of genetic studies are now being conducted to compare the expression of genes and single nucleotide polymorphisms (SNPs) in AA and CA men with prostate cancer. One study is examining more than 1,500 SNPs in 2,000 men to determine whether there is a common polymorphism in AA men that affects disease severity and/or susceptibility. Although analysis is ongoing, most of the SNPs identified as correlating with prostate cancer are unique to either AA or CA men but are rarely common to both groups. Another project has identified 40 novel SNPs, not previously discovered by genome-wide association studies (GWAS), which have statistically significant differences in allelic frequencies between aggressive and nonaggressive prostate cancer. Yet another project is using a proteomics-based approach for biomarker discovery and aims to concentrate proteins that are present in low abundance but may be highly likely to be able to distinguish between prostate cancers and

PCaP Directors



James Mohler, M.D.
Co-director



Jeannette Bensen, Ph.D.
Co-director

normal tissue and between different racial groups. Several candidate markers have been identified that are elevated before, but not after, prostatectomy.

The roles of androgen receptor (AR) and AR-regulated genes have also been examined by PCaP investigators since androgen levels trend higher in AA men. TMA analysis of 200 prostatectomy samples is under way to compare the expression of related genes. This will be accompanied by measurements of tumor growth rate in AA and CA men. The AR co-regulator melanoma antigen gene protein A11 (MAGE-11) is also a focus of interest, to determine if it is differentially expressed in AA and CA men or in aggressive and nonaggressive prostate cancer.

The depth of information contained in the PCaP data sets is just beginning to be realized. With the PCaP data sets finalized and quality-assured, the data and repository specimens have been made available (<http://www.ncla-pcap.org/>) for additional studies by the prostate cancer research community. Approval for use of the resources is dependent upon availability of desired samples or data, as well as scientific merit. Importantly, future studies using these data and specimens will finally provide definitive answers to the factors associated with prostate cancer risk, and especially those that are responsible for the disproportionate incidence and death rate of prostate cancer in African American men.

1. Schroeder JC, Bensen JT, Su LJ, Mishel M, Ivanova A, Smith GJ, Godley PA, Fonthan ET, and Mohler JL. 2006. The North Carolina-Louisiana Prostate Cancer Project (PCaP): Methods and design of a multidisciplinary population-based cohort study of racial differences in prostate cancer outcomes. *Prostate* Aug 1;66(11):1162-1176.
2. Carpenter WR, Godley PA, Clark JA, Talcott JA, Finnegan T, Mishel M, Bensen JT, Rayford W, Su LJ, Fonthan ET, Mohler JL. 2009. Racial differences in trust and regular source of patient care and the implications for prostate cancer screening use. *Cancer* 115(21):5048-5059.

In This Issue

page 1 PCRP's Commitment; Landmark Consortium; Featured Opinion page 2 Landmark Consortium, continued page 3 Spotlight; Program News; Calendar of Events

page 4 PCRP's Commitment, continued; Contact Information page 5 Spotlight, continued; Did You Know

page 6 Summary of FY09-FY10 PCRP Award Recommendations; Grant Writing Tips; Opinion, continued

Spotlight Cross-Cultural Studies of Prostate Cancer Health Disparity

Flora Ukoli, M.D., M.P.H.
Meharry Medical College

The disproportionate effect of prostate cancer on African American men compared to other ethnic groups is a sobering reality for any research investigator concerned with health and public health policy, given the approximately 60% higher incidence and twice the mortality rate compared to Caucasian men. Dr. Flora Ukoli, recipient of a PCRFP fiscal year 1999 (FY99) Minority Population Focused Collaborative Award (MPFCA), FY01 Idea Development Award (IDA), FY04 HBCU Collaborative Partnership Award (HCPA), FY05 Clinical Trial Development Award (CTDA), and FY08 Collaborative Undergraduate HBCU Summer Training Program Award (STPA), has focused her investigations on the effects of diet and environmental factors on prostate cancer risk in African American and West African men, developing a prostate cancer program, and training young investigators in prostate



cancer research. With her FY99 MPFCA she developed a pilot case-control study to examine the effects of dietary and lifestyle changes that affect prostate cancer risk in African migrants to the Washington, DC metropolitan area, compared to men in Nigeria. Using advertising in African cultural centers and business establishments to recruit participants, Dr. Ukoli conducted a case-control pilot study with a cohort of 111 West African men that included a dietary questionnaire, the collection of urine and blood samples, and other study instruments. Analyses of blood samples showed a high level of omega 6-fatty acids among African migrants living in the United States while Nigerian men exhibited higher levels of omega-3 fatty acids. These differences will be confirmed in a larger cohort study. Omega-3 and omega-6 fatty acids are essential for normal growth and health. The disproportionately high amounts of omega-6 in western diets compared to low amounts of omega-3 are thought to contribute to cancer, cardiovascular disease, and inflammation. Studies have shown a correlation between high intake of foods rich in omega-3, such as fish and fish oils, and reduced risk of prostate cancer.

» continued, SEE SPOTLIGHT, PG. 5

Calendar of Events

SEPTEMBER						
Mo	Tu	We	Th	Fr	Sa	Su
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

SEPTEMBER

11-12: 2010 Prostate Cancer Conference, Los Angeles, CA *Sponsored by the Prostate Cancer Research Institute*

12-15: Joint Metastasis Research Society - American Association for Cancer Research (AACR) Conference on Metastasis and the Tumor Microenvironment, Philadelphia, PA

13-18: Pushing for Progress in Prostate Cancer, Washington, DC *Sponsored by the Prostate Cancer Foundation, ZERO: The Project to End Prostate Cancer, and the Prostate Health Education Network (PHEN)*

14-16: The 11th Annual Summit to End Prostate Cancer, Washington, DC *Sponsored by ZERO: The Project to End Prostate Cancer*

16-17: Sixth Annual African American Prostate Cancer Disparity Summit, Washington, DC *Sponsored by the PHEN*

27-30: Fourth AACR International Conference on Molecular Diagnostics in Cancer Therapeutic Development, Denver, CO

30-Oct. 3: The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved, Miami, FL *Sponsored by the AACR*

OCTOBER						
Mo	Tu	We	Th	Fr	Sa	Su
				1	2	3
				4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

OCTOBER

12-14: PCRFP Fiscal Year 2010 Programmatic Review

17-22: Translational Cancer Research for Basic Scientists, Boston, MA *Sponsored by the AACR*

NOVEMBER						
Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

NOVEMBER

7-10: Ninth Annual AACR International Conference on Frontiers in Cancer Prevention Research, Philadelphia, PA

11-14: 2010 Society for Basic Urological Research (SBUR) Fall Symposium: The Inflammation/Immunity Axis in Urologic Disease, Atlanta, GA

16-18: PCRFP Fiscal Year 2011 Vision Setting

16-19: EORTC-NCI-AACR International Symposium on Molecular Targets and Cancer Therapeutics, Berlin, Germany

30-Dec. 3: Tumor Immunology: Basic and Clinical Advances, Miami Beach, FL *Sponsored by the AACR*

Program News

- The PCRFP received 1,027 compliant preproposals and 1,179 compliant applications for funding in FY10.
- Peer review for all award mechanisms was completed in August 2010. A total of 359 scientist reviewers and 70 consumer reviewers participated in PCRFP peer review.
- Programmatic review for most award mechanisms will be conducted in October 2010 and funding status notifications provided in early November.
- Vision setting for FY11 will be conducted in November 2010.
- In FY10, PCRFP staff members presented information on PCRFP-funded research and new funding opportunities at the 8th World Basic Urological Research Congress, the AACR Annual Meeting, the AUA Annual

Meeting, and educational summits of Us TOO International, ZERO: The Project to End Prostate Cancer, and the Prostate Health Education Network.

- For Prostate Cancer Awareness Month, the third issue of PCRFP Perspectives has been released and special stories on PCRFP-funded research and prostate cancer survivors are available at <http://cdmrp.army.mil/pcrp/>.
- The next PCRFP Innovative Minds in Prostate Cancer Today (IMPACT) Meeting will be held March 9-12, 2011 in Orlando, Florida. The meeting will highlight progress in prostate cancer research supported by the PCRFP and will serve as a forum to discuss critical issues and explore new avenues of research.

In This Issue

» **PCRP COMMITMENT, CONTINUED FROM PG. 1**

investment in a portfolio of studies that examines the interaction and impact of biological, genetic, socioeconomic, cultural, and environmental factors affecting prostate cancer risk. Through investments in individual investigators, multidisciplinary and multi-institution team science, and training opportunities for new young investigators, the program has supported health disparity research to better understand and potentially resolve disparities in AA populations. Numerous basic, translational, and clinical research projects focused on health disparity have been supported through various award mechanisms (Figure 1a), including the Health Disparity Research Award (HDRA), Health

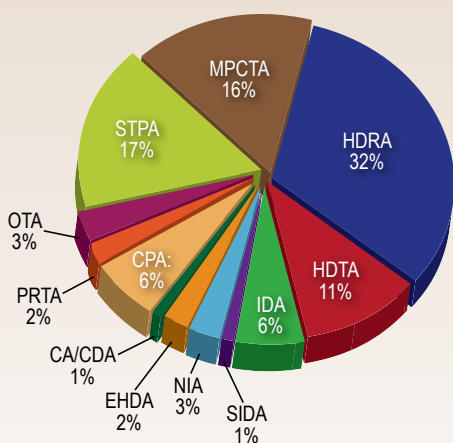


Figure 1a

Disparity Training Award (HDTA), Idea Development Award (IDA), Synergistic Idea Development Award (SIDA), New Investigator Award (NIA), Exploration-Hypothesis Development Award (EHDA), Consortium or Consortium Development Awards (CA or CDA), Physician Research Training Award (PRTA), other training awards for pre- and postdoctoral fellows, Collaborative Undergraduate Historically Black Colleges and Universities (HBCU) Student Summer Training Program Award (STPA), HBCU Collaborative Partnership Award (CPA), and Minority Population-Focused Collaborative Training Award (MPCTA). To date, the program has supported over 146 awards totaling over \$40.5M in its efforts toward resolving prostate cancer health disparity. The knowledge gained from these studies will help delineate the underlying causes of the high incidence and mortality due to prostate cancer in AA men.

The increased incidence and mortality of prostate cancer among AA men are thought to be associated with both genetic and

socioeconomic risk factors. The PCRP has funded projects addressing both of these areas, as well as training and infrastructure projects that help to establish young investigators and new prostate cancer research programs (Figure 1b) in this field of research. The PCRP portfolio includes 59 projects focused primarily on the genetic and biological factors of health disparity, funded by 9 different award mechanisms,

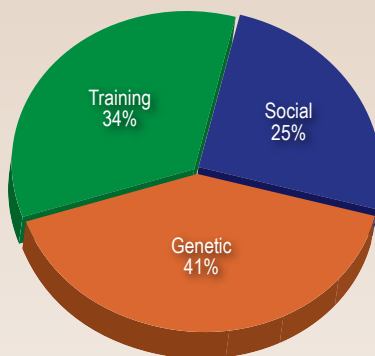


Figure 1b

and 37 projects funded through 7 different award mechanisms that have primarily addressed socioeconomic differences between men of varying race, ethnic, and environmental/geographical backgrounds. Some of these projects addressed multiple categories.

Genetic and biological risk factors studied by PCRP award recipients include differences (1) at the genetic level (e.g., single nucleotide polymorphisms [SNPs], microRNA expression, use of different alleles or splice variants), (2) in the expression of various genes, (3) in blood or tissue hormone levels, (4) in the ability to absorb vitamin D, zinc, or other natural elements or compounds, (5) in the intake level or absorption of antibiotics and nonsteroidal anti-inflammatory drugs, red meat, dairy products, or dietary supplements, and (6) in the response to prostate cancer therapeutic interventions or short-term exercise. Many new differences in allelic frequency and gene or microRNA expression have been discovered, opening up new avenues of investigation, and offering hope for new and more effective treatment options for populations of men disproportionately affected by PCA.

In addition to genetic and biological risk factors, PCRP-funded investigators are also investigating the socioeconomic risk factors associated with prostate cancer health disparity. Some of the projects include studies

focused on the extent to which various populations (1) are aware of their prostate cancer risk, (2) understand the importance of prostate cancer screening, (3) trust and respect their health care providers, (4) have access to health care and health insurance, (5) have support from family members, and (6) are willing to make lifestyle changes. Also investigated were differences in physical activity level, tobacco use, diet and obesity, and the type of care desired and received. Several of these studies have shown that greater efforts are required to educate the general public, especially minority populations, on the importance of prostate cancer screening, risk factors, and informed decision making with regard to treatment options. In fact, it has been found by multiple investigators that the method of dissemination is often critical to successful outreach.

Finally, the PCRP's commitment to resolving health disparities is exemplified in its 2002 support of one of the most comprehensive investigations into the biological and sociological factors that contribute to racial differences in prostate cancer incidence and mortality between AA and Caucasian men through the Prostate Cancer Project (PCaP) Consortium. This landmark study is nearing completion and its data will be analyzed in the coming months and years. It is anticipated that the findings from this study will conclusively answer some key questions, while generating others, and ultimately change public policies and clinical care standards, influence behavior, and have a more major impact toward resolving prostate cancer disparities. A more detailed discussion of the PCaP Consortium, its goals, accomplishments, and resources for collaboration and partnership is also presented in this issue of the newsletter.

Prostate Cancer Research Program

For more information:
<http://cdmrp.army.mil/pcrp/default.htm>

General Questions:
 Phone: (301) 619-7071

Proposal Requirements:
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Consumer Involvement:
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In This Issue

» **SPOTLIGHT, CONTINUED FROM PG. 3**

Under her FY01 IDA, Dr. Ukoli expanded her investigations of fatty acids and antioxidants (vitamin E) to determine how these dietary nutrients affect cancer risk and whether migration impacts exposure to dietary risk factors for prostate cancer. Her expanded cohort included African Americans, migrant Africans in America, and Nigerians of similar socioeconomic status and age for both prostate cancer cases and controls. Dr. Ukoli found significant differences in omega-6, omega-3, docosahexaenoic (DHA), palmitic, stearic, and oleic acid among the ethnic groups. The African American group had the highest body mass index and highest mean total of omega-6 fatty acids, both of which were associated with prostate cancer cases. Migrant Africans and Nigerians showed the highest omega-3 fatty acids index (37.9%) and (36.9%), respectively, compared to 8% found in a small percentage (6.1%) of African Americans.

With the support of an FY04 HCPA, Dr. Ukoli developed a prostate cancer research and training program at Meharry Medical College with a research focus on prostate cancer health disparity in African American men. She collaborated with investigators at Vanderbilt University to train minority faculty and graduate students in prostate cancer research while conducting a case-control study to identify genetic and environmental factors that contribute to prostate cancer health disparities in African American men. Specifically, the studies were focused on assessing the role of lycopene, an antioxidant found in tomatoes, as a factor in prostate cancer progression in African American and Nigerian men, and determining whether the type II diabetes drug, thiazolidinediones, inhibits prostate cancer progression in cell studies in collaboration with Dr. LaMonica Stewart. In line with these plans and based on preclinical data that show a correlation between prostate cancer and diets high in animal fats and low in antioxidants, Dr. Ukoli designed a double-blind, randomized, controlled Phase II trial with funds from her FY05 CTDA to test the effects of lycopene-containing supplements in reversing prostate cancer progression in African American prostate cancer survivors with biochemical failure. Since African American men consume more animal fat and lower amounts of antioxidants compared with groups with lower prostate cancer risk, this type of study could lead the way toward a specific intervention in this high-risk population.

With her most recent award, an FY08 STPA, Dr. Ukoli is creating opportunities for undergraduates from nearby Fisk University to train in prostate cancer. Through this new collaboration, forged with Dr. Shirley Rainey at Fisk, and existing ties with Vanderbilt University, Dr. Ukoli is able to provide mentoring and training for students in prostate cancer biology, epidemiology, and behavioral health. Students chosen through a competitive selection process participate in an intensive 12-week didactic curriculum that includes seminars, journal clubs, grand rounds, workshops, community networking, and training in laboratory techniques, data collection, and data management. The students have the opportunity to interact with scientists and clinicians through individualized research projects that extend beyond their time at Meharry College of Medicine and continue throughout the academic year, resulting ultimately in a completed manuscript for publication and attendance at a national conference. This experience is meant to encourage the summer interns to consider a career in prostate cancer research and to perpetuate, in other minority students at Fisk University, an interest in biomedical science careers.

Dr. Ukoli has used her expertise in preventive health, epidemiology, and prostate cancer research and her experience in training undergraduate and graduate students to advance the understanding of prostate cancer health disparity and the progress of prostate cancer research and to help mold the future generation of prostate cancer researchers. With funds from the PCRCP, she has opened new avenues of investigation that may uncover the factors contributing to the disproportionate burden of prostate cancer on African American men. Her efforts are contributing to a new understanding of the disease and may influence health behavior and affect public health policy.



Did You Know...

- Over 217,730 men in the United States will be diagnosed with prostate cancer this year.
- The PCRCP has provided support to over 2,256 scientists with over 2,000 awards. Of these, 92 awards went to 41 international institutions outside of the United States representing 11 different countries. The reach of the PCRCP demonstrates its commitment to ensuring that the best ideas in prostate cancer are supported in prostate cancer research.
- In fiscal year 2010, the PCRCP took unprecedented steps to address the problem of overtreatment of prostate cancer, declaring as one of its Overarching Challenges the effort to distinguish lethal from indolent disease and creating the Impact Award, which is specifically designed to fund only projects with significant potential to reduce or eliminate overtreatment.
- Us TOO International is one of the largest prostate cancer patient advocacy, education, and support organizations in the world with over 325 chapters. In 2010, Us TOO celebrates its 20th anniversary of supporting men and their families in making informed decisions about their prostate health and treatment. Us TOO was formed in 1990 by five men who were diagnosed and treated for prostate cancer. Today, Us TOO has gained international prominence through its effective leadership and outstanding organizational and community-based efforts, all of which led to its being granted membership in the National Health Council.

In This Issue

Summary of FY09 PCRP Awards

Resource Award

Prostate Cancer Pathology
Resource Network 2 Awards

Research Awards

Health Disparity Research
6 Awards

Idea Development 41 Awards

New Investigator 28 Awards

Synergistic Idea Development
14 Awards

Training/Recruitment Awards

Collaborative Undergraduate
HBCU Student Summer Training
4 Awards

Health Disparity Training 1 Award

Physician Research Training
8 Awards

Prostate Cancer Training
62 Awards

**Total of 166
FY09 Awards**

FY10 PCRP Award Recommendations

Exploration-Hypothesis
Development
27 Awards

» OPINION, CONTINUED FROM PG. 1

Project (PCaP), led by Drs. James Mohler and Jeannette Bensen, which has resulted in one of the largest collections of extensive epidemiological data and biological specimens from over 2000 African American and Caucasian men to help identify risk factors associated with prostate cancer. This unparalleled resource will enable a full investigation of the genetic, behavioral, epidemiological, and socioeconomic factors associated with the disproportionate incidence of prostate cancer in African American men compared to their Caucasian counterparts. The PCRP has also supported Dr. Flora Ukoli of Meharry Medical College, enabling her to investigate the effects of dietary and lifestyle changes on prostate cancer risk in migrant Africans, and the role of antioxidants and commonly used type II diabetes drugs in prostate cancer progression in African American men. Dr. Ukoli is also maximizing PCRP support by collaborating with investigators at Vanderbilt University to train the next generation of investigators in prostate cancer. These and other highlights in this issue of the newsletter are only a small sample of the efforts of the PCRP to combat health disparity through specifically targeted research and training mechanisms that work to minimize, and ultimately eliminate,

prostate cancer's impact on Black men, their families, and their communities.

As an African American man and a prostate cancer survivor of 15 years, I know the fear, anguish, uncertainty, and physical results of the disease. However, as a patient advocate and member of the PCRP Integration Panel, I also believe in the importance of aggressive research, and I know that the PCRP represents our nation's best efforts to find a cure for prostate cancer.

As the PCRP strives to realize its vision of conquering prostate cancer, we must all redouble our efforts to understand the disease by educating ourselves and our communities about prostate cancer risk. We must act to protect ourselves and our family members through early detection, lifestyle and dietary changes, and active participation in the research process (both clinical and basic). We must be the change that eliminates prostate cancer!

Grant Writing Tips

- Ensure that your hypothesis, broad objectives, and specific aims clearly demonstrate significant relevance to prostate cancer.
- When writing a training plan, in addition to describing how the candidate will participate in coursework, seminars, journal clubs, conferences, laboratory training, data presentation, etc., it is also important to describe the research relevance to prostate cancer and the interactions between the candidate and mentor(s).
- When developing your research team, be sure to include clear expertise for all aspects of the proposed project, e.g., prostate cancer biology, statistics, clinical practice, and specialized laboratory skills. For any and all collaborators, include letters documenting in detail how they will support the project.
- Ensure that the proposal and required documents are in the correct format and that they DO NOT EXCEED the required page limits.

**Watch for more tips
in the next issue!**

Visit the PCRP Webpage for Up-to-Date Program Information

The DOD Prostate Cancer Research Program (PCRP) supports innovative ideas and technologies to accelerate our vision to conquer prostate cancer through individual, multidisciplinary, and collaborative research. These efforts are focused toward basic research discoveries and translating discoveries into clinical practice to improve the quality of care and life of men with prostate cancer. For more information on PCRP initiatives, highlights of funded research, and consumer profiles, please visit the PCRP webpage at

<http://cdmrp.army.mil/pcrp/default.shtml>

To subscribe to this free newsletter, please contact the editor at perspectives@cdmrp.org.

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page 1 PCRP's Commitment; Landmark Consortium; Featured Opinion **page 2** Landmark Consortium, continued **page 3** Spotlight; Program News; Calendar of Events

page 4 PCRP's Commitment, continued; Contact Information **page 5** Spotlight, continued; Did You Know

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