Note: For all of the following publications and presentations, investigators at more than one of the Partnership institutions participated in the work associated with their preparation. Thus, an asterisk (*) is not provided for each document.

Initial funding period 9/1/06-8/31/11

I. Cheryl Holt (UAB)/Lee Caplan (MSM) - Spirituality, Religiosity, and Cancer Coping Among Blacks (Funding period: 9/1/06-8/31/08)

Publications:

   
   Contributions by Dr. Holt: Conducted data analysis; drafted manuscript sections; served as corresponding author; worked with first author to bring manuscript through stages of publication.
   
   Contributions by Dr. Caplan: Conducted data analysis; drafted manuscript sections; provided detailed editing and overall critical review prior to submission (several iterations).

   
   Contributions by Dr. Holt: Conducted data analysis; drafted most manuscript sections; led manuscript through stages of publication.
   
   Contributions by Dr. Caplan: Conducted data analysis; drafted manuscript sections; provided detailed editing and overall critical review prior to submission.

   
   Contributions by Dr. Holt: Conducted data analysis; drafted most manuscript sections; led manuscript through stages of publication.
   
   Contributions by Dr. Caplan: Conducted data analysis; drafted manuscript sections; provided detailed editing and overall critical review prior to submission (several iterations).

   
   Contributions by Dr. Holt: Provided scientific leadership to the team with regard to instrument development, conducted the statistical analyses, and provided a first draft of most parts of the paper.
   
   Contributions by Dr. Caplan: Involved directly in the instrument development as well as in the foundational qualitative work. Provided an in-depth scientific review of the draft manuscript and assisted in completing it for the peer-review process.

   
   Contributions by Dr. Holt: Provided scientific leadership to the team with regard to instrument development, conducted the statistical analyses, and provided a first draft of most parts of the paper.
Contributions by Dr. Caplan: Involved directly in the instrument development as well as in the foundational qualitative work. Provided an in-depth scientific review of the draft manuscript and assisted in completing it for the peer-review process.

Presentations:


Career development: Although Dr. Holt has moved to the University of Maryland College Park (UMCP), accepting a position as an Associate Professor, she continues to collaborate with Dr. Caplan, who has received another grant in this field of research. Together, with a collaborator at a different institution, they are developing another project that will examine the role of religious involvement in a Jewish population. This is expected to provide preliminary information for a subsequent grant application. Dr. Holt has been accepted as a member of the American Academy of Health Behavior. At UMCP, she is presently serving on the Graduate Program Committee and Grant Review Committee. She is the mentor for three students and is on the dissertation committee for another.

II. Oh Wah Stephanie Yap (MSM)/Trygve Tollefsbol (UAB) - Novel Epigenetic Approaches in Drug- and Hormone-Resistant Ovarian Cancer Therapy. (Funding period:9/1/06-8/31/08)
Publication:


Contributions by Dr. Yap: Worked with Dr. Tollefsbol to design the study and the specific experiments; wrote the first draft of the proposal; visited the Tollefsbol lab at UAB to learn techniques that she had not previously performed, such as bisulfite methylation sequencing, 5-azacytidine treatments and trichostatin A treatments of cultured cells; enlisted the help of Dr. Liang Liu to learn techniques required for the core components of the paper; performed additional experiments at MSM; wrote the first draft of the paper; made necessary changes suggested by Dr. Tollefsbol and other co-authors.

Contributions by Dr. Tollefsbol: Edited the proposal, offered suggestions and provided preliminary data on epigenetics; edited the paper and offered suggestions for improvement; chose Anticancer Research as the most appropriate journal; and submitted the manuscript.

Contributions by Dr. Bhat: In addition to his work with Dr. Grizzle (see below), Dr. Bhat worked on this project, performing some of the experiments and assisting in preparation of the manuscript.

Career development: Shortly after she finished the experimental aspects of the study, Dr. Yap entered clinical practice for further development of her clinical skills and to learn more about primary care. This is consistent with her previous training. Dr. Yap benefited from the project in that she was able to publish a paper as first author. She also developed skills in epigenetic techniques and in cell culturing and become familiar with the research literature in epigenetics and cancer.

III. Roland Matthews (MSM)/Chandrika Piyathilake (UAB) – Protein Biomarkers of Cervical Cancer Risk (Funding period: 9/1/06-8/31/08)

Publications:


Contributions by Dr. Matthews: Acquisition of data, data analysis and interpretation, initial drafting of manuscript, and final approval of the version to be published.

Contributions by Dr. Piyathilake: Conception and design of experiments, data analysis and interpretation, and final approval of the version to be published.


Contributions by Dr. Matthews: Acquisition of data, data analysis and interpretation, initial drafting of manuscript, and final approval of the version to be published.

Contributions by Dr. Piyathilake: Conception and design of experiments, data analysis and interpretation, and final approval of the version to be published.

Grant applications:


Patent application:
Piyathilake, C.J. Patent application U2008-0070 has been **approved by UAB**. IP disclosure title: A Proteomic Test in Urine for Identifying HPV 16 Infected Women.

**Career development:** Dr. Matthews developed an expertise in proteomics that complements his interest in gynecologic malignancy and pre-invasive cervical cancer. This allowed him to participate in development of his institution’s Cancer Program. With his new manuscript writing skills, he has authored several manuscripts, made presentations at national meetings, and renewed his award as a Distinguished Cancer Clinician and Scientist from the Georgia Cancer Coalition. He was appointed Director of the Georgia Cancer Center of Excellence at Grady Health Systems (GHS) and is presently the GHS Principal Investigator on Georgia CORE’s Gynecology Oncology Group application.

**IV. Adelia Bovell-Benjamin (TU)/James Shikany (UAB) – Modification of a Food Frequency Questionnaire for use in African Americans in the Rural South (Funding period: 9/1/06-8/31/09)**

**Publications:**

   **Contributions by Dr. Bovell-Benjamin:** conception and design, acquisition of data, data analysis and interpretation, initial drafting of manuscript, and final approval of the version to be published.

   **Contributions by Dr. Shikany:** conception and design, acquisition of data, data analysis and interpretation, critical review and revision of the manuscript, and final approval of the version to be published.


   **Contributions by Dr. Bovell-Benjamin:** conception and design, acquisition of data, data analysis and interpretation, initial drafting of manuscript, and final approval of the version to be published.

   **Contributions by Dr. Shikany:** conception and design, acquisition of data, data analysis and interpretation, review of the manuscript, and approval of the version to be published.

**Presentations:**
1. **Shikany, J.;** **Bovell-Benjamin, A.;** Dawkins, N.; Hubbell, A.; Pace, R. Modification of a food frequency questionnaire for use in African Americans in the rural South. FASEB J. 2008;22:868.2. [http://www.fasebj.org/cgi/content/meeting_abstract/22/1_MeetingAbstracts/868.2](http://www.fasebj.org/cgi/content/meeting_abstract/22/1_MeetingAbstracts/868.2)


   **Career development:** Dr. Bovell-Benjamin improved her skills in (a) inter-institution collaboration, (b) grant writing (she did the bulk of the writing on the original proposal and on a new proposal submitted to the Partnership), (c) manuscript preparation (by preparing two first-author papers, (d) study design, and (e) data analysis. These accomplishments increase her competence as a scientist and should increase her prospects for promotion.

**IV. Harvey Bumpers (MSM)/Upender Manne (UAB) – Predictive Molecular Markers of Colorectal Cancer for African- American Patients. (Funding period: 9/1/07-8/31/11)**

**Publications:**
Contributions by Dr. Bumpers: Acquisition of data, data analysis and interpretation, initial drafting of manuscript, and final approval of the version to be published.

Contributions by Dr. Manne: Conception and design, acquisition of data, data analysis and interpretation, initial drafting of manuscript, and final approval of the version to be published.

This manuscript was selected for AACR Highlights, and a press release was issued. Several news agencies, including the Birmingham News (Thursday, April 2, 2009) carried the story. The NCI Cancer Bulletin also covered the publication.


Contributions by Dr. Bumpers: Acquisition of data, data analysis and interpretation, initial drafting of manuscript, and final approval of the version to be published.

Contributions by Dr. Manne: Conception and design, acquisition of data, data analysis and interpretation, initial drafting of manuscript, and final approval of the version to be published.


Contributions by Dr. Bumpers: Acquisition of data, data analysis and interpretation, initial drafting of manuscript, and final approval of the version to be published.

Contributions by Dr. Manne: Provided training in molecular techniques that were utilized in this study.


Contributions by Dr. Bumpers: Provided a draft outline and input, from a surgeon’s perspective, to several sections.

Contributions by Dr. Manne: Developed the concept, provided a draft outline, and wrote much of the text.


Contributions by Dr. Bumpers: See above.

Contributions by Dr. Manne: See above.


Contributions by Dr. Bumpers: See above.

Contributions by Dr. Manne: See above.

Contributions by Dr. Bumpers: See above.
Contributions by Dr. Manne: See above.


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Contributions by Dr. Manne: See above.


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Contributions by Dr. Manne: See above.


Contributions by Dr. Bumpers: See above.
Contributions by Dr. Manne: See above.


Contributions by Dr. Bumpers: See above.
Contributions by Dr. Manne: See above.

Presentations:


7. Bumpers, H. L. Presentation at the NCI translational meeting, November 5-7, 2009


http://www.cancermeetings.org/CHDProgramMeetings2011/viewAbstract.cfm?id=137


**Grant applications:**


2. **Manne, U.** (PI); **Bumpers, H.** (co-PI) R01 – Prognostic Molecular Markers of Colorectal Cancer. **Not funded.**

3. **Manne, U.** (PI); **Bumpers, H.** (co-PI) U01 – Establishment of a clinical validation center (CVC) for the Early Detection Research Network (EDRN) at UAB. **Not funded.**

4. **Manne, U.** (PI); **Bumpers, H.** (co-PI) R01 - Aggressive polymorphisms of colorectal cancer in African-African patients. **Not funded.**

5. **Manne, U.** (PI); **Bumpers, H.** (co-PI) RC4 – High-throughput technologies to predict disparities in colon cancer outcomes. **Not funded.**

6. **Manne, U.** (PI); **Bumpers, H.** (co-PI) U01 – Mechanistic studies of polymorphisms of colorectal cancer: Ethnic disparities. **Not funded.**

7. **Manne, U.** (PI); **Bumpers, H.** (co-PI) R01 – Validation of molecular markers of early colorectal neoplasias. **Not funded.**


9. **Bumpers, H.** (PI); **Manne, U.** (co-PI). R21 – Effects of NefM1 apoptotic peptide on primary and metastatic colorectal cancer xenografts. **Funded.**

**Honors:**

1. **Dr. Bumpers** was selected for membership on the AACR Disparities Conference Program Committee for 2011.

2. **Dr. Bumpers** was invited to serve on the program committee to prepare the agenda for the national meeting of the *Minority Institution Cancer Center Partnerships* (MI/CCP) to reduce Cancer Health Disparities (CPRCHD). Washington, DC, July 2011.

**Career development:** In process.

**V. Ganapathy A. Bhat (MSM)/William Grizzle (UAB) – Role of Erg in Prostate Cancer (Funding period: 9/1/07-8/31/10)**

1. Maniccia, A.; Lewis, C.; Begum, N; Xu, J.; Cui, J.; Chipitsyna, G.; Aysola, K.; Reddy, V.; **Bhat, G.;** Fujimura,
Contributions by Dr. Bhat: In addition to carrying out experiments in studying the role of ELK-1 in breast cancer, he also mentored two of the postdoctoral fellows on this project.

Contributions by Dr. Reddy: Dr. Reddy mentored the postdoctoral fellows involved in this project regarding the growth inhibitory functions of the BRCA1, BRCA1a, and BRCA1b proteins.

Contributions by Dr. Bhat: Mentored a postdoctoral fellow in studying the effect VPA on prostate cancer cells.

Contributions by Dr. Matthews: Mentored a postdoctoral fellow regarding use of appropriate clinical drugs on ERG-positive prostate cancer cells.

Contributions by Dr. Grizzle: As an expert in prostate cancer, he mentored Dr. Reddy, Dr. Bhat, and others with his advice on maintaining prostate cancer cells and on immunohistochemical techniques. Dr Bhat spent some time in Dr. Grizzle’s laboratory learning these techniques.

Contributions by Dr. Reddy: Mentored Dr. Bhat, Dr. Fortson, and others in designing and executing the experiments.

Presentations:


Grant applications:

Career development: Participation as an investigator on the U54 Partnership grant allowed me gain experience in writing manuscripts and grant proposals. I also learned about health disparities research, statistics, and IRB issues. I was able to attend various scientific meetings and to make numerous presentations. I also took courses to extend my experience with techniques in molecular biology. I feel that I am now qualified to function as an independent investigator.

VI. Maria Pisu (UAB)/Robert Levine (MSM/Meharry) – Geographic Variation in Racial Disparities and Availability of Medical Resources (Funding period: 9/1/07-8/31/10)

Publications:

Contributions by Dr. Pisu: Dr. Pisu worked with Dr. Levine to design the study, formulate hypotheses, and develop an analytic plan. She obtained the data, conducted the analysis, and drafted the manuscript. She then made necessary changes suggested by Dr. Levine and other co-authors, and submitted the manuscript.

Contributions by Dr. Levine: Dr Levine designed the study with Dr. Pisu and guided her in obtaining the data. He edited the paper and offered suggestions for improvement. He suggested journals for submission.


Contributions by Dr. Pisu: Dr. Pisu designed the study, the survey collection form, and the target respondents with Dr. Levine. She guided Ms. Austin in collecting the data and drafting the manuscript. She then edited the manuscript and suggested improvements to make it ready for publication.

Contributions by Dr. Levine: Dr. Levine worked with Dr. Pisu in conducting the survey, revised the manuscript for important related content, and suggested improvements.

Contributions by Dr. Pisu: Dr. Pisu worked with Dr. Levine in planning the data analysis and interpreting results. She then edited the draft of the manuscript and made suggestions for improvements.

Contributions by Dr. Levine: Dr. Levine planned the study, conducted the analyses, and drafted the manuscript. He submitted it for publication.


Contributions by Dr. Pisu: See above.
Contributions by Dr. Levine: See above.

Presentations:

Grant applications:

Career Development: Dr. Pisu has (a) expanded her skills in statistics and survey methodology; (b) developed a better understanding of minority health issues; (c) become an independent researcher. She has three grants on which she is the PI and seven publications. She has also made several presentations. She is currently developing an area of research involving the economic burden of disease for cancer survivors and diabetes patients.

VII. Elizabeth Brown (UAB)/Shyam Reddy (MSM) – Genetic Susceptibility of Multiple Myeloma in a High-Risk African American Population (Funding period: 9/1/07-8/31/10)

Publication:

Presentations:


Grant applications:


Career development: Dr. Brown’s primary goal was to understand the interactions between genetic and environmental factors in the susceptibility and rate of progression and severity of multiple myeloma (MM). Her activities have continued to be focused on (a) expanding the multi-center study, Molecular And Genetic Epidemiology (iIMAGE), through the recruitment and follow up of participants; (b) working in collaboration with the International Multiple Myeloma Consortium (IMMC), the Mayo Clinic, and the University of Southern California to facilitate discovery of genes pertinent to MM; and (c) exploring factors relevant to MM and MM-related outcomes. Although the U54 no longer supports the recruitment of new cases and comparison subjects, participants are being recruited through other mechanisms. Funding through the U54 provided a basis for synergy with the IMMC, for increased scientific productivity, and for additional initiatives and opportunities for funding.

IX. Clayton Yates (TU)/Danny Welch (UAB) – Influence of Tumor Microenvironment of Breast Cancer Metastasis (Funding period: 9/1/09-8/31/11)

Publication:


Contributions by Dr. Yates: All work performed in vitro, including generation of stable KISS1 cell lines, proliferation, invasion, and attachment assays was accomplished by Dr. Yates. He also compiled the clinical data for the statistician. Statistics were performed by collaboration with Dr. He at Tuskegee. The manuscript was written at Tuskegee, and sent for comments to Dr. Welch and Dr. Grizzle.

Contributions by Dr. Welch: Dr. Welch provided the over-expression of full-length KISS1 construct and the KFMΔSS construct, which lacks the KISS1 secretion signal sequence. Dr. Welch further edited the original proposal, and provided suggestions during writing the manuscript.

Contributions by Dr. Grizzle: Jackie Jones, a graduate student in Dr. Yates’ laboratory, was trained in Dr. Grizzle’s laboratory at UAB. Prostate tissue was provided by Dr. Grizzle. Furthermore, analyses were performed by Dr. Grizzle and Jackie Jones during multiple training sessions.

Presentations:

1. Phillips, Z.; Wu, Q.; Wells, A.; Yates, C. Determining the regulatory function of Kaiso on cell migration as an indicator of metastasis in prostate cancer. Annual Biomedical Research Conference for Minority Students (ABRCMS), November 4-7, 2009, Phoenix, AZ.


21, 2011, to the Scientific Review Committee of the MSM/TU/UAB.


Honor:
In 2011, Dr. Yates was selected as Guest Editor for a special edition of Prostate Cancer entitled, “Epigenetics and Hormonally Regulated Prostate Cancer.”

Grant applications:
2. Dr. Yates was selected in May, 2011, as PI for a two-year project in the Cancer Development Program of the UAB Pancreatic Spore. Title: Kaiso expression and function in pancreatic cancer. Funded.

Career Development: In process.

X. Xuebiao Yao (MSM)/Andra Frost (UAB) – Molecular Delineation of ACAP4 Signaling Cascade Underlying CCL18-Induced Breast Cancer Metastasis (Funding period: 9/1/10-8/31/11)

Publications:

Contributions by Dr. Yao: Dr. Yao designed the study and the specific experiments and wrote the first draft of the manuscript.
Contributions by Dr. Frost and Dr. Partridge: Drs. Frost and Partridge made appropriate comments on the manuscript and on the revision.


Contributions by Dr. Yao: Dr. Yao designed the study and the specific experiments and wrote the first draft of the manuscript.
Contributions by Dr. Frost: Dr. Frost made appropriate comments on the manuscript and on the revision.

Presentations:

Grant application:

Career development: The U54 partnership has been a great resource to my research on cancer cell biology. It provided an effective network to accelerate our translational studies by accessing tissue bank materials. The members of the partnership, Drs. Don Hill, Edward Partridge, Andra Frost, and Upender Manne, provided extensive support to my R01 application. Dr. Hill routinely provided scientific and editing help on manuscripts.

XI. Kamel Khazal (TU)/Clinton Grubbs (UAB) – Chemopreventive Activity of Withania somnifera and its Mechanism of Action in Human Cells (Funding period: 9/1/10-8/31/11)

Presentations:

Grant applications:

Career development: In process.