AD

GRANT NUMBER:  DAMD17-94-J-4437

TITLE:  Cancer Prevention and Control Research Manpower Development

PRINCIPAL INVESTIGATOR:  Dr. Louis J. Bernard

CONTRACTING ORGANIZATION:  Drew University of Medical Science
Los Angeles, California  90059

REPORT DATE:  October 1995

TYPE OF REPORT:  Annual

PREPARED FOR:  U.S. Army Medical Research and Materiel Command
Fort Detrick, Maryland  21702-5012

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Cancer Prevention and Control Research Manpower Development

Dr. Louis J. Bernard

Drew University of Medical Science
Los Angeles, California 90059

U.S. Army Medical Research and Materiel Command
Fort Detrick, Maryland 21702-5012

Approved for public release; distribution unlimited

The principal aim of this study in year one was to recruit two recent doctoral graduates for fellowships in breast cancer prevention and control research. Kangmin Zhu, M.D., Ph.D., epidemiology, and Sherry R. Crump, M.D., MPH, preventive medicine, were recruited. Dr. Zhu has worked at Meharry Medical College with Dr. Robert Levine as his mentor, while Dr. Crump has worked at the Morehouse School of Medicine with Dr. Beverly Taylor as her mentor. C.V.'s of the fellows and their mentors are included in the appendix.

Both fellows have made excellent progress in year one. Dr. Zhu has submitted two applications to the U.S. Army for funding; 1) "An Intervention Study on Screening for Breast Cancer Among Single African-American Women Aged 65 and Older" and 2) "Breast Cancer and Risk Factors among African-American Women aged 20-54; A Case Control Study According to Estrogen Receptor Status." Dr. Crump has developed a research project "Barriers to Screening Mammography Utilization for African-American Women at Grady Memorial Hospital." Funding from the Morehouse Medical Treatment Effectiveness Center has allowed recruitment of personnel for this project to begin.

Breast cancer screening; Risk factors; Mammography utilization; Barriers to screening; Breast cancer

Unclassified

Unclassified

Unclassified

Unclassified

25

Unlimited
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- **G** - Grant
- **P** - Program
- **E** - Element
- **T** - Task
- **WU** - Work Unit
- **A** - Accession No.

**Block 6. Author(s).** Name(s) of person(s) responsible for writing the report, performing the research, or credited with the content of the report. If editor or compiler, this should follow the name(s).

**Block 7. Performing Organization Name(s) and Address(es).** Self-explanatory.

**Block 8. Performing Organization Report Number.** Enter the unique alphanumeric report number(s) assigned by the organization performing the report.

**Block 9. Sponsoring/Monitoring Agency Name(s) and Address(es).** Self-explanatory.

**Block 10. Sponsoring/Monitoring Agency Report Number. (If known)**

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- **DOE** - See authorities.
- **NTIS** - Leave blank.

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- **DOE** - Enter DOE distribution categories from the Standard Distribution for Unclassified Scientific and Technical Reports.
- **NASA** - Leave blank.
- **NTIS** - Leave blank.

**Block 13. Abstract.** Include a brief (Maximum 200 words) factual summary of the most significant information contained in the report.

**Block 14. Subject Terms.** Keywords or phrases identifying major subjects in the report.

**Block 15. Number of Pages.** Enter the total number of pages.

**Block 16. Price Code.** Enter appropriate price code (NTIS only).


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FOREWORD

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Where copyrighted material is quoted, permission has been obtained to use such material.

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In conducting research using animals, the investigator(s) adhered to the "Guide for the Care and Use of Laboratory Animals," prepared by the Committee on Care and Use of Laboratory Animals of the Institute of Laboratory Resources, National Research Council (NIH Publication No. 85-23, Revised 1985).

For the protection of human subjects, the investigator(s) adhered to policies of applicable Federal Law 45 CFR 46.

In conducting research utilizing recombinant DNA technology, the investigator(s) adhered to current guidelines promulgated by the National Institutes of Health.

In the conduct of research utilizing recombinant DNA, the investigator(s) adhered to the NIH Guidelines for Research Involving Recombinant DNA Molecules.

In the conduct of research involving hazardous organisms, the investigator(s) adhered to the CDC-NIH Guide for Biosafety in Microbiological and Biomedical Laboratories.

[Signature] 10/9/95

Date
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<td>7-25</td>
</tr>
</tbody>
</table>
**Introduction:**

Breast cancer is exceeded only by lung cancer as a cause of cancer deaths among women in the U.S. While the incidence of breast cancer is a bit lower among black women than among caucasians, mortality is higher. While special efforts to recruit minorities to research careers have been made by the National Institute of Health in recent years, including the Minority Investigator Supplement Program, Minority Health Professional Training Initiative, Minority Recruitment Network Office, etc., success of these efforts has been limited, and the pool of minority investigators remains small. This is particularly true of cancer prevention and control researchers. This project addresses expanding the pool of minority cancer prevention and control researchers with regard to breast cancer.

**Body:**

The hypothesis to be tested in this study is that with "protected time" and appropriate mentors recent doctoral graduates in social science and public health disciplines can achieve independent extramural funding for cancer prevention and control research within three years. The specific aim in year one of the grant was to recruit two recent post-doctoral fellows who would be provided with faculty mentors drawn from the rolls of the Drew, Meharry, Morehouse Consortium Cancer Center (DMMCCC). Specific criteria were developed for selection of the fellows and broad milestones of progress toward independent status identified.

In year one of this grant two post-doctoral fellows were recruited, Dr. Kangmin Zhu, epidemiology, and Dr. Sherry R. Crump, preventive medicine. Dr. Robert Levine at Meharry Medical College has served as mentor for Dr. Zhu while Dr. Beverly Taylor at Morehouse School of Medicine has mentored Dr. Crump. CV's of the fellows and their mentors are included in the appendix of this report.

Both fellows have made excellent progress in year one. Dr. Zhu has submitted two applications to the U.S. Army for funding; 1) "An Intervention Study on Screening for Breast Cancer Among Single African-American Women Aged 65 and Older" and 2) "Breast Cancer and Risk Factors among African-American Women aged 20-54: A Case Control Study According to Estrogen Receptor Status." Dr. Crump has developed a research project "Barriers to Screening Mammography Utilization for African-American Women at Grady Memorial Hospital." Funding from the Morehouse Medical Treatment Effectiveness Center has allowed recruitment of personnel for this project to begin.

In addition to the above Dr. Zhu has submitted a paper for publication, a review article on the relation of estrogen receptors to prognosis in breast cancer. Dr. Crump has been participating in the Morehouse School of Medicine Breast Health Education Study, and is currently assisting in the revision of the questionnaire for this community-based educational program for underserved African-American women. The prospect for a successful outcome for our initial two fellows, i.e., independent funding by the end of year three, is bright. Both Dr. Zhu and Dr. Crump are continuing into the second year of fellowship.

Recruitment of good candidates for the fellowship has been difficult. Three applicants
have been rejected for year two of the grant. Two persons who seem to be excellent candidates have been accepted thus far, one a biologist with a laboratory background who would like to move into prevention and control research, and the other a very experienced behaviorist who will receive her Ph.D. in December, 1995. Both these persons, M. George-Taylor, Ph.D. and Vanessa Parker, M.S., MPH and Ph.D. candidate, would like to enter into the fellowship program as of December 1, 1995. Dr. George-Taylor will be mentored by Dr. John Browne, a cell biologist at Clark Atlanta University, and Dr. Linda Pederson, an epidemiologist at the Morehouse School of Medicine. Both Clark Atlanta University and the Morehouse School of Medicine are part of the Atlanta University Complex, and are part of a multi institutional campus. Ms. Parker will be mentored by Dr. Patricia Matthews-Juarez and Dr. Samuel Shacks at Drew University. Dr. Shacks’s C.V. has been submitted previously. The C.V.’s of the two candidates and the other mentors are included in the appendix of this report.

A third candidate, Edward H. Bradford, Jr., D.D.S., MPH is under review with a final decision to be made within 30 days. A copy of his C.V. is also enclosed as well as a C.V. of a potential mentor, Dr. M. Hargreaves. At this time we do not have a suitable candidate for the 4th fellowship position planned to be entered on in this year two. We respectfully request that we be allowed to carry over funds for a time while recruitment for the final position continues.

Conclusions:

Year one of this grant has been highly successful. Two post doctoral fellows were recruited who have had a productive year and look forward to a continuation of success in year two. Protected time for young investigators with appropriate mentoring seem to be producing desired results: development of new independent investigators in cancer prevention and control research.

Recruitment of appropriate candidates in keeping with the plan of work for this project has been difficult. As year two gets underway, when four new fellows were planned for, only two are currently in hand and a third being evaluated for recruitment. It is respectfully requested that we be allowed an opportunity to fill all the positions, even if in one instance it may mean well less than three years of mentoring for the post-doctoral fellow. We are optimistic that all positions will be filled in the next few months.
BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed on Form Page 2. Photocopy this page or follow this format for each person.

NAME
Edward H. Bradford, Jr.

POSITION TITLE

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
</tr>
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<tbody>
<tr>
<td>Tuskegee (Institute) University, Tuskegee Institute, AL</td>
<td>B.S.</td>
<td>1979</td>
<td>Biology</td>
</tr>
<tr>
<td>Howard University, Washington, D.C.</td>
<td>D.D.S.</td>
<td>1983</td>
<td>Dental Surgery</td>
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<td>The Univ. of Alabama at Birmingham, Birmingham, AL</td>
<td>M.P.H.</td>
<td>1992</td>
<td>Public Health</td>
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<tr>
<td>The Univ. of Alabama at Birmingham, Birmingham, AL</td>
<td>Residency Certificate</td>
<td>1993</td>
<td>Dental Public Health</td>
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<tr>
<td>The Univ. of Alabama at Birmingham, Birmingham, AL</td>
<td>Post-Doctoral Fellow</td>
<td>Present</td>
<td>Cancer Prevention &amp; Control Training</td>
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</tbody>
</table>

RESEARCH AND PROFESSIONAL EXPERIENCE: Concluding with present position, list, in chronological order, previous employment, experience, and honors. Include present membership on any Federal Government Public Advisory Committee. List, in chronological order, the titles, all authors, and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. If the list of publications in the last three years exceeds two pages, select the most pertinent publications. DO NOT EXCEED TWO PAGES.

PROFESSIONAL EXPERIENCE:

1989 - 1990  Independent Practitioner under contract with Group Health Association, Silver Spring, MD
1984 - 1988  Staff Dental Officer, U.S. Penitentiary, Lewisburg, PA (USPHS)

HONORS AND MEMBERSHIPS:

Fellowship for Nutrition and Oral Biology, University of Alabama Birmingham, 1990-93
Hazardous Duty Ribbon, U.S.P.H.S., 1987
American Student Dental Association Representative, Howard University, 1981-83
Student Member on Admissions Committee, Howard University, College of Dentistry, 1982-83
American Fund for Dental Health Award, Howard University, 1979
National Health Service Corps Scholarship, Howard University, 1979-83
Cum Laude Graduate, Tuskegee University 1979, and University of Alabama Birmingham, 1992
Beta Kappa Chi Scientific Honor Society, Tuskegee University, 1978-79
Who's Who Among Students in American Colleges and Universities, 1979
Usher for President Ford and Vice President Mondale visits to tuskegee, 1978 & 1979
Varsity Tennis Captain, Tuskegee University, 1978-79

American Dental Association
National Dental Association
American Association of Public Health Dentistry
American Public Health Association
Geriatric Education Center Summer Intensive Program, UAB, Birmingham, AL 1991.

SELECTED PUBLICATION:

### BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed on Form Page 2. Photocopy this page or follow this format for each person.

<table>
<thead>
<tr>
<th>NAME</th>
<th>POSITION TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sherry R. Crump, MD, MPH</td>
<td>Research Fellow</td>
</tr>
</tbody>
</table>

| EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.) |  |
|---|---|---|
| INSTITUTION AND LOCATION | DEGREE (if applicable) | YEAR(s) | FIELD OF STUDY |
| University of Virginia, Charlottesville, VA | B.A. | 1981-85 | Biology |
| University of Virginia, Charlottesville, VA | M.D. | 1985-91 | Medicine |
| Carolina's Medical Center, Charlotte, NC |  | 1991-92 | Internship-Pediatrics |
| Morehouse School of Medicine, Atlanta, GA |  | 1992-94 | Residency-Prev. Med. |
| Rollins School of Public Health, Emory, Atlanta | MPH | 1992-95 | Public Health |

RESEARCH AND PROFESSIONAL EXPERIENCE: Concluding with present position, list, in chronological order, previous employment, experience, and honors. Include present membership on any Federal Government public advisory committee. List, in chronological order, the titles, all authors, and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. If the list of publications in the last three years exceeds two pages, select the most pertinent publications. DO NOT EXCEED TWO PAGES.

### PROFESSIONAL EXPERIENCE:

1987-1988  Project Bayon-Volunteered in a hospital for indigent inhabitants of Honduras, Central America
1992-1993  Atlanta Public School for the Special Olympics Program - Volunteer Physician
1992-1994  Georgia Nurses' Foundation Health Care for the Homeless Program - Volunteer Program
1992-Present  Fulton County Health Department Teen Service Program - Staff Physician
1994-Present  Drew/Meharry/Morehouse Consortium Cancer Center - Breast Cancer Prevention and Control Research Fellowship

### HONORS AND MEMBERSHIPS:

Summer '92  Treatment and Follow-up Compliance of Atlanta Soviet Refugees - Georgia Department of Human Resources, Office of Rural Health
Spring '93  Emory Undergraduate Student Sexual Behavior Survey - Rollins School of Public Health Emory University
Fall '93  Domestic Violence Survey - Georgia Department of Human Resources, Division of Public Health, Epidemiology Branch
Spring '94  Gonorrhea Trends - Richardson Health Center, STD Clinic, 1990-1993, Dekalb County Board of Health, Georgia

### SELECTED PUBLICATION:

Crump, S.R. Promotion of Health Eating Habits in Children (letter to the editor) J Pediatric 1995; 126;850-851
BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed on Form Page 2. Photocopy this page or follow this format for each person.

NAME
Margaret Kirkcaldy Hargreaves

POSITION TITLE
Assistant Professor

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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<tr>
<td>MacDonald College (McGill U), Quebec</td>
<td>B.Sc (H.Ec)</td>
<td>1959</td>
<td>Nutr. &amp; Dietetics</td>
</tr>
<tr>
<td>Royal Victoria Hosp., Montreal, Quebec</td>
<td>P.Dt.</td>
<td>1960</td>
<td>Dietetics</td>
</tr>
<tr>
<td>Univ. of California, Berkeley, CA</td>
<td>M.S.</td>
<td>1963</td>
<td>Commun. Nutrit.</td>
</tr>
<tr>
<td>Univ. of Toronto, Toronto, Ontario</td>
<td>Ph.D.</td>
<td>1970</td>
<td>Nutrition</td>
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<tr>
<td>Concordia Univ., Montreal, Quebec</td>
<td></td>
<td>1977</td>
<td>Admin. Courses</td>
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RESEARCH AND PROFESSIONAL EXPERIENCE: Concluding with present position, list, in chronological order, previous employment, experience, and honors. Include present membership on any Federal Government public advisory committee. List, in chronological order, the titles, all authors, and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. If the list of publications in the last three years exceeds two pages, select the most pertinent publications. DO NOT EXCEED TWO PAGES.

PROFESSIONAL EXPERIENCE:

1990 - Present Assistant Professor, Department of Medicine, Meharry Medical College
1990 - 91 Director, Research Development, Institute on Health Care for the Poor and Underserved, Meharry Medical College
1989 - 90 Director, Diet and Nutrition Development Program, Cancer Consortium, Meharry Medical College
1986 - 88 Planning Director and Nutrition Investigator, Cancer Control Research Unit, Meharry Medical College.
1983 - 89 Director, Clinical Nutrition Program, Meharry Medical College, Nashville, Tennessee
1982 - 90 Assistant Professor, Department of Medicine/Surgery, Meharry Medical College, Nashville, Tennessee
1981 - 86 Program Development Specialist, Office of the Academic Vice President & Adjunct Principal Investigator, CARP, Tennessee State University;
1975 - 77 Assistant Professor, Nutrition, Department of Dietetics, University of Ottawa, Ottawa, Ontario.
1972 - 75 Assistant Professor, Nutrition/Dietetics, Department of Home Economics, Mount Saint Vincent University, Halifax, Nova Scotia.
1970 - 72 Chief, Dietetic Internship Program, Dept. of Dietetics, Montreal General Hospital, Montreal.
1964 - 65 Research Assistant, Research Institute, Toronto Sick Children's Hospital, Toronto, Ontario.
1960 - 62 Dietitian-Nutritionist, Department of Dietetics, Royal Victoria Hospital, Montreal.

HONORS AND MEMBERSHIPS:

MacDonald College Bursary, 1957 - 59
Teaching Assistantship, University of California, Berkeley, 1962 - 63
University of Toronto Fellowships, 1965 - 67
National Research Council Scholarship, 1967 - 68
Medical Research Council Studentships, 1968 - 70
SELECTED PUBLICATIONS:

11. Talk to Nashville Nutrition Committee (February 18, 1981) on "Systems and processes for nutrition diagnosis and application in dietetic practice".
BIOGRAPHICAL SKETCH

Give the following information for the key personnel and consultants and collaborators. Begin with the principal investigator/program director. Photocopy this page for each person.

NAME

Robert S. Levine

POSITION TITLE

Co-Investigator

EDUCATION (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
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<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR CONFERRED</th>
<th>FIELD OF STUDY</th>
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</thead>
<tbody>
<tr>
<td>Bowman Gray, Winston-Salem, NC</td>
<td>M.D.</td>
<td>1968</td>
<td>Medicine</td>
</tr>
<tr>
<td>Bowman Gray, Winston-Salem, NC</td>
<td>Intern</td>
<td>1969</td>
<td>Pediatrics</td>
</tr>
<tr>
<td>University of Kentucky, Lexington, KY</td>
<td>Resident</td>
<td>1972</td>
<td>Preventive Medicine</td>
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</table>

RESEARCH AND PROFESSIONAL EXPERIENCE: Concluding with present position, list, in chronological order, previous employment, experience, and honors. Key personnel include the principal investigator and any other individuals who participate in the scientific development or execution of the project. Key personnel typically will include all individuals with doctoral or other professional degrees, but in some projects will include individuals at the masters or baccalaureate level provided they contribute in a substantive way to the scientific development or execution of the project. Include present membership on any Federal Government public advisory committees. List, in chronological order, the titles, all authors, and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. DO NOT EXCEED TWO PAGES.

Employment:

1972-74

Preventive Medicine Officer, Fort Hood, TX

1974-76

Physician II, Dade Co. Health Dept., Miami, FL

1976-86

Asst.-Associate Professor and Vice Chairman, Dept. of Epidemiology and Public Health, University of Miami, School of Medicine, Miami, FL

1986-88

Director of Epidemiology and Biostatistics, Nassau Co. Dept. of Health, Mineola, NY

1988-91

Director of Community Preventive Medicine, Our Lady of Mercy Medical Center, Bronx, NY

1991

Associate Medical Director, Quality Assurance, Kings Co. Hospital Center, Brooklyn, NY

1992-Present

Professor, Department of Family and Preventive Medicine, Meharry Medical College, Nashville, TN

1993-Present

Principal Investigator, MEDEP Research Center, Associate Director for Research, Institute on Health Care for the Poor and Underserved, Chair, Editorial Board of Journal of Health Care for the Poor and Underserved, Meharry, Medical College, Interim Chair, Department of Family and Preventive Medicine, Meharry Medical College, Nashville, TN

Honors and Awards:

1972

Army Commendation Medal

1975

Fellow, American College of Preventive Medicine

1988

Member, American College of Epidemiology

Publications: (1990-Present)


Biographical Sketch: Robert S. Levine, M.D. (Page 2)


Abstracts and Presentations (*Presented): 1990 to Present


BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed on Form Page 2. Photocopy this page or follow this format for each person.

NAME
Mosunnola Alaba George-Taylor

POSITION TITLE
Assistant Professor

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
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<th>DEGREE (if applicable)</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Lagos, Akoka, Lagos, Nigeria</td>
<td>B.S.</td>
<td>1975</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Atlanta University, Atlanta, GA</td>
<td>M.S.</td>
<td>1982</td>
<td>Physical Chemistry</td>
</tr>
<tr>
<td>Georgia Institute of Technology, Atlanta, GA</td>
<td>M.S.</td>
<td>1987</td>
<td>Atmospheric Chemistry</td>
</tr>
</tbody>
</table>

RESEARCH AND PROFESSIONAL EXPERIENCE: Concluding with present position, list, in chronological order, previous employment, experience, and honors. Include present membership on any Federal Government public advisory committee. List, in chronological order, the titles, all authors, and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. If the list of publications in the last three years exceeds two pages, select the most pertinent publications. DO NOT EXCEED TWO PAGES.

PROFESSIONAL EXPERIENCE:

1990-Present  | Assistant Professor, Chemistry Department, Clark Atlanta University, Atlanta, GA
1991-1994     | Research Technician, Department of Biological Sciences, Clark Atlanta University, Atlanta, GA
1993-1994     | Teaching Assistant, Clark Atlanta University, Atlanta, GA
1991-1994     | Biology and Chemistry Instructor, Clark Atlanta University summer programs
1992-1993     | Chemistry Lab Instructor, Spelman College, Atlanta, GA
1991-1992     | Science Instructor, Clark Atlanta University Weekend Programs Saturday Science Academy
1992          | Instructor of Hands on Laboratory Procedures in Physical Science
               | Kindergarten through K8 Teachers in Atlanta Public School System.
1988-1990     | Research Assistant, Dolphus E. Milligan Science Research Institute, Clark Atlanta University, Atlanta, GA
1989          | Laboratory Instructor, Chemistry Department, Clark Atlanta University, Atlanta, GA
1982-1988     | Research Assistant, School of Geophysical Sciences, Georgia Institute of Technology, Atlanta, GA
1980-1982     | Research Assistant, Chemistry Department, Atlanta University, Atlanta, GA
1977-1980     | Chemistry Teacher, Ikeja Grammar School, Oshodi, Lagos State, Nigeria
1975-1976     | Chemistry Teacher, Lagos City College, Yaba, Lagos State, Nigeria
1972          | Laboratory Technician, Lagos University Teaching Hospital, Idi-Araba, Lagos State, Nigeria

HONORS AND MEMBERSHIPS:

Member of the American Society of Cell Biology (ASCB).
Member of the Federation of American Society of Experimental Biology (FASEB)
PROFESSIONAL CONFERENCES AND ACTIVITIES:

American Society of Cell Biologists Conference, San Francisco, California, 1994
American Society of Cell Biologists Conference, New Orleans, Louisiana, 1993
American Society of Cell Biologists Conference, Denver, Colorado, 1992
American Society of Cell Biologists Conference, Boston, Massachusetts, 1991
American Society of Cell Biologists Conference, San Diego, California, 1990
National MBRS (Minority Biomedical Research Symposia) Conference Atlanta, Georgia, 1993
National MBRS Conference, Nashville, Tennessee, 1990
American Chemical Society 18th Regional Meeting, Bowling Green, Ohio, 1986

Successfully completed a short course on "Remote Sensing of the Earth and Atmosphere", conducted by the Department of Continuing Education, Georgia Institute of Technology, Atlanta, GA May 13-14, 1985

Successfully completed a short course on the "Introduction of the Problems of Acid Rain", conducted by the Department of Continuing Education, Georgia Institute of Technology, Atlanta, Ga November 7-10, 1984

SELECTED PUBLICATION:

BIOGRAPHICAL SKETCH

Give the following information for the key personnel and consultants and collaborators. Begin with the principal investigator/program director. Photocopy this page for each person.

NAME
PATRICIA MATTHEWS-JUAREZ, Ph.D.

POSITION TITLE
ADMINISTRATOR

EDUCATION (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

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<tr>
<td>Fisk University, Nashville, Tn.</td>
<td>BA</td>
<td>1965-69</td>
<td>Psychology</td>
</tr>
<tr>
<td>N.Y. University, N.Y., N.Y.</td>
<td>MSW</td>
<td>1969-71</td>
<td>Community Org.</td>
</tr>
<tr>
<td>Brandeis University, Waltham, MA</td>
<td></td>
<td>1979-82</td>
<td>Social Policy</td>
</tr>
</tbody>
</table>

RESEARCH AND PROFESSIONAL EXPERIENCE: Concluding with present position, list, in chronological order, previous employment, experience, and honors. Key personnel include the principal investigator and any other individuals who participate in the scientific development or execution of the project. Key personnel typically will include all individuals with doctoral or other professional degrees, but in some projects will include individuals at the masters or baccalaureate level provided they contribute in a substantive way to the scientific development or execution of the project. Include present membership on any Federal Government public advisory committee. List, in chronological order, the titles, all authors, and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. DO NOT EXCEED TWO PAGES.

RESEARCH AND PROFESSIONAL EXPERIENCE

1976-1977  Director, Social Welfare Policy Program
           Department of Sociology
           Hampton University, Hampton, Virginia

1977-1979  Assistant Professor, Graduate School of Social Work
           Norfolk State University, Norfolk, Virginia

1981-1983  Director of Black Outreach Services
           Worcester Youth Guidance Center, Worcester, Massachusetts

1983-1984  Director of Outpatient and Inpatient Services
           Central City Community Mental Health Center
           Los Angeles, California

1984-1988  Associate Director for Administration, Department of Family Medicine
           Charles R. Drew University of Medicine & Science
           Los Angeles, California

1985-Present  Assistant Professor
              Department of Family Medicine
              Charles R. Drew University of Medicine & Science
              Los Angeles California

1988-Present  Administrator, Drew Mearry Morehouse Consortium
              Cancer Center
              Charles R. Drew University of Medicine & Science
COMMITTEES:

1985-Present  Member, University Faculty Council
1989-Present  Federal Reviewer, Division of Medicine, HRSA
1989-Present  Federal Reviewer, Federal Office of Minority Health
1990-1991    Federal Reviewer, Federal Office of Rural Health Policy
1990- Present Co Chair, Board of Visitors, Federal Office of Rural Health
1990-1992    Planning Committee, Biannual Symposium of Cancer in Minority Population, M.D. Anderson Cancer Center, Dr. Lovell Jones, Organizer
1991-Present  Member, State Office of Manpower Planning and Development Policy Committee
**BIOGRAPHICAL SKETCH**

Provide the following information for the key personnel in the order listed on Form Page 2. Photocopy this page or follow this format for each person.

<table>
<thead>
<tr>
<th>NAME</th>
<th>POSITION TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vanessa C. Parker</td>
<td>Department of Preventive Medicine</td>
</tr>
</tbody>
</table>

**EDUCATION/TRAINING** (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(S)</th>
<th>FIELD OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of California - San Diego, San Diego, CA</td>
<td>B.S.</td>
<td>1982</td>
<td>Microbiology</td>
</tr>
<tr>
<td>California State University, Dominguez Hills, CA</td>
<td>M.A.</td>
<td>1989</td>
<td>Behavioral Sciences</td>
</tr>
</tbody>
</table>

**RESEARCH AND PROFESSIONAL EXPERIENCE:** Concluding with present position, list, in chronological order, previous employment, experience, and honors. Include present membership on any Federal Government public advisory committee. List, in chronological order, the titles, all authors, and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. If the list of publications in the last three years exceeds two pages, select the most pertinent publications. **DO NOT EXCEED TWO PAGES.**

**PROFESSIONAL EXPERIENCE:**

11/93-Present Graduate Research Assistant, Drug Use and HIV-Risk Sexual Behaviors in Homeless Youth, Childrens Hospital Los Angeles, Division of Adolescent Medicine

07/93-Present Co-Principal Investigator, Adolescent Condom-Use Efficacy Among Urban Minorities, Charles R. Drew University of Medicine and Science

05/93-12/93 Project Manager, Gang Violence Prevention and Suppression Project, High-Risk Youth Project, Childrens Hospital-Division of Adolescent Medicine

06/92-12/93 Graduate Research Assistant, KCET/USC African American Smoking Prevention Project, University of Southern California

06/92-10/93 Sr. Research Associate, Women & HIV/AIDS Research Project, Charles R. Drew University of Medicine and Science

09/91-06/92 Graduate Research Assistant, Day One Community Partnership, University of Southern California

09/90-06/92 Program Manager, Tobacco Control Program, King-Drew Medical Center, Los Angeles, California

12/88-01/91 Staff Research Associate, California Heterosexual Partner Study, University of California, San Francisco

10/88-11/89 Program Manager, People Who Care Youth Center AIDS Education Project, Los Angeles, California

02/88-11/88 Medical Assistant Instructor, Watterson Career College, Los Angeles, California

05/88-09/88 Peer Ethnographic Interviewer, California State University, Long Beach, AIDS Education and Prevention Project, Long Beach, California

08/87-08/88 Minority Aids Educator, Long Beach Health Department, Aids Education and Prevention Project, Long Beach, California

06/86-09/87 Research Assistant, Cancer Research Consortium, Charles R. Drew University of Medicine and Science, Los Angeles, California

HONORS AND MEMBERSHIPS:

Distinguished Young Women of America, 1987
Certificate of Appreciation, County of Los Angeles, Department of Health Services, Sexually Transmitted Disease Program, November 1989
Certificate of Appreciation, Los Angeles Southwest College Women's Center, October 1989
Certificate of Appreciation, County of Los Angeles, Department of Health Services, Sexually Transmitted Disease Program

SELECTED PUBLICATIONS:

5. Parker V., Sussman, S., "Cigarette Smoking Among Family and Friends of Urban African American Youth" (Under Review)
7. Parker, V., Montgomery, S., Kipe, M., O'Guynn, S., "Longitudinal Follow-up of Urban Homeless/Runaway Youth: Methodology" (In Preparation)
8. Parker, V., Ashley, M., Montgomery, S., "Sexual and Condom Use Behaviors Among African American Adolescents Living In An Inner-City Public Housing Development" (In Preparation)
BIOGRAPHICAL SKETCH

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<table>
<thead>
<tr>
<th>NAME</th>
<th>POSITION TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linda Lue Pederson</td>
<td>Professor, Department of Epidemiology &amp; Biostatistics</td>
</tr>
</tbody>
</table>

EDUCATION/TRAINING: (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

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<tr>
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<th>DEGREE (if applicable)</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brown University</td>
<td>B.A.</td>
<td>1964</td>
<td>Psychology</td>
</tr>
<tr>
<td>University of Iowa</td>
<td>M.A.</td>
<td>1966</td>
<td>Child Behavior</td>
</tr>
<tr>
<td>University Western Ontario</td>
<td>Ph.D.</td>
<td>1980</td>
<td>Epidemiology &amp; Biostatistics</td>
</tr>
</tbody>
</table>

RESEARCH AND PROFESSIONAL EXPERIENCE: Concluding with present position, list, in chronological order, previous employment, experience, and honors. Include present membership on any Federal Government public advisory committee. List, in chronological order, the titles, all authors, and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. If the list of publications in the last three years exceeds two pages, select the most pertinent publications. DO NOT EXCEED TWO PAGES.

PROFESSIONAL EXPERIENCE:
1994-Present Clinical Professor, Community Health & Preventive Medicine, Morehouse School of Medicine, Atlanta, GA
1994-1995 Professor, Epidemiology & Biostatistics, University of Western Ontario
1986-1991 Associate Director, Health Care Research Unit, University of Western Ontario
1984-1993 Associate Professor, Medicine, University of Western Ontario
1984-1994 Associate Professor, Epidemiology & Biostatistics, University of Western Ontario
1980-1984 Assistant Professor, Epidemiology & Biostatistics, University of Western Ontario
1980-1984 Assistant Professor, Medicine, University of Western Ontario
1979-1980 Research Associate, Medicine, Victoria Hospital/ University of Western Ontario
Winter 78 Teaching Assistant, Biostatistics II, Epidemiology & Preventive Medicine, University of Western Ontario
Fall 78 Teaching Assistant, Biostatistics I, Epidemiology & Preventive Medicine, University of Western Ontario
1973-1976 Research Assistant, Medicine, University of Western Ontario
Programmer Coordinator, Smoking Withdrawal Program, Victoria Hospital
Research Assistant, London Board of Education
1968-1975 Grader, Introductory Psychology Course, Psychology, Correspondence Division, University of Western Ontario
1968-1973 Consultant, Psychology, University of Western Ontario
1968-1973 Teaching Developmental Psychology, Extension & Summer School, University of Western Ontario
1964-1966 Research Assistant, Institute of Child Behavior & Development, University of Iowa
1963-1964 National Science Foundation Undergraduate Research Fellowship, Psychology, Brown University

HONORS AND MEMBERSHIPS:
Fellow, American College of Epidemiology, 1986
Member, Centre for Activity and Ageing, Lawson Research Institute of the St. Joseph's Health Centre and University of Western Ontario, 1993
Associate Member, Centre for Health Promotion, Banting Institute, University of Toronto, 1993-95
Steering Committee, "Working women's work-related health concerns survey", Industrial Disease Standards Panel, 1993
Board of Directors, Canadian Society for Epidemiology and Biostatistics, 1993
Reviewer, University of Toronto Press, 1992
Member, Advisory Board, Annals on Addiction; Journal published by the Publications Service of the University of Granada (Spain), 1992
Member, Editorial Board, Health Values, 1992
Advisory Board, Outcome Research for Independent Health Facilities, College of Physicians & Surgeons of Ontario, 1992
Advisory Board, Canadian Consensus on Physicians Intervention in Smoking Cessation, 1991
Member, Selection Committee for Chair, Department of Epidemiology & Biostatistics, University of Western Ontario, 1991
Member, Health Care Systems Review Committee, panel A., Ontario Ministry of Health, 1991-93
Coordinator, Department of Epidemiology & Biostatistics Seminar Services, 1990
Member-at-large, national Cancer Institute of Canada, 1990-98
Member, Ontario Health promotion Researchers and Practitioners Network Project Meeting, Ontario Prevention Clearinghouse Advisory Committee, June 4, 1990
Host, Ontario Health Promotion Researchers and Practitioners Workshop, Ontario prevention Clearinghouse, May 3, 1990
Member, Workshop on Health Promotion Research, Ontario Prevention Clearinghouse Advisory Committee, 1990
Member, Editorial Board, Women and health, 1989

SELECTED PUBLICATIONS:
BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed on Form Page 2. Photocopy this page or follow this format for each person.

NAME
Beverly D. Taylor, MD

POSITION TITLE
Associate Professor & Residency Director

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
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<th>YEAR(S)</th>
<th>FIELD OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fisk University, Nashville, TN</td>
<td>B.A.</td>
<td>1972</td>
<td>Biology</td>
</tr>
<tr>
<td>Meharry Medical College, Nashville, TN</td>
<td>M.D.</td>
<td>1976</td>
<td>Medicine</td>
</tr>
</tbody>
</table>

RESEARCH AND PROFESSIONAL EXPERIENCE: Concluding with present position, list, in chronological order, previous employment, experience, and honors. Include present membership on any Federal Government public advisory committee. List, in chronological order, the titles, all authors, and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. If the list of publications in the last three years exceeds two pages, select the most pertinent publications. DO NOT EXCEED TWO PAGES.

PROFESSIONAL EXPERIENCE:

1986  Associate Professor, Clinical Community Health/Preventive Medicine, Department of Community Health/Preventive Medicine, Morehouse School of Medicine, Atlanta, GA.
1986  Director, Public Health/Preventive Medicine Residency Program, Department of CH/PM, Morehouse School of Medicine, Atlanta, GA.
1985  Director Undergraduate Medical Education, Family Medicine Clerkship, Department of CH/FP, Morehouse School of Medicine, Atlanta, GA.
1984-85  Assistant Professor, Department of CH/FP, Morehouse School of Medicine, Atlanta, GA.
1983-84  Part-time association with Med First Centers, Atlanta, GA.
1983-84  Part-time association with Med First Centers, Atlanta, GA.
1981  Assistant Professor - Department of Family Medicine and Community Medicine, Meharry Medical College, Nashville, TN.
1980  Instructor - Joint appointments in Department of Family Medicine and Community Medicine, Meharry Medical College and Tennessee Department of Public Health, Mid-Cumberland Region.
1979-80  Chief Resident, Family Medicine Residency Program, Meharry Medical College.
1976-80  Resident-Family Medicine & Preventive Medicine Residency Program, George Hubbard Hospital, Nashville, TN.
1972-74  Counselor/Teacher - Biology - Upward Bound Program, Fisk University, Nashville, TN.

SELECTED PUBLICATIONS:


9. Blumenthal DS, and Taylor BD. "If I Ran the Zoo", an example of required ambulatory clerkships in the senior year. Presented at the Society of Teachers in Family Medicine, Spring Conference, April 1, 1985, Atlanta, Georgia.

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed on Form Page 2. Photocopy this page or follow this format for each person.

NAME
Kangmin Zhu

POSITION TITLE
Research Assistant

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tongji Medical University, Wuhan, PRC</td>
<td>M.D.</td>
<td>1982</td>
<td></td>
</tr>
<tr>
<td>Tongji Medical University, Wuhan, PRC</td>
<td>M.P.H.</td>
<td>1985</td>
<td>Epidemiology</td>
</tr>
<tr>
<td>University of Washington, Seattle, WA</td>
<td>Ph.D.</td>
<td>Present</td>
<td>Epidemiology</td>
</tr>
</tbody>
</table>

RESEARCH AND PROFESSIONAL EXPERIENCE: Concluding with present position, list, in chronological order, previous employment, experience, and honors. Include present membership on any Federal Government public advisory committee. List, in chronological order, the titles, all authors, and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. If the list of publications in the last three years exceeds two pages, select the most pertinent publications. DO NOT EXCEED TWO PAGES.

PROFESSIONAL EXPERIENCE:

1992 - Present  Research Assistant, Social Development Research Group, University of Washington, Seattle, WA
1990 - 1991  Research Assistant, Children's Hospital and Medical Center, Seattle, WA
1989 - 1990  Research Assistant, Department of Epidemiology, University of Washington, Seattle, WA
1987 - 1988  Assistant Professor, Tongji Medical University, Wuhan, PRC
1985 - 1987  Teaching Assistant, Tongji Medical University, Wuhan, PRC

HONORS AND MEMBERSHIPS:

The third-class award for the studies on hypertension granted by Hubei province Government, PRC, 1988

Chinese Medical Association, PRC, 1986 - 88
Society for Epidemiologic Research, USA, 1993 - present

Outstanding Student, Tongji Medical University, PRC, 1981
Outstanding Student, Tongji Medical University, PRC, 1980
Outstanding Student, Tongji Medical University, PRC, 1979
Outstanding Student, Tongji Medical University, PRC, 1978
SELECTED PUBLICATION: