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Development

PRINCIPAL INVESTIGATOR: Dr. Louis J. Bernard

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

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13. ABSTRACT (Maximum 200 words) <p>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.</p> <p>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.</p>				
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FOREWORD

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

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L. Bernard M.D. 10/9/95

PI - Signature Date

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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 effects 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		POSITION TITLE	
Edward H. Bradford, Jr.			
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
Tuskegee (Institute) University, Tuskegee Institute, AL	B.S.	1979	Biology
Howard University, Washington, D.C.	D.D.S.	1983	Dental Surgery
The Univ. of Alabama at Birmingham, Birmingham, AL	M.P.H.	1992	Public Health
The Univ. of Alabama at Birmingham, Birmingham, AL	Residency Certificate	1993	Dental Public Health
The Univ. of Alabama at Birmingham, Birmingham, AL	Post-Doctoral Fellow	Present	Cancer Prevention & Control Training

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)
 1983 - 1984 Dentist/Office Manager, Dr. Cyril H. Brown's Office, Washington, D.C.
 1984 - 1988 Commissioned Officer in the U.S. Public Health Service detailed to the Federal Bureau of Prisons (Hazardous Duty). Presently Inactive reserves at the Lieutenant Commander Rank.

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

Participated in the Oral Health Conference of the American Association of State and Territorial Dental Directors, April 1993.

Participated in courses and seminars sponsored by A.P.H.A. (American Public Health Association), A.D.A. (American Dental Association) and A.A.P.H.D. (American Association of Public Health Dentistry) annual meetings, 1991-1995.

Maternal and Child Oral Health Conference (Region IV, USPHS) Atlanta, GA August 1991.

Participated on the Alabama Council on Aging (Dental Health Issues) Montgomery, AL 1991.

Geriatric Education Center Summer Intensive Program, UAB, Birmingham, AL 1991.

SELECTED PUBLICATION:

Puttalah R., Aponte-Merced L., Butts J.T., Bailey K.L., Bradford E.H., Carley K.W., "Association Between Tobacco Use by Teenagers and Tobacco Use in their Environment.: Journal of Dental Research: 72(special issue), p.391 (Abstract #2300) 1993.

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed on Form Page 2.
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NAME Sherry R. Crump, MD, MPH		POSITION TITLE Research Fellow	
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 <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
MacDonald College (McGill U), Quebec	B.Sc (H.Ec)	1959	Nutr. & Dietetics
Royal Victoria Hosp., Montreal, Quebec	P.Dt.	1960	Dietetics
Univ. of California, Berkeley, CA	M.S.	1963	Commun. Nutrit.
Univ. of Toronto, Toronto, Ontario	Ph.D.	1970	Nutrition
Concordia Univ., Montreal, Quebec		1977	Admin. Courses

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;
 1980 - 81 Associate Investigator, Nutrition Research Cooperative Agricultural Research Program and the Department of Home Economics, Tennessee State University, Nashville, Tennessee.
 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.
 1964 Public Health Nutritionist, Ontario Ministry of Health, 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:

1. Hardy RE, Hargreaves MK. Cancer Prognosis in Black Americans; A Mini Review. JNMA (July 1991).
2. Hargreaves MK, Ahmed O, Semanya K, Pearson L, Sheth N, Hardy RE, Bernard LJ. Nutrition and Cancer Risk: Assessment and Preventive Program Strategies for Black Americans. Texas Proceedings 1989. Ed. by Lowell Jones--In Cancer in the Minority Communities: Springer-Berlag, New York.
3. Hargreaves MK, et al. The body mass index as a predictor of pulmonary function in healthy Black Americans. Nutri. Res. 8: 875-888, 1988.
4. Hargreaves MK, et al. "Diet, nutritional status, and cancer risk in American Blacks. Nutri. Cancer 12(1): 1-28, 1989.
5. Hargreaves MK, et al. Changing community behaviors: a model for program development and management. Health Values 10(6):34-43, 1986.
6. Contributor, Report of the Secretary's Task Force on Minority Health Volume III: Cancer, January 1986.
7. Hargreaves MK. Dietary Patterns and Nutritional Status: Implications for Cancer Risk in U.S. Minorities - Blacks and Hispanics. Prepared for the Division of Cancer Prevention and Control, NCI. 1985.
8. Continuing Education Course, New England Deaconess Hospital, Boston, Mass. on "Advances in Hyperalimentation: A Practical Approach", September 1983.
9. Advisory Panel, Infant Mortality Study, Middle Tennessee Health Systems Agency (MTHSA) (1981) (Final report for MTHSA's Health Systems Plan).
10. Talk to Surgeons at The National Medical Association on "Nutrition Assessment". July, 1982, San Francisco, CA.
11. Talk to Nashville Nutrition Committee (February 18, 1981) on "Systems and processes for nutrition diagnosis and application in dietetic practice".
12. Kirkcaldy-Hargreaves M, Lynch GW, Santor C. Assessment of the validity of four food models. J. Can. Diet. Assn. 41:102-110, 1980.
13. Kirkcaldy-Hargreaves M, Casey A, Hogan E, Mulroney R. Utility of an on-line computer system in a clinical setting for nutrient intake analyses. J. Can. Diet. Assn. 41:112-127, 1980.
14. Final Report Nova Scotia Firefighter Health and Fitness Study: Results of Intervention, Department of National Health and Welfare, Canada, 1977.
15. Kirkcaldy MR, Beaton, GH. Formation of slow alpha2-globulin in the pregnant rat. Can. J. Physiol. Pharmacol. 55:496-507, 1977.
16. Kirkcaldy MR, et al. Use of an on-line computer in a clinical setting for analyses of nutrient intakes. J.Can. Diet. Assn. 38:243 (Abstr.) 1977.
17. Hardy, R.E.; Hargreaves, M.K.; Eckert, C.; Belay, I.; Jones, T. and Cebrun, A: Promoting Breast and Cervical Cancer Screening Among Low Income Women in an HMO setting. J.N.M.A. (in press 1995).
18. Hardy, R.E.; Hargreaves, M.K.; and Semanya, K.A. Cancer Prevention Practices in Tennessee Primary Care Physicians. Journ. Tenn Med Assoc. (in press).

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	POSITION TITLE
Robert S. Levine	Co-Investigator

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

INSTITUTION AND LOCATION	DEGREE	YEAR CONFERRED	FIELD OF STUDY
Columbia University, NY, NY	B.A.	1963	Pre-Med.
Bowman Gray, Winston-Salem, NC	M.D.	1968	Medicine
Bowman Gray, Winston-Salem, NC	Intern	1969	Pediatrics
University of Kentucky, Lexington, KY	Resident	1972	Preventive Medicine

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.

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 and 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, MEDTEP 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)

- Report of a WHO/UNEP Working Group. Public Health Impact of Pesticides Used in Agriculture. Geneva and Nairobi: WHO/UNEP. 1990.
- Zeigler RG, Brinton LA, Warnecke R, Lehman RA, Levine RS, Stolley P, Rosenthal AC, Trumbell AC, Hoover RN. "Diet and the Risk of Invasive Cervical Cancer Among White Women in the United States." Amer.J.Epidemiol. 132:432-445. 1990.
- Levine RS, Hersh CB, Hodder RA. "Historical Patterns of Pesticide Epidemiology Research." Epidemiology. 1:181-184. 1990.
- Jones CJ, Brinton LA, Hamman RF, Stolley PD, Lehman, HF, Levine RS. "Risk Factors for In Situ Cervical Cancer: Results from a Case-control Study." Cancer Research. 50:3657-3662. 1990.
- Hidesheim, A, Brinton LA, Mallin K, Lehman HF, Savitz DA, Levine RS. "Barrier and Spermicidal Contraceptive Methods and Risk of Invasive Cervical Cancer." Epidemiology. 1:266-272. 1990.
- 6-8. The Selected Cancers Cooperative Study Group. The Association of selected cancers with service in the US military in Vietnam. I. Non-Hodgkin's Lymphoma; II. Soft-Tissue and Other Sarcomas; III. Hodgkin's Disease, Nasal Cancer, and Nasopharyngeal Cancer. Arch. Intern Med. 150:2473-83; 2492-95; 2495-2505. 1990.

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

9. Levine RS. "Recognized and Possible Effects of Pesticides in Humans." Chapter 7 of Hayes WJ Jr., and Walls EN. Handbook of Pesticide Toxicology. Vol. I. San Diego: Academic Press. 1991. pp. 275-360.
10. Zeigler RG, Jones CJ, Brinton LA, Norman SA, Mallin K, Levine RS, Lehman HF, Hamman RF, Tremble AC, Rosenthal J, Hoover RN. "Diet and Risk of In Situ Cervical Cancer Among White Women in the United States." Cancer Causes and Control. 2:17-29. 1991.
11. Lassise DH, Savitz DA, Hamman RF, Baron AE, Brinton LA, Levine RS. "Invasive Cervical Cancer and Intrauterine Device Use." Int.J.Epidemiol. 20:865-70. 1991.
12. Levine RS and Doull J. "Global Estimates of Pesticide Mortality and Morbidity." Rev.Env.Contam.and Toxicol. 129:29-50. 1992.
13. Levine RS and Dolin P. "Pregnancy and Breast Cancer: A Possible Explanation for the Negative Association." J.Med.Hypoth. 38:278-283. 1992.
14. Levine, RS, Hennekens, CH, Jesse, MJ. Development of Blood Pressure in a Population-Based Cohort of Newborn Twins. BMJ. 1994; 308:298-302.
15. Levine, RS. "Practicing Without a Net." TIKKUN, Sep/Oct, 1995:65-73.
16. Levine, RS, Zhu, K, Braun, E, Baum, M, Gnepp, D. "Population-based Case Control Study of the Relationship Between Cigarette Smoking and Nasal Naso-pharyngeal Cancer." Cancer Causes & Control. In press.

Abstracts and Presentations (*Presented): 1990 to Present

- *1. Fojas, A, Feldman, G, Hauben, M, Levine, R, Hodder, R, Marino, W. The Effect of Increased Attending supervision and Educational Intervention on the Practice of Influenza Vaccination by Medical Residents on Hospital Outpatients. Am. Rev.Resp. Dis. 141:A603. 1990.
2. Futterman, N, Zervis, G, Inba-Vazhau, G, Gupta, V, Levine RS, Hodder, RA, Ciaramida, SA. Near Misses in Thromboembolytic Therapy: The Need for Timely Delivery. Clin. Res. 38:703A. 1990.
- *3. Levine, RS and Dolin, P. Halogenated Hydrocarbons and Human Cancer: A Reconsideration. International Society for Environmental Epidemiology. Buffalo, NY. June, 1991.
- *4. Levine, RS, Kazi, I, Dolin, P, Futterman, N, Marino, W, Hodder, RA. Towards the Integration of Curative and Preventive Services for Internal Medicine Patients. American Public Health Association. Atlanta, GA. November, 1991. Abstracts:253.
- *5. Levine, RS, Kazi, I, Dolin, P, Futterman, N, Marino, W, Hodder, RA. Integrating maternal preventive services at a well baby clinic. American Public Health Association. Abstracts:236.
- *6. Levine, RS, Doull, J. Global Estimates of Pesticide Mortality and Morbidity. American Chemical Society. San Francisco, CA. 1992.
- *7. Levine, RS. Medical effectiveness and quality assurance. Invited Lecture. Uniformed Services University of the Health Sciences. June 1993.
- *8. Torres, T, Levine, RS, Carter, R. Intervention to increase the proportion of patients whose physicians advise regular physical activity. Prevention 94. Atlanta, GA. 1994.
9. Apollis, K, Nelson-Knuckles, B, Tate, H, Levine, RS. A family systems approach to the management of hypertension in African-Americans. Accepted for presentation. National Medical Association. August, 1994.
10. Turner, EA, Levine, RS, Federspiel, CF, Nelson-Knuckles, B, Wolff, S. Pharmacy payments for sickle cell diseases: Increases from 1980 to 1992. Submitted for presentation to APHA 123rd Annual Meeting, San Diego, CA. October, 1995.
- *11. Levine, RS, Zhu, K, Braun, E, Baum, M, Gnepp, D. Population-based Case Control Study of the Relationship Between Cigarette Smoking and Nasal Naso-pharyngeal Cancer. Society of Epidemiological Research, Snowbird, UT. June, 1995.
12. Levine, RS, Zhu, K, Braun, E, Baum, M, Gnepp, D. Population-based Case Control Study of the Relationship Between Cigarette Smoking and Nasal Naso-pharyngeal Cancer. Am.J.of Epid. 131:S41, 1995.
- *13. Zhu, K and Levine, RS. Population-based Case Control Study of the Relationship Between Cigarette Smoking and Liver Cancer, Society of Epidemiological Research, Snowbird, UT. June, 1995.
14. Levine, RS, Zhu, K, Braun, E, Baum, M, Gnepp, D. Population-based Case Control Study of the Relationship Between Cigarette Smoking and Primary Hepatic Cancer. Am.J.of Epid. 131:S61, 1995.

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 Mosunmola Alaba George-Taylor		POSITION TITLE Assistant Professor	
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Lagos, Akoka, Lagos, Nigeria	B.S.	1975	Chemistry
Atlanta University, Atlanta, GA	M.S.	1982	Physical Chemistry
Georgia Institute of Technology, Atlanta, GA	M.S.	1987	Atmospheric Chemistry

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:

Drew-Meharry-Morehouse Cancer Consortium Symposium, Nashville, Tennessee, 1995
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, Washington, D.C., 1991
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:

Low Temperature Infrared Spectrum of Chlorine Nitrate and Evidence for the Existence of ClOONO. Journal
of Physical Chemistry (1983), 87, 1091.

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	POSITION TITLE		
PATRICIA MATTHEWS-JUAREZ, Ph.D.	ADMINISTRATOR		
EDUCATION (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE	YEAR CONFERRED	FIELD OF STUDY
Fisk University, Nashville, Tn.	BA	1965-69	Psychology
N.Y. University, N.Y., N.Y.	MSW	1969-71	Community Org.
London University, LSE, London, Eng.		1970	Comp. Soc. Policy
Brandeis University, Waltham, MA	Ph.D.	1979-82	Social Policy

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 Meharry 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.

NAME Vanessa C. Parker	POSITION TITLE Department of Preventive Medicine		
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of California - Sand Diego, San Diego, CA	B.S.	1982	Microbiology
California State University, Dominguez Hills, CA	M.A.	1989	Behavioral Sciences

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

10/84-11/85 Medical Consultant, W.E. Thompson and Associates, Attorneys-at-Law, Washington, D.C.

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:

1. Sussman, S., Parker, V., Crippens, D., Scholl, D., Elder P. "Empirical Development of Brief Smoking Prevention Videotapes Which Target African American Adolescents". International Journal of Addictions 1995;30(9):1141-1164.
2. Rohrbach, L., Fishkin, S., Mansergh, G., Parker, V., Johnson, C.A. "A Survey of Substance Use and Related Issues in Pasadena and Altadena, California". Technical Report, August 1994.
3. Parker, V., Montgomery, S., Kipe, MD, O'Guynn, S. "Tracking Homeless/Runaway Youth", Technical Report, March 1995.
4. Parker, V., Sussman, S., Herring, D., Crippens, D., et al. "Qualitative Development of Smoking Prevention Programming for Minority Youth" (Under Review)
5. Parker V., Sussman, S., "Cigarette Smoking Among Family and Friends of Urban African American Youth" (Under Review)
6. Parker, V., Sussman, S., Herring, D., Crippens, D., et al. "The relations of Ethnic Identification With Smoking Among Ethnic Minority Youth" (Under Review)
7. Parker, V., Montgomery, S., Kipke, 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)
9. Parker, V., Rabinovitz, S., Kipke, M., "The Practice of Violence Among Urban Homeless/Runaway Youth" (In Preparation)

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 Linda Lue Pederson		POSITION TITLE Professor, Department of Epidemiology & Biostatistics	
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Brown University	B.A.	1964	Psychology
University of Iowa	M.A.	1966	Child Behavior
University Western Ontario	Ph.D.	1980	Epidemiology & Biostatistics

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

Oct. 1966- Research Associate, Psychology, London Psychiatric Hospital

May 1967

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
- Planning Committee, Adolescent Smoking Survey, Health and Welfare Canada, 1989-91

SELECTED PUBLICATIONS:

1. Ashley, M.J., Bull, S.B. and Pederson, L.L. Support among smokers and nonsmokers for restrictions on smoking. American Journal of Preventive Medicine, 1995 (in press).
2. Ostbye, T., Pomerleau, J., Speechley, M., Pederson, L.L. and Speechley, K. Correlates of body mass index in the 1990 Ontario Health Survey. Canadian Medical Association Journal, 1995, 152(11), 1811-1817.
3. Helmes, E., Hodsman, A., Lazowski, D., Bhardwaj, A., Crilly, R., Nichol, P., Drost, D., Vanderburgh, L. and Pederson, L. A questionnaire to evaluate disability in osteoporotic patients with vertebral compression fractures. Journal of Gerontology: Medical Sciences, 1995, 50A(2), M91-M98.
4. Bull, S.B., Pederson, L.L. and Ashley, M.J. Restrictions on smoking: Growth in population support between 1983 and 1991 in Ontario, Canada. Journal of Public Health Policy, 1994, 15(3), 310-328.
5. Bull, S.B., Pederson, L.L. and Ashley, M.J. Relationship of smoking status to changes in knowledge and attitudes concerning restrictions on smoking. Canadian Journal of Public Health, 1994, 85(2), 103-105.
6. Pederson, L.L., Bull, S.B., Ashley, M.J., Garcia, J.M. and Lefcoe, N.M. An evaluation of the work place smoking bylaw in the City of Toronto. American Journal of Public Health, 1993, 83(9), 1342-1345.
7. Turner, L.A., Pederson, L.L. and Ostbye, T. Health work force planning in the 90's, Part II: Enough in the right place at the right time? Healthcare Management Forum, 1993, 6(2), 23-30.
8. Turner, L., Ostbye, T. and Pederson, L.L. Work force planning in the 90's, Part I: Efficiency, economy and political will - the need for a new approach. Healthcare Management Forum, 1993, 6(1), 34-40.
9. Pederson, L.L., Bull, S.B., Ashley, M.J. and Kozma, D. Restrictions on smoking: Changes in knowledge, attitudes and predicted behavior in Metropolitan Toronto from 1983 to 1988. Canadian Journal of Public Health, 1992, 83(6), 408-412.
10. Pederson, L.L., Poulin, M., Lefcoe, N.M., Donald, A.W. and Hill, J.S. Does cigarette smoking affect the fitness of young adults?: Rationale and protocol for future research. The Journal of Sports Medicine and Physical Fitness, March 1992, 32(1), 96-105.

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.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Fisk University, Nashville, TN	B.A.	1972	Biology
Meharry Medical College, Nashville, TN	M.D.	1976	Medicine
Meharry Medical College, Nashville, TN	Post Grad. Training	1976-80	Family Med. & Preventive Med.

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

1981-82 Private Practice, Birmingham, Alabama

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:

1. Taylor, BD, Glazner, HK; Young, "Primary prevention of Hypertension: New Directions for the Nation". Presented at the American Occupational Health Conference, April 25-30, 1993.
2. Sung, JFC; Taylor B, et al. Maternal Marital Status and Racial Differences in Infant Mortality: A Georgia population based study (Abstract accepted for Prevention '92. Baltimore, MD Poster Presentation).
3. Fain M, Taylor BD, Johnson JC, Williams MP, Moss SE, Cultural and Linguistic Diversity in African American Alzheimer's Patients. Presented at American Speech-Language Hearing Association Annual Meeting, Marriott Marquis Hotel, Atlanta, GA, November 23 1991.

4. Taylor, BD, Improving Your Risks - A look at lifestyle interventions for the working woman. Presented at the Georgia Northwest Council of Girl Scouts. Unity Presbyterian Church, Decatur, GA, September 1991.
5. Blumenthal, DS and Taylor, BD. The Need for Black Specialists in Preventive Medicine. American Journal of Preventive Medicine, 1990; 6(6), 330-332.
6. Taylor, BD. "Utilization of Preventive Medicine Residents in the Teen Clinical Preventive Medicine Service at the Fulton County Health Department." Presented in the Maternal and Child Health/Teenage Pregnancy Section of the National AHEC Conference, Louisville, Kentucky, June 11-14, 1989.
7. Taylor B, Griffith P, Sung JFC and Densler M. "Characteristics of Alzheimer's Disease in Blacks". Presented to the Georgia Regional Conference on Aging. September 28, 1989.
8. Taylor B, Griffith P, Sung JFC, and Densler M. "Alzheimer's Disease Investigation at a Community Hospital", Atlanta, Georgia. Presented at Georgia Rural Health Conference. Helen, Georgia, 1988.
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.
10. Mims A, Sung JFC, Taylor BD, et al. The Effectiveness of personal Letters to improve the influenza Immunization Rate in Geriatric Patients.

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.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Tongji Medical University, Wuhan, PRC	M.D.	1982	
Tongji Medical University, Wuhan, PRC	M.P.H.	1985	Epidemiology
University of Washington, Seattle, WA	Ph.D.	Present	Epidemiology

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
 Hubei Epidemiologic Association, Hubei, PRC, 1986-1988
 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:

1. Zhu K. A discussion of logical methods in research on causality between smoking and lung cancer. *Medicine and Philosophy* 1986;7:10-2.
2. Zhu K., He S., Pan X., Zheng X, Gu Y. The relation of urinary cations to blood pressure in boys aged seven to eight years. *Am J Epidemiol* 1987;126:658-63.
3. Zhu K., He S., Pan X., Zheng X, Gu Y. The relationship between blood pressure and sodium, potassium, calcium and magnesium in the urine. *Chinese J Epidemiol* 1987;8:9-13.
4. Zhu K., He S. The estimation of population attributable risk fraction in case-control studies. *Guowai Yixue* 1987;4:198-204.
5. Zhu K., He S., Pan X. The logistic regression analysis of urinary cations in relation to blood pressure in children. *J Clin Cardiol* 1987;3:223-5.
6. Zhu K., He S., Pan X., Zheng X., Gu Y., Zhang Y., Shi L., Huang R. A study of variables in relation to blood pressure among boys by factor analysis. *Chinese J Prev Med* 1988;3:169.
7. Zhu K., He S. The intrapopulation studies on the relationship between sodium and hypertension. *Prog in Epidemiol* 1988;5:295-307.
8. Zhu K., He S. The estimation of relative risk in case-control studies. *Chinese Hlth Stat* 1989;6:25-8.
9. Zhu K., Shi L., Huang M., Li G., Zhan Z. A study of the relationship between urinary cations and blood pressure among old people in Wuhan. *Acta Tongji University* 1989;3:207-8.
10. Zhu K., Daling J., Mueller B., Sherman K. The association of HIV infection and lymphoma occurrence: an analysis using SEER data (abstract). *Am J Epidemiol* 1991;134:780.
11. Zhu, K., Psaty, B. Sodium and blood pressure: The puzzling results of intrapopulation epidemiologic studies. *Med Hypotheses* 1992;38:120-4.
12. Zhu, K. "Sick building syndrome": an inappropriate term. *J Occup Med* 1993;35:752.
13. Zhu K., Weiss, NS., Schwartz, SM., Daling JR. Assessing the relationship between marital status and cancer incidence: methodological considerations. *Cancer Causes and Control* 1994;5:83-7.