

CURRICULUM VITAE

Richard Neil Baumgartner, MA, PhD, FACE

PERSONAL INFORMATION

Office Address: 485 East Gray Street
University of Louisville
Louisville, KY 40202

Home Address: 4303 Hill Top Road
Louisville, KY 40207

Date of Birth 11/29/1951

EDUCATION

Institution	Field of Study	Degree	Date
Beloit College, Beloit, WI	Anthropology	B.A.	1973
Southern Illinois University	Biological Anthropology	M.A.	1976
University of Texas, School of Public Health at Houston	Community Health Science (Nutritional Epidemiology)	Ph.D.	1982

EMPLOYMENT

- 7/1/06 – present Chair, Department of Epidemiology and Population Health, School of Public Health and Information Science, University of Louisville, Louisville, KY
- 7/15/08 – 4/01/10 Acting Chair, Department of Bioinformatics and Biostatistics, School of Public Health and Information Science, University of Louisville, Louisville, KY
- 7/1/05 – present Professor and Distinguished University Scholar, Department of Epidemiology and Population Health, School of Public Health and Information Science, University of Louisville, Louisville, KY
- 1/1/03 – 6/39/05 Professor, Division of Epidemiology and Preventive Medicine, Department of Internal Medicine; Epidemiology and Cancer Control (EpiCC), Cancer Research and Treatment Center; Associate Director for Science, Institute for Public Health; and Director, Aging and Genetic Epidemiology University of New Mexico School of Medicine, Albuquerque, NM
- 9/1/02 – 1/1/03 Professor and Interim Chief, Division of Epidemiology and Preventive Medicine, Department of Internal Medicine; Epidemiology and Cancer Control (EpiCC), Cancer Research and Treatment Center; and Director, Aging and Genetic Epidemiology University of New Mexico School of Medicine, Albuquerque, NM
- 7/1/00 – 8/31/02 Professor (with tenure), Division of Epidemiology and Preventive Medicine, Department of Internal Medicine; Epidemiology and Cancer Control (EpiCC), Cancer Research and Treatment Center; and Director, Aging and Genetic Epidemiology Program (*formerly Clinical Nutrition Program*), University of New Mexico School of Medicine, Albuquerque, NM
- 1996 - 2000 Associate Professor (tenure track), Division of Epidemiology and Preventive Medicine, Department of Internal Medicine; Epidemiology and Cancer Control (EpiCC), Cancer Research and Treatment Center; and Co-Director, Clinical Nutrition Program, University of New Mexico School of Medicine, Albuquerque, NM

- 1991 -1995 Research Associate Professor, Department of Biochemistry, and Assistant Director, Clinical Nutrition Program, University of New Mexico School of Medicine, Albuquerque, NM
- 1988-1990 Research Associate Professor, Division of Human Biology, Departments of Community Health and Pediatrics, Wright State University School of Medicine, Dayton, OH.
- 1985 - 1988 Research Assistant Professor, Division of Human Biology, Department of Pediatrics, Wright State University School of Medicine, Dayton, OH
- 1981 - 1984 Research Specialist, Department of Biological Psychiatry, Texas Research Institute for Mental Science, Houston, TX

PROFESSIONAL ASSOCIATIONS

Society for Epidemiologic Research
 Fellow of the American College of Epidemiology (FACE)
 ACE Publications Committee (2005-2006)
 ACE Ethics Committee (2007-2010)
 ACE Board of Directors (2011-2014)
 Host, 2013 Meetings in Louisville, KY
 Gerontological Society of America (former)
 American College of Nutrition (former)
 Obesity Society (former)

PROFESSIONAL ACTIVITIES

Manuscript reviewer:

- American Journal of Human Biology
- American Journal of Clinical Nutrition
- International Journal of Obesity
- Pediatric Research
- Obesity Research
- American Journal of Epidemiology
- Cancer, Epidemiology, Biomarkers and Prevention
- Annals of Epidemiology
- Journal of the National Cancer Institute
- Journal of Gerontology
- Journal of Applied Physiology
- Nutrition Research
- J American Geriatrics Society
- Metabolism

Editorial Board, Journals of Gerontology (2001-2009)

Grant reviewer:

- National Science Foundation (1987-1988)
- National Institutes of Health, Nutrition Study Section Ad Hoc Reviewer 1991-1994
- National Institutes of Health, Geriatric and Rehabilitative Medicine Special Emphasis Panel Ad Hoc Reviewer, 1996
- National Institutes of Health, Special Emphasis Study Section: Obesity Research Centers Ad Hoc Reviewer, 1997
- National Institutes of Health, Epidemiology and Disease Control I Ad Hoc Reviewer, 1997-2000
- National Institutes of Health, Epidemiology of Chronic Disease Charter Member 2001-2004
- National Institutes of Health, Geriatric and Rehabilitative Medicine Special Emphasis Panel

- Ad Hoc Reviewer, 2005
- National Institutes of Health, Cardiovascular and Sleep Epidemiology Ad Hoc Reviewer, 2004 – 2006
- National Institutes on Aging, Contracts for Extension of Baltimore Longitudinal Study of Aging Ad Hoc Reviewer, 2007
- National Institutes of Health, Special Emphasis Study Section: Obesity Nutrition Research Centers Ad Hoc Reviewer, 2007
- National Institutes of Health, Cardiovascular and Sleep Epidemiology Charter Member 2007-2010
- National Institutes of Health, Special Emphasis Study Sections (various) Ad Hoc Reviewer, 2012-present

Consultant:

- Endometrial Cancer Study, 1987-1990, National Cancer Institute.
- 65+ Rural Health Study, 1988, University of Iowa, National Institute on Aging.
- Modified Diet Renal Disease Study, 1988-91.
- Ethnicity and Obesity: New Body Composition Models, 1989-1994, St. Luke's - Roosevelt Hospital, NY, NY, S.B. Heymsfield (PI).
- Subcutaneous Fat, Blood Lipids, and Subsequent Outcome, 1993-1998, Wright State University, Dayton, OH, R. Siervogel (PI).
- Aging and Skeletal Muscle: New Body Composition Models, 1995-2000, St. Luke's - Roosevelt Hospital, NY, NY, S.B. Heymsfield (PI).
- Body Composition: Methods, Models and Clinical Application, 2001-2006, St. Luke's - Roosevelt Hospital, NY, NY, S.B. Heymsfield (PI).
- Older Americans Independence Center (Claude Pepper Center), 2001-2008, Wake Forest University, Winston-Salem, NC. S. Kritchevsky (PI).
- Older Americans Independence Center (Claude Pepper Center), 2005-2010, University of Texas Medical Branch at Galveston, J. Goodwin (PI).
- Center on Aging and Cancer, 2005-2009, University of Colorado, T Byers (PI).

Internal Service

University of Louisville

Faculty Forum, University of Louisville, Dept. Epidemiology 2005-2006
 Concentration Coordinator, University of Louisville, Dept. Epidemiology 2005-2006
 Chair, Curriculum Committee, University of Louisville, Dept. Epidemiology 2005-present
 Chair, Department of Epidemiology and Population Health, 2006-present
 Acting Chair, Department of Bioinformatics and Biostatistics, 2008-2010
 Current: Accreditation Committee
 Dean's Executive Committee
 SPHIS Curriculum Committee
 Academic Affairs Committee
 Co-Chair, Search Committee, Dean of School of Interdisciplinary and Graduate Studies
 MPH Advisory Committee

University of New Mexico

Interim Chief, Division of Epidemiology, UNM School of Medicine 2003-2005
 Associate Director for Science, Institute for Public Health 2004-2005
 Director, Aging and Genetic Epidemiology Program 2002 - 2005
 Member, Human Research Review Committee, UNM IRB 1999-2004

Director, Clinical Nutrition Program, 1999 – 2001
 Assistant-Director, Clinical Nutrition Program, 1991-1999
 Population Health Task Force 1994-1996
 Advisory Board, Center for Population Health, 1994-2003
 Medical Student Research Review Committee, 1995-2002
 Advisory Committee, Clinical Magnetic Resonance Research Center, 1998 - 2001

Honors and Awards

Ralph C. Williams Jr. Award for Senior Researcher, Department of Internal Medicine, UNM School of Medicine, 1999

Max K. Horwitt Distinguished Lectureship. Saint Louis University, June 6, 2003

Distinguished University Scholar. University of Louisville, 2005

Faculty Favorite. University of Louisville

Teaching

University of New Mexico (1991-2004)

Ph.D./Masters Thesis Advisory Committee:

- Hicks, VL. "Validation of near-infrared interactance and skinfold methods for estimating body composition of American Indian Women", Ph.D., Exercise Physiology, 1992.
- Stolarczyk, L. "The Segal fatness-specific bioelectric impedance equations: are they generalizable and practical?", Ph.D., Exercise Physiology, 1996
- Kocina, P. "Clinical assessment of body composition in the spinal cord injured population", Ph.D., Exercise Physiology, 1996.
- Wagner D. "Cross-validation of body composition equations for Black men using a multicomponent model", Ph.D., Exercise Physiology, 1997.
- Scariano, J. "Serum metabolites of type-I collagen: correlation with bone mineral density and metabolic bone disease", M.S., Biomedical Science, 1998. PhD, Biomedical Science, 2002.
- Jenkins, K. "Cross-validation of body composition equations for children using dual energy X-ray absorptiometry", Ph.D., Exercise Physiology, 1998.
- Lockner, D. "Cross-validation of the "Body Pod" versus hydrostatic weighing and dual energy X-ray absorptiometry", Ph.D., Exercise Physiology, 1999.
- Marques, M. "Cross-validation of body composition equations for Brazilian women using dual energy X-ray absorptiometry, Ph.D., Exercise Physiology, 1999

Medical/MPH Students Mentored in Required Research Projects

- Stanley Miranda, "Common gait deviations, falls and fear of falling in the elderly", 1997.
- Elizabeth Romero, "Ethnic differences in bone mineral and femoral neck structure in New Mexico women". Second place in Student Research Day poster competition, 1998.
- Monica Radloff, "Changes in muscle mass, hormone replacement therapy and functional status in elderly women". Oral presentation at Carmel meetings, 1999.
- Ali Chandani, "Biochemical markers of bone turnover as correlates of bone mineral density in an elderly male population". (see publication, Bone 2000).
- Michael Bell, Chris Zagar, and Victoria Garcia. Vitamin D and parathyroid hormone levels in nursing home and free-living elderly women in Albuquerque, NM. 2000

- Anu Kakumanu. Obesity and leptin in type 2 diabetics. 2001
- Kristen Flammer. Hyperleptinemia and weight loss in elderly men, 2002

Tutoring: UNM School of Medicine Problem Based Learning Curriculum

CV/Pulmonary Disease Block, SOM. 1996.

GI/Nutrition/Metabolism and Renal/Endocrinology Blocks, SOM. 1997, 1998, 1999, 2000.

Molecular Genetics Block. 1998, 1999, 2000, 2001.

Courses Designed and Taught, UNM MPH Program:

Nutritional Epidemiology

Lectures and Seminars:

Human Biochemistry/Biology Block, SOM. Annual lectures on "Human Body Composition". 1991-1993.

Nutritional Assessment, K. Koehler, Dept. HPPELP. 1 hour guest lectures on "Body Composition Analysis", 1991- 1994.

Body Composition, V. Heyward, Dept. HPPELP. 1 hour guest lectures on "Bioelectric Impedance and Dual Energy X-ray Absorptiometry", 1991- 1994.

Lectures on methodologic aspects of nutritional epidemiology in Epidemiologic Methods II - Spring 1995, MPH Program.

Correlates of Sarcopenia in Elderly People. Epidemiology Research Seminar, Winter 1996.

Epidemiology of Sarcopenia in Elderly New Mexicans, Grand Rounds, UNM SOM, Fall, 1996

Epidemiology of Sarcopenia. RC Williams Senior Research Award Lecture. UNM SOM, Fall 1999.

Update: Epidemiology and clinical treatment of obesity. Grand Rounds, UNM SOM, Fall, 2004, 2005

Other Teaching-Related Activities:

Judge, Basic Medical Sciences. Medical Student Research Day. January, 1993, 1994, 1995, 1998.

1st year Medical Student, Practical Immersion Experience (PIE) Assessments, Spring, 1994, 1995, 1998.

Lecturer, Co-organizer. First Year Medical Student Research Orientation Seminar, May 1995.

Liaison to Renal Block: Population Health Task Force, Fall 1995.

University of Louisville (2005 – present)

Program Director, MS and PhD Curricula, Department of Epidemiology and Population Health

Conceived and established MS/PhD curricula and most courses taught

Courses developed and taught:

Introduction to Epidemiology, PHEP 501 (2006); developed and turned over to junior faculty

Epidemiology Methods, PHEP 602 (2006); developed and turned over to junior faculty

Field Epidemiology, PHEP 616 (2007); developed and turned over to junior faculty

Advanced Epidemiologic Methods, PHEP 701 (2006-7); developed and turned over to junior faculty; resumed primary teaching in 2016

Seminars in Epidemiology, PHEP 750 (2007-present)

Epidemiology Methods II PHEP 618 (2008-9, 2014-present); developed and turned over to junior faculty; resumed primary teaching in 2014

Biology of Disease in Populations PHEP 619 (2009-present)
 Public Health Biology PHEP 650 (2015)
 Nutritional Epidemiology PHEP 611 (2011, 2015)
 Theoretical Foundations of Epidemiology PHEP 650 (2015-present)

Ph.D./Masters Thesis Advisory Committee:

- Saad, F., PhD Epidemiology, 2008. "Is sleep apnea a risk factor for pre-eclampsia?" Committee Chair
- Richardson, G, MS Epidemiology, 2010. "Aging brain: Applying hierarchical linear models to evaluate the trajectories of cognitive aging. Does individual change matter?" Committee Chair
- Connor, A., PhD Epidemiology, 2011. "The Beta- 2 Adrenergic Receptor Polymorphisms and Risk of Breast Cancer among Hispanic and Non-Hispanic White Women from the 4-Corners Breast Cancer Study- A Population-Based Case-Control Examination." Committee member
- Das, N. PhD Epidemiology, 2012. "Genetic polymorphisms in the folate metabolizing pathway and breast cancer survival" Committee Chair
- Denkhoff, S. PhD-student Epidemiology, 2013. "TGF-B signaling pathway, ER- α and the heterogeneity of breast cancer risk among Hispanic and non-Hispanic white women " Committee Member
- Donneyong, M. PhD-student Epidemiology, 2013. "Calcium plus vitamin d supplementation among postmenopausal women: effect on incidence of heart failure in The Women's Health Initiative (WHI) Study" Committee Member
- Appiah, D. PhD-student Epidemiology, 2013. "Cardiovascular disease among diabetic women with bilateral oophorectomy" Committee Member
- Myatt, K. MS-student Epidemiology, 2013. "The effect of cervical cancer on survivor's sexual dysfunction and quality of life" Committee Member
- Peiper, N. PhD-student Epidemiology, 2013. "The performance of the K6 scale in a large adolescent sample" Committee Co-Chair.
- Gonzalez, X. MS-student Epidemiology, 2014. "Cognitive decline and polypharmacy in an elderly population" Committee Co-Chair.
- Jhaveri, M. PhD-student Epidemiology, 2015. "Clinical and cost effectiveness of chronic obstructive pulmonary disease management program at the University of Louisville" Committee Member.
- Burns, A. PhD-student Epidemiology, 2017. "Pediatric anxiety and/or depression problems: association with PM₁₀ fly ash and metal exposure". Committee member
- Carhart, J. PhD-student Epidemiology, 2017. "Effect of total body iron on metabolic dysfunction among U.S. females in the NHANES 2003-2010 survey, aged 12-49". Committee member
- Odoh, C. PhD-student Epidemiology, 2018. "Coal ash exposure and behavioral impairments among children in Louisville, KY" Committee Co-Chair.
- Tompkins, L. PhD-student Epidemiology, dissertation in progress. Committee Co-Chair.
- Kuo, D. PhD-student Epidemiology, dissertation in progress. Committee Chair.
- McGeeney, T. PhD-student Epidemiology, dissertation in progress. Committee Chair.
- Davis, C. PhD-student Epidemiology, dissertation in progress. Committee Chair.
- Mattingly, D. MS-student Epidemiology, thesis in progress. Committee Member.
- Zachary, A. MS-student Epidemiology, thesis in progress. Committee Member.
- Lohani, S. MS-student Epidemiology, thesis in progress. Committee Member.

RESEARCH SUPPORT

Current Grants and Contracts

Department of Defense (DOD). Jortani, S (PI), RN Baumgartner (Co-I). A Novel Approach for Personalized Acute Pain Management Following Injuries and Surgeries. Description: This study investigates variants in opioid receptor and metabolism genes that influence therapeutic and side effects to opioid treatment for pain. Total grant period: 11/1/16 - 10/31/19. Total costs: \$1,044,770.

Grants and Contracts Pending or Under Review

NIH U54 GM128728. University of Louisville Institutional Development Award (IDeA) Clinical Translational Research Institute. Klein, J (PI). Clinical Research Design, Biostatistics and Epidemiology Core. S Rai, RN Baumgartner (Co-Leaders). Total grant period: 7/2018-6/2023. Total costs: \$20,000,000.

Grants Submitted But Not Funded Within Last 5 years

NIH U01 CA213261. RN Baumgartner (Co-PI), KB Baumgartner (Co-PI). Biomarkers of Early Detection and Risk for Cancer: The Kentucky E-Detect Cohort. Response to **PAR-15-104 - Core Infrastructure and Methodological Research for Cancer Epidemiology Cohorts**. Description: This is a revised application to form a new cancer cohort in Kentucky targeted at discovery and development of novel biomarkers for early detection of cancer. Total grant period: 11/17 – 10/22. Total costs: \$20,000,000. Priority score: 40.

Burroughs Welcome Fund. McKinney, P (PI), RN Baumgartner (Co-I). Clinical and Translational Research Program in Pneumonia, Influenza, and Emerging Respiratory Pathogens. Total grant period: 2/1/15 - 1/31/20. Total costs: \$2,455,003.

Cystic Fibrosis Foundation. Winters, S (PI), RN Baumgartner (Co-I). Selective Estrogen Response Modifiers for Men with Cystic Fibrosis. Total grant period: 1/1/13 - 12/31/15. Total costs: \$324,000.

NIH R21CA185950. RN Baumgartner (PI). Influence of breast adipose tissue on carcinoma gene expression. Description: This application will examine associations between breast adipose and tumor tissue gene expression using materials acquired by laser-capture microdissection from fresh and formalin-fixed paraffinized tissue in a biorepository. Total grant period: 2014-2016. Total costs: \$296,969.

Susan G. Komen Foundation. RN Baumgartner (PI), K. Baumgartner (Co-PI). "University of Louisville: Susan G. Komen Breast Cancer Disparities Epidemiology Research Training Program". Description: This application will continue a doctoral training program in cancer epidemiology. Total grant period: 2014-2017. Total direct costs: \$404,926.

American Diabetes Association. Winters, S (PI), RN Baumgartner (Co-I). SHBG Gene Expression and the Metabolic Syndrome. Total grant period: 1/1/13 - 12/31/15. Total costs: \$600,000

Susan G. Komen Foundation. R. Baumgartner (PI). Telomere Length and Serum Biomarkers of Lifecourse Exposures and Breast Cancer. Description: This application will measure telomere length and serum biomarkers of oxidative stress and inflammation in stored DNA and sera and study their associations with breast cancer risk and survival. Total grant period: 2013-2016. Total direct costs: \$717,075.

NIH U54 RR026087. "University of Louisville Clinical Translational Science Institute: Clinical Research Ethics, Resign Design, Epidemiology and Biostatistics Core". C McClain(PI) ; RN Baumgartner (Co-I) (Co-Director, Research Development Core). Total grant period: 2011-2016. Total costs: \$19,898,356.

NIH. R01 AG040281-01 "Insulin Resistance as a Risk Indicator for Menopausal Vasomotor Symptoms." B Villafuerte (PI), RN Baumgartner (Co-I). Description: The purpose is to establish the role of insulin

resistance and glucose excursions in the etiology of hot flashes in menopausal women. Total grant period: 2011-2016. Total direct costs: \$1,709,429.

NIH RC1 AG035899. "Telomere Length and Aging". RN Baumgartner(PI) . Description: This proposal under the Research Challenge RFA will utilize data from the New Mexico Aging Process Study and new assays of telomere length and other biomarkers of oxidative stress to determine association with multiple rate-of-change phenotypes in old age including loss in cognitive and physical function, body composition, and health. Total grant period: 8/1/11-7/30/12. Total direct costs: \$828,790.

Previous Grants and Contracts

Susan G. Komen Foundation. K. Baumgartner (Co-PI), RN Baumgartner (Co-PI). "University of Louisville: Susan G. Komen Breast Cancer Disparities Epidemiology Research Training Program". Description: This application will create a doctoral training program in cancer epidemiology. %FTE 8%. Total grant period: 1/1/09-12/30/12. Total direct costs: \$270,000.

SEER, NCI-PC-05016-20. "Weight, Physical Activity, Diet: Association with Occurrence and Prognosis for Invasive Breast Cancer among Post-Menopausal Women (HEAL Study): 10 Year Followup". RN Baumgartner(PI), K. Baumgartner (Co-PI). Description: This is the 13 year follow-up interview of a cohort of 1,200 women with breast cancer. The purpose is to determine how body weight and composition, dietary intake, and physical activity influence prognosis. %FTE 12%. Total grant period: 10/1/05-10/30/12. Total costs: \$278,217.

NIH/NIEHS 1P30ES014443-01A1 "Center for Environmental Genomics and Integrative Biology". K. Ramos (PI), RN Baumgartner (Co-I). Description: The goal of this grant is to support outstanding basic and translational investigations into the etiology of environmental disease and the development of new approaches to manage these conditions. The Integrated Health Sciences Facility Core's central goal is to provide Center investigators with services and resources that will facilitate the translation of basic research finding into clinical or public health applications. The Community Outreach and Education Core's primary goal will be to educate residents in the Louisville Metropolitan Area (9 counties in Kentucky and 4 in Indiana) on the importance of interactions between genes, environment, culture, and disease focusing on the Hispanic and African American communities. %FTE 5%: Integrated Health Sciences Facility Core. Total grant period: 4/01/07-03/31/11. \$5,500,000 Total direct costs.

NIH R03CA128028-0 "A Pharmacogenetic Approach to Prostate Cancer Susceptibility" Kidd, L (PI); RN Baumgartner Co-I. Description: The purpose of the study is to systematically evaluate the capacity of an innovative panel of genetic variants within carcinogen-biotransformation, -transport, and -DNA repair pathways to predict prostate cancer susceptibility among men of African descent. In order to accomplish this high-impact research objective, the proposed project will use a multi-faceted statistical strategy that combines orthodox statistical methods with computation algorithms and hierarchical interaction graphs. Total grant period: 06/1/2007-5/31/2009. Total costs: \$74,000

NIH R01CA105266 "Ethnicity, Breast Cancer Recurrence, & Long-Term QO" KB Baumgartner (PI); RN Baumgartner (Co-I) Description: Follow-up study of the New Mexico Women's Health Study (NMWHS: 1992-1996), a statewide, population-based, case-control breast cancer study, for survival, recurrence, and quality of life; designed to assess differences by ethnicity and age. Total grant period: 09/09/05-05/31/11 Total Costs: \$1,907,689 (Direct: \$1,331,911).

NIH R01 CA078762. "Four Corner's Women's Health Study. KB Baumgartner (PI) ; RN Baumgartner Co-I. Description: This is multicenter case-control study of comparing Hispanic and non-Hispanic white women in the Southwest for breast cancer risk factors. %FTE 15%. Total grant period: 10/1/05-10/30/06. Total direct costs, \$207,323.

SEER, NCI-PC-05016-20. "Weight, Physical Activity, Diet: Association with Occurrence and Prognosis for Invasive Breast Cancer among Post-Menopausal Women (HEAL Study): 5 Year Followup". RN Baumgartner(PI) . Description: This is the 5 year follow-up interview of a cohort of 1,200 women with

breast cancer. The purpose is to determine how body weight and composition, dietary intake, and physical activity influence prognosis. %FTE 10%. Total grant period: 10/1/03-9/30/04. Total direct costs, \$322,833.

SEER, NCI-PC-05016-20. "Weight, Physical Activity, Diet: Association with Occurrence and Prognosis for Invasive Breast Cancer among Post-Menopausal Women (HEAL Study): 5 Year Followup". RN Baumgartner(PI) . Description: This is the 5 year follow-up interview of a cohort of 1,200 women with breast cancer. The purpose is to determine how body weight and composition, dietary intake, and physical activity influence prognosis. %FTE 10%. Total grant period: 10/1/02-9/30/03. Total direct costs, \$451,761.

NIH P60: AG-02-001. "Older Americans Independence Center: Body Composition Core". PI, RN. Baumgartner. Description: This will be one of several cores in a large aging research center grant funded by the National Institute on Aging (PI, M. Pahor). Total grant period: 7/01/02-06/30/07. Total Subcontract Costs: \$36,721.

R01 AG10149-10 National Institute on Aging, "Body Composition Changes in the Elderly: Sarcopenia". R.N. Baumgartner (PI). Description: The purpose is to develop and improve methods for measuring muscle mass and function, to determine the prevalence and incidence of sarcopenia (age-related muscle loss), and to determine etiologic factors and consequences in a unique, longitudinal cohort of elderly people. Total grant period: 6/01/98 to 5/32/04. Total direct costs, \$2,676,146.

R21 "Mitochondrial Function and mtDNA Deletions in Sarcopenia". D Waters(PI) ; RN Baumgartner (Co-I). Description: This exploratory study will utilize a novel, multi-disciplinary approach to determine the associations among in vivo measurements of muscle mitochondrial function, in vitro biopsy measures of mtDNA damage, and biomarkers of oxidative stress and antioxidant protection to test the hypothesis that cumulative mitochondrial damage underlies progressive muscle loss with age, or sarcopenia. Proposed dates of support: 12/01/02-11/30/04. Total direct costs, \$250,000.

SEER, NCI-PC-85063-20. "Adipose tissue antioxidant vitamin and fatty acid concentrations in women with breast cancer in New Mexico". R.N. Baumgartner(PI) . Description: This study is determining the feasibility of measuring fatty acid and antioxidant vitamin concentrations in breast and gluteal adipose tissue samples from women with cancer. Total grant period: 7-01-98 to 12-31-01. %FTE = 10%. Total direct costs, \$169,043.

SEER, NCI-PC-95019-20. "The interaction of genetic susceptibility and hormonal exposures in breast cancer prognosis". R.N. Baumgartner(PI) . Description: This study looks at genetic markers that may influence prognosis of women with breast cancer in the New Mexico Women's Health Study. Submitted 03-02-99. Total grant period: 7-01-99 to 6-30-02. %FTE = 10%. Total direct costs, \$285,000.

SEER, NCI-CN-65034-29. "Weight, Physical Activity, Diet: Association with Occurrence and Prognosis for Invasive Breast Cancer among Post-Menopausal Women (HEAL Study): 2 Year Followup". RN Baumgartner(PI) . %FTE 10%. Total grant period: 10/1/98-9/30/01. Total direct costs, \$742,830.

SEER, NCI-CN-65034-29. "Weight, Physical Activity, Diet: Association with Occurrence and Prognosis for Invasive Breast Cancer among Post-Menopausal Women: Baseline (HEAL Study)". F. Gilliland(PI) ; RN Baumgartner (Co-PI). %FTE 10%. Total grant period: 9-30-96 to 08-31-98. Total direct costs, \$798,816.

R37 AG02049 - National Institute on Aging, "A Prospective Study of Nutrition in the Elderly", P. J., Garry(PI) ; RN Baumgartner (Co-PI). Total grant period: 12-01-92 to 11-30-97. %FTE = 5%. Total direct costs, \$1,451,513.

R01 AG10149 - National Institute on Aging, "Body Composition Changes in the Elderly". R.N. Baumgartner(PI) . Total grant period: 10-01-93 to 09-30-98. %FTE = 60%. Total direct costs, \$1,052,141.

R01 AG10941- National Institute on Aging, "New Mexico Survey of Health in Elderly Hispanics", R.D. Lindeman(PI) ; RN Baumgartner (Co-I). Total grant period: 04-01-96 to 03-31-97. %FTE = 15%. Total direct costs, \$231,839.

R01 AG10941S - National Institute on Aging, "Body Composition Supplement to New Mexico Survey of Health in Elderly Hispanics", RN Baumgartner(PI) ; R.D. Lindeman (Co-PI). Total grant period: 4-01-96 to 03-31-97 %FTE = 5%. Total direct costs, \$161,762.

R01 AG10941- National Institute on Aging, "New Mexico Survey of Health in Elderly Hispanics", R.D. Lindeman(PI) ; RN Baumgartner (Co-I). Total grant period: 10-01-92 to 09-30-95). %FTE = 5%. Total direct costs, \$1,098,710.

R29 AG08510 - National Institute on Aging. "Body Composition Methods for the Elderly". R.N. Baumgartner(PI) . Total grant period: 8-15-90 to 8-14-95. %FTE = 50%. Total direct costs, \$280,954.

R01 HD 12252 - National Institute of Child Health and Human Development. "Subcutaneous Fat, Blood Lipids and Health". A.F.Roche(PI) ; RN Baumgartner (Co-PI). Total grant period: 12-01-88-11-30-93. Total direct costs, \$3,388,599.

R01 HD 12252 - National Institute of Child Health and Human Development, "Subcutaneous Fat, Blood Lipids and Health". A.F. Roche(PI) ; RN Baumgartner (Co-I). Total grant period: 12-01-83-11-30-88. Total direct costs, \$1,916,767.

Ross Laboratories, Columbus, Ohio (no number). "Fels/Emory CT Body Composition Study" (\$5000). RN Baumgartner(PI) .

Ross Laboratories, Columbus, Ohio (no number). "Evaluation of the Reliability and Accuracy of New Calipers for Measuring Recumbent Knee Height in the Elderly", (\$3,900). RN Baumgartner(PI) .

Research Challenge Award, Wright State University (no number). "Identification of Intrauterine Malnutrition" (\$18,000). R.J. Hildebrandt(PI) ; RN Baumgartner (Co-I).

ISR00073 - Indian Health Service, DHHS, "Measurement of fat in adult Navajos by dual energy x-ray absorptiometry and validation for bioelectric impedance and anthropometry. P.I., Joseph Piepmeyer; RN Baumgartner (Co-I). Total grant period: 1-1-92-12-31-92. Total costs \$29,990.

PUBLICATIONS

Papers in peer-reviewed journals (37 cited > 100 times; Sum of citations=14,521 as of 6/2018; h-index=57)

1. Baumgartner RN, Pollitt E. The Bacon Chow Study: analyses of the effects of infectious illness on growth of infants. *Nutr Res* 2(1):9-21, 1983.
2. Smith RC, Baumgartner RN, Misra C, et al. Haloperidol: plasma levels and prolactin response as predictors of clinical improvement in schizophrenia. Chemical vs. radioreceptor plasma level assays. *Arch Gen Psychiat* 41:1044-1049, 1984.
3. Smith RC, Baumgartner RN, Ravichandran GK, et al. Plasma and red cell levels of thioridazine and clinical response in schizophrenia. *Psychiat Res* 12:287-296, 1984.
4. Baumgartner RN, Mueller WH A multivariate approach to analysis of morbidity data in human growth studies. *Hum Biol* 56(1):111-128, 1984.
5. Largen JW, Smith RC, Calderon M, Baumgartner RN, et al. Abnormalities of brain structure and density in schizophrenia as assessed from computed tomography. *Biol Psychiat* 19:991-1013, 1984.
6. Smith RC, Baumgartner RN, Ravichandran GK, et al. Lateral ventricular enlargement and clinical response in schizophrenia. *Psychiat Res* 14:241-253, 1985.

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152. Yang D, Baumgartner RN, Baumgartner KB. Impact of pain among Hispanic and non-Hispanic white long-term breast cancer survivors. 2013 Annual Meeting of the American College of Epidemiology, Louisville, KY. P16-S
153. Kerber RA, O'Brien EO, Baumgartner RN, Cawthon RM. MicroRNA expression and mortality in the Utah CEPH Families. 2013 Annual Meeting of the American College of Epidemiology, Louisville, KY. P57.
154. Boone SD, Baumgartner KB, Baumgartner RN, Connor AE, Pinkston C, John EM, Torres-Mejía MD, Hines L, Giuliano AR, Stern M, Wolff RK, Slattery ML. Associations between CYP19A1 polymorphisms and breast cancer risk: interactions with genetic admixture and hormone-related factors in Hispanic and non-Hispanic White women. Abstract/Poster for the 6th Annual AACR Conference on The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved, Atlanta, GA. December 6-9, 2013.
155. McKean-Cowdin R, Neuhaus ML, Baumgartner RN, McTiernan A, Baumgartner K, Ballard-Barbash R, Bernstein L. Short-term reduction in mammographic density predicts survival in breast cancer. Abstract/Presentation for the American Association for Cancer Research. Washington, DC, April 6-10, 2013.

Invited Presentations

- "In Vivo Body Composition Analysis". Department of Biochemistry, School of Medicine, University of New Mexico, Albuquerque, NM, October, 1990.
- "Body Composition Methodology". Department of HPPELP, University of New Mexico,

Albuquerque, NM, May, 1991.

- “New approaches to the assessment of body composition in elderly persons.” Symposium de Recherche en Nutrition et Gerontologie: Modeles de Denutrition chez la Personne Agée, Toulouse, France, June, 1991.
- “Imaging techniques and anatomical body composition.” Symposium on Body Composition and Aging, S.B. Heymsfield and S. Yasumura, organizers. FASEB, Anaheim, CA, May 1992.
- “Multicompartment body composition analysis: models and methods.” Departments of Exercise Physiology and Nutrition Science, University of Arizona, Tucson, AZ, September, 1992.
- "Assessment of body composition in human populations: what's wrong with the body mass index?". Epidemiology Reseach Seminar, University of New Mexico, 1993.
- “Body cell mass and fluid distribution”. Symposium on Body Composition: Research and Clinical Advances, S.B. Heymsfield and D. Matthews, organizers. Am Society Parenteral and Enteral Nutrition, San Diego, CA, February, 1993.
- “Anatomical body composition and aging”. Symposium on Body Composition: Research and Clinical Advances, S.B. Heymsfield and D. Matthews, organizers. Am Society Parenteral and Enteral Nutrition, San Diego, CA, February, 1993.
- "Bioelectric impedance and conductivity". Symposium on Controversies in Body Composition Assesement. A.F. Roche, organizer. Am College Sports Med, Indianapolis, May, 1994.
- “Prevalence and Correlates of Sarcopenia in Elderly New Mexicans”. Department of Epidemiology, Johns Hopkins School of Public Health and Hygiene, May, 1996.
- “Epidemiology of Sarcopenia in Elderly New Mexicans”. Interdisciplinary Program on Nutritional Sciences. University of Washington, Seattle, August, 1996.
- “Sarcopenia in the Elderly”. Human Nutrition Research Center. Tufts University, Boston, MA, October, 1996.
- “Sarcopenic-Obesity in the Elderly”. Department of Nutrition and Dietetics Seminar, University of Illinois at Chicago, March, 1998.
- “Nutritional Alterations in Aging”. Serono Symposium, USA. Current Developments in the Evaluation and Treatment of Malnutrition. Huntington Beach, CA, December, 1998.
- “Body Composition and Aging”. Nutrition & Aging XIII. Nutrition, Exercise and Aging Seminar. Dept. Veterans Affairs, John L. McClellan Memorial Veterans Hospital, Little Rock, AK, September 1998.
- “Body Composition and Aging”. Symposium on In Vivo Body Composition Methods. Brookhaven, NY, October 1999.
- “Epidemiology of Sarcopenia”. Summer Geriatric Symposium. St. Louis University School of Medicine, July 2000.
- "Epidemiology of Sarcopenia". Wake Forest University School of Medicine. May 2001.
- "Epidemiology of body fat distribution". FASEB Summer Research Conference, Snowmass, CO. August 2001.
- “Sarcopenia and sarcopenic-obesity”. Max K Horwitt Memorial Lecture. St. Louis University, June 6, 2003.
- “Centralized obesity”. American Society of Bariatric Physicians. Phoenix, AZ. June 2004.
- “Sarcopenic-obesity” American Society of Bariatric Physicians. Phoenix, AZ. June 2004.
- “Obesity” UNM School of Medicine Grand Rounds. June 2004.
- “Update on Obesity” UNM School of Medicine Grand Rounds. May 2005

- “Aging and Inflammation” NAASO Symposium on Life Cycle and Lifespan, Vancouver, Canada, October 19, 2005.
- “Obesity in the Elderly”. Session organizer and chair. Annual meeting of NAASO the Obesity Society, October 20-24, 2006.
- “Sarcopenic-Obesity”. Alberta Institute for Human Nutrition, University of Alberta. Edmonton, Alberta, CANADA. November 2006.
- “Methods of assessing muscle mass”. Pfizer, Inc., Groton, CT. November 2006.
- “Obesity and Cancer”, James Graham Brown Cancer Center, 2007
- “Sarcopenic-obesity and Cancer”, Canadian Society of Nutrition, Quebec, CANADA, 2008

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