

CURRICULUM VITAE**NAME: PAULA KAREN ROBERSON**

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ACADEMIC DEGREES:

B.S.	1974	Southern Methodist University, Dallas, Texas (mathematics and statistics)
Ph.D.	1979	University of Washington, Seattle, Washington (biomathematics)

PROFESSIONAL APPOINTMENTS:

1979-81	Mathematical Statistician and Chief, Biostatistics and Data Processing Group, Health Effects Research Laboratory, U.S. Environmental Protection Agency, Cincinnati, Ohio
1980-82	Adjunct Assistant Professor, Division of Biostatistics and Epidemiology, Kettering Institute of Environmental Health, College of Medicine University of Cincinnati, Cincinnati, Ohio
1982-93	Assistant Member, Division of Biostatistics, St. Jude Children's Research Hospital, Memphis, Tennessee
1985-91	Assistant Director, Division of Biostatistics, St. Jude Children's Research Hospital
1986-91	Vice-Chair, Biostatistics and Information Systems, St. Jude Children's Research Hospital
1988-89	Acting Chair, Biostatistics and Information Systems and Acting Director, Biostatistics Division, St. Jude Children's Research Hospital
1992-93	Visiting Assistant Professor, Preventive and Societal Medicine, University of Nebraska Medical Center, Omaha, Nebraska
1993-present	Associate Professor (1993-99)/Professor (1999-present), Department of Pediatrics, University of Arkansas for Medical Sciences, Little Rock, Arkansas (tenure granted 7/97)
1994-2016	Member, Arkansas Cancer Research Center
1995-2000	Director of Biostatistics, Arkansas Cancer Research Center
1997-2003	Associate Professor (1997-99)/Professor (1999-present) and Director, Division of Biometry, UAMS College of Medicine
2003-2004	Professor and Director, Division of Biostatistics, UAMS College of Medicine
2001	Member, Inaugural Faculty, UAMS College of Public Health
2001-2004	Professor and Chair <i>pro tem</i> , Department of Biostatistics, UAMS College of Public Health
2004-present	Chair, Biostatistics, Colleges of Medicine and Public Health, UAMS
2012-present	Statistician (Medicine), Geriatric Research Education & Clinical Center (GRECC), North Little Rock Campus of Central Arkansas Veterans Healthcare System (CAVHS) – part-time (1/8)

RESEARCH INTERESTS:

Statistical methods in biomedical research, design and analysis of clinical trials, nonparametric methods, variable selection

HONORS AND AWARDS:

Elected Fellow, American Statistical Association, 2000
 Elected Fellow, American Association for the Advancement of Science, 2014
 Faculty Inductee, Delta Omega Honorary Society in Public Health, Beta Delta Chapter, 2019
 Recipient, Founders Award, American Statistical Association, 2022

NATIONAL PEER-REVIEW/ADVISORY COMMITTEES:**NIH:*****Study Sections/site visit teams/special review groups for:***

National Cancer Institute, 1983-present (1993 - 5, 1994 - 3, 1995 - 1, 1996 - 3, 1998 - 2, 1999 - 4, 2000 - 2, 2001-1, 2002-1, 2003-1, 2004-1, 2006-1, 2007-1)

SEP to review Early Clinical Trials of New Anti-Cancer Agents with Phase I Emphasis (U01), July 2007

Member, Site visit team, renewal application of CCSG, UC Irvine Cancer Center, June 2008

Member, Site visit team, renewal application of CCSG, Siteman Cancer Center, Washington University, St. Louis, MO, January 25-27, 2010

Member, Site visit team, renewal application of CCSG, Wake Forest University Cancer Center, Winston Salem, NC, May 9-11, 2011

NCI Subcommittee-E (Epidemiology, Prevention, and Control), *ad hoc*, December 2003

SEP to review responses to RFA-CA-13-006, "NCI Experimental Therapeutics-Clinical Trials Network with Phase 1 Emphasis (ET-CTN) (UM1)," November 12, 2013

SEP to review responses to RFA-CA-14-012, "Cancer Intervention and Surveillance Modeling Network (CISNET) (U01)," April 1-2, 2015

SEP ZCA1 PCRB-C (M1) S to review R03 and R21 proposals, March 31, 2016

Member, Site visit team, renewal application of CCSG, Wake Forest University Cancer Center, Winston Salem, NC, May 16-18, 2016

Review panel for SPORC applications, February 7-8, 2017

SEP ZCA1 TCRB-Q (M1) P to review Program Project (P01) applications, February 12-13, 2020

National Heart Lung and Blood Institute, 1994-present (1 *ad hoc* in 1994, 3 in 1996, 1 in 1997, 2 in 1998, 3 in 1999, 2 in 2000, 1 in 2001, 2 in 2003, 1 in 2004, 1 in 2005, 1 in 2006 in addition to study sections noted below)

Clinical Trials Review Committee (CLTR), National Heart, Lung, and Blood Institute (NHLBI), 1994-1998
-- this NIH Study Section reviews all applications for NHLBI-sponsored multi-center clinical trials

NHLBI Ancillary Studies Special Emphasis Panel, 2001-02 (7 review meetings)

NHLBI Innovative Research Grant Review Committee, 2001-02 (3 review meetings)

Chair of SEP for "Prospective Investigation of Pulmonary Embolism Dx III (PIOPED III)," February 11, 2004

Chair of SEP for "Recovery Post Exercise: A Sub-study of the HF-ACTION Trial," June 2004

Chair of SEP for "The Strong Heart Study Phase V," January 6, 2005

Chair of SEP for "Prospective Investigation of Pulmonary Embolism Dx II/III (PIOPED II/III)," April 7, 2005

Chair of SEP for "The Strong Heart Study Phase V," revised application, September 13, 2005

SEP for "Summer Institute for Training in Biostatistics II (T15)," April 10, 2009

Chair of SEP for competitive renewal of "The Strong Heart Study," June 2010

Chair of SEP for "Summer Institute for Training in Biostatistics III(T15)," September 6, 2012

Chair of SEP ZHL1 CSR-H (F2) for "Summer Institute for Training in Biostatistics (R25)," October 20, 2015

SEP ZHL1 CSR-H (01) for Clinical Trials Coordinating Center, June 29, 2017 (CLTR Member Conflicts SEP)

SEP ZHL1 CSR-H (02), for NHLBI Clinical Trial Pilot Studies (R34), June 29, 2017

SEP ZHL1 CSR-H M1/M2, Clinical Trials Pilot Studies (R34) & CLTR Member Conflicts, March 29-30, 2018

SEP ZHL1 CSR-H F1/F2, Clinical Trials Pilot Studies (R34) & CLTR Member Conflicts, October 24, 2018

Chair of SEP ZHL1 CSR-R(F3) "Summer Institute for Research Education in Biostatistics (R25)," Nov 6, 2018

SEP ZHL1 CSR-H M1/M2, Clinical Trials Pilot Studies (R34), CLTR & R61 Conflict Meeting, March 1, 2019

Chair of SEP ZHL1 CSR-H(01)2, CLTR Member Conflicts, June 27, 2019

SEP ZHL1 CSR-H (F1) Phase I Clinical Trial and Member Conflicts: Clinical Trials (CLTR) and Single-Site and Pilot Clinical Trials (SSPT) Review Committees, November 6, 2019

SEP ZHL1 CSR-H (02) Clinical Trials SEP, June 22, 2020

SEP ZHL1 CSR-H (F1 & F2) Clinical Trials SEP, November 18, 2020

SEP ZHL1 CSR-H (M1 & M2) Clinical Trials SEPs, March 11-12, 2021

Chair of SEP 2021/10 ZHL1 CSR-A (02) R to review "Summer Institute for Research Education in Biostatistics and Data Sciences (R25)," July 15, 2021

NHLBI Single-Site and Pilot Clinical Trials Study Section, SSPT (JA) 1 2022/01, *ad hoc* member, October 27-28, 2021; 2022/05 SSPT (MA) 2, *ad hoc* member February 23-24, 2022 and June 22-23, 2022; standing member July 1, 2022 – June 30, 2025.

National Institute of Deafness and Communication Disorders, 1996

National Institutes of Health, Division of Research Grants, 1995; Center for Scientific Review, 2000 (3 SEPs or *ad hoc* service on Special Study Sections), 1 in 2004 in addition to those below

National Institute of Diabetes and Digestive and Kidney Diseases, 1987

National Institute of Neurological Disorders and Stroke

SEP to review applications for Neurological Emergencies Treatment Trials (NETT) Network Statistical and Data Management Center, September 2006

SEP to review Antiepilepsy Drug Effectiveness in Pediatric Epilepsy (trial/coordinating center), December 2006

SEP to review competitive renewal of Warfarin vs. Aspirin in Reduced Ejection Fraction (WARCEF) trial and statistical center, December 2006

SEP to review Specialized Programs of Translational Research in Acute Stroke (SPOTRIAS), December 2007

SEP to review Specialized Programs of Translational Research in Acute Stroke (SPOTRIAS), August 2008

SEP to review supplements to SPOTRIAS centers, June 2009

SEP to review "Clinical Trials in Motor Neuron Disease," January 2009

SEP to review revised application for "Clinical Trials in Motor Neuron Disease," April 2009

Ad hoc member NSD-K Study Section, June 23-24, 2011

SEP ZNS1 SRB-P (63) to review T-32 Training Grant applications, November 30-December 1, 2011

SEP ZNS1 SRB G (59) to review NeuroNEXT clinical trials applications, August 13, 2012

SEP ZNS1 SRB-P (68) to review T-32 Training Grant applications, December 12, 2012

SEP ZNS1 SRB-G (63) to review clinical trials applications for NeuroNEXT, January 7, 2013

SEP ZNS1 SRB-G (73) – NEURONEXT SEP, November 21, 2013

SEP ZNS1 SRB-G (71) – NSD-K SEP, November 21-22, 2013

SEP ZNS1 SRB-J (04) to review T-32 Training Grant applications, December 12-13, 2013

SEP ZNS1 SRB-L (02) to review K99/R00 application, July 31, 2015

SEP ZNS1 SRB-L (03) to review T-32 Training Grant applications, December 9-10, 2015

SEP ZNS1 SRB-C (03) to review applications for Data Coordinating Centers (DCC) for SIREN Network for Emergency Care Clinical Trials, December 2, 2016.

SEP ZNS1 SRB-B (58) to review T-32 Training Grant applications, October 30-31, 2017

SEP ZNS1 SRB-L (14) to review T-32 Training Grant applications, November 14-15, 2018

SEP ZNS1 SRB-A(26) to review responses to Clinical Trial Readiness for Rare Neurological and Neuromuscular Diseases (U01) (PAR-18-534), June 24, 2019

SEP ZNS1 SRB-G(38) to review responses to FOA: PAR18-422 NINDS Efficacy Clinical Trials (U01), April 13, 2021

SEP 2021/10 ZNS1 SRB-A (44) for responses to PAR-19-220: Clinical Trial Readiness for Rare Neurological Diseases (U01), June 21, 2021

NIH/CSR Clinical Oncology Study Section (CONC), *ad hoc* member, November 2006

Member, July 1, 2008-June 30, 2012

NIH/CSR Epidemiology and Disease Control Subcommittee 2 (EDC-2), *ad hoc*, 2002

NIH/CSR Cancer Biomarkers Study Section (CBSS), *ad hoc*, October 2003, February 2005, June 2008

NIH/CSR Member Conflict SEP: Biomedical Imaging and Imaging Technology ZRG1 SBIB D02, June 2005

NIH/CSR Quick Trials SEP: ZRG1 SBIBA 50 CSR SEP-CSR Special Emphasis PanelA to review responses to PAR-05-114: Quick-Trials for Imaging and Image-Guided Interventions, October 2005, March 2006, June 2006, September 2006, February 2007 (2 meetings)

NIH/CSR SEP to review ARRA competitive revisions R01 grants (ZRG1OTC-Y 95 S), May 17, 2009

NIH/CSR SEPs to review ARRA RC1 applications (mail reviewer), June 2009:

2009/10 ZRG1 BDA-A (58) R - RFA OD09-003 Challenge Grant Panel #10

2009/10 ZRG1 SBIB-V (58) R RFA OD-09-003 Challenge Grants Panel # 23

NIH/CSR SEP ZRG1-OTC-W - Member Conflict: Cancer Therapeutics, July 11, 2012

NIH/NCRR Panels to review applications for new Clinical and Translational Science Awards (CTSA), February 23-24, 2010; February 22-23, 2011.

NIH/NCATS panel for 2nd phase review of applications to NIH-Industry Pilot Program: Discovering New Therapeutic Uses for Existing Molecules, February 13-14, 2013

NIH/NCATS SEP ZTR1 CI-8 01to review applications for the Rare Diseases Clinical Research Consortia (RDCRC) for Rare Diseases Clinical Research Network (U54), March 11-13, 2014

NIH/NCATS panel to review applications for Coordination Center for the CTSA Program, March 15, 2017

NIH/NCATS SEP ZTR1 RD-3 (01) to review applications for the Rare Diseases Clinical Research Network (RDCRN) Data Management and Coordinating Center (DMCC) (U2C), February 27, 2019

NIH/NCATS SEP 2022/05 ZR1 CI-9 (01) 2 to review applications for CTSA awards, January 26-27, 2022

NIH/NIGMS ZGM1 RCB-2 (C1) panel to review applications for Phase I COBRE centers, June 18-19, 2020

Centers for Disease Control (CDC):

Panel to review CDC Grants for Public Health Research Dissertation (R36), November 19, 2009

Special Emphasis Panel: DD14-001: Surveillance and Research of Muscular Dystrophies and Neuromuscular Disorders, April 22-24, 2014

SEP for DD19-002: The Muscular Dystrophy Surveillance, Tracking, and Research Network (MS STARnet)

Teleconference review, April 2-3, 2019

Advisory/Monitoring Committees:

NICHD Maternal-Fetal Medicine Research Network Advisory Board, 1997-1999

Data and Safety Monitoring Boards (DSMBs):

Optimizing Primary Stroke Prevention Trial in Sickle Cell Anemia (STOP II) (NHLBI sponsored), 2000-2005

Transfusion Medicine/Hemostasis Clinical Trial Network (TMH CTN) (NHLBI sponsored), 2005-2014

Transfusion Trigger Trial for Functional Outcomes in Cardiovascular Patients Undergoing Surgical Hip Fracture Repair (FOCUS) (NHLBI sponsored), 2005-2011

Stroke With Transfusions Changing to Hydroxyurea (SWITCH) Trial (NHLBI sponsored), 2005-2010

Chronic Hypertension and Pregnancy (CHAP) (NHLBI sponsored), 2015 - 2022

Sickle Cell Domestic Trials; January 2019 – present (current trials - comparison of individualized vs. weight based protocols to treat vaso-occlusive episodes in Sickle Cell Disease (COMPARE VOE) 2019 - 2022; Sickle Cell Disease Treatment with Arginine Therapy (STArT) 2021 - present)

All-Extremity Exercise as a Novel Strategy for Optimizing Cardiovascular Function During Chemotherapy for Breast Cancer – NIH grant R21 HL 152264, University of Florida, 2021-present – DSMB Chair

Observational Study Monitoring Board (OSMB) for CHAP Maternal Follow-up Study 2022 - present

Protocol Review Committee (**Chair**), NHLBI funded multi-center trial: Chronic Hypertension and Pregnancy (CHAP); November 2014 – April 2015

OTHER:

External reviewer for Institute of Medicine (IOM)/National Research Council (NRC) report *The Program for Research in Military Nursing: Progress and Future Direction*, March 1996

CDC Prostate Cancer Study Group Meeting, November 19, 1999, Atlanta, GA

Oklahoma Center for the Advancement of Science & Technology (OCAST), reviewer for FY07 Health Research Competition, April 22-24, 2007; progress report reviewer July 2008; panel chair/reviewer for Nutrition/Public Health Panel, FY09 Health Research Competition, April 26-28, 2009; progress report reviewer June 2009; reviewer for FY10 Health Research Competition, May 24-25, 2010; progress report reviewer May 2010 and December 2010; panel chair/reviewer for Instrumentation/Data Sciences/Clinical Evaluation Panel, FY11 Health Research Competition, April 18-19, 2011; progress report reviewer May 2011; reviewer for Internship Program, April 22, 2012; reviewer for FY12 Health Research Program, April 22-23, 2012; annual progress report reviewer for Health Research Program May 2012, September 2012, May 2013; annual progress reviewer for Internship Program July 2013; final project report reviewer, Health Research Program, January 2014, May 2014 and August 2016; annual progress report reviewer for Health Research Program May 2014, August 2014, July 2015.

AAAS Research Competitiveness Program, reviewer for Washington State Life Science Discovery Fund, 8/1/07

External reviewer in GrantSeekers program, University of Texas Health Sciences Center, San Antonio, February 21, 2014 and June 13, 2014

DSMB for Neurofibromatosis Clinical Trials Consortium trial NF111: A Phase II Trial of Poly-ICLC for Progressive, Previously Treated Low-Grade Gliomas in Children and Young Adults with Neurofibromatosis Type, 2021-present.

PRE-DOCTORAL EXPERIENCE:

1974-75 Teaching Assistant, Department of Biostatistics, University of Washington (UW)

1975-76 Research Assistant, Coordinating Center for Coronary Artery Surgery Study (**CASS**), UW

1976-79 Pre-doctoral Trainee, Department of Biostatistics, University of Washington

PROFESSIONAL SOCIETIES:

American Statistical Association

Chair, Council of Chapters, 1998 (Chair-Elect, 1997; Past-Chair, 1999)

Secretary/Treasurer, Council of Chapters, 1991-96

Council of Chapters Nominating Committee (Chair), 1993

Committee on Membership, 1992-00

Committee on Nominations, 1999-00 (Chair 2000); 2019

Chapter Representative, Western Tennessee Chapter, 1989-90

President, Central Arkansas Chapter, 1995-97

Representative to the Joint Committee on Women in the Mathematical Sciences, 2011-2017 (co-chair 2012-14)

Committee on Women in Statistics (*ex officio*), 2015

Representative to the ASA Board of Directors (Council of Chapters), 2016-18

Mentoring Award Committee, 2016-2020

Caucus of Academic Representatives, 2015-2021

Gertrude M. Cox Scholarship Award Subcommittee (*ex officio*), 2016

Strategic Plan Review Committee, 2018
 Founders Award Committee, 2019
 Constitution and Bylaws Review Task Force, 2020
 International Biometric Society
 Regional Advisory Board, ENAR, 1984-86, 1991-93
 Committee on Membership, ENAR, 2001-02 (Chair, 2001)
 Caucus for Women in Statistics
 President, 2015 (President-Elect, 2014; Past-President, 2016)
 American Association for the Advancement of Science
 Member-at-Large, Section Committee, Section U: Statistics, 1995-99
 Society for Clinical Trials
 American Society of Clinical Oncology
 American Public Health Association
 Association for Clinical and Translational Science (BERD Special Interest Group)
 Association of Clinical and Translational Statisticians
 North American Biostatistics Chairs (NABC) – Leadership Team, July 2021 – June 2024

COMMUNITY SERVICE

Presbyterian elder since 1985. Member of Session at Evergreen Presbyterian Church, Memphis, TN 1985-87 and 1989-91; Clerk of Session for 1987 and 1991. Junior Hi Youth Group leader, 1982-84. Also served on numerous committees including Administrative Committee, Christian Education Committee, Church Officer Nominating Committee, Youth Advisory Committee (Chair), Witness/Service Committee, R&R Weekend Planning Committee, and Evergreen-Martin Memorial Joint Activities Committee (Chair). Member of Session at 1st Presbyterian Church, Little Rock, AR 1995-97 (Clerk 1997); Chair of Worship Committee 1995-96; Member of Stewardship and Planning Committees 1997. Worship Committee - Presbytery of Arkansas 1998-01 (Secretary, 1999-01). Member of Belonging Ministry, 2nd Presbyterian Church, 2009-14. 3rd/4th grade camp counselor – Memphis Presbytery, 1989. Worked with Habitat for Humanity projects in Memphis (1992) and Little Rock (1994, 1997). Volunteer, Quapaw Home Tour, May 1998, May 1999. Volunteer at Forest Park Elementary School, Little Rock, AR, 1994-2000. Oversight Committee, ‘You’ve Got the Power’, Planned Parenthood of Arkansas/ E Oklahoma, Inc., 2000-04. Reading Tutor, Martin Luther King Elementary School, Little Rock, AR Kids Read Program, 2013-14.

EXTERNAL FUNDING:

CURRENT: (Title, PI, source, dates, total direct costs, my role, percent support)

Data Coordinating and Operations Center (DCOC) for the IDEa States Pediatric Clinical Trials Network. PIs: Lee, JY. & Snowden J. NIH 1U24OD024957, 09/21/16 -- 08/31/25. Annual direct cost \$7,882,805. **Co-Investigator**, 10%.

Expanding Translational Research in Arkansas. PI: James, L. 1UL1 TR003107, 07/01/19-06/30/24. Annual direct cost \$2,836,360. **Section Leader**: Biostatistics, Epidemiology, and Research Design Section, 20%.

Center for Childhood Obesity Prevention. PI: Weber J. NIH/NIGMS P20GM109096-06. 09/01/21 – 07/31/26. (FY2021 Center total funding \$2,338,700, direct cost \$1,593,476; Core total cost FY2021 \$231,514). **Interim Core Director** 15% until 8/31/2022, then **Co-Investigator** 10%.

PREVIOUS (At UAMS):

An Evaluation of Arkansas KIDS FIRST, Casey P, CDC, 10/1/94-9/30/96, \$129,000, **Biostatistician**, 5% (dropped in January 1996 when my effort with the ACRC increased)

Office of Health Care Research, Fiser DH, ACH, 3/1/94-2/28/96, \$368,155, **Consulting Biostatistician**, 10% (dropped in January 1996 when my effort with the ACRC increased)

The Lower Mississippi Delta Nutrition Intervention Research Initiative, Casey P, USDA/ARS, 01/01/95-12/31/96, \$235,000, **Biostatistician**, 10% (dropped in January 1996 when my effort with ACRC increased)

Outcome Evaluation in Emergency Medical Services for Children, Fiser DH, MCHB, \$292,035, **Statistician**, 5% (project ended)

Management of Psychosocial Problems in Primary Care, Kelleher K, NIMH, 6/1/94-5/31/97, \$1,688,394, **Senior Statistician**, 5% (Dr. Kelleher moved project to Pittsburgh with him)

Educational Research Grants from The Upjohn Company and Galaxo, Inc. totaling \$2000 in 1994 toward development of Research Skills Course - with J. M. Tilford

Quality & Cost Containment in Pediatric Intensive Care, Tilford JM, AHCPR, 9/1/95-8/31/98, \$656,635, **Co-Investigator**, 5% (30% yr. 3) (Dropped 01/97 when ACRC responsibilities increased to 100%)

Network of Pediatric Pharmacology Research Units, Wells TG, NICHD, 3/21/94-12/31/98, \$1,140,299, **Biostatistician**, 14% (Dropped 01/97 when ACRC responsibilities increased to 100%)

Pain in Cognitively Impaired Children: What Do We Know?, Fanurik D, NINR, 10/1/94-9/30/96, \$336,273, **Co-Investigator**, 5% (Project ended)

The Arkansas Clinical and Developmental Toxicology Program, Badger T, USEPA, 7/1/94-6/30/99, \$2,800,000, **Co-Investigator**, 6% (25% 7/1/94-7/1/95; 10% 7/1/95-12/31/95) (Dropped 01/97 when ACRC responsibilities increased to 100%)

Cancer Center Planning Grant, Westbrook KC, NCI, 07/01/94-06/30/96, \$528,348, **Director of Biostatistics Shared Resource (Core PI)**, 40% (Grant ended)

The PATCH Project: Preventing Addiction to Tobacco. Stotts RC, NIH, 01/01/98-12/31/01, \$1,066,225, **Investigator**, 5% (my funding ended 6/30/00 due to budget cuts)

Prostate Cancer: Exposure, Susceptibility and DNA Adduct. Lang N, NIH R01 AG15722, 9/30/97-8/31/02, \$1,224,424, **Biostatistician**, 10% (my funding ended 6/30/00 due to budget cuts)

Dietary Protein Requirements of Elderly Men and Women. Campbell WC. NIH R01 AGxxxxx, 04/01/99-03/31/03, \$xxx,xxx, **Biostatistician**, 5% Y1-3, 10% Y4 (my funding ended 6/30/00 due to PI moving to another university out of state and taking grant with him)

Molecular and Cellular Mechanisms of Osteoporosis, Manolagas SC, NIH P01 AG13918, 07/01/96-06/30/01, \$5,375,392, **Statistician and Member, Administrative Shared Resource**, 14% (current funding period of this P01 is listed in current support above).

Molecular and Cellular Mechanisms of Osteoporosis. PI: Manolagas, SC. NIH P01 AG13918, 07/01/01-06/30/06, \$7,529,182, **Statistician and Member, Administrative Shared Resource**, 13%.

Physiologic Effects of PRMST and Testosterone in the Debilitated Elderly. Sullivan DH, VA Merit #xxxxx, 10/1/98-9/30/03, \$602,600, **Statistician**, Y1 8%, Y2-4 5%, Y5 15%.

Resistance Training and Diet in Patients with Chronic Renal Failure. Evans W, VA Merit #####, 04/01/00-03/31/05, \$770,000, **Statistician**, 5%.

UAMS Alzheimer's Disease Core Center. PI: Beck C. NIH P30 AG019606-06, 9/30/01-6/30/06. \$791,368/Y5 direct costs, \$1,039,181/Y5 Total, \$3,751,253 total direct costs. **Interim Director, Biostatistics and Data Management**. 5% year 5.

General Clinical Research Center (GCRC). PI: Reece EA (previously Wilson, ID). NIH 1M01 RR14288 08/01/99-03/31/06. **GCRC Statistician**, 15% all years (reduced from 20% in 2004).

Effect of Activities and Exercise on Sleep in Dementia. PI: Richards, Kathy C. NIH R01NR07771-01A1, 8/01/02-7/31/07. Requested Direct Costs: Y1: \$340,041/Total \$1,703,666. **Statistician**, Y1 10%, Y2-4 5%, Y5 20%.

Metabolic Mechanisms Limiting and Protecting Longevity. PI: Shmookler Reis, RJ. NIH/NIA P01 AG020641, 2/15/03-1/31/08. Requested Direct Costs: Y1: \$1,456,350/Total Y1-Y5: \$7,216,036; awarded Y1:\$1,061,047. **Biostatistician**. 8% until 8/01/06; then 3.3%.

UAMS Clinical Research Center. PI: Kern, P. UAMS institutional funds. 4/01/06-6/30/08. **Biostatistician**. 15%.

CNS Development & Alcohol: Microglia-Neuron Interactions. PI : Kane, C. NIH/NIAAA 1R01 AA0146451-03, 07/01/04 - 06/30/09. \$950,000 total direct costs. **Biostatistician**. 5% 1/01/07-06/30/08.

Sleep Fragmentation and Attention in Alzheimer's Disease. PI: Cole, CS. NINR K23 NR009492-01A1, 07/01/06-06/30/09. Total direct costs: \$264,764. **Biostatistician**. 5% year 3.

Effect of Tai Chi on Osteoarthritic Knee Pain in Elders with Mild Dementia. PI: Tsai, P-F. NINR 1R21NR010003-01A2, 09/28/2007-5/31/2009. Total direct costs: \$275,000. Co-Investigator. 5% all years.

Therapeutic Computer Activity Intervention in Alzheimer's Disease. PI: Tak, SH. NINR 1R15NR010410-01, 10/01/07-9/30/09; no cost extension through 5/31/10. Total direct costs: \$150,000. **Biostatistician**. 1% all years.

Molecular and Cellular Mechanisms of Osteoporosis. PI: Manolagas, SC. NIH P01 AG013918, 07/01/06-05/31/11, \$7,529,182, **Statistician and Member, Administrative Shared Resource**, 10%.

Center for Research on Tailored Biobehavioral Interventions. PI: McSweeney, J (Richards, KC until July 2007). NIH P20 NR009006-01, 9/01/04-6/30/09. \$200,000/Y1 direct costs/ \$1,061,827 total direct costs. **Biostatistician**. 20% all years (no cost extension through 6/30/11; effort reduced to 3%).

Embolic Stroke Treatment with Microbubbles, a Novel Clot Lysis Therapy. PI: Culp, W. NIH R01 HL082481, 12/01/05 - 1/31/11. Annual direct costs \$340,000. **Statistician**. 10%.

Regulatory Ubiquitination in Immune Senescence. PI: Ponnappan, U. NIH/NIA 1R01 AG AG025220. 4/01/07-3/31/12. \$250,000/year; \$1,250,000 total direct costs. **Biostatistician**. 4.2% all years.

Manifestations, causes and consequences of PEU in elderly TCU residents. PI: Sullivan, D. VA HSR&D Project #: IIR 04-298-2 (VA HSR&D and VA CSR&D co-funded), 10/01/05-4/30/12. Annual direct cost: \$509,748. **Statistician**, 10% Y1, 5% Y2-4, 20% Y5.

Modulation of Immune Senescence by Induction of Ubiquitin-proteasome Systems. PI: Ponnappan, U. NIH/NIA R01 AG030599. 04/01/2008-03/31/2013. **Biostatistician**. 2.5% all years.

Arkansas Claude Pepper Older Americans Independence Center (OAIC) at UAMS, PI: Wei, J. NIH 1 P30 AG028718-01A2, 9/01/11 - 8/31/16, \$3,795,741 (total direct costs – 5 years). **Director, Resource Core 1: Biostatistics and Data Management Core**, 10%.

Arkansas Center for Clinical and Translational Research, PI: James, L. NIH UL1 TR000039 (formerly 1 U54 RR025209-01A1), 07/14/09-03/31/16, \$13,767,450 (total direct costs – initial 5 years). **Section Leader: Biostatistics, Epidemiology, and Research Design Section**, 20 - 15% all years.

Molecular and Cellular Mechanisms of Osteoporosis. PI: Manolagas, SC. NIH/NIA P01 AG013918-16A1, 05/01/12-04/30/17, \$1,499,999 annual direct cost (requested). **Statistician and Member, Administrative Shared Resource**, 10%.

Arkansas Center for Clinical and Translational Research, PI: James, L.; institutionally funded, 04/01/16-09/14/17. **Section Leader: Biostatistics, Epidemiology, and Research Design Section**, 20%.

Expanding Translational Research in Arkansas. PI: James, L. 1U54TR001629-01A1, 09/26/17-08/31/19. **Section Leader: Biostatistics, Epidemiology, and Research Design Section**, 20%.

Birth Defects Study to Evaluate Pregnancy Exposures (BD-STEPS) II. PI: Nembhard, W. CDC U01DD001229, 09/01/18 – 08/31/23, Total costs: \$4,575,282. **Statistician**, 1.67% (07/01/2019 – 06/30/2020).

Birth Defects Study to Evaluate Pregnancy Exposures (BD-STEPS) II – Stillbirth Study. PI: Nembhard, W. CDC U01DD001229, 09/01/18 – 08/31/23, Total costs \$1,241,074. **Statistician**, 1.67% (07/01/2019 – 06/30/2020).

Synthetic Cannabinoid Toxicity: Role of Biotransformation. PI: Prather, P. NIH/NIDA 1R01-DA039143, 05/15/2016 – 04/30/2021, \$371,194 (annual Direct costs, Year 1). **Statistician**, 5%.

Early Events in Alzheimer Pathogenesis. PI: Griffin, ST. NIH/NIA P01AG012411, 06/01/1995 – 05/31/2021, Total costs – 06/01/2016 – 05/31/2021 \$10,554,383. **Statistician**, 3.44% (07/01/2019 – 05/31/2021).

Center for Childhood Obesity Prevention. PI: Weber J. NIH/NIGMS P20GM109096. 08/01/16 – 07/31/21. (FY2020 Center Direct Cost: \$1,728,366; \$1,869,716 total; Core FY2020 total cost \$301,219). Interim Core Director 2020-2021 10%.

PUBLICATIONS:

Dissertation

Distributional and Robustness Problems in Time-Space Disease Clustering

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66. Culp WC, Porter TR, Lower J, Roberson PK, Xie F, McCowan TC. Intracranial clot lysis with intravenous platelet targeted microbubbles and transcranial ultrasound. Accepted for oral presentation Am Heart Assoc., Orlando, FL, Nov. 9-12, 2003.
67. James CA, Wright LB, Roberson PK, Moore MB, Buckmiller LM, Waner M. Pre-operative venous malformation sclerotherapy. International Society for the Study of Vascular Anomalies, February 2004, Wellington, New Zealand (accepted for poster presentation).
68. Rodgers, Culp, Baber, Reinholtz, Matchet, McCowan, Roberson. Percutaneous renal biopsies and hemorrhage in multiple myeloma. Soc. for Interventional Radiology, 2004.
69. Bhutta ST, James CA, Roberson PK, Martin C, Moore MB. Challenging infant PICCs: does a procedural fluid bolus increase vein size? Society of Pediatric Radiology, 2004.
70. Roberson PK, Culp WC. Comparison of Sequential and Multi-stage Designs for Selecting Promising Therapeutic Modalities for Stroke in Pre-clinical Experiments. Joint Statistical Meetings, Toronto, August 2004.
71. Schmitz ML, Siddiqui MS, Ullah S, Roberson PK, Killebrew P, Drummond-Webb JJ. A quantitative assessment of a device designed to digitally enhance infrared imaging of peripheral veins. Association of University Anesthesiologists, 52nd Annual Meeting, Baltimore, Maryland, May 2005.
72. Schmitz ML, Siddiqui MS, Ullah S, Roberson PK, Harea J, Onisei AM, Killebrew PM, Pierce CD. Digitally enhanced infrared imaging of peripheral veins in children. American Academy of Pediatrics National Conference and Exhibition, October 2005, Washington, DC (accepted).
73. Schmitz ML, Siddiqui MS, Ullah S, Roberson PK, Killebrew PM. A quantitative assessment of a device designed to digitally enhance infrared imaging of peripheral veins. American Society of Anesthesiologists, 2005 Annual Meeting, New Orleans, Louisiana, October 2005 (accepted).
74. Parfitt AM, Weinstein R, Bellido T, Jilka R, O'Brien C, Kousteni S, Stewart S, Roberson P, Manolagas SC. Age-related Loss of Bone Strength in the Spine and Hindlimb of Mice Independently of BMD. SBMR, Nashville, 2005.
75. Richards KC, Roberson P, Lambert C, Simpson K. Predictors of Nighttime Total Sleep in Elders with Dementia. 20th Anniversary Meeting of the Associated Sleep Societies, Jun 17-22, 2006, Salt Lake City, Utah.
76. Culp WC, Brown A, Lowery J, Culp BC, Erdem E, Roberson P, Matsunaga T. Safety of High Dose Microbubbles and Transcranial Ultrasound in Healthy Rabbits. Sixth International Symposium on Therapeutic Ultrasound, August 30 – September 2, 2006, Oxford, UK.

77. Chen X, Stewart SA, Roberson PK, Wynne R, Manolagas SC, Jilka RL. Gene Expression Patterns in Response to Daily Injections of PTH to Mice: Evidence for Priming by the Initial Dose. SBMR, Sept 2006, Philadelphia, PA.
78. Stewart SA, Roberson PK, Goellner JJ, Lowe V, Shelton RS, Manolagas SC, Weinstein RS. Different Types of DEXA Instruments Give Significantly Different Estimates Depending on the Skeletal Site and the Magnitude of the BMD: a Murine Analysis Relevant to Multi-Center Clinical Studies. SBMR, Sept 2006, Philadelphia, PA.
79. Sidhu MK, James CA, Harned II RK, Connolly BL, Dubois J, Morello FP, Kaye R, Siddiqui NJ, Roberson PK, Seidel KD. The State of Pediatric Interventional Radiology: Workforce Survey. SPR, 2007.
80. Dennis RA, Johnson LE, Roberson PK, Heif M, Bopp MM, Cook J, Sullivan DH. Associated changes in systemic inflammation, prealbumin, and nutrient intake in elderly recuperative care patients. Am Geriatrics Society, May 2007, Seattle, WA.
81. Johnson LE, Dennis RA, Roberson PK, Heif M, Bopp MM, Cook J, Sullivan DH. The interrelationship among inflammatory markers, serum albumin, and death in elderly transitional care patients. Am Geriatrics Society, May 2007, Seattle, WA.
82. Culp WC, Brown AT, Hennings L, Atherton ME, Flores R, Lowery J, Roberson Paula. Comparison of ultrasound augmented thrombolysis with tPA in a rabbit stroke model. International Stroke Conference 2008, February 20-22, New Orleans, LA. Accepted for poster presentation.
83. Cole CS, Richards KC, Beck C, Roberson PK, Lambert C, Furnish A, Free J, Tackett J. The Relationships Among Cognition, Functional Performance, and Sleep in Nursing Home Residents with Dementia. SLEEP 2008: 22nd Annual Meeting of the Associated Professional Sleep Societies, LLC, June 7-12, 2008, Baltimore, MD. Accepted for poster presentation.
84. Weinstein RS, O'Brien CA, Roberson PK, Manolagas SC. Endogenous glucocorticoids are critical for the development of skeletal fragility with aging in mice. Presented at American Society for Bone and Mineral Research annual meeting, September 2008 (Abstract 1250).
85. Jilka RL, O'Brien CA, Ali AA, Roberson P, DeLoose A, Dusevich V, Bonewald L, Weinstein RS, Manolagas SC. Post-mitotic preosteoblasts are the targets of the anabolic actions of intermittent PTH on periosteal bone. Presented at American Society for Bone and Mineral Research annual meeting, September 2008 (Abstract 1157).
86. Richards, Lambert, Beck, Evans, Bliwise, Kleban, Roberson, Sullivan. Social Activity and Exercise Increase Total Sleep Time: A Randomized Controlled Trial. Submitted to GSA April 7, 2009.
87. Cooney CA, Rafferty TM, Siegel ER, Roberson PK, Shmookler Reis RJ. Supranormal longevity in mice by normalization of food consumption among epigenetic phenotypes. American Aging Association, 38th annual meeting, Scottsdale, AZ, May 29 - June 1, 2009. Abstract #15 (page 36), 2009 Final Program (http://www.americanaging.org/2009_Final_Program.pdf)
88. Sullivan DH, Garner K, Johnson L, Roberson PK, Bopp MM, Dennis R: Changes in Activities of Daily Living, Nutrient Intake and Systemic Inflammation in Elderly Patients. The Gerontologist (Suppl) 50 (II):xxx; 2010.; accepted for presentation, New Orleans, November 2010.
89. Culp WC, Lowery JD, Brown AT, Hennings LJ, Roberson PK, Hatton JH, Woods SD, Flores R, Borrelli MJ. Successful Microbubble Sonothrombolysis without Tissue Plasminogen Activator in a Rabbit Model of Acute Ischemic Stroke. Accepted to American Heart Association Scientific Sessions, Abstract 12635, November 14, 2010, Chicago, IL; Circulation 2010.
90. Culp WC, Flores R, Lowery JD, Woods SD, Roberson PK, Brown AT, Skinner R, Johnson JLH, Unger EC;. Improved Infarct Size Using Intravenous Dodecafluoropentane Emulsion in Rabbits with Permanent Cerebral Artery Occlusion Submitted to ISC, Aug 2010.
91. Weinstein R, O'Brien C, Zhao H, Roberson PK, Manolagas S. Osteoprotegerin Prevents Glucocorticoid-induced Osteocyte Apoptosis, Decreased Bone Interstitial Fluid, and Reduced Strength in Mice. Poster Sessions, Presentation Number: MO0277, ASBMR 2010, Toronto, Canada.

92. Jilka R, Almeida MJ, Ambrogini E, Han L, Roberson P, Weinstein R, Manolagas S. Decreased Oxidative Stress and Greater Bone Anabolism in the Aged, as Compared to the Young, Murine Skeleton by Parathyroid Hormone. Poster Sessions, Presentation Number: FR0421, ASBMR 2010, Toronto, Canada.
93. Hennings L, Flores R, Roberson P, Brown A, Lowery J, Borrelli M, Culp WC. Persistent Penumbra in a Rabbit Stroke Model at 24 Hours: Incidence and Histologic Characteristics. Accepted to International Stroke Conference – American Heart Association, November 22, 2010, Los Angeles, California.
94. Culp WC, Lowery J, Flores R, Brown A, Hennings L, Roberson PK, Woods S, Hatton JH, Skinner R, Borrelli M. Three Variations of an Angiographic Rabbit Model of Acute Embolic Stroke. Accepted to International Stroke Conference – American Heart Association, November 22, 2010, Los Angeles, California.
95. Culp WC, Roberson PK, Woods SD, Flores R, Lowery JD, Skinner RD, Brown A, Borrelli MJ. Dodecafluoropentane emulsion decreases infarct volume in a rabbit ischemic stroke model. Submitted to 36th Annual Scientific Meetings - Society for Interventional Radiology, March 26-31st, Chicago, Illinois.
96. Culp WC, Brown AT, Lowery JD, Roberson PK. Successful microbubble stroke sonothrombolysis with tPA in rabbits. 16th European symposium on ultrasound contrast imaging: accepted to ICUS Conference, January 20-21, 2011, Rotterdam, Netherlands.
97. Culp WC, Brown AT, Lowery JD, Woods SD, Erdem E, Roberson PK. Model choice in microbubble sonothrombolysis using two rabbit angiographic stroke models. Accepted (poster) to XXVth International Symposium on Cerebral Blood Flow, Barcelona, Spain, May 24-28, 2011.
98. Culp WC, Brown AT, Borelli MJ, Skinner RD, Roberson PK, Woods S, Lowery JD, Hennings L. Dodecafluoropentane emulsion decreases infarct volume in a rabbit ischemic stroke model using permanent arterial occlusion. Accepted (poster) to XXVth International Symposium on Cerebral Blood Flow, Barcelona, Spain, May 24-28, 2011.
99. Bartell S, Warren A, Han L, Iyer S, Kim S, Katzenellenbogen B, Chambliss K, Shaul P, Katzenellenbogen J, Roberson P, Weinstein R, O'Brien C, Jilka R, Almeida MJ, Manolagas S. An estrogen dendrimer conjugate incapable of stimulating the nuclear-initiated actions of estrogen receptors prevents the loss of cortical bone mass in estrogen deficient mice. ASBMR, 2012, Minneapolis, MN.
100. Iyer S, Ambrogini E, Han L, Bartell S, Warren A, Crawford J, Roberson P, Weinstein R, O'Brien C, Almeida MJ, Manolagas S. Deletion of FoxO1, 3, and 4 from osteoprogenitor cells increases bone mass throughout life and attenuates adiposity in aged bone. ASBMR 2012, Minneapolis, MN.
101. Sullivan DH, Garner KK, Padala PR, Roberson PK, Padala KP, Johnson LE, Dennis RA, Dubbert PM, Bopp MM. Predictors of 1-year-post-inpatient rehabilitation in a cohort of geriatric patients. Submitted to American Geriatric Society, 2013 Annual Meeting, Grapevine, TX (submitted Dec 3, 2012); accepted for poster presentation on May 4, 2013.
102. Monti SM, Galica A, Novak P, Munshi M, Abduljalil A, Roberson PK, Manor B, Milberg W, Novak V. Cognitive Effects of Intranasal Insulin in Older T2DM Adult. Selected for poster presentation at American Diabetes Association's 73rd Scientific Sessions, June 21-25, 2013 in Chicago, Illinois. To be printed in the Scientific Sessions Abstract Book, the July 2013 supplement to the journal *Diabetes*®.
103. Padala KP, Padala PR, Dennis RA, Garner KK, Bopp MM, Dubbert PM, Roberson PK, Sullivan DH. Impact of Wii-Fit on Rehab in real world setting: A case control study. Poster presentation, 2014 Annual Scientific Meeting of the American Geriatrics Society, Orlando, FL; May 15-17, 2014.
104. Abraham RR, Wei J, Foster S, Schrader A, Roberson PK, Azhar G. A study of metabolic health in nonagenarian and centenarians in Arkansas. Poster presentation, 2014 Annual Scientific Meeting of the American Geriatrics Society, Orlando, FL; May 15-17, 2014.
105. Culp WC, Brown AT, Arthur MC, Lowery JD, Roberson PK., Skinner RD. Window for Stroke Therapy Effectiveness Extended by Dodecafluoropentane Emulsion in Rabbits. Submitted to SIR, Sept 2014.

106. Rodgers C, Topaloglu U, Roberson P, Azhar G, Fernando A, Wolfe R, Wei J. Comprehensive Research Informatics Suite (CRIS). Pepper Center Annual Meeting, April 2015.
107. Greer, WS, Roberson PK, McCarthy RE. A comparison of patients with shilla growing rods for early onset scoliosis. Submitted to Am Acad Orthopaedic Surg Annual Meeting, May 2015.
108. Greer, WS, Roberson PK, McCarthy RE. A comparison of patients treated with shilla growing rods for early onset scoliosis. Submitted to Mid-Am Orthopaedic Assoc Annual Meeting, June 2015.
109. James C, Pezeshkmehr A, Moore M, Roberson P, Braswell L. Fibrinolytic dosing in complicated pediatric pleural effusion. Submitted to Soc Ped Interv Radiol, 4th International Mtg, in July 2015. Mtg dates Oct 21-23, 2015.
110. Padala KP, Padala PR, Lensing SY, Dennis RA, Bopp MM, Parkes CM, Roberson PK, Sullivan DH. Home-based exercise program improves balance and fear of falling in community dwelling older adults with mild Alzheimer's disease. Accepted for oral presentation at 2017 AGS, May 2017, San Antonio, TX.
111. Jayappa S, Ali S, Schmitz KR, Buchmann RF, Lewis PS, Roberson PK, James CA. CT evaluation of prolonged pleural fibronolytic therapy for parapneumonic effusion. RSNA 2020 Virtual Meeting, 106th Annual Scientific Meeting, November 29 – December 5, 2020 (oral presentation).
112. James C; Lewis PS, Moore MB, Wong K, Roberson P, Ghaleb N, Pezeshkmehr A, Ashton D. IR therapy of parapneumonic effusion: a prospective study on a standardized tPA clinical pathway. Submitted to Soc Ped Interv Radiol, August 24, 2020, accepted for presentation. (presented in October 2020)
113. Sullivan DH, Nourani M, Lensing SY, Steele AM, Bopp MM, Sawyer LT, Roberson PK, Rhodes RL, Brown LM. Use of RTLS to obtain accurate estimates of individuals' movement in-hospital. 2021 American Geriatrics Society poster presentation (virtual), May 13 – 15, 2021; https://meeting.americangeriatrics.org/sites/default/files/inline-files/2021%20JAGS%20Abstract%20Supplement_2.pdf abstract A160, page S69.
114. Sullivan DH, Nourani M, Lensing SY, Bopp MM, Sawyer LT, Roberson PK, Rhodes RL, Brown LM. Use of RTLS to obtain accurate estimates of ambulation distance of individuals while in hospital. 2021 American Geriatrics Society poster presentation (virtual), May 13 – 15, 2021; https://meeting.americangeriatrics.org/sites/default/files/inline-files/2021%20JAGS%20Abstract%20Supplement_2.pdf abstract A186, page S78.
115. Rogers AL, Seminara EJ, Jin J, Murphy C, Sood A, Munoz-Mendoza D, Manegold EM, Whitaker BN, Roberson P, Jones SM, Scurlock AM. Assessment of anxiety, depression, and resilience in food-allergic adolescents and primary caregivers during the COVID-19 pandemic. Poster presented at (virtual) annual meeting of American Academy of Allergy, Asthma, and Immunology (AAAAI), February 26 – March 1, 2021 (authorship added to poster after abstract accepted)
116. Price AS, Ashton LR, Seminara EJ, Patel N, Samandi LZ, Jin J, Roberson PK, Whitaker BN, Manegold EM, Murphy C, Sood AK, Munoz-Mendoza D, Parrish CP, Bird A, Jones SM, Scurlock AM. A multi-center evaluation of anxiety, depression, and resilience in food allergic adolescents and primary caregivers during the COVID-19 pandemic. Submitted to AAAAI August 26, 2021; poster presentation February 25-28, 2022; Phoenix, AZ.
117. Patel N, Samandi L, Price AS, Rogers AL, Seminara EJ, Whitaker BN, Sood A, Munoz-Mendoza D, Jin, J, Roberson PK, Parrish C, Jones SM, Scurlock AM, Bird JA. A multicenter assessment of food allergy quality of life in adolescents and caregivers in relation to anxiety and depression during the COVID-19 pandemic. Submitted to AAAAI August 26, 2021; oral presentation February 27, 2022; Phoenix, AZ.

Other Reports

1. Gates N, Ross R, Currie D, Roberson P. Memphis Urban Mathematics Collaborative (MUMC) calculus research project: final report. Submitted to Superintendent, Memphis City Schools, September 18, 1992.

Referee for the Following Journals:

European Journal of Cancer	Journal of the National Cancer Institute
Medical and Pediatric Oncology	Archives of Internal Medicine
Journal of Clinical Oncology	Pediatric Hematology and Oncology
Breast Cancer Research and Treatment	Journal of Pediatric Psychology
Statistics in Medicine	Controlled Clinical Trials
Pediatric Blood & Cancer	BMC Public Health
American Journal of Physiology – Endocrinology and Metabolism	Contemporary Clinical Trials
Journal of AAPOS	PLoS ONE
Science Translational Medicine	The American Statistician
Journal of Oncology	Physiology & Behavior
	Indian Journal of Medical Research

Member of Editorial Advisory Board of Data Quality, 1994-2002.

Assistant Editor, Statistical Reviews: Medical and Pediatric Oncology, 2000-2003.

Editorial Review Board, ASA-SIAM Book Series, 2001-02.

Member of Statistical Advisory Board, *PLoS ONE*, May 2011 – present.

Teaching Activities

"Statistical Methods in Epidemiology," Division of Biostatistics and Epidemiology, Kettering Institute of Environmental Health, University of Cincinnati, Winter Quarter 1981. Co-taught with Stephen J. Samuels, Ph.D.

"Statistics and Introduction to the Use of Computers," College of Nursing, University of Tennessee Center for the Health Sciences, Fall Quarter 1983. Co-taught with other members of Biostatistics Division at St. Jude Children's Research Hospital.

"Clinical Biostatistics Short Course," St. Jude Children's Research Hospital, February 1988. Co-taught with other members of Biostatistics Division at St. Jude Children's Research Hospital.

"Research Skills," Department of Pediatrics, University of Arkansas for Medical Sciences, February-June 1994. Course developer, organizer and director. Also presented several lectures in this comprehensive 36 contact-hour course for research fellows.

"Clinical Epidemiology Workshop," Southern Society for Pediatric Research, February 2, 1995. 4-hour workshop. Co-leader with Larry Pickering, M.D. and Ardythe Morrow, PhD.

"Research Skills I: Biostatistics," Department of Pediatrics, University of Arkansas for Medical Sciences, March-May, 1995; 24 contact hour course for research fellows and junior faculty. Course developer, organizer and director; co-lecturer with Sarah Shema, MS Presented half of the lectures in this 24 contact-hour course.

"Basic Medical Biostatistics: An Introductory Course," four-day short course for UAMS residents, fellows, faculty, and research staff. One of four faculty (others: Martin Hauer-Jensen, MD, PhD(director), Bonnie Wallace, MSHA, Dan Ayers, MS). February 20-23, 1996.

Consultant to Department of Dietetics and Nutrition, College of Allied Health Professionals, University of Arkansas for Medical Sciences, to assist graduate students and dietetic interns with design and analysis of research projects, 1995. Lecture on "Bias and Sampling" in the Pediatrics CME course: "Research Skills II: Developing Grant and Journal Submissions," March 5, 1996.

"Basic Medical Biostatistics: An Introductory Course," four-day short course for UAMS residents, fellows, faculty, and research staff. One of four faculty (others: Martin Hauer-Jensen, MD, PhD(director), Bonnie Wallace, MSHA., Dan Ayers, MS). November 19-22, 1996.

“Introduction to Biostatistics,” Resident Grand Rounds, UAMS Department of Otolaryngology, May 20, 1997.

“The Importance of Data,” Department of Surgery Grand Rounds, UAMS. July 29, 1997.

Introduction to Biostatistics, 3 semester hour course in UAMS Graduate School, Fall Semester, 1997, 1998.

Lecture on “Sampling and Confounding” in the Pediatrics CME course: “Research Skills II: Developing Grant and Journal Submissions,” October 3, 1997.

“Basic Medical Biostatistics: An Introductory Course,” four-day short course for UAMS residents, fellows, faculty, and research staff. One of four faculty (others: Martin Hauer-Jensen, MD, PhD (director), Bonnie Wallace, MSHA, Dan Ayers, MS). November 1997.

“The Importance of Data,” Resident Grand Rounds, UAMS Department of Otolaryngology, December 9, 1997.

“Basic Medical Biostatistics: An Introductory Course,” four-day short course for UAMS residents, fellows, faculty, and research staff. One of four faculty (others: Martin Hauer-Jensen, MD, PhD (director), Bonnie Wallace, MSHA, Dan Ayers, MS). November 1998.

“How to Review Articles for Journal Club,” Drs. A. Jazieh and PK Roberson, Hematology/Oncology Journal Club, UAMS, August 18, 1999.

Organized Biostatistics portion (eight one-hour lectures) of GCRC-sponsored clinical research course, September 7-13, 1999. Presented lectures in analysis of survival data and epidemiology (two one-hour lectures). Slightly revised course given in Sept. 2000, April 2002, May 2003. Presented three one-hour lectures: survival analysis, contingency tables and logistic regression, epidemiology.

Invited faculty member, 2001 ASCO/AACR Workshop on Methods in Clinical Cancer Research, Vail, CO, July 28-August 3, 2001.

“Statistical Analysis: Design of Clinical and Basic Research,” Cardiology Core Curriculum, UAMS, August 21, 2001.

“Statistical Analysis: Multi-center Trials,” Cardiology Core Curriculum, UAMS, August 28, 2001.

Led discussion forum for UAMS/CAVHS research fellows of the “Against All Odds” series, 9/01-2/02.

Faculty advisor for Laura Smith-Olinde, PhD, CCC/A, student in MPH program, 2010.

Leading monthly discussions based on **Nature Methods** “Points of Significance” column for the CAVHS GRECC and for the UAMS Center for Center for Osteoporosis and Metabolic Bone Diseases – 2014 -- 2016.

Faculty Mentoring Committees – UAMS

Department of Pediatrics Biostatistics Faculty:

Tang, Xinyu – 2011-2018

Li, Ming – 2012-2015

Rettiganti, Mallikarjuna – 2013-2018

Department of Biomedical Informatics Faculty:

Brochhausen, Mathias – 2015-2019

Glazko, Galina – 2016-present

Jun, Se-Ran – 2016-present

Other Professional Activities:

Biostatistical consultant to University of Tennessee Center for the Health Sciences, December 1982-December 1983. (20% effort).

Advisory Committee, Memphis Urban Mathematics Collaborative, 1988-1989.

Governing Board, Memphis Urban Mathematics Collaborative, 1989-1992.

Industry Advisory Council, Center for Telecommunications and Information Systems, Christian Brothers College, 1988-1990.

Program Committee, Annual Joint Meeting of Tennessee ASA Chapters, 1990-1991.

Advisory Board, Data Quality, 1994-2002.

Panel Discussant/ Workshop Leader, Careers in Mathematics, Annual Meeting of Oklahoma-Arkansas Section of American Mathematics Association, 1994.

Workshop Leader, Career Day, Arkansas Council of Teachers of Mathematics, 1994.

Organizer of ASA Chapter Officers' Workshop, Joint Statistical Meetings, Anaheim, CA, 1997.

Judge, Residents' Research Day, UAMS Department of Emergency Medicine, 1998

Cancer Survivorship Work Group, Arkansas Cancer Coalition, 2004-present

Academic Health Centers Clinical Research Forum IT Roundtable Functional Requirements Workgroup, Fall 2006

Mentoring Committee, Twyla Bartel, DO; Fellow, Arkansas Breast Cancer Research Program Translational Research Mentoring Program for Breast Cancer Investigators, December 2006-2007.

Biostatistics, Epidemiology, and Research Design (BERD) Key Function Committee (KFC); CTSA Consortium – voting member, 2009 – present.

External Review Committee, Department of Biostatistics, University of North Texas Health Science Center, Ft. Worth, Texas, December 8-9, 2010.

Promotion/tenure/professional development working group; Biostatistics, Epidemiology, and Research Design (BERD) Key Function Committee (KFC); CTSA Consortium, April 2011 – present.

Senior faculty reviewer for Junior Faculty Mock Study Section, Annual Pepper Center Meeting, Washington, DC, April 9, 2013.

Round table discussion leader, Face-to-face meeting, Biostatistics, Epidemiology, and Research Design (BERD) Key Function Committee (KFC) (CTSA Consortium) – Washington, DC, April 10-11, 2013.

Panel discussion (with P Nietert and A Cnaan) on Biostatistical Review Process for the Clinical Translational Science Awards. Invited panel at the national meeting of the Association for Clinical and Translational Statisticians (ACTS), Montreal, Quebec, August 4, 2013.

Chair, Graduate College Program Review Committee, Program in Biostatistics and Epidemiology, The University of Oklahoma Health Science Center, September 7-8, 2021.

Institutional Committees:**St. Jude Children's Research Hospital:**

Medical Records and Utilization Committee, 1986-87; 1988-92
 Pharmacy and Therapeutics Committee, 1985-86
 Clinical Trials Committee (Institutional Review Board), 1982-84

Department of Pediatrics, UAMS:

Academic Computing, 1994-1995
 Local Advisory Committee, Pediatric Pharmacology Research Unit, 1994-1997
 Clinical Research Subcommittee of Arkansas Children's Hospital Research Institute Research Council, 1994-95

Arkansas Cancer Research Center:

Protocol Review and Monitoring Committee, 1995-2006
 ACS Institutional Grant Review Committee, 1996-02
 P30 Planning Committee, 1999-2000
 Research Advisory Committee, 2002

Other UAMS:

GCRC Advisory Committee, 1998-2008
 College of Medicine Research Committee, 1998-01
 Planning Committee, UAMS College of Public Health (COPH), 2001
 Curriculum Committee, COPH, 2001
 Dean's Executive Committee, COPH, 2001-present
 Council of Department Chairs, COM, 2002-present
 Informatics Search Committee, 2002
 Infrastructure Working Group, COPH, 2003
 Preceptorship/Integration Experience Working Group, COPH, 2003
 COPH Research Committee, 2003-2014
 MS Degree (Research Methodology) Working Group, Fall 2003
 COPH AP&T Committee 2004-present; Chair 2004-06 & 2019-present
 Executive Committee, UAMS Memory Center (Alzheimer's Disease Center), 2005-2006
 Executive Committee, Center for Tailored Biobehavioral Intervention Research, 2005-2011.
 UAMS Research Committee (COPH Rep.) 2008-present
 College of Medicine Teaching Awards Selection Committee, 2009
 Chair, Search Committee for Chair, Department of Epidemiology, College of Public Health, 2010-2011
 Appeals Board, College of Medicine, 7/1/12-6/30/15
 Translational Research Institute (TRI) Leadership Council, 2014 - present
 Internal Advisory Board, COBRE Center for Studies of Host Response to Cancer Therapy (PI: Hauer-Jensen), 2015-present
 Data Safety Monitoring Board, Dopamine Enhancement of Fear Extinction Learning (NIMH-funded clinical trial; PI: Cisler/A. James), 2015-2018
 DSMB for TRI supported local trials; 2017-present
 Search Committee for Chair, Department of Epidemiology, College of Public Health, 2016-2017
 Arkansas Clinical Data Repository Executive Governance Committee, 2017 - 2019
 Stead Scholars Selection Committee, 2018
 Internal Advisory Board, COBRE Center for Childhood Obesity Prevention (PI: Weber), 2018-2020
 Data Safety Committee for "Implementing a Guidelines-Based m-Health Intervention in High Risk Asthma Patients" (NINR trial; PI: T Perry), 2018-present
 KL2 Scholars applications review committee, 2019;2021
 Dean's Executive Committee, College of Medicine, 07/01/2019 – 06/30/2022
 Basic Science Chairs Council, 2002-present; Chair 07/01/2021 – 06/30/2022
 Internal DSMB for NIH R01 funded RCT: "Neurocognitive Mechanisms Underlying Smartphone-Assisted Prevention of Relapse in Opioid Use Disorder", 2022 – present (PI: A James)

Invited Lectures and Presentations:

Department of Biostatistics, University of North Carolina, School of Public Health, May 29, 1980.

Topic: Time-space disease clustering

Department of Mathematical Sciences, Memphis State University:

- Topic: Statistical investigation of time-space disease clustering
Date: September 16, 1983.
- Topic: Effect of outliers in fitting Cox's proportional hazards model
Date: March 1, 1985.
- Topic: Prognostic factor screening using Cox's model in the presence of converging hazards
Date: September 19, 1986.

Harvard School of Public Health, April 21, 1987.

Topic: Some practical issues in identifying prognostic factors in childhood ALL

Memorial Sloan-Kettering Cancer Center, June 3, 1987.

Topic: Practical issues in identifying prognostic features in childhood ALL

University of Nebraska Medical Center, March 19, 1990.

Topic: Early termination decisions in clinical trials: a case study involving antibiotic therapy for febrile, neutropenic children with cancer

15th Annual Midwest Biopharmaceutical Statistics Workshop, May 20-22, 1992.

Topic: Statistical evaluation of comparative virulence among *Staphylococcus epidermidis* isolates

Central Arkansas Chapter, American Statistical Association, March 3, 1994

Topic: Early stopping rules in clinical trials: an overview and case study

Department of Mathematical Sciences, University of Arkansas, Fayetteville, AR, April 20, 1995

Topic: Comparing virulence among isolates of *S. epidermidis*: statistical considerations

Joint Statistical Meetings, Chicago, Illinois, August 1996 - Invited Discussant

Topic: The role of statisticians in grant proposal and review

North Carolina Chapter, American Statistical Association, May 27, 1998

Topic: The ASA strategic plan: How chapters can get involved in implementation

Workshop leader (with Pippa Simpson, Ph.D.) for Eighth Annual UAMS Professional Development Day, 'Clinical Research: Changes and Challenges' November 13, 1998. Topic: 'Figuring it Out – Statistical Design and Analysis in Clinical Research'

UAMS Faculty Development Series, March 16, 1999

Topic: 'The Division of Biometry – Who We Are, What We Do, and the Educational Opportunities We Offer Faculty'

Strategies for Winning Grants Workshop, UAMS, June 27, 2003

Topic: "Power Your Team with Statistics"

UAMS Professional Development Scientific Success Discussion Series, December 8, 2003

Topic: "Power Your Team with Statistics"

Keynote speaker, 2011 Cerner Symposium: Innovations in Design, Analysis, and Dissemination: Frontiers in Biostatistical Methods, April 7, 2011, Kansas City, MO

Title: Translational Science: Challenges for Biostatisticians

Biostatistics, Epidemiology and Research Design (BERD) Key Function Committee (KFC) Face to Face Meeting, April 27, 2011. Panel (with Jonathan Shuster, PhD, University of Florida) to discuss process/criteria of reviewing CTSA applications.

UAMS Claude D. Pepper Center Research Seminar Series, May 17, 2013

Title: Some Tips on Preparing Data for Analysis

Celebrating Women in Statistics Conference, Research Triangle, North Carolina, May 16, 2014

Moderator, Invited Panel; Topic: Congratulations, You've Got Tenure!! Now What??

Association of VA Hematology/Oncology 13th Annual Meeting, Denver, CO, September 15-17, 2017

Title: Beyond the p-Value: What is the Evidence Really Telling Us? In Breakout Session: Making Sense of the Evidence: Useful Strategies to Appraise Clinical Trials and Guidelines

Other Presentations at Scientific Meetings:

Time-space disease clustering. Joint Statistical Meetings, 1978.

Prognostic factor screening using Cox's model in the presence of converging hazards. International Biometric Conference, 1986.

Controlling for time-varying population distributions in disease clustering studies. National Conference on Clustering of Health Events, 1989.

Practical issues in analyzing prognostic factors. Biometric Society (ENAR), 1989.

To stop or not to stop: a case study. Society for Clinical Trials, 1989.

Controlling for time-varying population distributions in disease clustering studies. Joint Meeting of the Tennessee ASA Chapters, 1989.

Evaluating change and preference questions using paired likert scale data. Joint Statistical Meetings, 1994.

Comparing virulence among isolates of *S. epidermidis*. XVIIth International Biometric Conference, 1994.

Developing instruction in research skills for pediatric fellows. Joint Statistical Meetings, 1995.

Comparison of sequential and multi-stage designs for selecting promising therapeutic modalities for stroke in pre-clinical experiments. Joint Statistical Meetings, 2004.

Preparing for promotion and tenure in a medical school/health sciences environment. Caucus for Women in Statistics Roundtable discussion leader. Joint Statistical Meetings, 2005.

Model choice in microbubble sonothrombolysis using two rabbit angiographic stroke models. Brain 2011: XXVth International Symposium on Cerebral Blood Flow, Metabolism and Function; Barcelona, Spain; May 24-28, 2011.

Chairmanship of Scientific Sessions:

Water Quality and Hazardous Waste, Environmetrics 81 Conference, Alexandria, Virginia, April 8-10, 1981.

Topics in Survival Analysis, Joint Statistical Meetings, Chicago, Illinois, August 1986.

Analysis of Discrete Data, Biometric Society (ENAR), Boston, Massachusetts, March 1988.

Statistical Applications to Biology and Ecology, Biometric Society (ENAR), Lexington, Kentucky, March 1989.

Proportional Hazards Regression, Joint Statistical Meetings, Washington, DC, 1989.

Statistics in Medicine: Current Dilemmas and Future Frontiers, Joint Statistical Meetings, Boston, Massachusetts, 1992.

Statistics Saves the Day: High Value, Stake, and Impact Applications; Joint Statistical Meetings, San Francisco, CA 1993.

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