University of Alabama at Birmingham

MISSION

The CCTS **BERD** provides consultation, guidance, and expertise for study design, data management, and statistical analysis of research at UAB and throughout the UAB CCTS Partner Network. The purpose of this Core is to gather methodological expertise as a single coordinated resource and match individual methodological skills and interests with study-specific research needs.

SPECIFIC AIMS

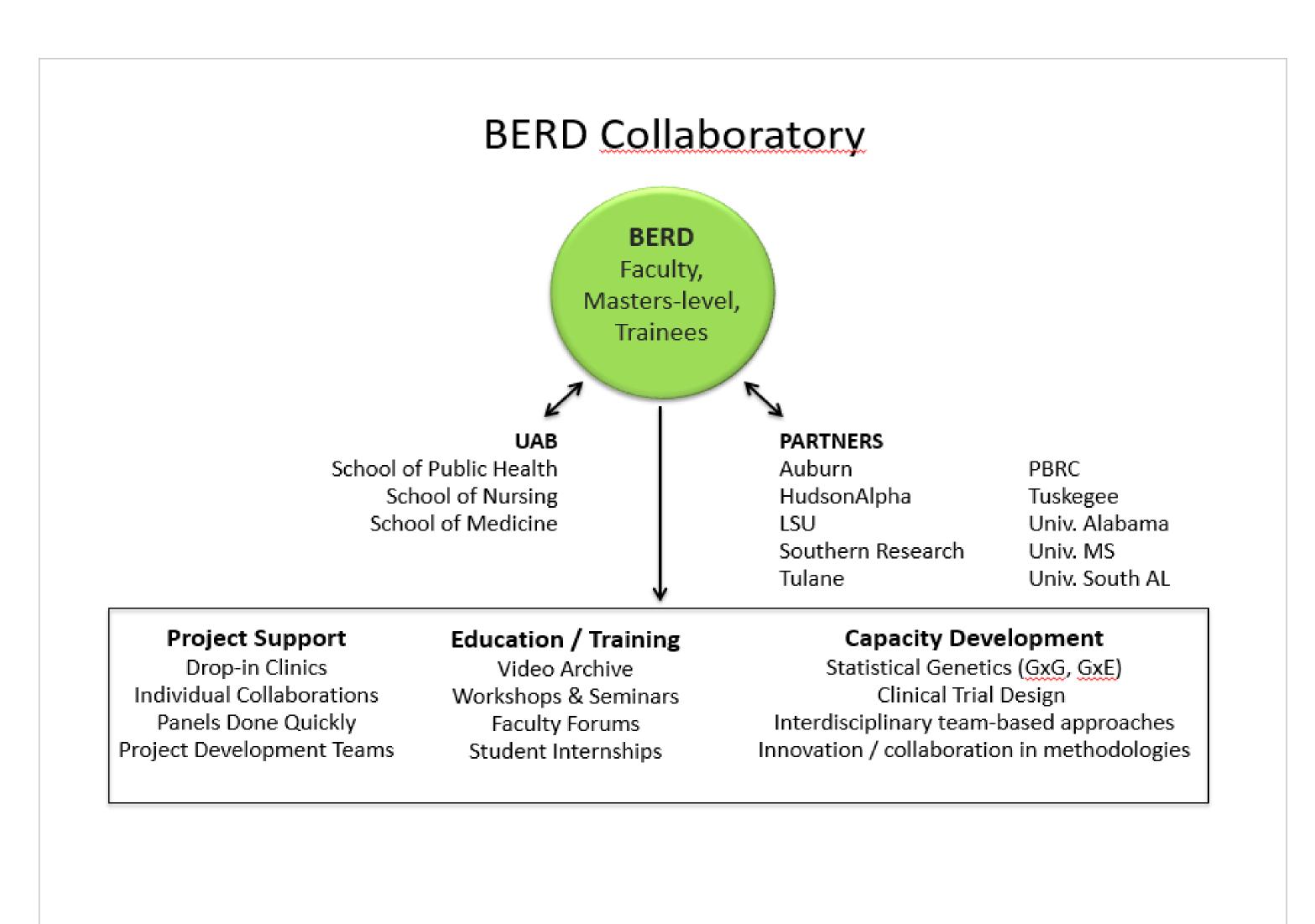
- 1. To provide methodological collaboration in the design of a wide-array of study types (Pilot, Observational, Randomized) and funding mechanisms (Career Development (K), R series, Program Projects).
- 2. To provide methodological consultation on the design of databases, database quality control, and the statistical analysis of collected data
- 3. To provide continuing education in methodology approaches to the CCTS research base through methodology seminars, workshops, mini-courses, and on-line courses/material.

DROP-IN CLINICS OFFERRING BIOSTATISTICS EXPERTISE FOR ANYONE

- ✓ Study Design
- ✓ Sample Size and Power Calculations
- ✓ Data Analysis
- ✓ Data Management
- ✓ Display of Data and Results
- ✓ Interpretation of Results
- ✓ Statistical Software



CCTS Biostatistics, Epidemiology & Research Design (BERD) Robert Oster PhD, David Redden PhD, and Gerald McGwin, PhD Co-Directors



Mondays 10am to 2pm in The Edge of Chaos

Wednesdays 11:30am-1pm PCAMS Building, 1924 7th Ave South

Other times available by appointment (ccts@uab.edu)

www.uab.edu/ccts ccts@uab.edu 205.934.7442

Robert Oster, PhD Professor of Medicine. Dr. Oster has more than 20 years of experience in the design and analysis of clinical trials and medical and public health studies. He has been involved in the development and analysis of projects/grants in nutrition, diabetes, obesity, cancer, pediatric and adult pulmonology, nephrology and renal disease, and pathology. His statistical research interests include categorical data analysis, longitudinal data analysis, modern statistical computing methods, and clinical trials methodology. *Phone*: (205) 934-4262 Email: oster@uab.edu *Office*: MT642

Peng Li, PhD Assistant Professor, Nursing. Dr. Li's research interests focus on the design and analysis of cluster randomized trials and large cohort studies. Dr. Li has broad collaborative research experience in study design and analysis, power/sample size calculations, data management, adaptive statistical methodologies. His scientific research areas are hypertension, liver cancer, rheumatology/osteoporosis, obesity/nutrition and child safety. *Office*: NB 485 Email: pli@uab.edu *Phone*: (205) 966-0376

David Redden, PhD Professor, School of Public Health. Dr. Redden has 22 years of collaborative experience in designing and analyzing clinical studies. He has been involved in the development and analysis of projects/grants in diabetes, obesity, tuberculosis, asthma, nutrition, rheumatology, and gerontology. His methodology research focuses on power calculations, analysis of group randomized small cluster trials, and regression methodology. *Phone*: (205) 934-4905 Email: dredden@uab.edu Office: RPHB 309D

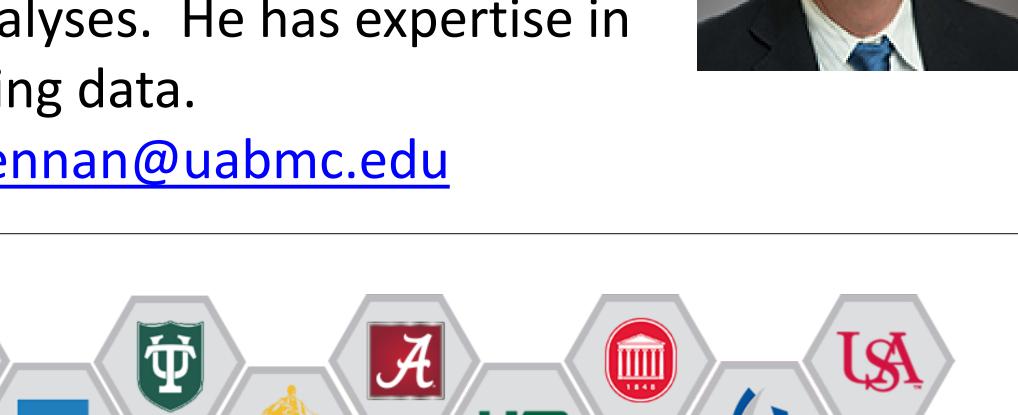
Kimberly Martin, PhD Assistant Professor, Department of Epidemiology. Dr. Martin's expertise is cardiovascular and stroke epidemiology. She is involved in the development and analysis of projects in obstetrics/gynecology, urology, pediatrics, internal medicine, cardiovascular disease, and neurology. Her research focuses on individual, provider and community-level factors affecting health care quality for chronic disease management among minority populations. *Office*: RPHB 210D *Phone:* (205) 975-5792 Email: martinkd@uab.edu

Paul A. MacLennan, PhD Associate Professor of Surgery and Associate Director of Transplant Analytics, Informatics & Quality. He has 18 years of collaborative experience that includes health disparities, healthcare utilization, injury and trauma, geriatrics, and cancer incidence. He has utilized local and national sources of primary and secondary data for cross-sectional, retrospective, prospective, and longitudinal study designs and data analyses. He has expertise in data management and data linkages and methods for addressing missing data. *Office:* LHRB 790D *Phone:* (205) 934-0595 *Email:* pmaclennan@uabmc.edu





SR



LÆ









OC C

CCTS Biostatistics, Epidemiology & Research Design (BERD) David Redden, PhD, Gerald McGwin, PhD, and Robert Oster, PhD, Co-Directors University of Alabama at Birmingham

MISSION

The CCTS **BERD** provides consultation, guidance, and expertise for study design, data management, and statistical analysis of research at UAB and throughout the UAB CCTS Partner Network. The purpose of this Core is to gather methodological expertise as a single coordinated resource and match individual methodological skills and interests with study-specific research needs.

SPECIFIC AIMS

- 1. To provide methodological collaboration in the design of a wide-array of study types (Pilot, Observational, Randomized) and funding mechanisms (Career Development (K), R series, Program Projects).
- 2. To provide methodological consultation on the design of databases, database quality control, and the statistical analysis of collected data
- 3. To provide continuing education in methodology approaches to the CCTS research base through methodology seminars, workshops, mini-courses, and on-line material.

DROP-IN CLINICS OFFERRING **BIOSTATISTICS EXPERTISE FOR ANYONE**

- ✓ Study Design
- ✓ Sample Size and Power Calculations
- ✓ Data Analysis
- ✓ Data Management
- ✓ Display of Data and Results
- ✓ Interpretation of Results
- ✓ Statistical Software

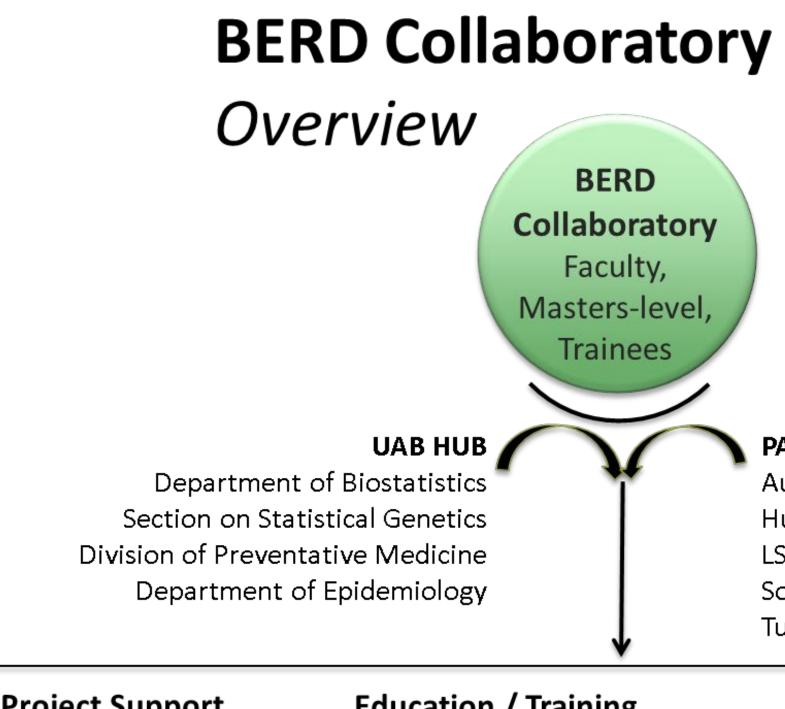
Mondays 10am to 2pm

in The Edge of Chaos

Other times available by appointment (ccts@uab.edu)

Call us: 205.934.7442

Email us: ccts@uab.edu



Project Support Drop-in Clinics Individual Collaborations Nascent Project Panels Panels Done Quickly

Education / Training Video Archive Drop-in Clinics Workshops & Seminars Faculty Forums Student Internships

Tulane

computing methods, and clinical trials methodology. Office: MT642 Phone: (205) 934-4262 *Email*: oster@uab.edu

Phone: (205) 975-9188 Email: pli@uab.edu Office: RPHB 307A

Peng Li, PhD. Scientist I, Department of Biostatistics. His research interests focus on the study design and analysis of randomized clinical trials, particularly cluster randomized trials as well as large cohort studies. Dr. Li has broad collaborative research experience by providing statistical expertise on study design, power and sample size calculation, data management and analysis, adapted statistical methodologies, statistical input for grant proposals and manuscripts, etc. His major scientific areas of research include hypertension, liver cancer, rheumatology/osteoporosis, obesity/nutrition and child safety.

Office: RPHB309D Phone: (205) 934-4905 Email: dredden@uab.edu

David Redden, PhD. Professor and Chair, Department of Biostatistics. Dr. Redden's expertise is the design and analysis of cluster randomized trials. He also has 19 years of experience of collaborative experience in designing and analysing clinical studies. He has been involved in the development and analysis of projects/grants in AIDS, Diabetes, Obesity, Nutrition, Tuberculosis, Asthma, Early Childhood Education, Nutrition, Rheumatology, and Gerontology. His methodological research focuses on power calculation, appropriate analysis of group randomized trials with small numbers of clusters, and regression methodology.

Meredith Kilgore, PhD. Professor and Chair, Department of Health Care Organization and Policy. Dr. Kilgore is an expert in cost-effectiveness and technology assessment studies involving clinical information systems, clinical laboratory testing methods, and post-operative autologous blood transfusion following cardiac surgery, home health and hospice services in older cancer patients. His more recent work includes studies cancer treatment costs and cancer clinical trial design. Office: LHL 438/Ryals 330D Phone: (205) 975-8840 Email: mkilgore@uab.edu



Wednesdays 11:30am-1pm PCAMS Building, 1924 7th Ave South

Visit us online: www.uab.edu/ccts

PARTNERS Auburn HudsonAlpha LSU Southern Research

PBRC Tuskegee Univ. Alabama Univ. MS Univ. South AL

Capacity Development Clinical Trial Design Statistical Genetics (GxG, GxE) Interdisciplinary team-based approaches Innovation / collaboration in methodologies Gerald McGwin, PhD. Professor and Vice Chair of Epidemiology. Dr. McGwin's expertise is the design and analysis of epidemiologic studies as well as the design, implementation and evaluation of clinical data registries. His areas of interest are eye disease, vision impairment, injury, and aging related chronic diseases.

Office: EFH609

Phone: (205) 325-8117

Robert Oster, PhD. Professor of Medicine. Dr. Oster's expertise is the design and analysis of clinical trials and medical and public health studies. He has more than 20 years of collaborative experience in designing and analyzing medical and public health studies. He has been involved in the development and analysis of projects and grants in nutrition, diabetes, obesity, cancer, pediatric and adult pulmonology (cystic fibrosis, COPD), nephrology and renal disease, and pathology. His statistical research interests include categorical data analysis, longitudinal data analysis, modern statistical





Scan to visit site

Email: mcgwin@uab.edu

CENTER FOR CLINICAL AND TRANSLATIONAL SCIENCE











