

CCTS Biostatistics, Epidemiology & Research Design (BERD)

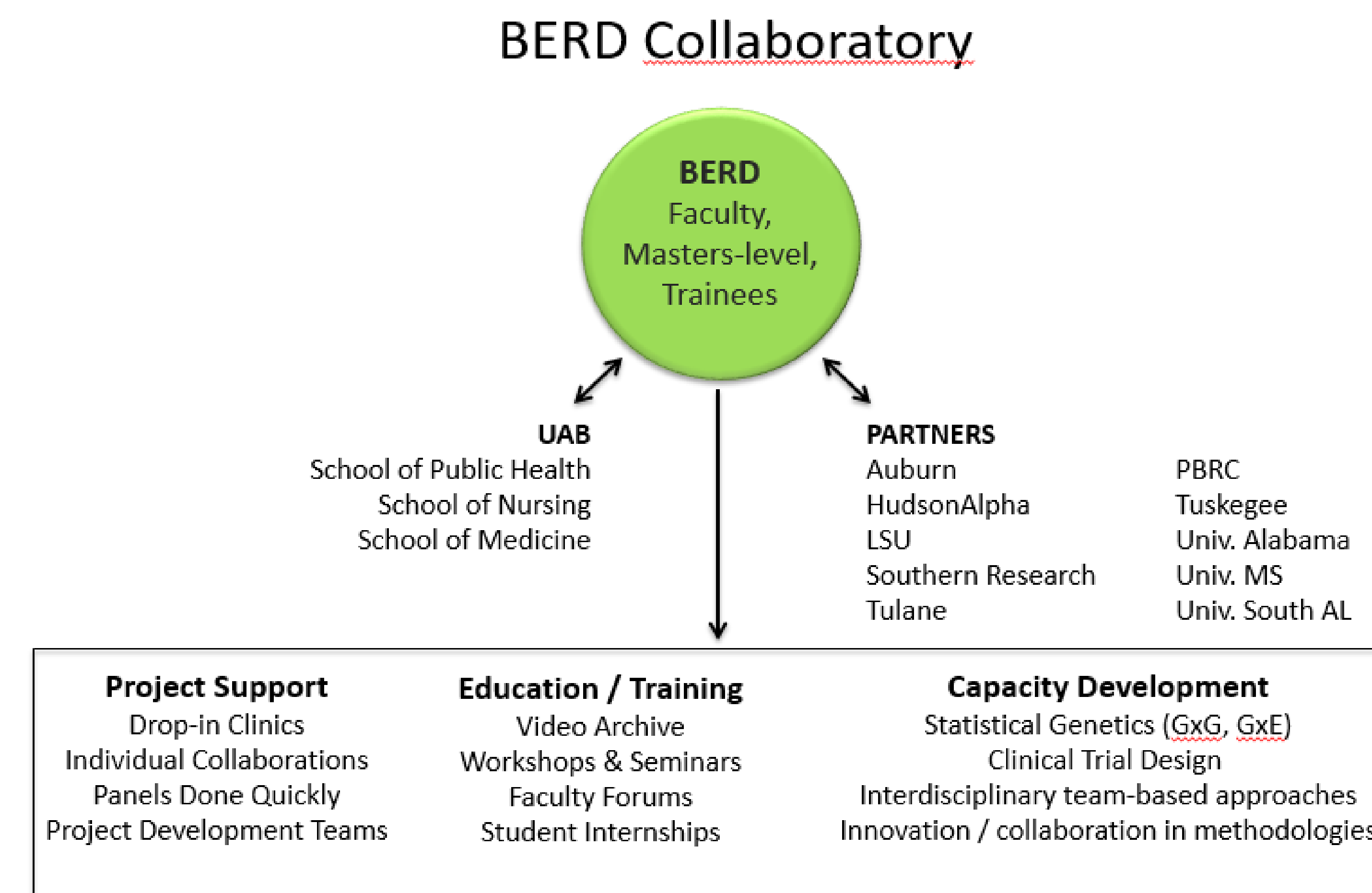
David Redden PhD, Robert Oster PhD, and Gerald McGwin, PhD Co-Directors



CCTS

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 OFFERING 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

Wednesdays 11:30am-1pm
4th Floor Lister Hill Library

Fridays 8:30 am to 11:30 am
4th Floor Lister Hill Library

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

Robert Oster, PhD Professor of Medicine. Dr. Oster has more than 23 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, and cancer,. His statistical research includes categorical data analysis, longitudinal data analysis, and clinical trials methodology. *Email:* oster@uab.edu



Peng Li, PhD Associate 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, rheumatology/osteoporosis, obesity/nutrition and child safety. *Email:* pli@uab.edu



David Redden, PhD Professor of Biostatistics, School of Public Health. Dr. Redden has 26 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, nutrition, rheumatology, and gerontology. His methodology research focuses on power calculations, group randomized cluster trials, and regression methodology. *Email:* dredden@uab.edu



Kimberly Martin, PhD Assistant Professor, Department of Epidemiology. Dr. Martin's expertise is cardiovascular and stroke epidemiology. She is involved in the development/analysis of projects in obstetrics/gynecology, urology, pediatrics, internal medicine, and cardiovascular disease,. Her research focuses chronic disease management among minority populations. *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 national data sources for secondary data analysis for cross-sectional, retrospective, prospective, and longitudinal study designs *Email:* pmaclennan@uabmc.edu



Dustin M. Long, PhD Associate Professor of Biostatistics, School of Public Health. Dr. Long has collaborated with investigators across the research landscape by providing biostatistical expertise and study design. He is a coinvestigator on various projects in HIV, infectious diseases, pain, and tobacco cessation. His research includes causal inference, survival analysis, and flexible models. *Email:* dlong@uab.edu



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