

BQHS

Vision, Mission, and Core Values

Vision: Strive for excellence in research, education, and service through collaboration and innovation in quantitative health science

Mission: To enhance University of Hawaii John A. Burns School of Medicine's research, education, and service mission by:

- fostering the understanding and implementation of biostatistical principles from study design to dissemination
- catalyzing collaborative research through institutional and community partnerships
- providing quality education and training in quantitative health sciences
- developing novel methods and generating new knowledge to improve quantitative health research and practice

Core Values: High quality, efficient, reliable



Strategic Partners of BQHS

JABSOM Departments & Centers:

Department of Geriatrics
Department of Medicine
Department of Native Hawaiian Health & Center for
Native and Pacific Health Disparities Research
Department of OBGYN
Neuroscience and MRI Research Program

UH Schools & Colleges:

College of Tropical Agriculture and Human Resources
Myron B. Thompson School of Social Work
School of Nursing & Dental Hygiene

Non-UH Organizations:

Hawaii Health Information Corporation
Hawaii Journal of Medicine & Public Health
Hawaii Pacific Health Research Institute
Queen's Medical Center
Shriners Hospitals for Children



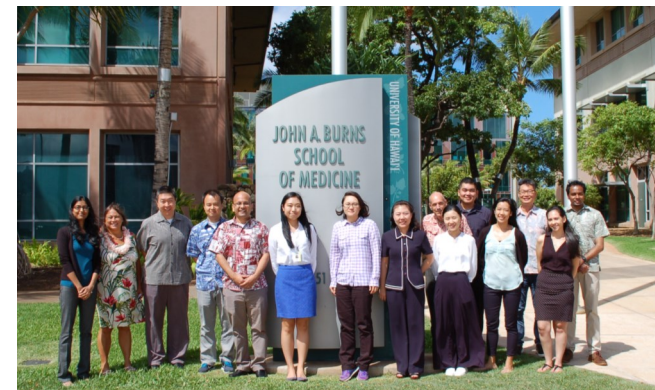
Hawaii State
Research and
Education Partnership

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Office of Biostatistics & Quantitative Health Sciences (BQHS)



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BQHS Expertise

Research Design

- Research feasibility discussion to establish testable research hypothesis
- Sample size and statistical power determination
- Data-instrument development, such as questionnaires
- Data-coding protocols
- Sampling procedures
- Study design and statistical analysis plan development for grants

Database Development & Management

- Database design and programming
- Large healthcare data management
- Web application development

Biostatistics Data Analysis

- Data coding and management
- Comprehensive univariate and multivariate analyses
- Data and safety monitoring, including interim analyses
- Large healthcare data analytics
- Tailored statistical tool development to address specific research questions and challenges

BQHS Expertise (cont.)

Bioinformatics Data Analysis

- Next generation sequencing
 - RNA-Seq
 - DNA-Seq
 - Chip-Seq
 - Exome sequencing
 - Targeted sequencing
 - Variant detection
- Microarray data analysis
- Proteomics data analysis
- Gene annotation
- Pathway analysis

Results Dissemination

- Biostatistics and bioinformatics results interpretation
- Results presentations (e.g., figures, tables) for manuscripts and posters
- Biostatistics and bioinformatics methodology and results sections development for reports and manuscripts

Training & Education

- For-credit biostatistics and bioinformatics courses of various levels of difficulty
- Quantitative health science workshops and seminars for trainees (graduate students, residents, fellows), faculty, and staff
- Serving as quantitative health sciences mentors for students and trainees

Service Model

Initial Consultation (one hour): FREE

Grant Development:

FREE, if adequate effort of BQHS faculty and staff is included in the grant budget.

Long-Term Funded Projects:

BQHS services can be provided through a percentage effort or through negotiated collaboration and service contract.

Short-Term Projects or Non-Extramural Funded Projects:

BQHS services can be provided through a fee-for-service or task-based pricing agreement.

Current UH Approved Rates:

Ph.D. Level Staff: \$120/hour
Master Level Staff: \$60/hour

Collaborative Model

- For RMATRIX, BRIDGES, and INBRE investigators the BQHS support will be provided either free of charge or at a significant discount
- For our strategic partners, free or discounted services provided according to collaborative agreements.

For academic and research units (dept., school, center) interested in becoming a BQHS strategic partner, we would be happy to explore the collaborative opportunity and grow together with you.