



BioMedical Informatics Unit (BIU)

Core Overview:

The Biomedical Informatics Unit (BIU) at Morehouse School of Medicine (MSM) focuses on integration of MSM and affiliated health information systems -- electronic medical and personal health records, patient databases, and other research databases (basic, translational, clinical and population-based) -- into an interpretable repository. The unit also focuses on bioinformatics analysis that includes, but is not limited to identification of genetic biomarkers for tangible diagnostic applications, analysis of gene expression data gathered from multiplatform microarrays (Agilent, Affymetrix, etc) as well as provides analysis and consultation related to various expression profiling technologies which include RNA, miRNA, ChIP-on-Chip, and Antibody microarrays and post-hoc analysis of SNP and SAGE data. In collaboration with the biostatistics unit at MSM, the BIU provides weekly data management consultations through studio sessions. The BIU also provides weekly training in REDCap for data collection and data management. Please find below a snapshot of services provided by the BIU.

For more information and to request for services, please visit the **Research Web-Portal** at <https://rcenterportal.msm.edu/> or contact Helen Tyree at htyree@msm.edu (office: 404.756-8820).

BIU SERVICES PROVIDED

Biomedical Informatics Training Support	Proposal/Project Development and Study Design
I2b2 Workbench Training/Data Access	REDCap Training/Access
Biomedical Informatics Analyses Support	Research Database Design
Biomedical Informatics Studio Consultation	Research Database Development
Research Web portal Assistance	Research Project Database Implementation Assistance
Big Data Analytical support	Spotfire and Genesifter
Array STAST	Genomics Data Analyses
Pathways 4/Igenuity Pathways Analysis	Mobile Health Informatics Support

User Fees (if applicable): \$60/hr-\$100/hr

Biomedical Informatics Team

Dr. Alexander Quarshie, Professor and Director, BIU
 Dr. Alema-Mensah, *Database Administrator/REDCap Administrator*
 Dennis Bryan, *Database Programmer Analyst*
 Ruvina Silva, *Database Administrator*
Helen Tyree, Web Portal Administrator/REDCap Administrator

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