

Research Reports Completed by GEMS Students

	Student	Research Title		Mentors
1	Bergmann, Kelly R.	Race-specific Association Analysis of Genetic Variants and Flanking Haplotypes in the Surfactant Protein B Gene with Neonatal Respiratory Distress Syndrome: a Case-control Study from a Missouri Cohort	August 2006	F. Sessions Cole, Aaron Hamvas, Ping An
2	Bhonagiri, Veena	Microarray Analysis of Gene Expression Profiles in Regenerating Avian Sensory Epithelia	May 2004	Michael Lovett
3	Brunt, Andrew Van	Using Growth Curves to Model Triglyceride Responses to Fenofibrate Therapy: Associations of Responses with Candidate Genes	August 2006	Ingrid Borecki
4	Budde, Laura R.	Methods to Detect SNP Associations with Family Data: A Comparative Analysis	December 2005	Mike Province
5	Crosswhite, Michael	Theory and Applications of Index Selection to identify Responder vs. Non-Responders to Chemotherapy Drugs	August 2006	Aldi Kraja, Michael Province
6	Flores, Hugh	Latent Factors in High-dimensional Hypertensive Heart Disease Related Phenotypes	August 2006	C. Charles Gu, Victor Davila-Roman
7	Howell, Shannon M.	An Improved Alogorithm for Finding Linked Subsets in the Presence of Heterogeneity or Interactions	April 2005	Miike Province
8	Huang, Pinchia (Any)	Linkage Analysis of Metabolic Syndrome and Echocardiographic Factors in the HyperGEN Study	August 2007	Aldi Kraja, Treva Rice, D.C. Rao
9	Jacobsen, Petra	Filtered Association Techniques to Detect Genes Influencing CEPH Cell Line Response to Docetaxel Chemotherapy Drug in Chromosome 5	August 2006	Aldi Kraja, Mike Province
10	Ketkar, Shamika	Genetic Association Analysis of Secondary Traits of Hypertension and a Functional Candidate Gene in the HyperGEN Study	May 2004	C. Charles Gu
11	Kothari, Parul	Evaluation of PGC1a Gene Variants in Modulating Hypertensive Heart Disease Phenotypes	Dec. 2006	Victor Davila-Roman, C. Charles Gu
12	Liu, Ying (Peter)	Linkage and Association Studies of Alcoholism Phenotypes in the COGA Study	May 2005	Nancy Saccone
13	Liu, Kuang-Yao (Dennis)	Association Analysis of the Dopamine Receptor Genes with Alcohol Use and Related Phenotypes in a Longitudinal Finnish Study	August 2006	Danielle M. Dick
14	Ma, Duanduan	The Peroxisome Proliferator-Activated Receptor Gamma2 Gene is Linked to and Associated with Fasting Blood Glucose Level in the FHS Study	May 2004	Ingrid Borecki

15	Markus, Matthew	Graphical Modeling of Genetic Associations and Viability in CEPH Cell Lines under Chemotherapeutic Selection Pressure	April 2005	Aldi Kraja, Mike Province
16	Patki, Amit	Bivariate Linkage Analysis of Obesity and Diabetes in the HERITAGE Family Study	May 2004	Treva Rice
17	Peters, Michael	Genetic Study: Coronary Artery Calcification in the FHS-SCAN Study	May 2004	Mike Province
18	Phillips, Keydra L.	Major Gene Effect and Additive Familial Pattern of Inheritance of Asthma Existing among families of Probands with Sickle Cell Anemia and Asthma	August 2006	Michael R. DeBaun, Ping An
19	Pierce, Brandon	Localization of Psoriasis Susceptibility Variants with Family Based Association Methods	May 2004	Anne Bowcock
20	Pincus, Elisa Rachel	Association Studies of VAV Gene SNPs with Crohn's Disease	December 2006	Anne Bowcock
21	Robarge, Jason	Family-based association mapping for the identification of PSORS4, a psoriasis susceptibility gene mapping to the Epidermal Differentiation Complex on human chromosome 1q21	May 2005	Anne Bowcock
22	Rochat, Ryan	A Novel Method Combining Linkage Disequilibrium Information and Imputed Functional Knowledge for tag SNP Selection	May 2005	C. Charles Gu, Victor Davila-Roman
23	Shao, Jin	Bivariate Linkage Analysis of Fitness Responses to Exercise Training in the HERITAGE Family Study	August 2007	Treva Rice
24	Schierding, William S.	The role of dopamine receptor genes in drinking patterns, alcohol dependence, and related psychiatric phenotypes: Data from the longitudinal Finnish twin Studies	August 2006	Danielle M. Dick
25	Shi, Jinguo	A Meta-analysis of Genome-wide Linkage Scans for Body Mass Index	November 2004	Treva Rice
26	Wang, Jian	Tree Linkage Analysis of Lipids in the HyperGEN Study: Covariate Interactions and Linkage Heterogeneity	April 2005	Ingrid Borecki
27	Winston, Julia	Analysis of Microarray Data to Characterize Genes Underlying Cleft Lip and Palate	May 2004	Michael Lovett
28	Wu, Jun	Genome-Wide Linkage Analysis of Lipids in the HyperGEN Study: An Investigation of the Effects of Lipid-Lowering Medications	May 2004	D.C. Rao, Aldi Kraja
29	Ziyab, Ali H.	A Comparative Analysis of Avian and Mammalian Inner Ear Development and Regeneration	August 2006	Michael Lovett
30	Zhou, Jia	Genome-Wide Assessment of Imprinting Effects on the Genetic Linkage of Obesity in the HyperGEN Study	August 2007	C. Charles Gu, D.C. Rao