

## GEMS Final Research Projects (alphabetical by author)

	<b>Student</b>	<b>Research Title</b>		<b>Mentors</b>
1	<b>Barve, Ruteja A.</b>	<b>Mining Interactions in Candidate Genes for Hypertension</b>	May 2008	<b>C. Charles Gu</b>
2	<b>Bergmann, Kelly R.</b>	<b>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</b>	August 2006	<b>F. Sessions Cole, Aaron Hamvas, Ping An</b>
3	<b>Bhonagiri, Veena</b>	<b>Microarray Analysis of Gene Expression Profiles in Regenerating Avian Sensory Epithelia</b>	May 2004	<b>Michael Lovett</b>
4	<b>Brunt, Andrew Van</b>	<b>Using Growth Curves to Model Triglyceride Responses to Fenofibrate Therapy: Associations of Responses with Candidate Genes</b>	August 2006	<b>Ingrid Borecki</b>
5	<b>Budde, Laura R.</b>	<b>Methods to Detect SNP Associations with Family Data: A Comparative Analysis</b>	December 2005	<b>Mike Province</b>
6	<b>Crosswhite, Michael</b>	<b>Theory and Applications of Index Selection to identify Responder vs. Non-Responders to Chemotherapy Drugs</b>	August 2006	<b>Aldi Kraja, Michael Province</b>
7	<b>Flores, Hugh</b>	<b>Latent Factors in High-dimensional Hypertensive Heart Disease Related Phenotypes</b>	August 2006	<b>C. Charles Gu Victor Davila-Roman</b>
8	<b>Howell, Shannon M.</b>	<b>An Improved Alogorithm for Finding Linked Subsets in the Presence of Heterogeneity or Interactions</b>	April 2005	<b>Miike Province</b>
9	<b>Huang, Pinchia (Anya)</b>	<b>Linkage Analysis of Metabolic Syndrome and Echocardiographic Factors in the HyperGEN Study</b>	August 2007	<b>Aldi Kraja, Treva Rice, D.C. Rao</b>
10	<b>Jacobsen, Petra</b>	<b>Filtered Association Techniques to Detect Genes Influencing CEPH Cell Line Response to Docetaxel Chemotherapy Drug in Chromosome 5</b>	August 2006	<b>Aldi Kraja, Mike Province</b>
11	<b>Ketkar, Shamika</b>	<b>Genetic Association Analysis of Secondary Traits of Hypertension and a Functional Candidate Gene in the HyperGEN Study</b>	May 2004	<b>C. Charles Gu</b>
12	<b>Kothari Parul</b>	<b>Evaluation of PGC1a Gene Variants in Modulating Hypertensive Heart Disease Phenotypes</b>	Dec. 2006	<b>Victor Davila-Roman, C. Charles Gu</b>
13	<b>Liu, Kuang-Yao (Dennis)</b>	<b>Association Analysis of the Dopamine Receptor Genes with Alcohol Use and Related Phenotypes in a Longitudinal Finnish Study</b>	August 2006	<b>Danielle M. Dick</b>
14	<b>Liu, Ying (Peter)</b>	<b>Linkage and Association Studies of Alcoholism Phenotypes in the COGA Study</b>	May 2005	<b>Nancy Saccone</b>
15	<b>Ma, Duanduan</b>	<b>The Peroxisome Proliferator-Activated Receptor Gamma2 Gene is Linked to and Associated with Fasting Blood Glucose Level in the FHS Study</b>	May 2004	<b>Ingrid Borecki</b>

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