

Research Project for PhD Student

Project Title:

Integrative genomics analysis of mammary gland function in animal models

Project Supervisor:

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One Sentence Project Summary: (single sentence for Google-style search results)

Examines the physiological systems that determine mammary gland development and function using comparative genomic approaches, including integration of genetic and gene expression microarray data.

Project Synopsis: (about 250 words max)

Recent progress in associating phenotype with genotype using the available data from inbred mouse strains creates a powerful resource for analysis of the genomic basis of physiological systems. This project uses an integrated genomics approach to study mammary gland development and function. This will involve the use studies based on a large set of physiological data and high density SNP genotype data. Additionally, there is an opportunity to integrate gene expression studies and comparative species data. The project would suit a student who is interested in molecular and cellular biology, genomics, or bioinformatics and statistics.

Other Information: (e.g. scholarships/funding available, etc.)

Candidates will apply for post-graduate research scholarships.

This is an international collaborative project with scientists from Baylor College of Medicine, Texas, and is funded by the USA National Institutes of Health (NIH).
