Since 2006, the Genomics Education Partnership (GEP) has incorporated authentic genomics research experiences into the undergraduate curriculum, involving thousands of students in genomics activities, comparative genomics, and the evolution of contrasting genomic domains. Our 101+ participating institutions include community colleges, primarily historically black colleges and universities, and research-intensive PhD-granting institutions. Using our shared resources and publicly accessible data bases, students have been able to contribute meaningfully to scientific investigations coordinated through the GEP.

A large consortium of faculty implementing a core course-based undergraduate research experience (CURE) in a variety of biological data workflow: Educational Assessment. Biological publications with GEP student co-authors:

- Evolution of genes & repeats in Drosophila Muller Elements:
  - Leang et al. (2010) Genetics
  - Leang et al. (2012) G3

- Identification of factors contributing to D. annanassae F-element expansion:
  - Leang et al. (2011) G3

GEP students accurately generate gene models:

- More than 100 faculty from >100 affiliated schools
- More than 1000 undergraduates participate annually

GEP Courses Contribute to Biological Knowledge & Enhance Student Attitudes toward Science

- Students' perceptions of Science Impact Course Benefits

- Faculty Training for online implementation

- Materials for online course implementation and project management

- Online training through the Quantitative Undergraduate Biology Education and Synthesis (QUBE) platform

- GEP is recruiting NEW MEMBERS. Contact Catherine Reinker (creinker@unf.edu)

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