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Statistical models in genomics applications:

- Model-based, empirical Bayes approach high power, computationally efficient
- Differential variation
- Wide range of applications gene expression, methylation, metabolomics, RNA-sequencing data, etc.

Variable selection in the large p, small n setting:

- An efficient method, based on a simple latent class model
- Accounts for correlation between variables (to eliminate multicolinearity)

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Machine learning methods and applications:

- Detect identification regions in statistical and econometric models
- Concept mapping
- Automatic classification of sensitive information (text, sensor data, images)