



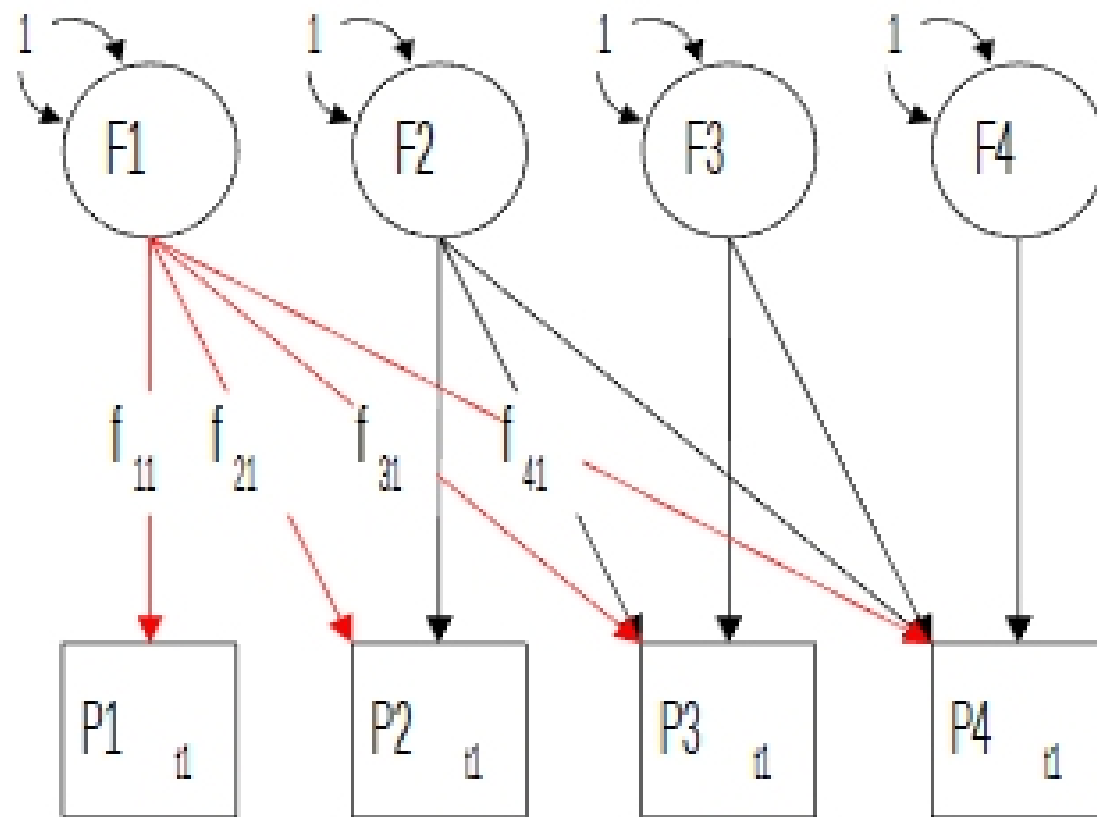
Multivariate Analysis

HGEN619 class 2006

Multivariate Questions I

- Bivariate Analysis: What are the contributions of genetic and environmental factors to the covariance between two traits?
- Multivariate Analysis: What are the contributions of genetic and environmental factors to the covariance between more than two traits?

Phenotypic Cholesky F1



$$\begin{array}{l} P1 \\ P2 \\ P3 \\ P4 \end{array} \begin{bmatrix} F1 & F2 & F3 & F4 \\ f_{11} & & & \\ f_{21} & & & \\ f_{31} & & & \\ f_{41} & & & \end{bmatrix}$$