Heritability

- Pecking (1983)
  - 40% chance of dyslexia in offspring if parents have
  - 10% of non-dyslexic if both parents have.

- Hermann (1990)
  - Twin Concordance: 100% for non spelling
  - 33% for spelling

Theories of Dyslexia

- Cognitive Style
  - Left or asymmetric
  - Multimodal
  - Oral language problems
  - Literal difficulties

- Left Cerebral Hemisphere and Anatomy
  - Reduced left planum to temporal
  - Reduced left insulae

- Test results:
  - High motoric and social skills slow left hemisphere growth

Molecular Genetics

- Mutations found to gene loci on chromosomes 6, 15 and 18

Genetic Variants → Pretax Neuroanatomy → Dyslexic Phenotypes

Management

- Clinical: diagnosis
- Educational: specialized teaching, record of needs, exam accommodations
- Aesthetic: word processing, voice-text
- Emotional: avoidance ofsecondary disturbance
- Voluntary: Parents groups