

# Systems biology

- **Endocrinology:** interactions between tissues, hormones, feedback systems; challenged by changes in environment (e.g. changes in calcium intake)
- **Immunology:** cell-cell interaction; cytokine networks; feedback systems; challenged by changes in environment (e.g. antigen)

# Symposium Mammalian

## 13 March 2007

- **Important:**
  - to merge technical approaches: experimental mammalian biology with mathematical biology
- **Important:**
  - to merge / identify links/overlaps with more simple organisms
- **Important:**
  - Experimental model selection
  - Phenotype knowledge / identification of end-point parameter
  - Knowledge on disease / patient characteristics: link to clinician
- Currently: membrane initiated effects
- Need for nuclear receptor modeling
- Integration of membrane-initiated effects and nuclear receptor-initiated effects