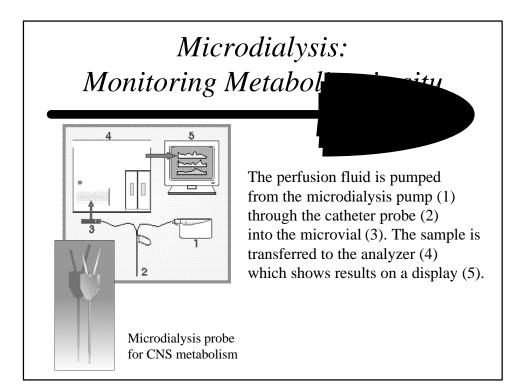


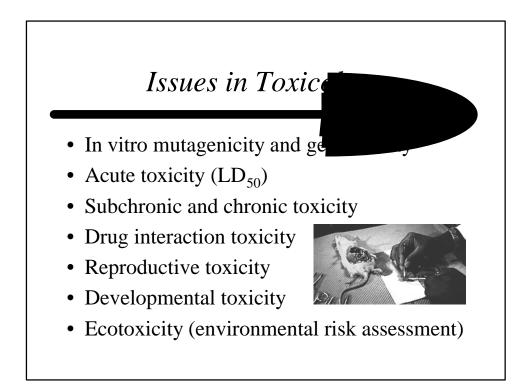
Microdialysis: Monitoring Metabol

- A probe with a semipermeable **perfused** with metabolically neutral solution, is inserted into the tissue
- Net composition changes upon passage reflect the concentrations of metabolites in the interstitial space (depending on flow rate and MW)
- Dialysis solution can be "spiked" with metabolically active compounds
- Continuous, real-time monitoring



What is Toxico

- Derived from *toxicon* (gr.)
- Paracelsus (1493-1541): "*Dosis facit venenum*" (the right dose differentiates a poison from a remedy)
- Defined as the science of adverse effects on biological systems
- Modern toxicology requires an integrated approach



Mutagenicity: The A Various mutant strains of Sale Histidine synthesis deficiency rfa strain: increased permeability uvrB strain: defect in DNA repair plasmid factor strains

