Abnormal Cancer Metabolism

Genetic and Epigenetic Alterations

Mutations in:
- Oncogenes
- Tumor suppressors
- Enzymes
- Chromatin structure

Altered Redox Balance
- Buffering capacity
- Transmembrane regulation
- Intracellular pH

Tumor Microenvironment
- Hypoxia
- Tumor cell density
- Vascular supply

 References