A: Examples of technological inventions

- Classic and advanced microscopy
- Microarray based technology
- Massive Parallel Sequencing

B: Multiple levels in breast cancer research.

- Clinical/Host: Age, Gender, Heredity, Co-morbidity, Lactation history, Parity, Hormonal status
- Pathology/Tissue composition: Histological grade, Vessel invasion, Stromal composition, In situ molecular markers
- Molecular alterations: Protein activation, Protein variants, Protein localization, Protein expression, Non-coding RNA, mRNA expression, miRNA expression, mRNA variants
- DNA alterations: DNA mutations, DNA structural alterations, DNA copy number alterations, DNA modifications

C: Inter- and Intra tumor heterogeneity

- Tumor cells
- Stromal cells
- Vasculature

D: Molecular intra tumor heterogeneity

- Negative tumor cells
- Positive lymphocytes
- Positive tumor cells