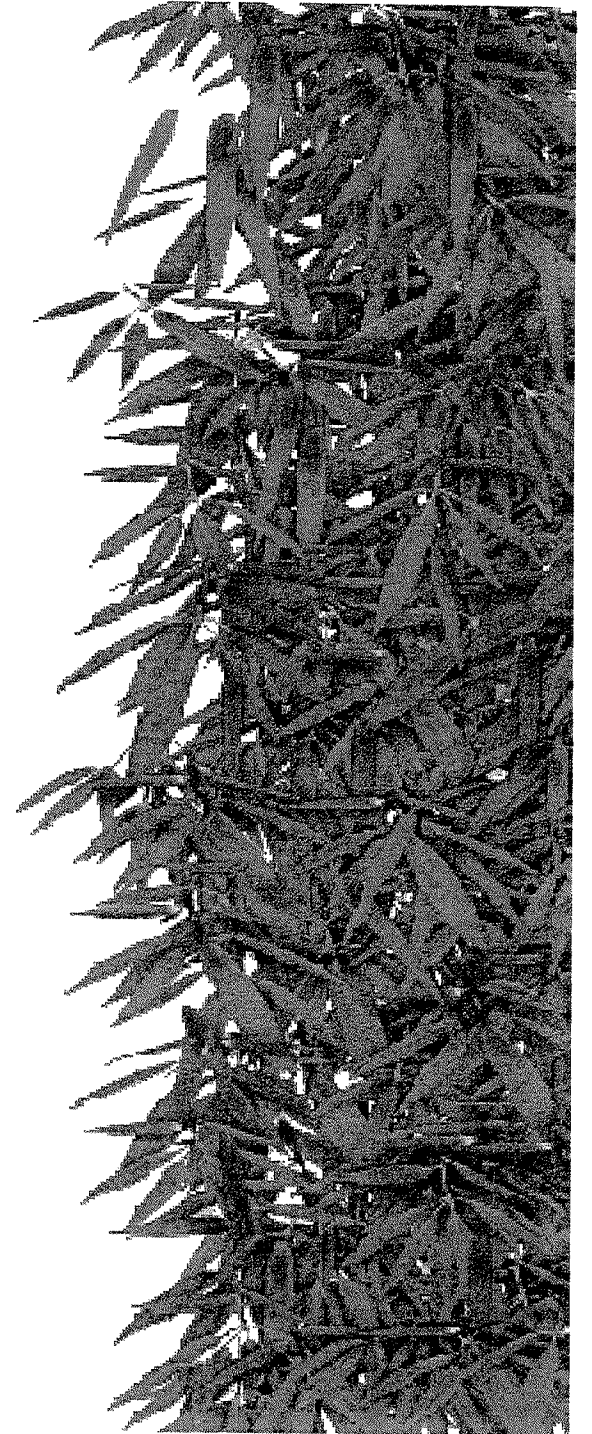


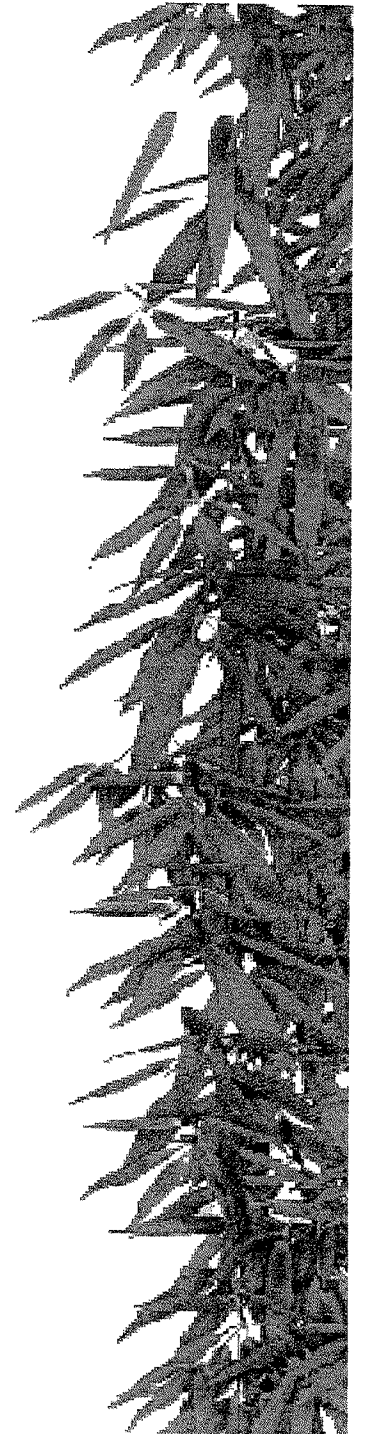
Personalized Breast Cancer Therapies

Letha E Mills MD
2009



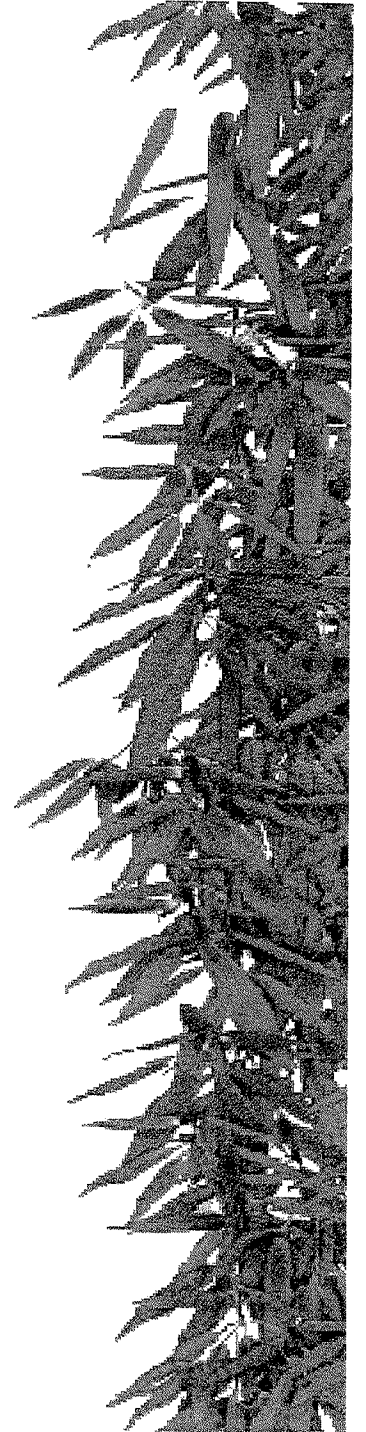
Now on to the biology: Why Personalize Therapy?

- ✱ Improve treatment outcomes
- ✱ Decrease toxicities by giving best drugs and right doses to individuals
- ✱ Test new therapies in the right population of people
- ✱ Decrease expense-use the right drug in right person!



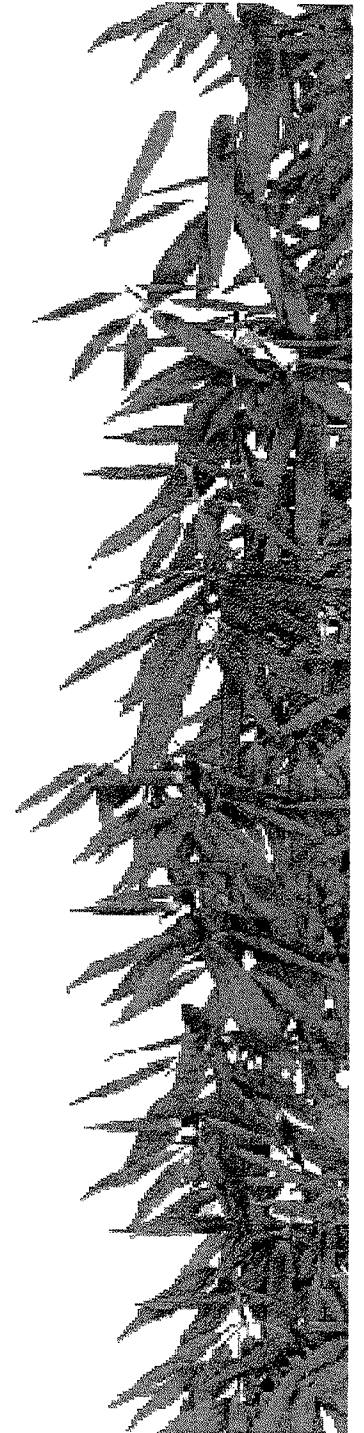
How personalized are our BR CA therapies?

- * We can select drugs based on ER (estrogen receptor)/PR (progesterone receptor) testing
- * Select drugs based on Her2neu testing. This is “targeted” therapy: Trastuzumab, lapatinib



How personalized are our BR CA therapies?

- * Select need for chemotherapy based on gene profiles of a particular cancer: Oncotype Dx, mammoprint, others are coming**
- * Select drug based on targeting new blood vessel growth: called Anti-angiogenic therapy (This is not specific for BR CA)**
- * Select appropriate types and fields for Radiation therapy- this is personalized**



**We want the Right
Treatment
for the Right Patient
at
the Right Time**

