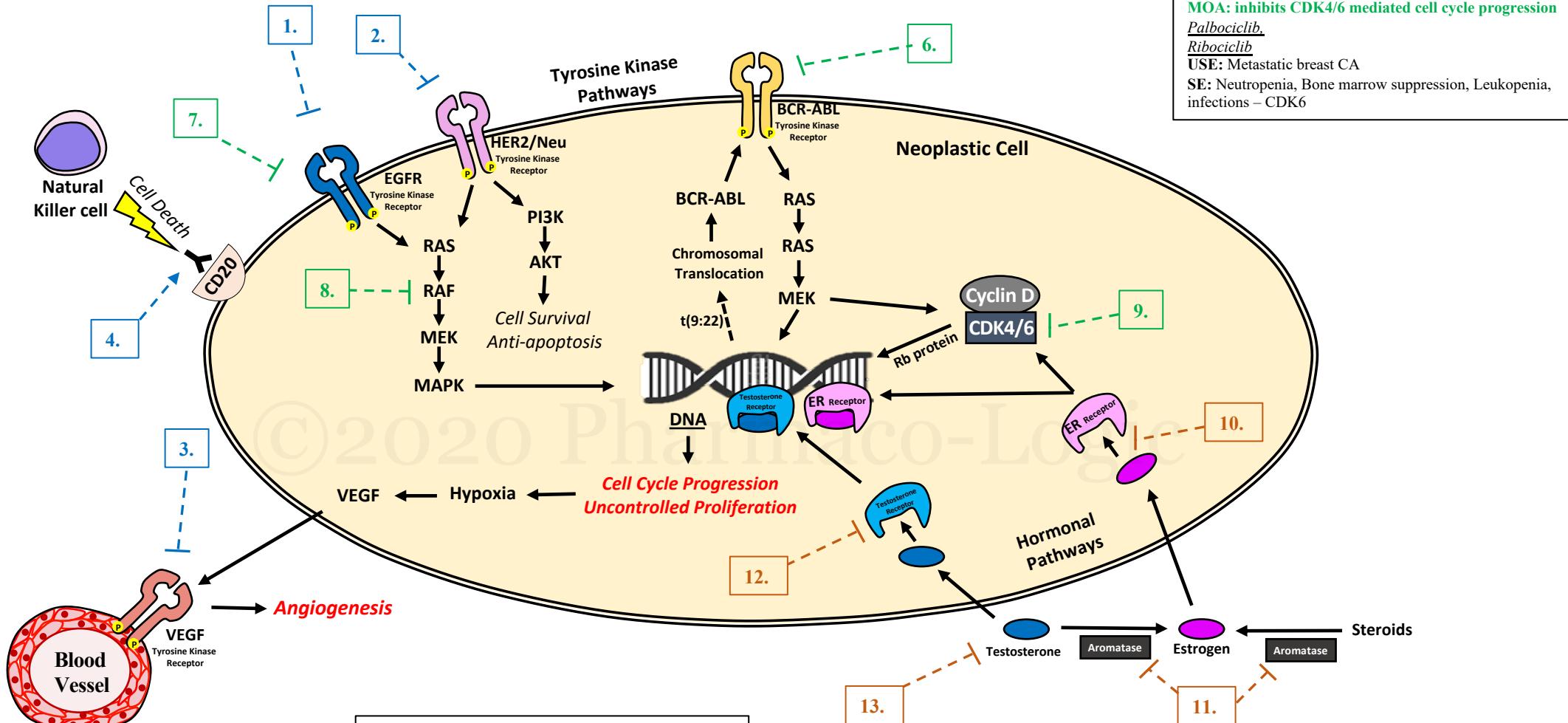


1. Cetuximab MOA: Monoclonal antibody directed against EGFR USE: Colon CA, Squamous Cell carcinoma Resistance: Constitutively active downstream kinases SE: Hypersensitivity, Acneiform rash, Diarrhea	3. Bevacizumab MOA: Monoclonal antibody directed against VEGF → prevents angiogenesis USE: Metastatic colon CA, Lung CA, Metastatic Breast CA Resistance: Alternative angiogenic pathways SE: Hypersensitivity, Fatigue, diarrhea, GI bleeding	5. Gemtuzumab ozogamicin MOA: Antibody conjugated to Calicheamicin → targets CD33 → binds to DNA and causes DNA Breaks USE: AML – CD33+ SE: Myelosuppression, Hepatotoxicity, Hypersensitivity	7. Tyrosine Kinase inhibitors - EGFR MOA: Inhibits EGFR receptor autophosphorylation <u>Erlotinib, Gefitinib</u> USE: NSC Lung CA, Pancreatic CA SE: Rash, Nausea, vomiting
2. Trastuzumab, Pertuzumab MOA: Monoclonal antibody directed against HER-2 USE: HER-2 positive Breast CA, Gastric CA SE: Hypersensitivity, Diarrhea, Cardiotoxicity (w/ anthracyclines) - HER2 decreases oxidative stress	4. Rituximab MOA: Monoclonal antibody directed against CD20 antigen on B-cells → activation of NK cells, apoptosis USE: Non-Hodgkin's lymphoma, CLL (CHOP-R), RA SE: Hypersensitivity, serum sickness	6. Tyrosine Kinase inhibitors - BCR-ABL MOA: Inhibits BCR-ABL tyrosine kinase <u>Imatinib, Ponatinib</u> USE: Philadelphia (+) CML, ALL, GI tumors Resistance: BCR-ABL amplification/mutation SE: Myelosuppression, GI distress, fluid retention	8. BRAF inhibitors MOA: inhibits BRAF mediated cell proliferation <u>Vemurafenib, Dabrafenib</u> USE: Melanoma, NSC Lung CA SE: Skin cancer
			9. CDK4/6 inhibitors MOA: inhibits CDK4/6 mediated cell cycle progression <u>Palbociclib, Ribociclib</u> USE: Metastatic breast CA SE: Neutropenia, Bone marrow suppression, Leukopenia, infections – CDK6



10. Selective Estrogen Receptor Modulators
MOA: Binds to and inhibits Estrogen Receptor → decreases ER mediated proliferation
Tamoxifen Antagonist-breast, Agonist-bone/endometrium
Raloxifene
USE: ER(+) breast cancer
SE: Hot flushes, ↑ risk of DVT and endometrial CA

11. Aromatase inhibitors
MOA: Prevents the conversion of testosterone to estrogen → decreased ER receptor activation
Anastrozole
Letrozole
USE: Postmenopausal ER(+) breast cancer (SERM resistant)
SE: Osteoporosis, ↑ risk of DVT

12. Anti-androgens
MOA: Androgen receptor antagonist
Flutamide
Bicalutamide
USE: Prostate CA – prevent androgen surge from Goserelin TX
SE: Hot flushes, Gynecomastia, ↑ risk of Breast CA

13. Hormonal Feedback Regulators
MOA: Synthetic analog of GnRH → activates negative feedback loop → decreased estrogen/testosterone production
Leuprolide
Goserelin
USE: Breast CA, Prostate CA, Uterine fibroids, endometriosis
SE: Hot flushes, Impotence, osteoporosis