



Cancer

(I can grow if I want to! Just try and stop
me . . .)

Definitions

“Benign”

Malignant

Carcinoma

Sarcoma

Leukemia

Lymphoma

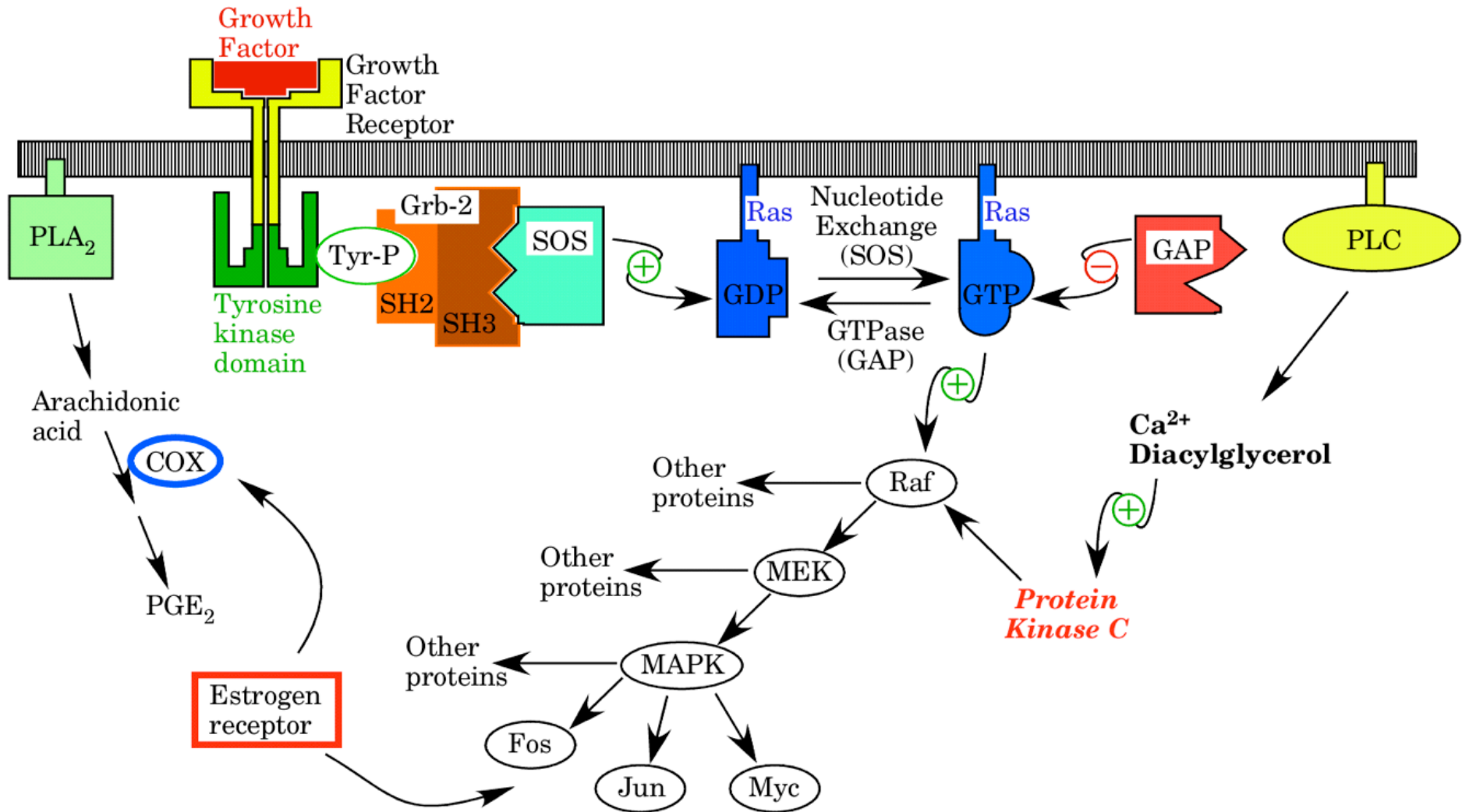
Definitions

Tumor Suppressor

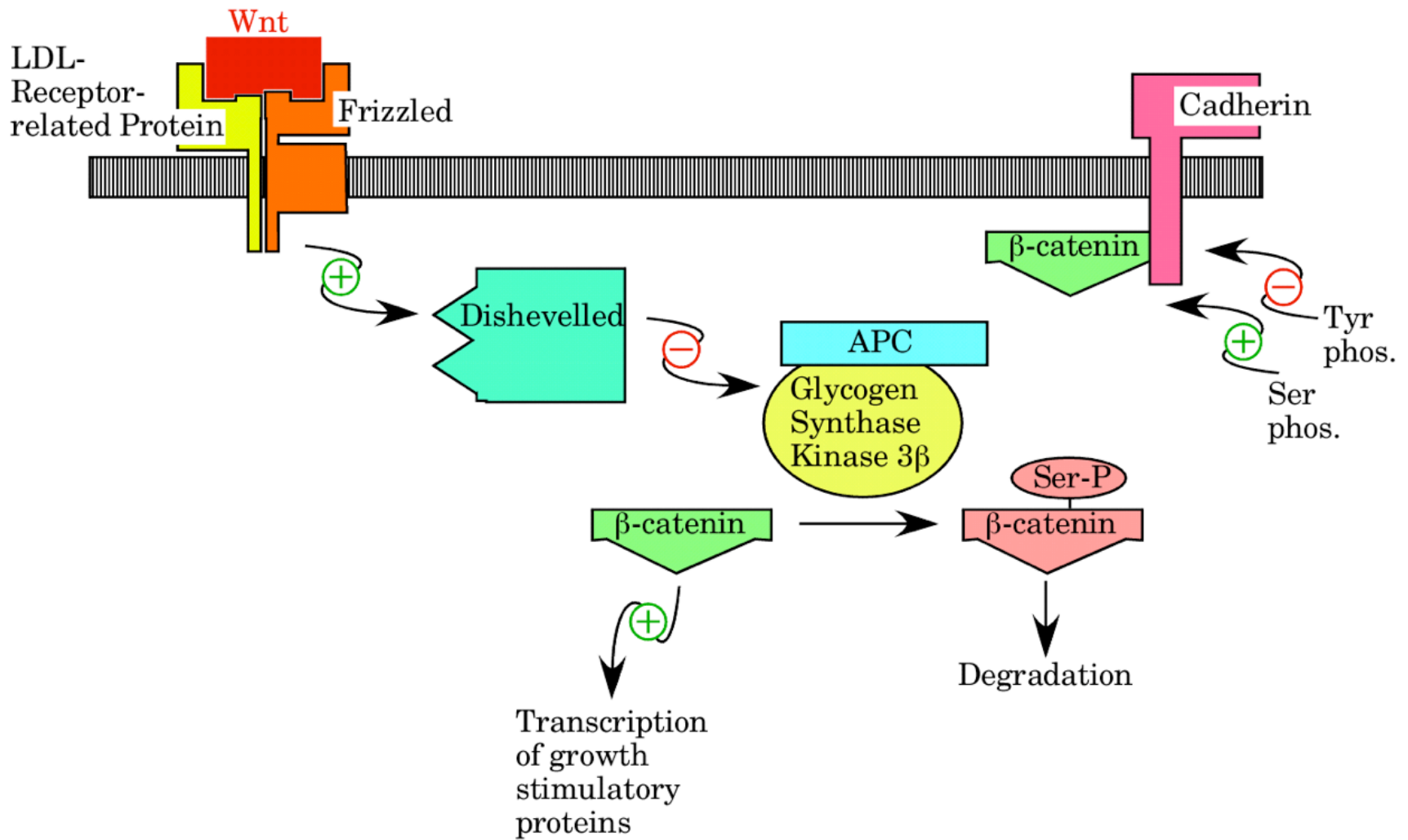
Oncogene

Proto-oncogene

Signaling and Cell Growth



Wnt Signaling



Apoptosis

Extrinsic Pathway

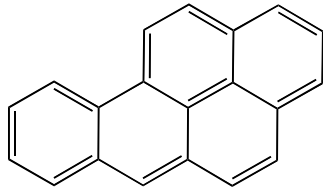
FAS, TNF

Intrinsic Pathway

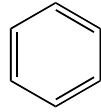
Cytochrome *c*

Caspase

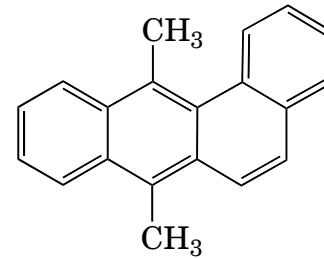
Carcinogens



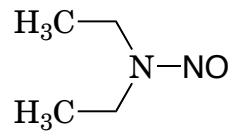
Benzo[a]pyrene



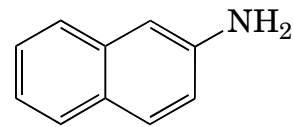
Benzene



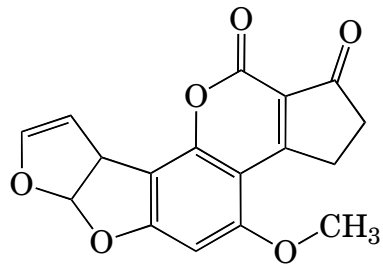
9,10-Dimethyl-
1,2-benzanthracene
(DMBA)



N-Nitrosodiethylamine

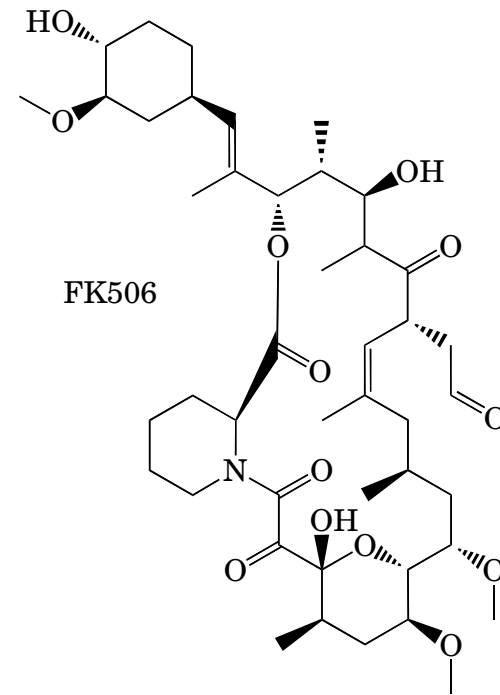
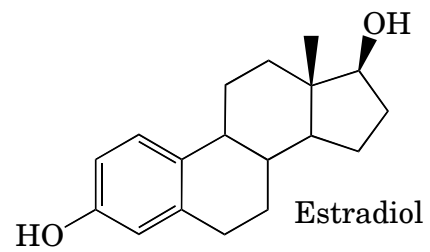
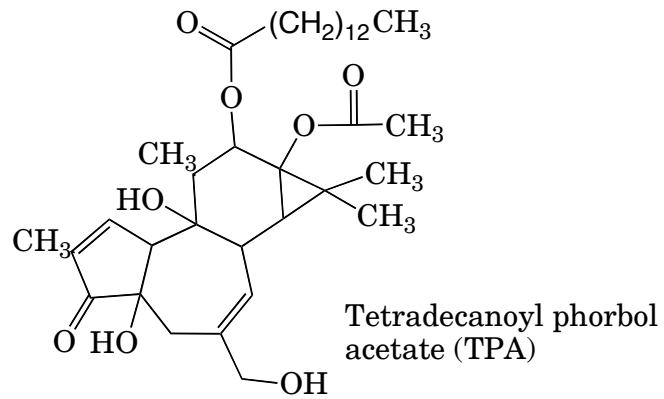


2-Naphthylamine

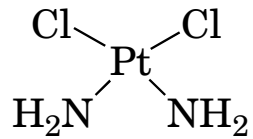


Aflatoxin

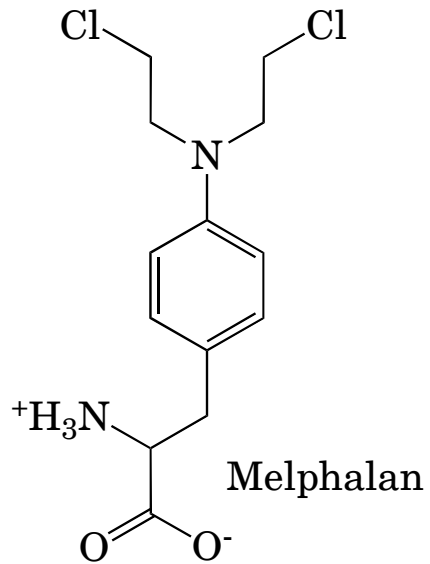
Tumor Promoters



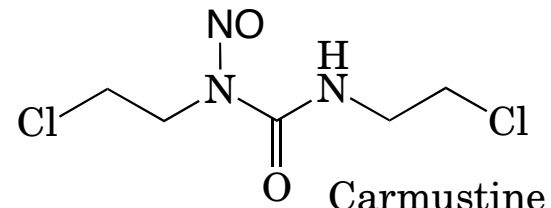
Cytotoxic Chemotherapeutic Agents



Cisplatin

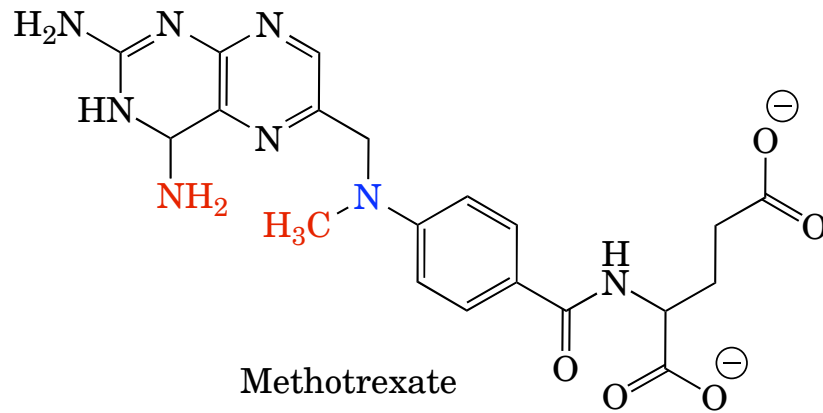
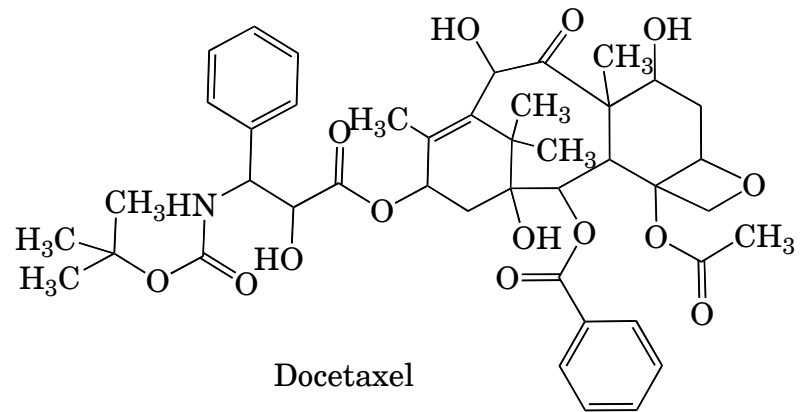
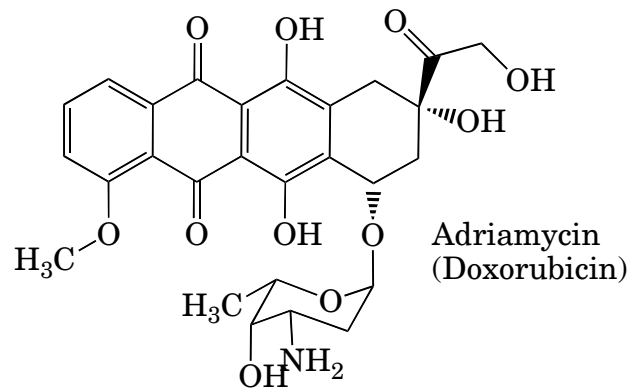


Melphalan

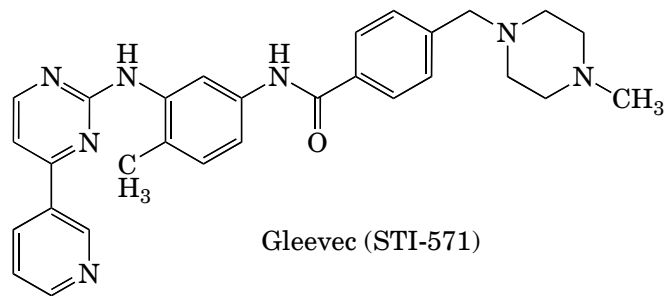


Carmustine

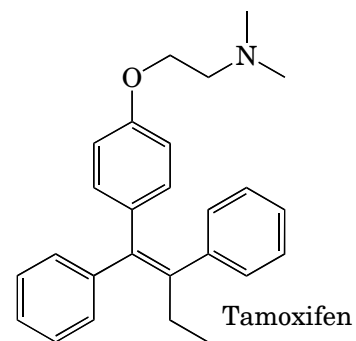
Cytotoxic Chemotherapeutic Agents



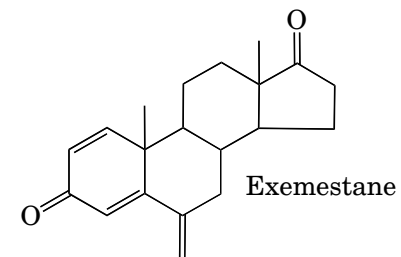
Targeted Anti-tumor Agents



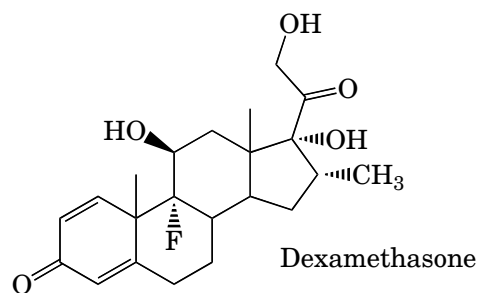
Gleevec (STI-571)



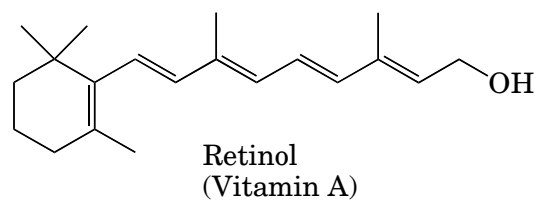
Tamoxifen



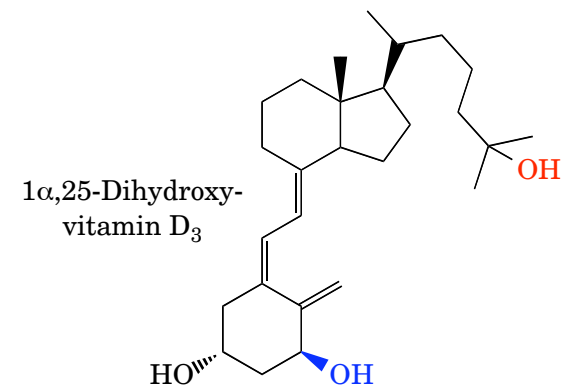
Exemestane



Dexamethasone



Retinol
(Vitamin A)



1 α ,25-Dihydroxy-
vitamin D₃

Angiogenesis

VEGF (Vascular Endothelial Growth Factor)