

Objects



gene product, mostly
protein but including RNA



other molecule, mostly
chemical compound



another map

Arrows



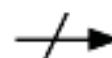
molecular interaction or relation



link to another map

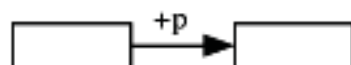


pointer used in legend

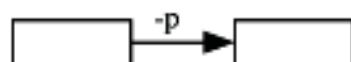


missing interaction (eg., by mutation)

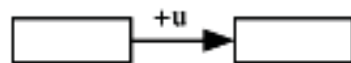
Protein-protein interactions



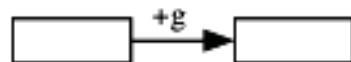
phosphorylation



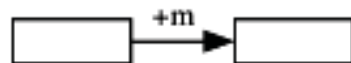
dephosphorylation



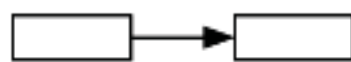
ubiquitination



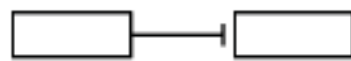
glycosylation



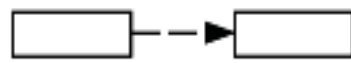
methylation



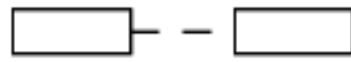
activation



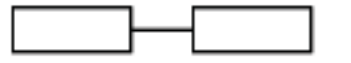
inhibition



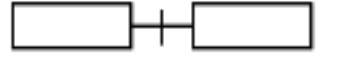
indirect effect



state change



binding / association

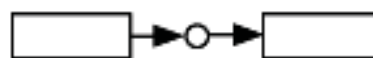


dissociation

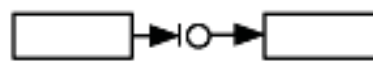


complex

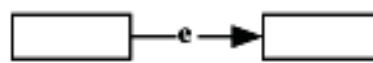
Gene expression relations



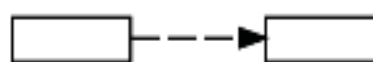
expression



repression

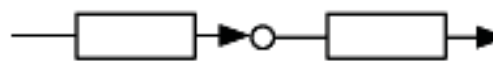


expression



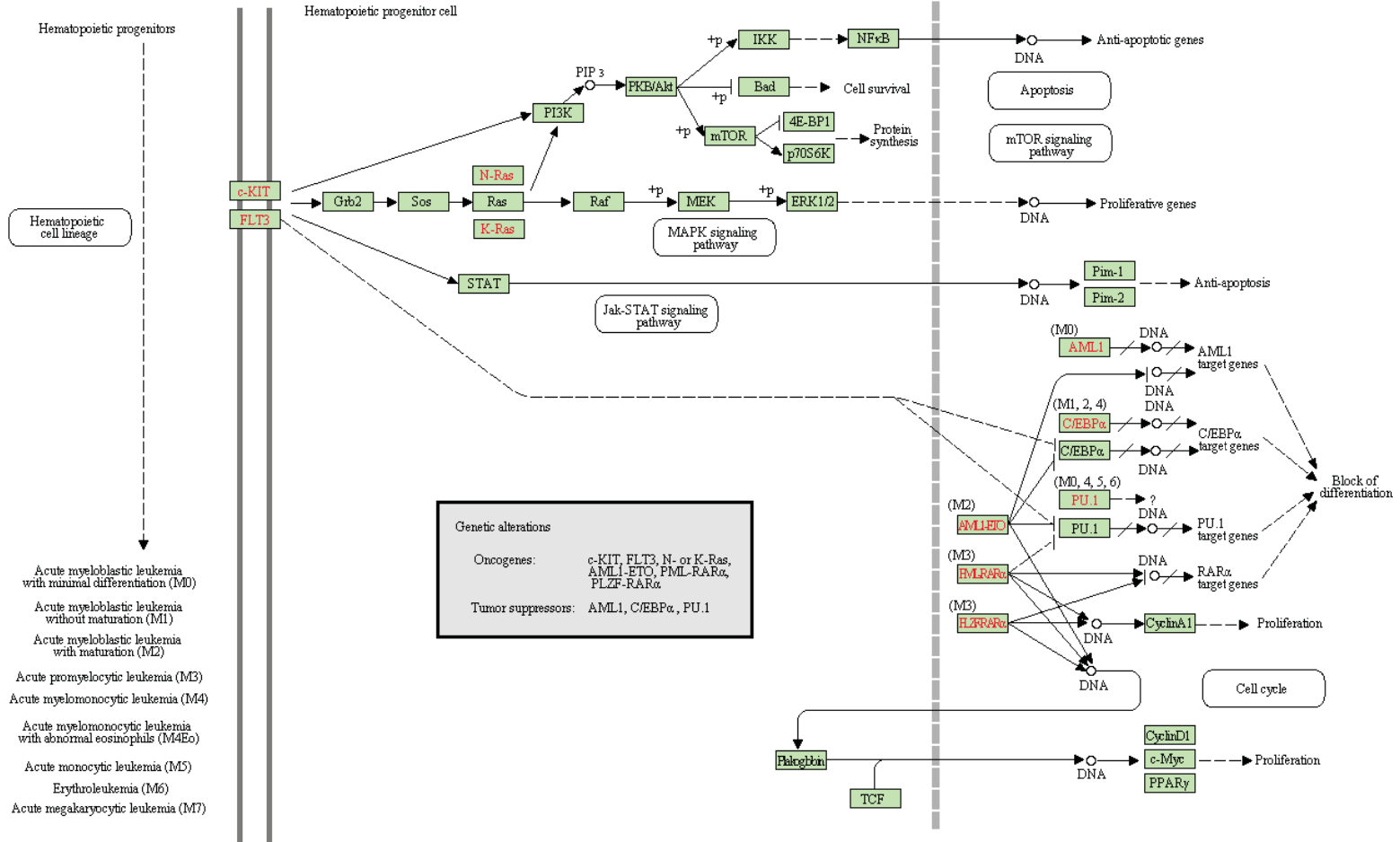
indirect effect

Enzyme-enzyme relations

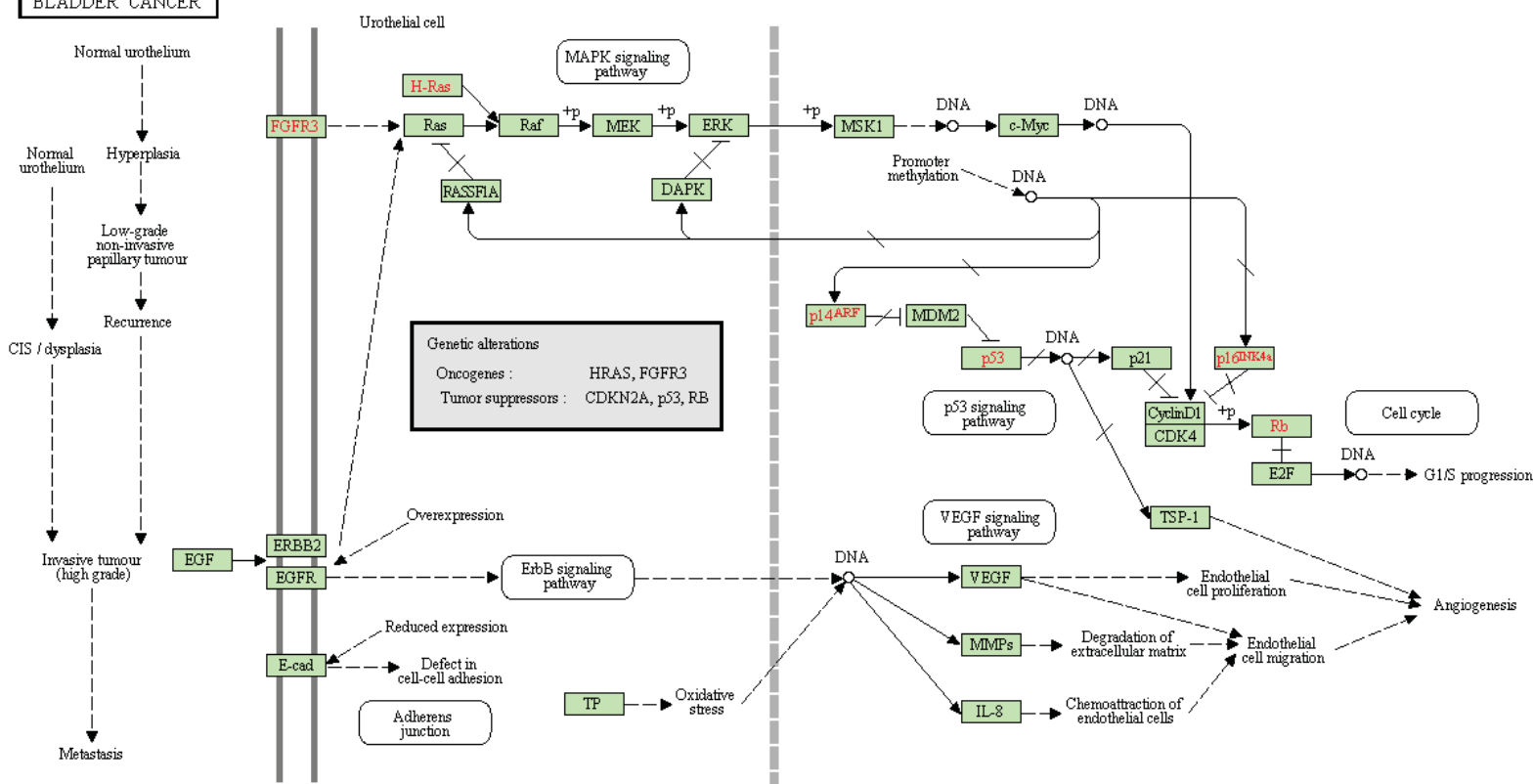


two successive
reaction steps

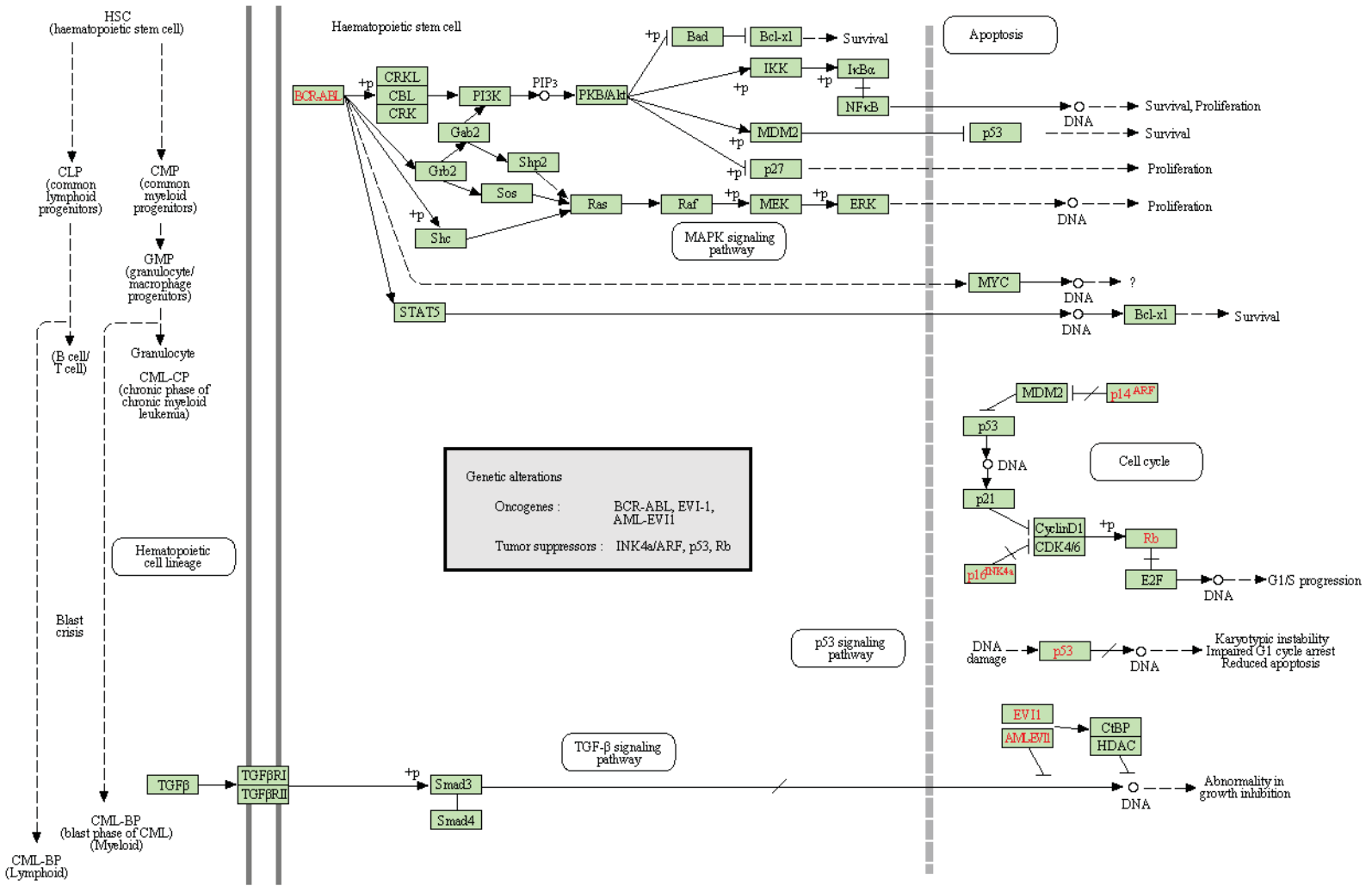
ACUTE MYELOID LEUKEMIA



BLADDER CANCER



CHRONIC MYELOID LEUKEMIA



COLORECTAL CANCER

Chromosome Unstable (CIN) pathway Microsatellite Unstable (MSI) pathway

Normal epithelium

Dysplastic ACF

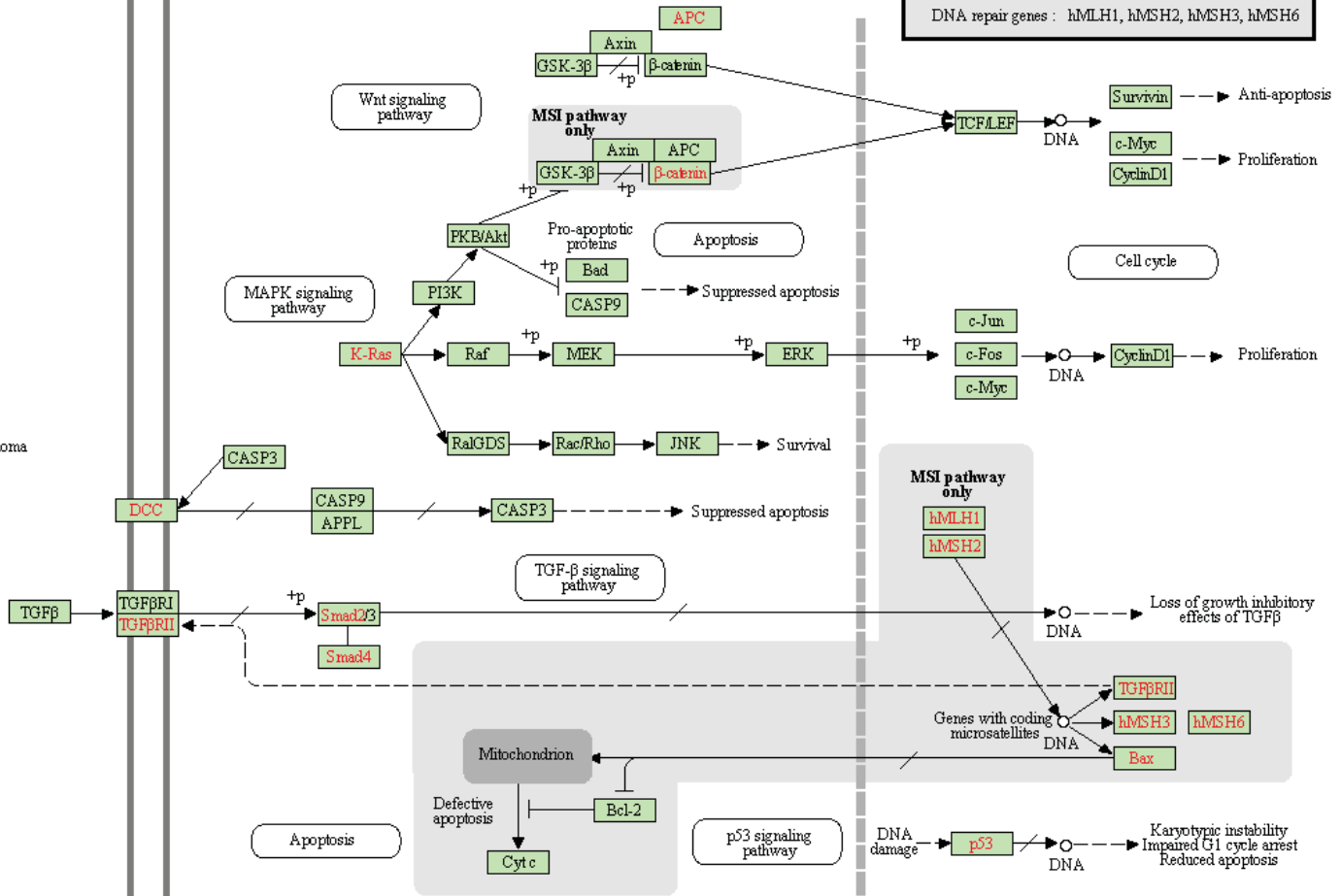
Early adenoma

Intermediate adenoma

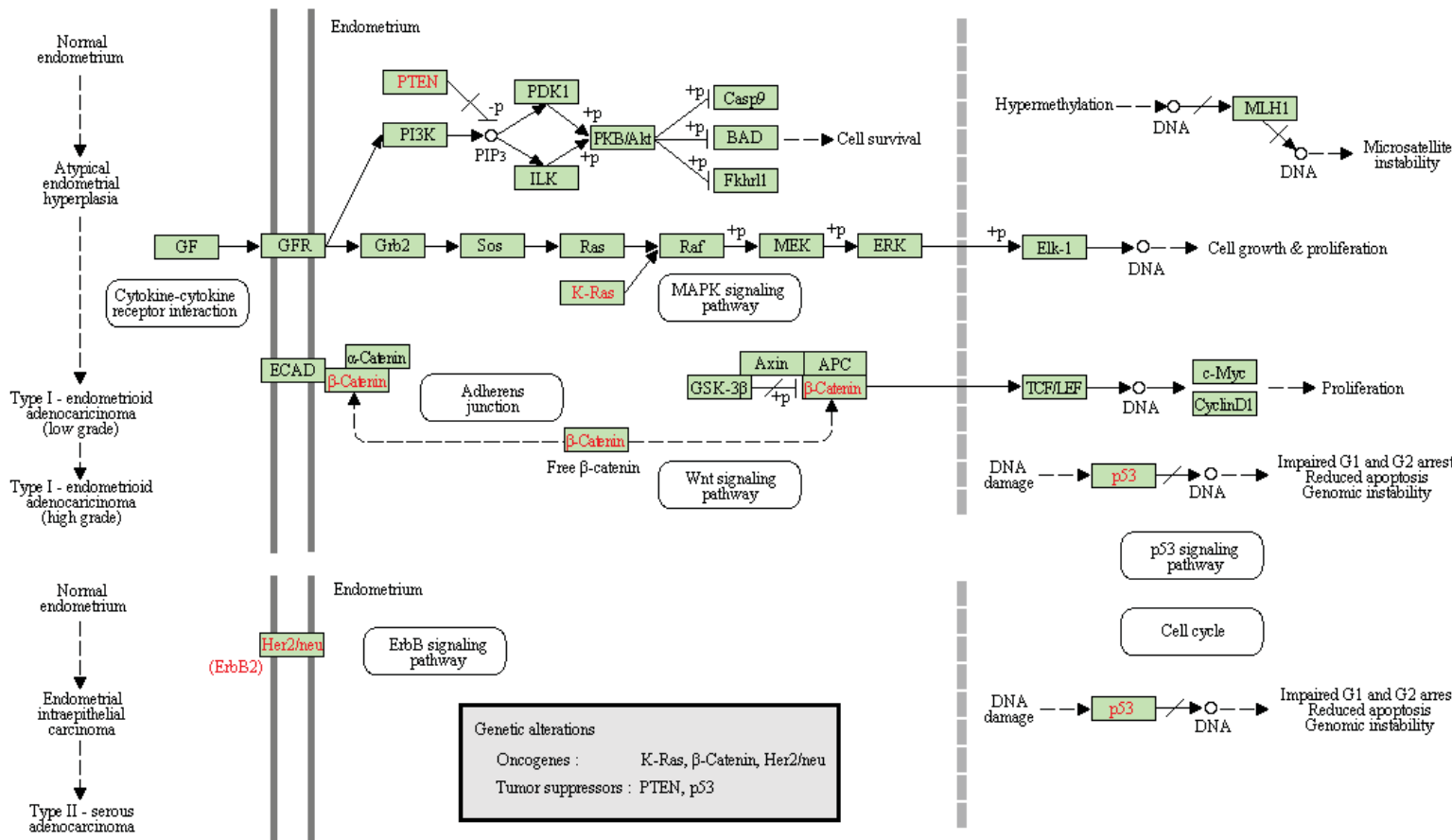
Late adenoma

Carcinoma

Colorectal epithelial cell



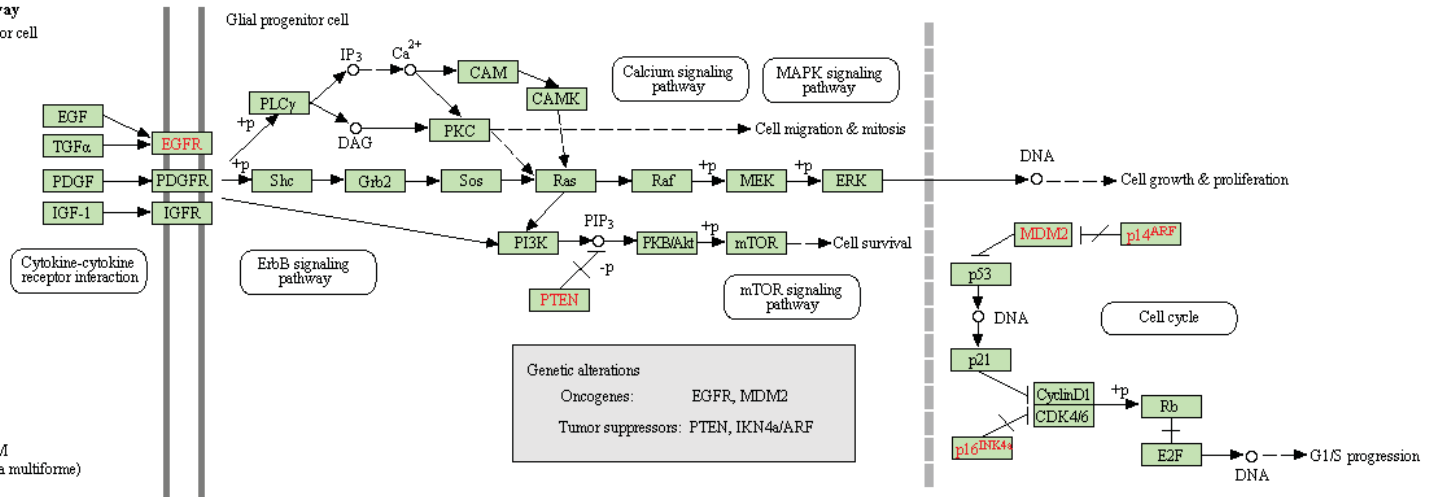
ENDOMETRIAL CANCER



GLIOMA

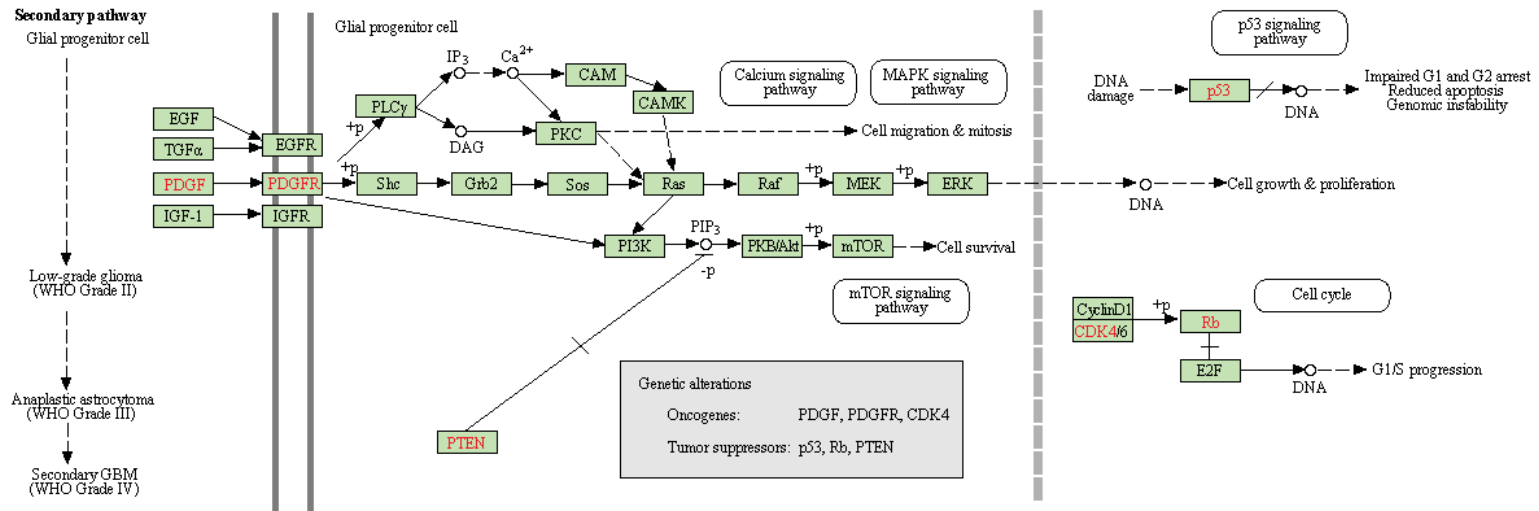
De Novo pathway

Glial progenitor cell

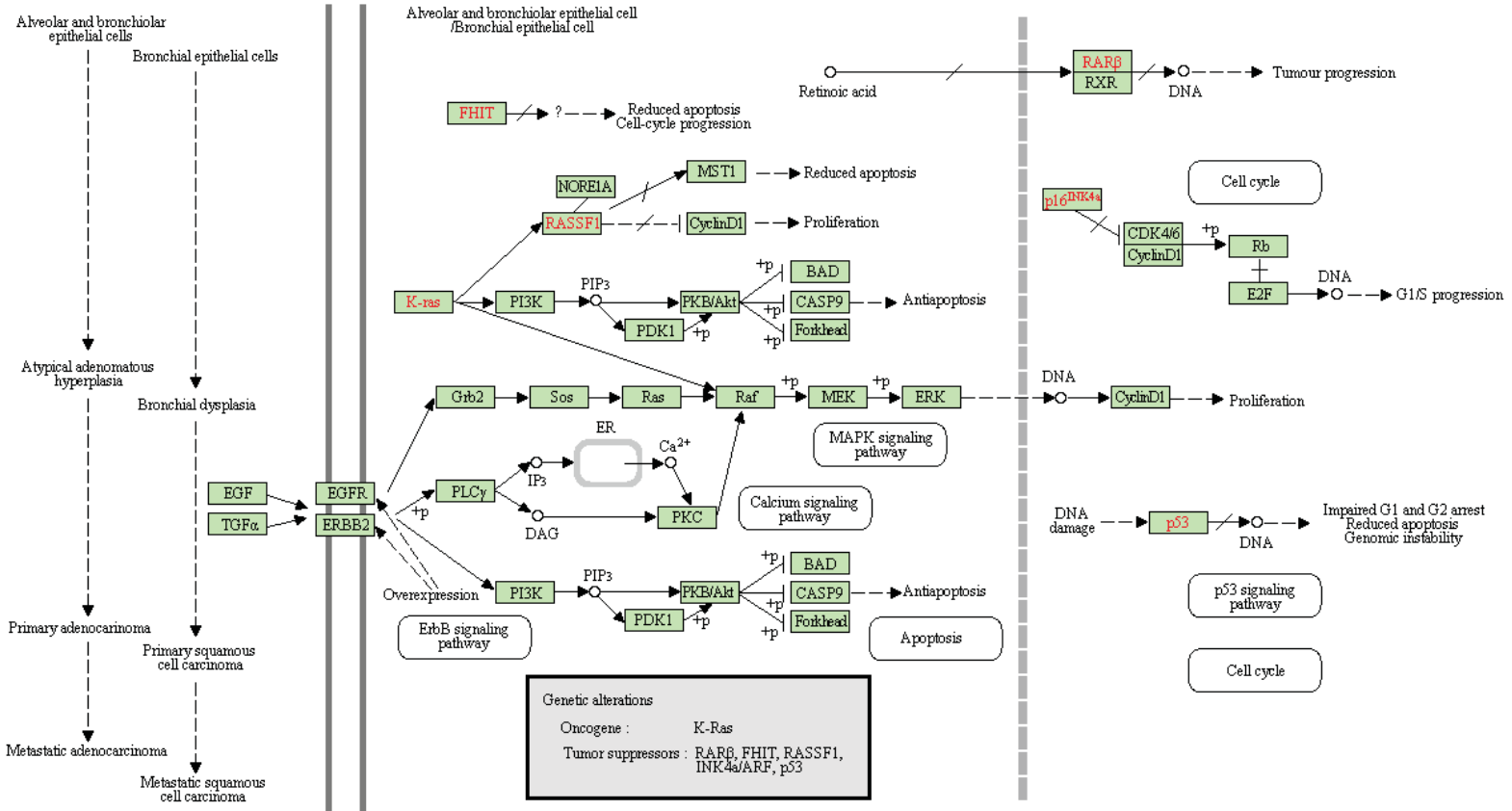


Secondary pathway

Glial progenitor cell



NON-SMALL CELL LUNG CANCER



PANCREATIC CANCER

Chromosome Unstable (CIN) pathway

Normal duct

PanIN-1A
(Pancreatic intraepithelial neoplasia)

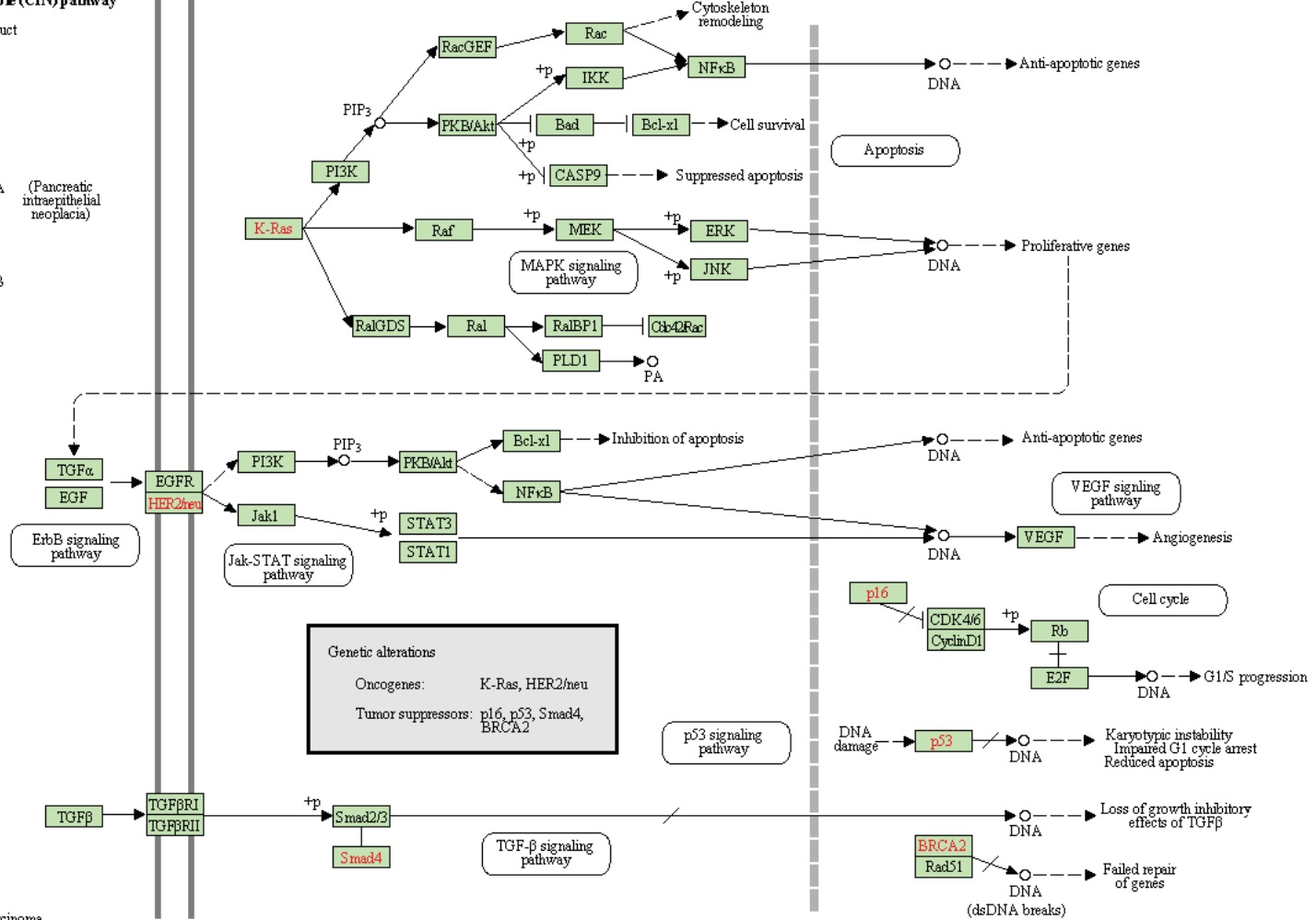
PanIN-1B

PanIN-2

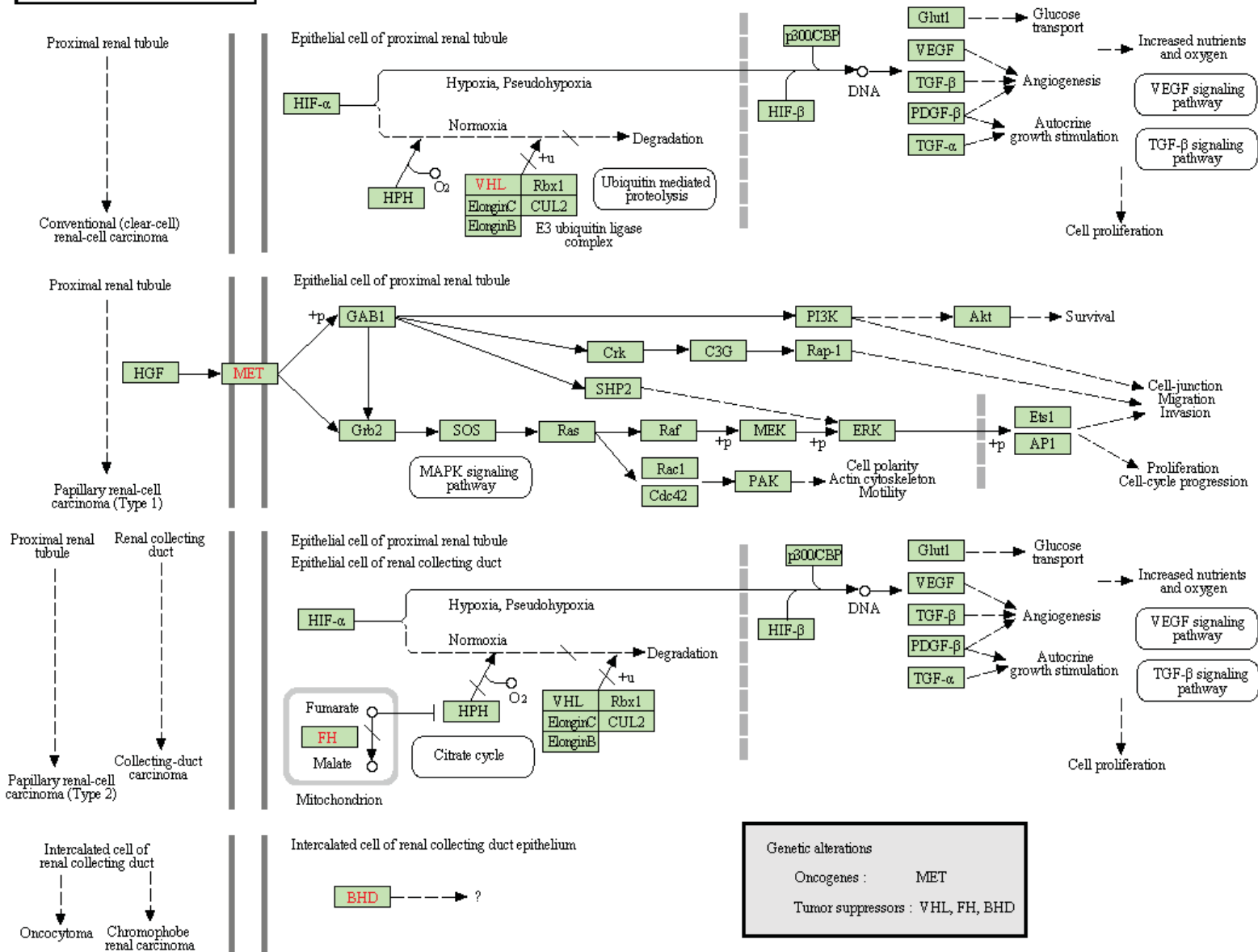
PanIN-3

Adenocarcinoma

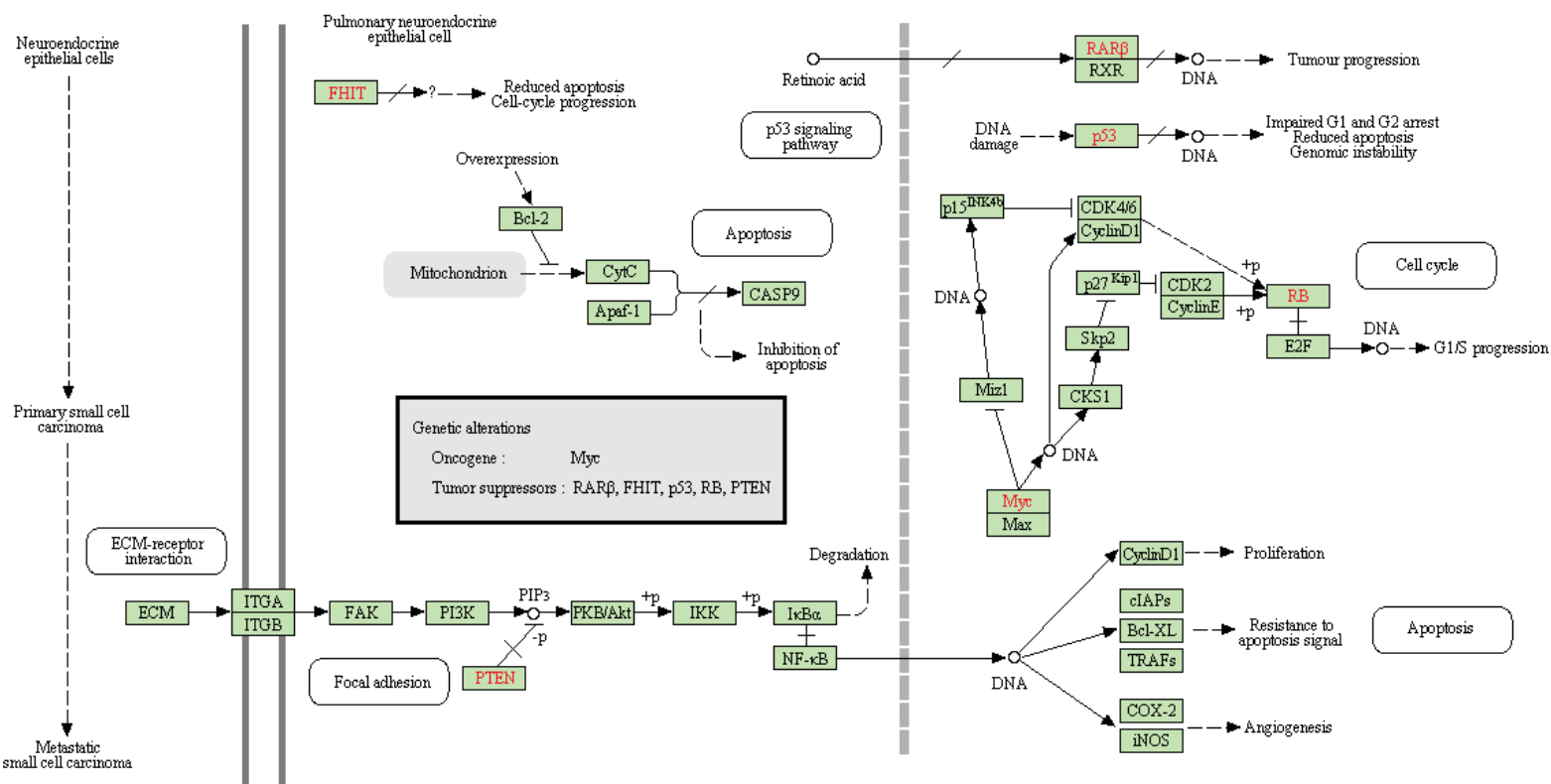
Pancreatic ductal cell



RENAL CELL CARCINOMA



SMALL CELL LUNG CANCER



THYROID CANCER

