KIRC - Kidney renal clear cell carcinoma

Subtype	Biology & Expression	Genomic Alterations	Clinical Features
ccA (Clear	High oxidative phosphorylation &	VHL loss or mutation	Favorable prognosis
cell A)	fatty-acid metabolism	 Frequent PBRM1 	 Lower stage/grade at
	 Strong angiogenic (VEGF) signaling 	mutations	diagnosis
	Low proliferation &	 Relatively low overall 	 Longer overall survival
	immune-infiltrate signatures	mutation and CNA	 Better responses to
		burden	VEGF-targeted therapies
ccB (Clear	Upregulated cell-cycle, EMT &	Enriched BAP1 and	Poor prognosis
cell B)	extracellular-matrix remodeling	SETD2 mutations	 Higher stage/grade at
	programs	 Higher chromosomal 	presentation
	High proliferation	instability and CNA	 Shorter overall survival
	 Elevated immune/inflammatory 	burden	 Less benefit from
	signatures		anti-angiogenic agents