

Cell Alignment: Hedgehog Cancers

As cellular research evolved in silos without a globally universal model (platform), a large number of designations emerged for these epigenetic activities.

The following link explains one of the causal paths for Hippo-YAK cancers as well as for Neurofibromatosis.

<https://www.mcfip.net/upload/Hippo%20and%20YAP%20Activities.pdf>

The same problem exists for Hedgehog cancers (SHH - Sonic, DHH - Desert and Indian - IHH).

Qualified computational biologists can verify the facts that Hippo-YAK cancers are caused by the same factors as the Hedgehog Pathway; i.e. SHH - DHH - IHH.

The following illustration is provided for verification of this assertion.

Cell Alignment: For Explanation and Discussion

TNF-Alpha: TGF-Alpha (Calnexin) Density (CD-4)

Calcium - threonine - magnesium (BRCA1) **p16**
Calcium - serine - magnesium (BRCA2) **p18**
Calcium - cysteine - magnesium (BRCA3) **p19**

For Discussion:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3436948/>

TNF-Beta: TGF-Beta (Calmodulin) Motility (CD-8)

Calcium - phenylalanine - magnesium (HRas) **p21**
Calcium - tyrosine - magnesium (KRas) **p27**
Calcium - tryptophan - magnesium (NRas) **p57**

TNF-Gamma: TGF-Gamma [VEGF] (Calcineurin) Modulatory Enzyme (CD-25)

Iron - serine - Manganese
Iron - cysteine - Manganese
Iron - threonine - Manganese

These are examples of the "enzymes" that have evolved with various designations; e.g. AKT, mTOR, PTEN, NF-kB, and MYC.