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## Mechanisms of TRAIL-resistance

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Propositions

## **Mechanisms of TRAIL-Resistance**

Novel Targets to Enhance TRAIL Sensitization

for Cancer Therapy

**Baojie Zhang**

1. Reconstitution of fucosyltransferase 3/6 (FUT3/6) expression influences the formation of death-inducing signaling complex (DISC) and activation of caspase-8. (this thesis)
2. The presence of death receptor 5 (DR5) on extracellular vesicles (EVs) is one of the important factors leading to TRAIL-resistance in colon cancer cells. (this thesis)
3. Combination treatment with histone deacetylation inhibitors (HDAC inhibitors) and TRAIL can effectively kill cancer cells. (this thesis)
4. Histone acetyltransferase inhibitor (HAT inhibitor) A485 does not induce apoptosis by itself but it is a TRAIL sensitizer.(this thesis)
5. If do not speed up before bike upslope, one must bike much harder to get to the summit. (my view)
6. If I have a thousand ideas a year, and only one turns out to be good, I am satisfied.(adapted from Alfred Bernhard Nobel)