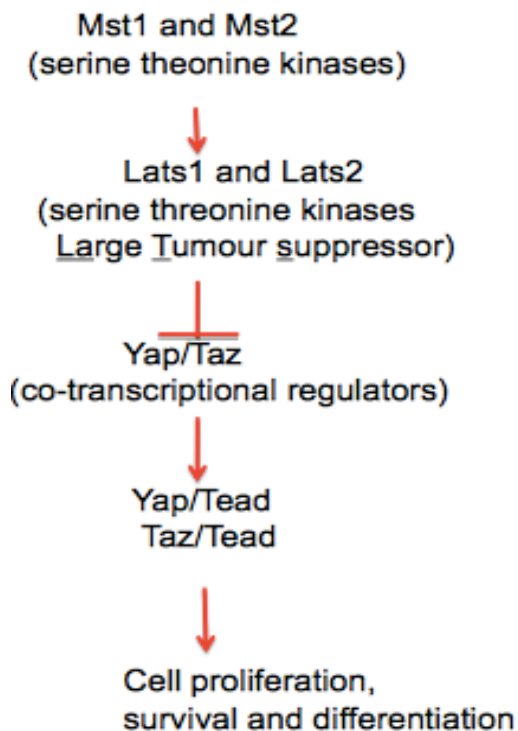




7. The deregulation of the Hippo pathway leads to over activation of Yap in proliferating cells, resulting in **excess proliferation in multiple tissues**, such as the liver, gut, skin and heart.
8. Additionally, there is an **inhibition of senescence** when Lats2 is knocked out. This is because Lats2 overexpression increases P_{RB} mediated silencing of E2F target genes that are involved in cell proliferation.
9. Overall, somatic germline mutations in the core hippo pathway are **rare**, but are found as **passenger mutations** (i.e. mutations that confer no selective advantage on a cell carrying it) in many cancer including lung, colorectal, ovarian, liver and prostate cancers.