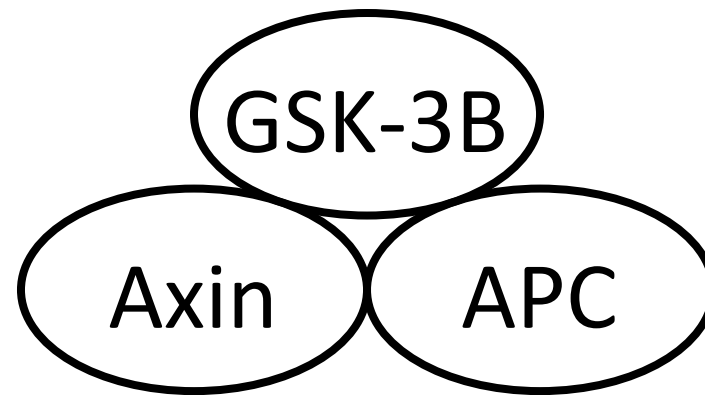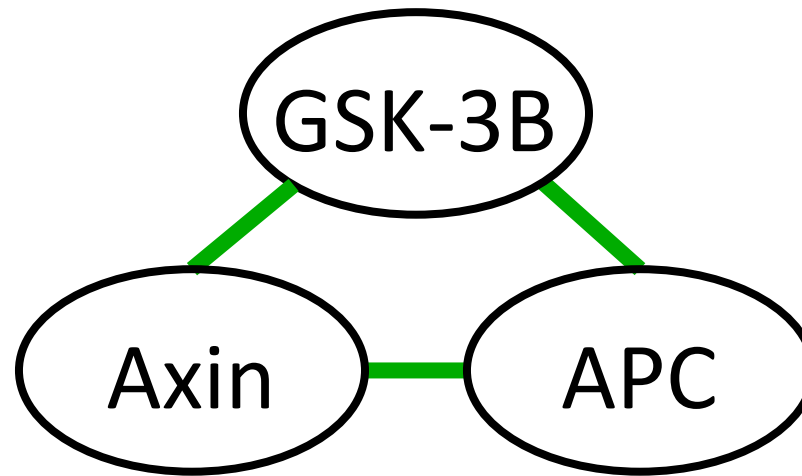# 1. complex
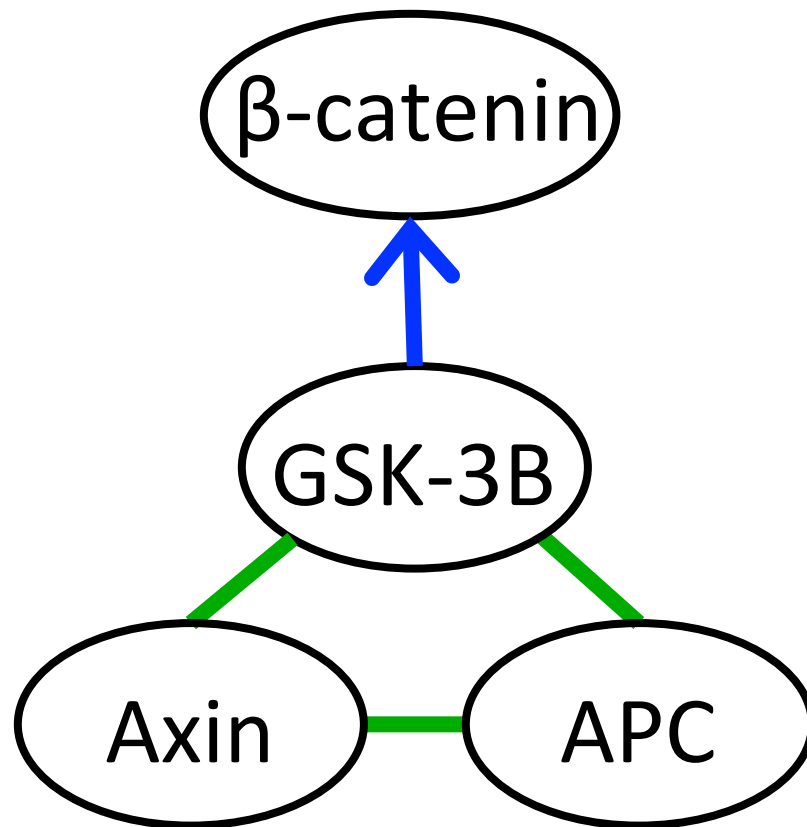
1a. Complex in graph
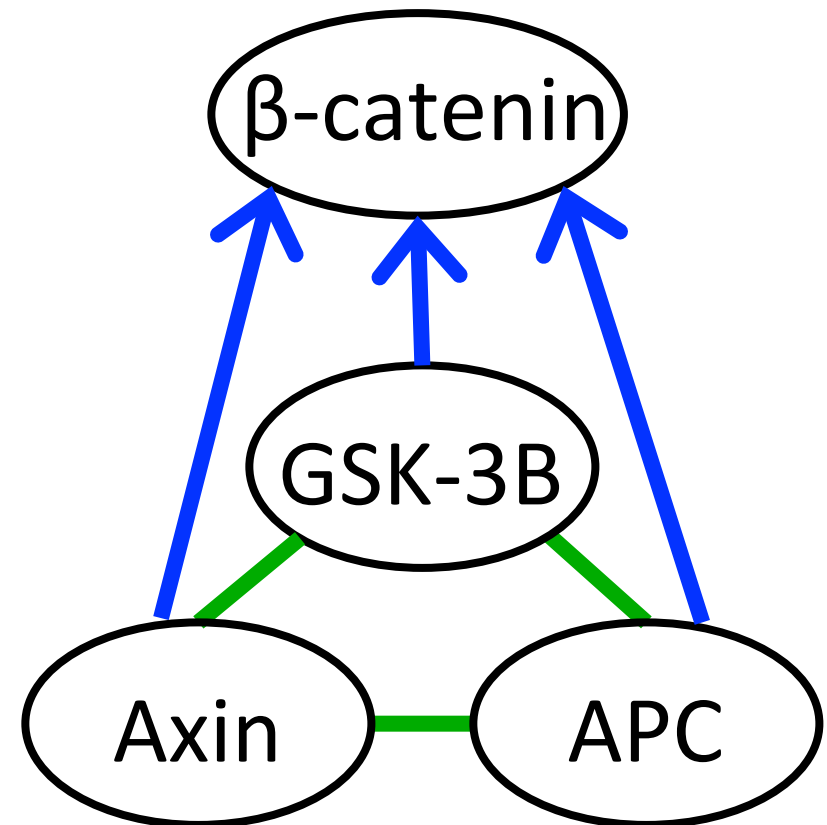
1b. Complex in hypergraph

GSK-3B

Axin

APC
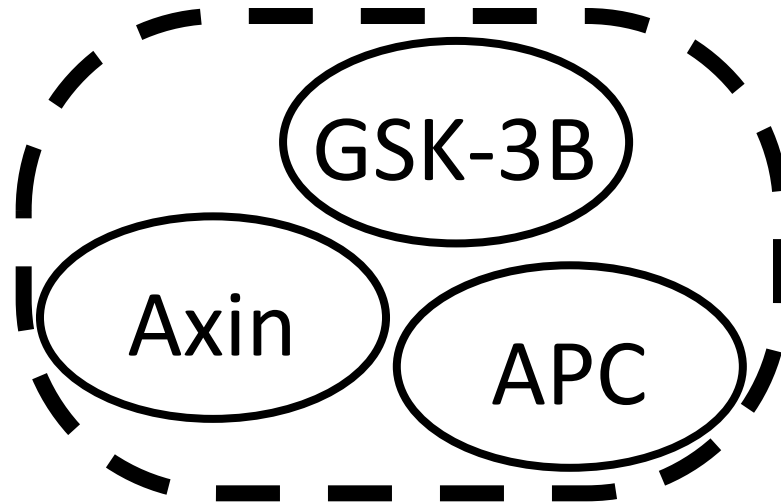
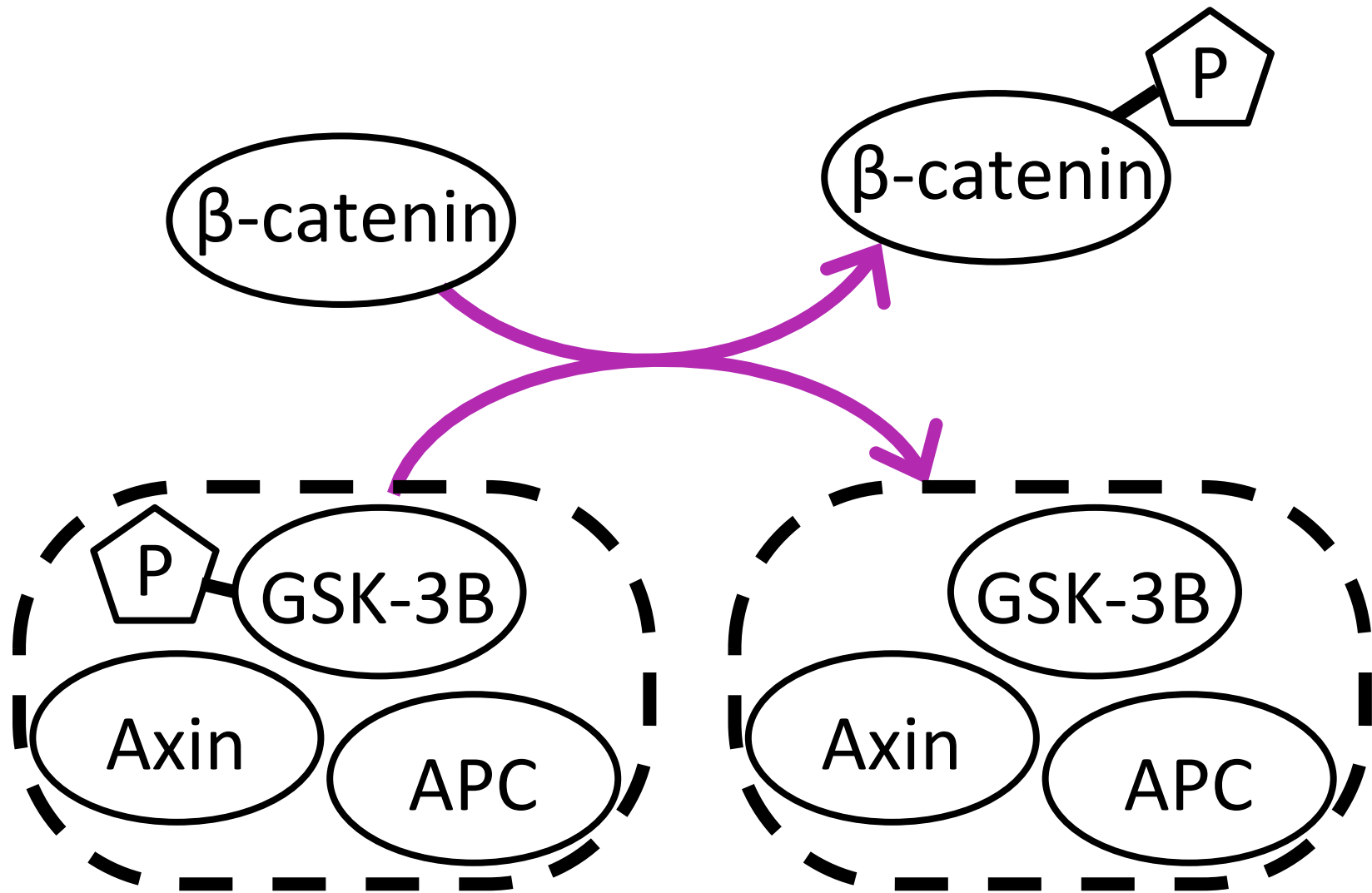## 2. Biochemical reaction(phosphorylation)
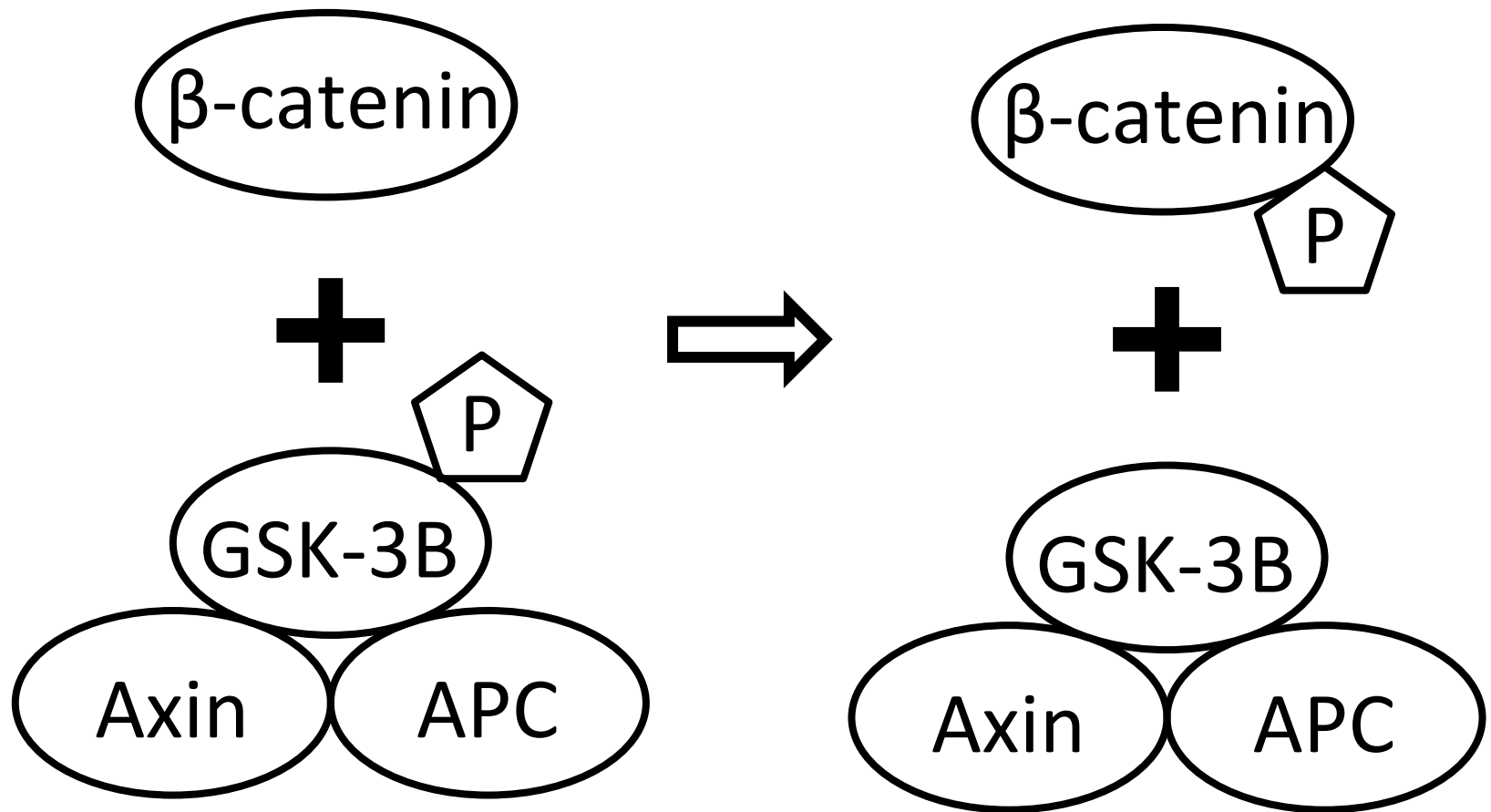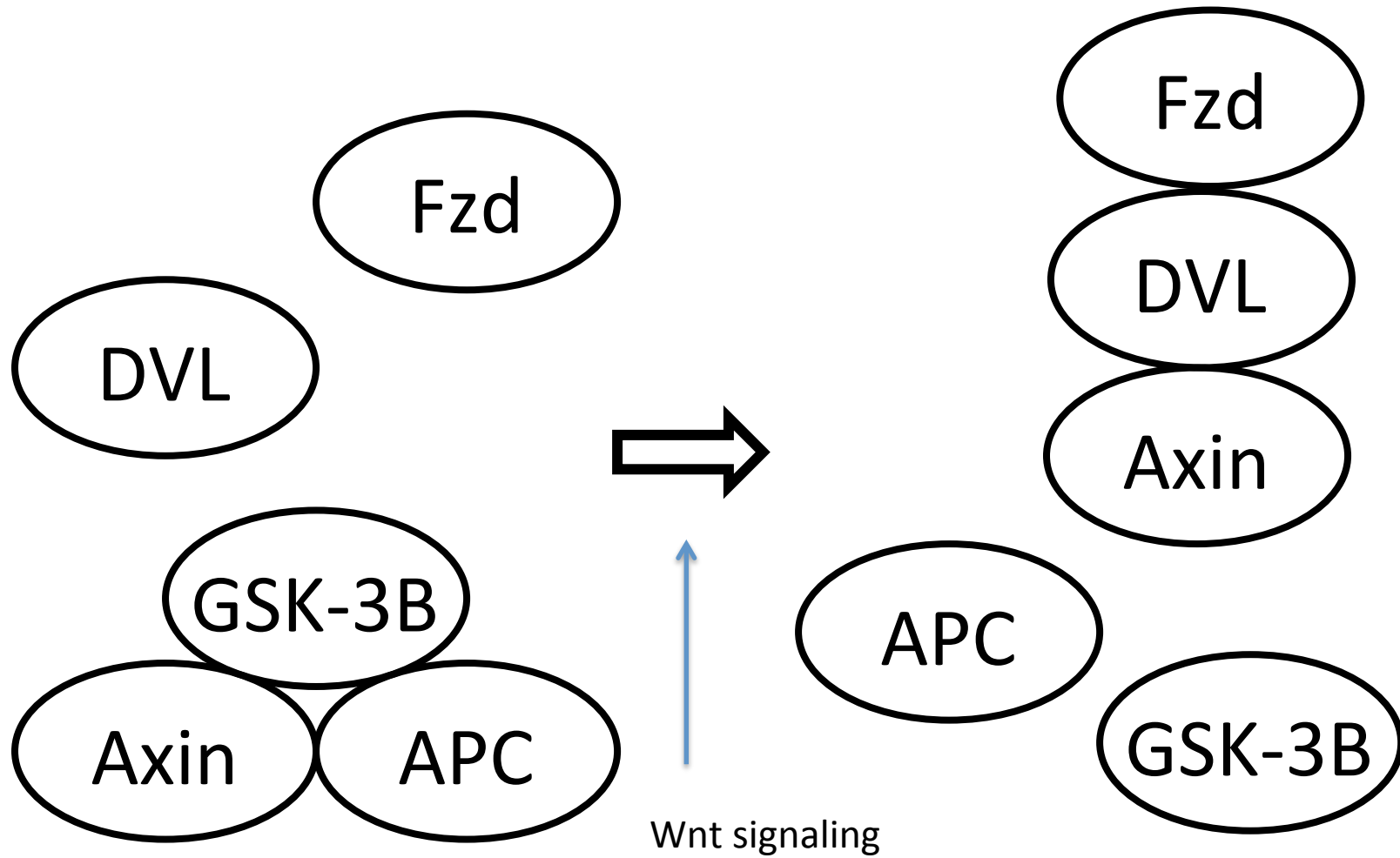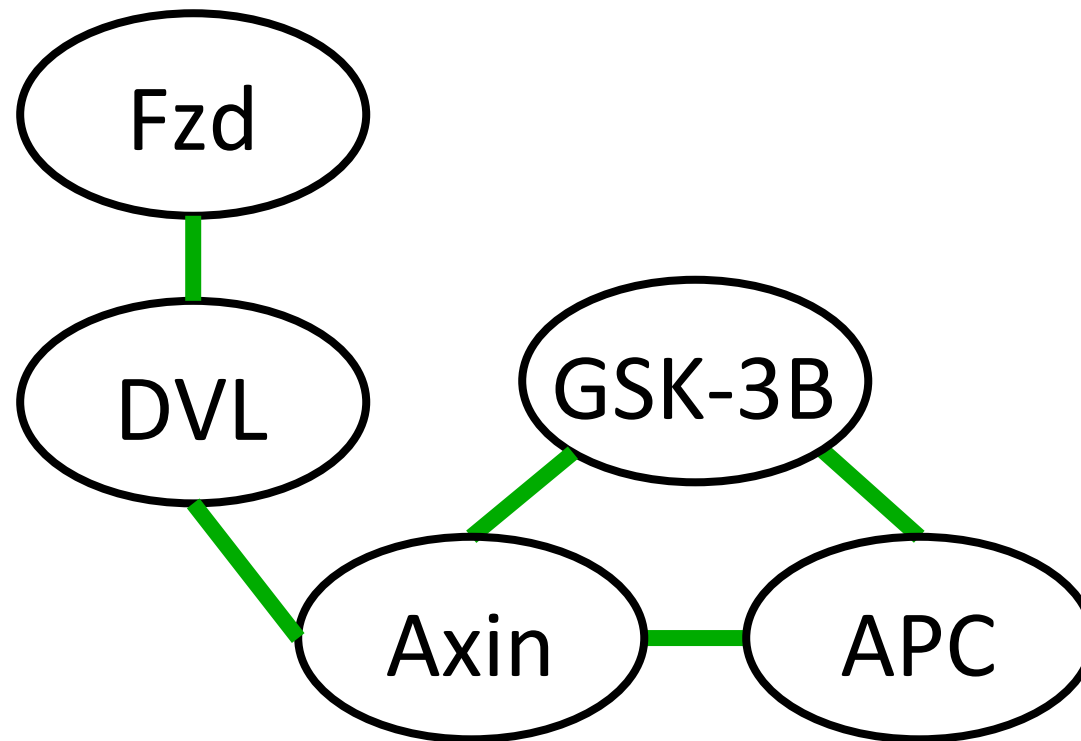
2a. Biochemical reaction (phosphorylation) in graph

or

2b. Biochemical reaction (phosphorylation) in hyper graph

3. Complex assembly

Fzd

DVL

GSK-3B

Axin APC
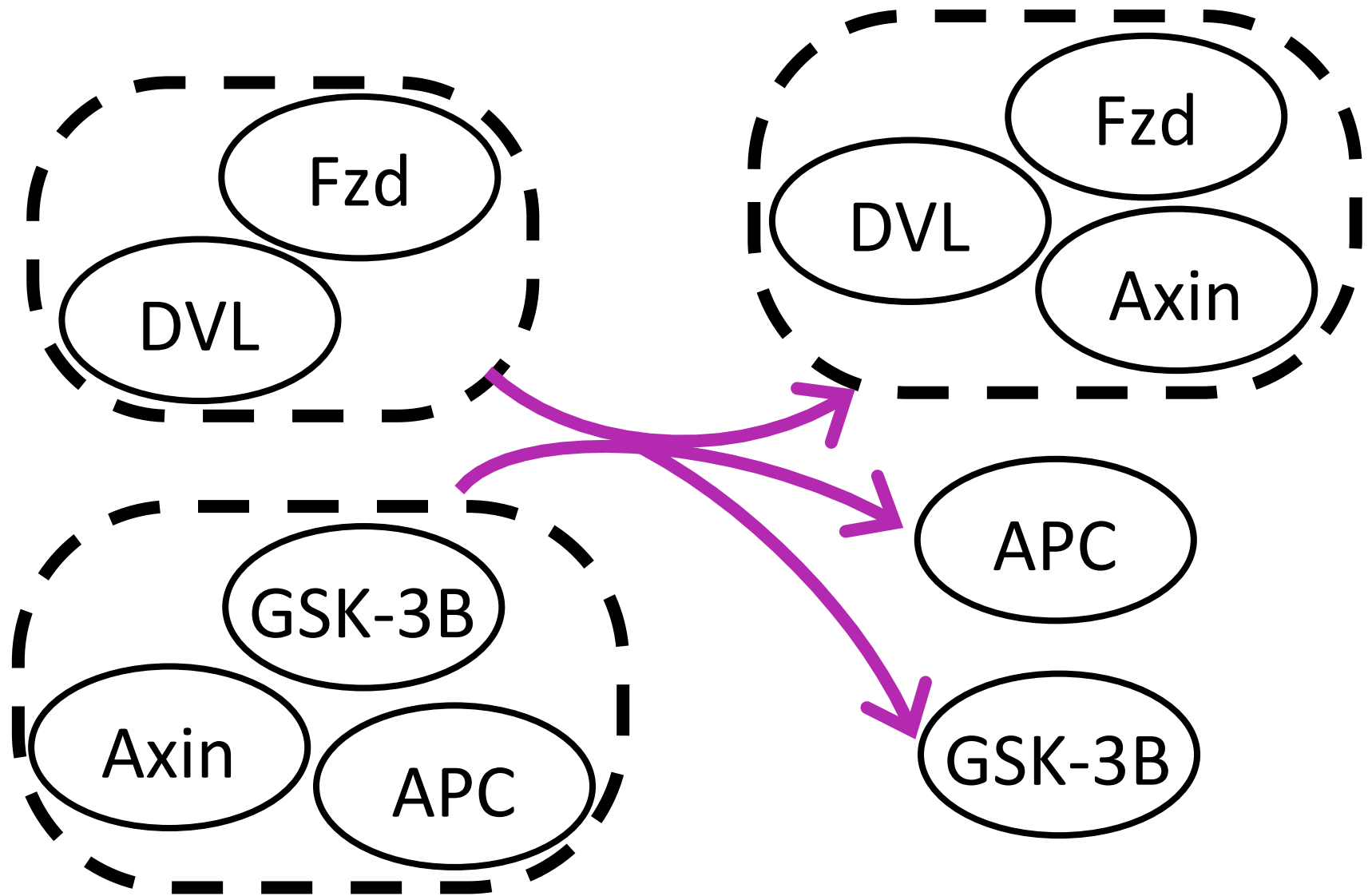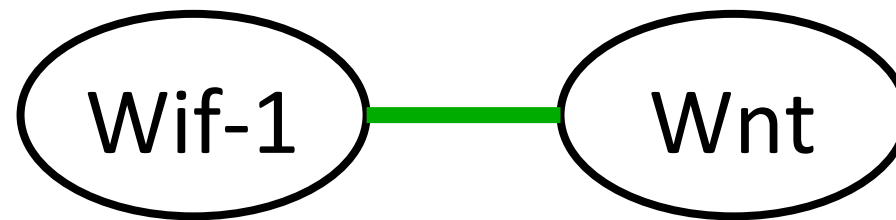
⟹

Wnt signaling

Fzd

DVL

Axin

APC

GSK-3B

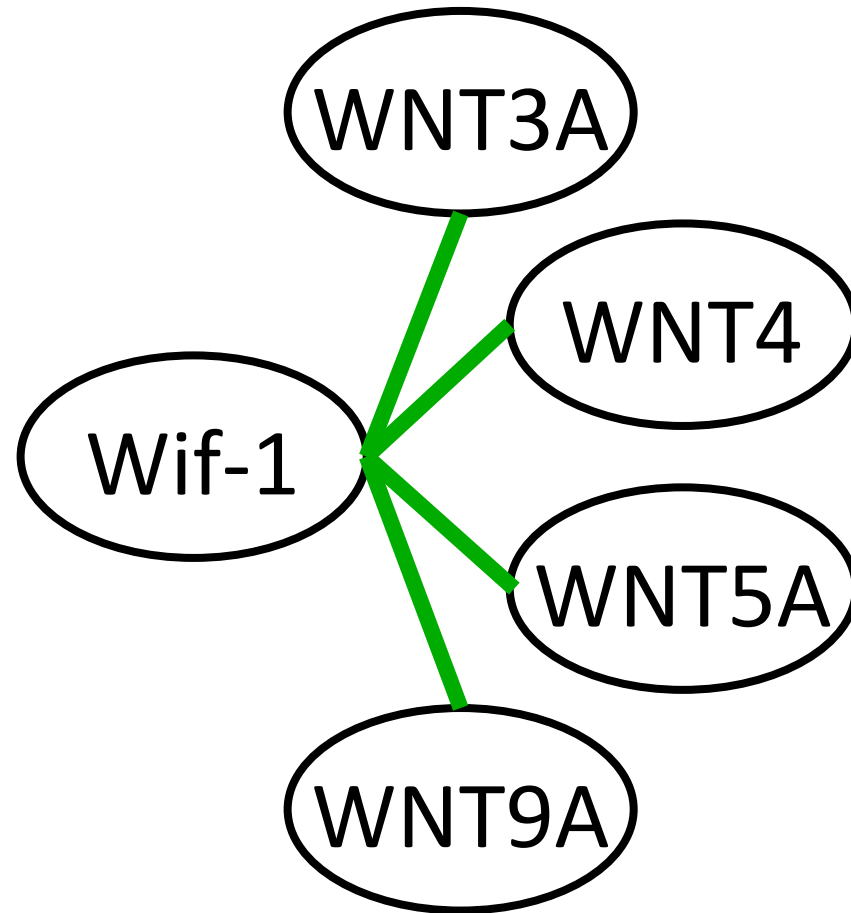## 3a. Complex assembly in graph

3b. Complex assembly in hypergraph

4. Family

4a. Family in graph

4b. Family in hypergraph