

Criteria for reliability of detected PPIs

Guiding principles to judge experimental results on PPIs (incomplete list!):

1) check **mRNA abundance** of detected PPIs:

most experimental techniques are biased towards high-abundance proteins.

If this is the case, results for low-abundance proteins are not reliable.

2) Check localization to cellular **compartments**:

- most methods have their "preferred compartment"
- if interacting proteins belong to the same compartment
=> results are more reliable

3) **co-functionality**

it is realistic to assume that members of a protein complex should have closely related biological functions -> check whether interaction proteins have overlapping annotations with terms from Genome Ontology (GO)