



History

'pathogenesis' added in Sept 2000

'host' added July 2001

'host-pathogen interaction' added in Oct 2001

virus-specific terms added in Dec 2002



Problem I: intelligibility

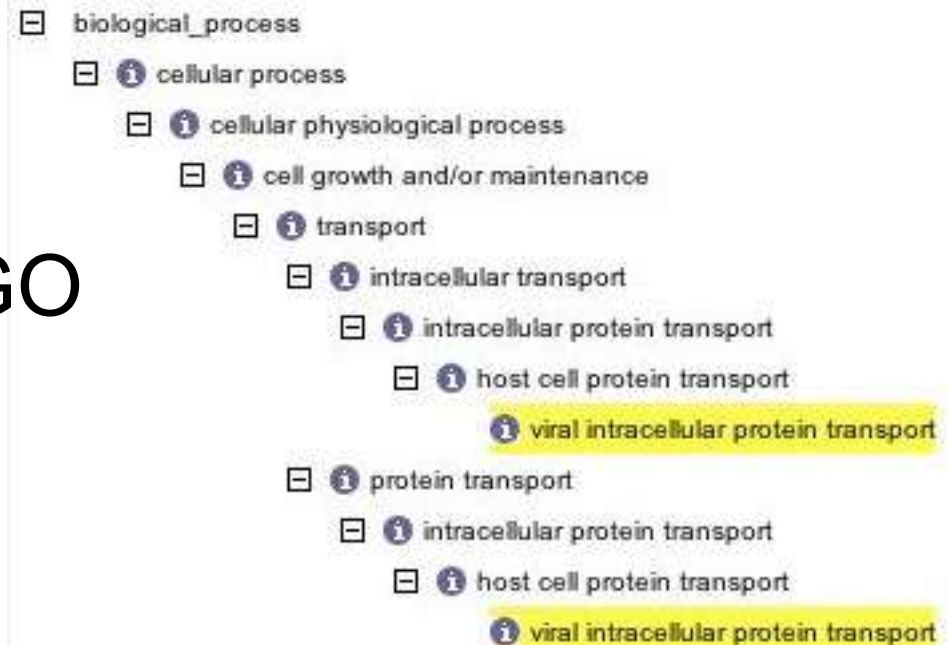
Meaning of ‘pathogenesis’ unclear from name

- should only be used for pathogen annotations
- *But*, from AmiGO:
 - 5 human gene products
 - 5 mouse
 - 1 rat

Problem II: true path

Terms specific for viral proteins have incorrect ancestry

Violates true path, and creates odd GO slims





Problem III: which organism?

‘cytolysis’

- Can occur by multiple mechanisms e.g.
 - as a result of exposure to a exogenous toxin
 - by the immune system to destroy an infected cell
- Two completely different processes would be annotated to the same term
 - univocity - terms should mean the same wherever they're used.
- Need to be able to distinguish mechanisms of interaction between organisms



Problem IV: symbiosis

Not all interactions between symbiont and host are destructive to host (*parasitism*)

– may also be *mutualistic* or *commensalistic*

No terms in GO to cover these processes

Biological processes to establish these states often conserved so common terms needed