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Chiang Mai -- Dengue conference 11/19/00

Cardinal Rules of parasite behavior

- o Go Forth - disseminate**
- &**
- o Multiply - be the fittest per Malthus**

- o {Secure lodgment in host -- Fight off local defenses }
establish reservoir for dissemination is all that is material**

pace host interactions --> symptoms (DISEASE)

:inflammation, cough, diarrhea

:host behavior

:even malignancy *

**! odds are these are contrived by the parasite to
maximize its inclusive fitness**

BUT

- o Don't kill the host, at least not too often, too soon**

- o Fight off competing genotypes**
defend the host -- OR -- synergize with other parasites
dampen superinfection (concomitant immunity)

[o] Fuse with the host: become another gene!

*** malignancy (EBV; HPV) a puzzle. May confer a tribal
advantage, if not to the oncogenic particle.**

?? "unintended consequence"