BIO 4AE3
11 Sep 2023

ecology — incidence, prevalence, distribution
evolution

* ↳ HOW DO WE FIND OUT ABOUT EVOLUTION?

experimental evolution
- phenotypic
- genotypic

observation

- ancient DNA (Poinar)

{ SYMBIONT vs MUTUALIST vs PARASITE vs COMMENSAL }

symbiosis = 'close association'
↳ free-living

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benefits to host?
benefits to symbiont?

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symb.	parasitoid	parasite	← NATURAL ENEMY/VICTIM
non-symb.	predator	grazer	
	kills host	doesn't kill host	+/−

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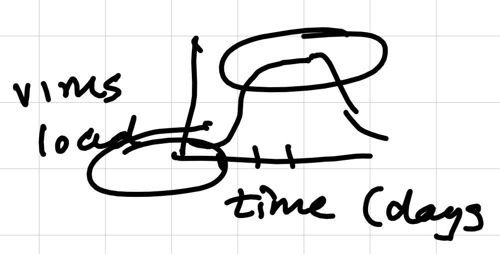
microparasites
- viruses, bacteria, fungi (?prions?)

intensity-indep.

macroparasite
- nematodes, trematodes, ticks, leeches

• timescales •



where do parasites come from?