B10 4A=3 30 Oct 2023 · vinlence evolution · ENDEMIC VS EPIDENIC Phases. 'environment' = how fraction of susceptible. fast vs

slow
doesn't matter

epiclenic

endemic (faot) Ro = (transm) x (mf period) PAUL ENALD VS ANDERSONSMAY (biologist) (math/modelers) what's the evolutionary effect
of overall increased transmission
rates? higher fromsm reg virel. higher transme Thigher vinitence TRANSKAT virilence-· paras is

of Ro-optimal virulence. · vinlence I new habitat · vinklence as pop reaches RESISTANCE + TOLERANCE . ability to resist/ resistance minimize infection reducing the parasite's effect tolerance. on fitness competence - ability to transmit disease MECHANISMC. active defenses. recognition + effectors. -> SPECIFIC . (inverse matering alleles) CONSTITUTIVE · always-on e.g. changing cell surface receptors. CCR5-132 allele. HIV