31 Jan 2022 Brown et al 2006 (Friday) · distribution of the number of bacteria scell AIC > Akaike Information Criterion 1 14 213 goodness of fit ('badness') Smaller AIC (more negative) is a better fit to the data. homogeneous AIC -27 heterogeneous AIC -30 A DAC: difference between ACC Alc >10: Very strong Poisson, negative bihomial, Gamma ... possible distributions

effects of parasites on host demography in modern human populations infectious disease is usuarly not an important demographic factor (except HIV/AIDS) - historically . It does! 1347 Black Death bubonic plague, Yersinia Jastis.
25-50% of popof Europe. popregulation. processes that control /determine eg. population size. macroparasites - seen to have little impact ( little direct mortality) CHRONIC ~ Secundity · interaction w/ starvation lab studies = 90% reduction in mouse populations

hand to detect in field: chronic effects. effects of fecundity complex life cycles. BOCONTROL · might be hast-specific? · Self-reproducing (provided it doesn't go extinct) - parasite goes extinct coevolves -host + g arasite both extinct · EXAMPLES \* host + parasite European rabbits nost popreduced 47 introduced & Licets. - Ceradicate. in other places... J South J American myxomafosis Spain: Lynx > calicivinusrabbits 4) evol of reduced Opuntia cactus. virelence myxom. > tolerance rabbit cactoblastis moth of G FLORIDA

· EXTINCTION . E40LOGY density-dependent pathogen: Stransmission rate Virulence recovery rate " parasites won't drive hosts extinct" · Stochastic extinction - (large crash)
· frequency - dependent transmission Lo behaviour - compatibility filter. . Treservoir hosts/generalist parasites]
La (folerant) - spillover La avian malaria, Hawai'ian bird species