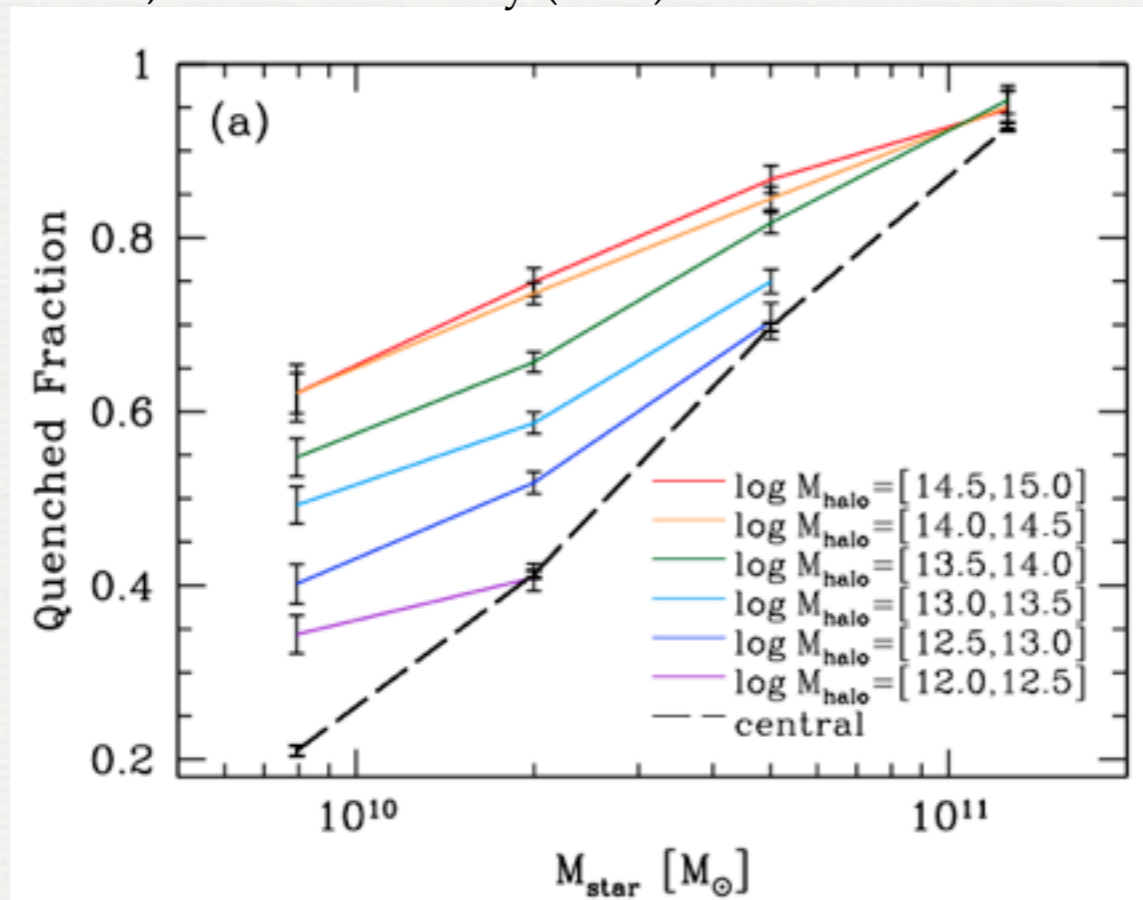


An Absence of Quenched Dwarf Galaxies in the Field

Wetzel, Tinker & Conroy (2011)



Quenched fraction of central galaxies decreases with stellar mass.

An Over Abundance of Non-Dwarfs in the SDSS



NASA-Sloan catalog: Re-reduction of all SDSS DR8
spectroscopic sources with $z < 0.055$

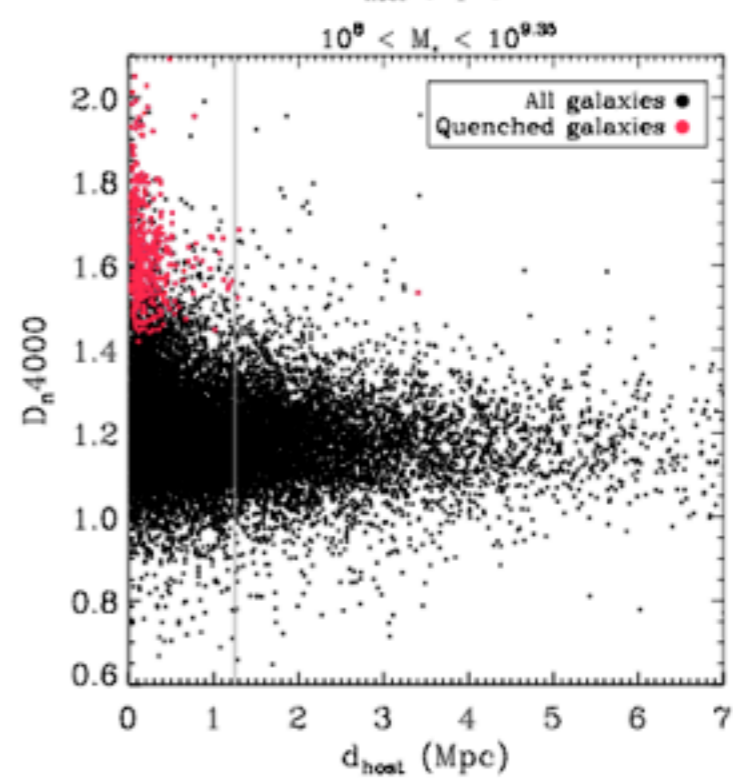
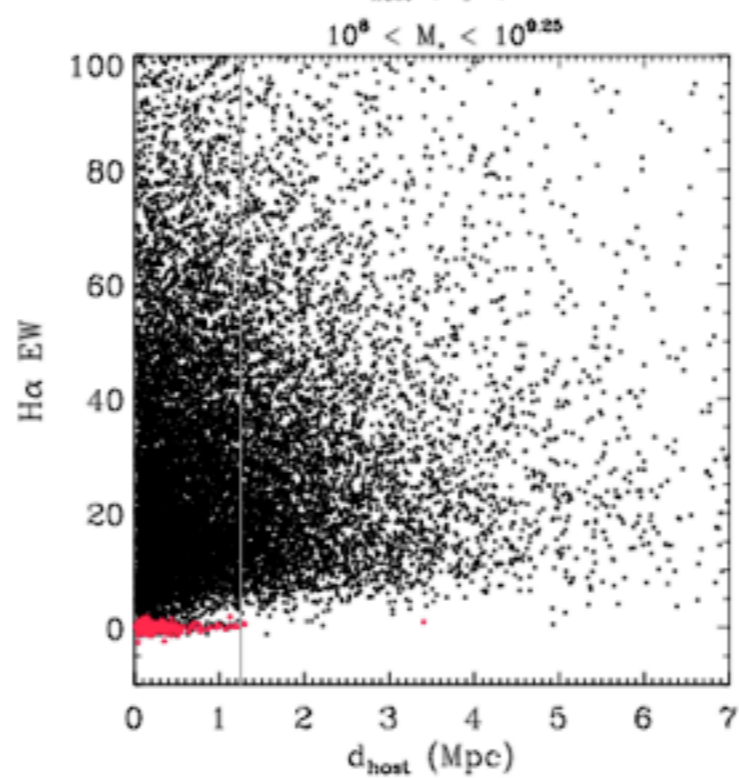
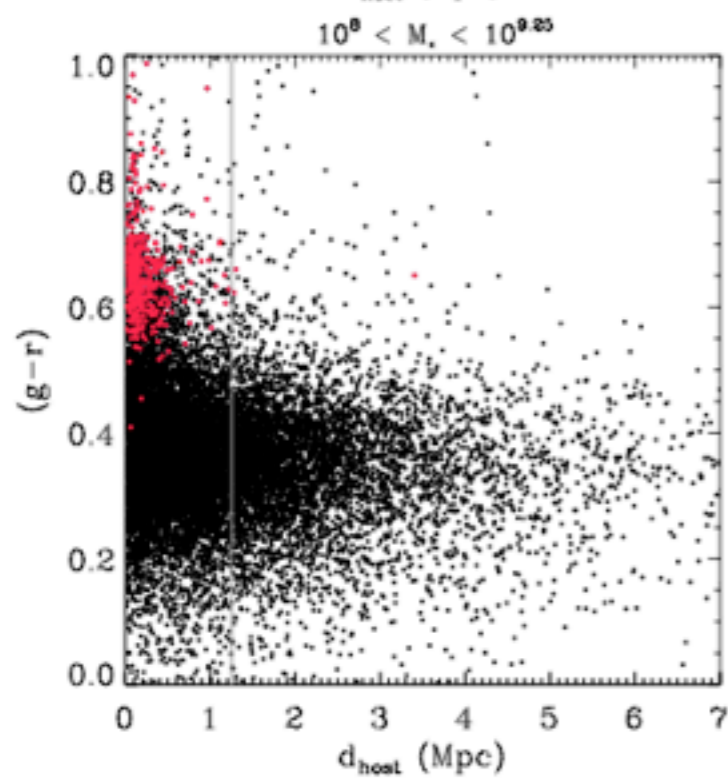
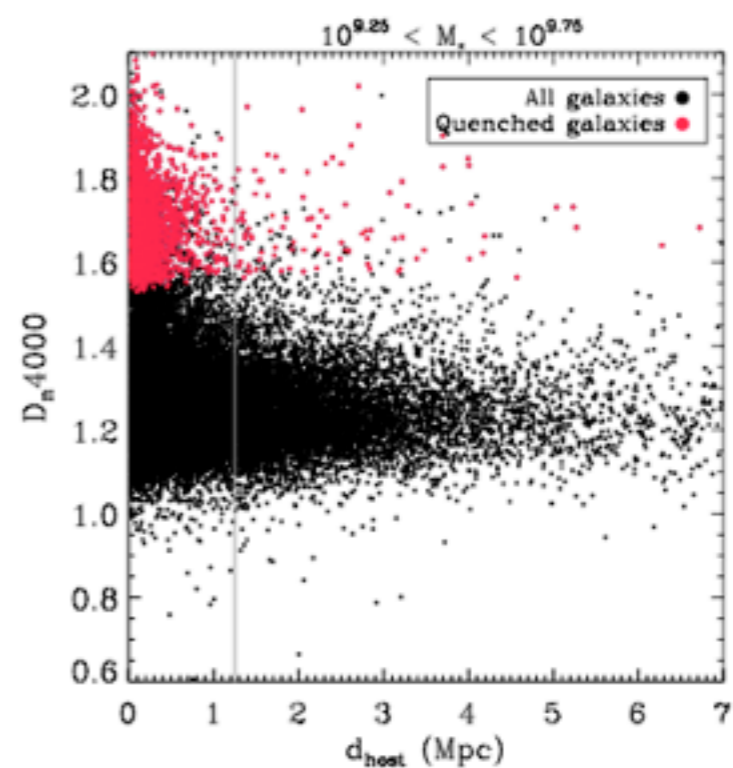
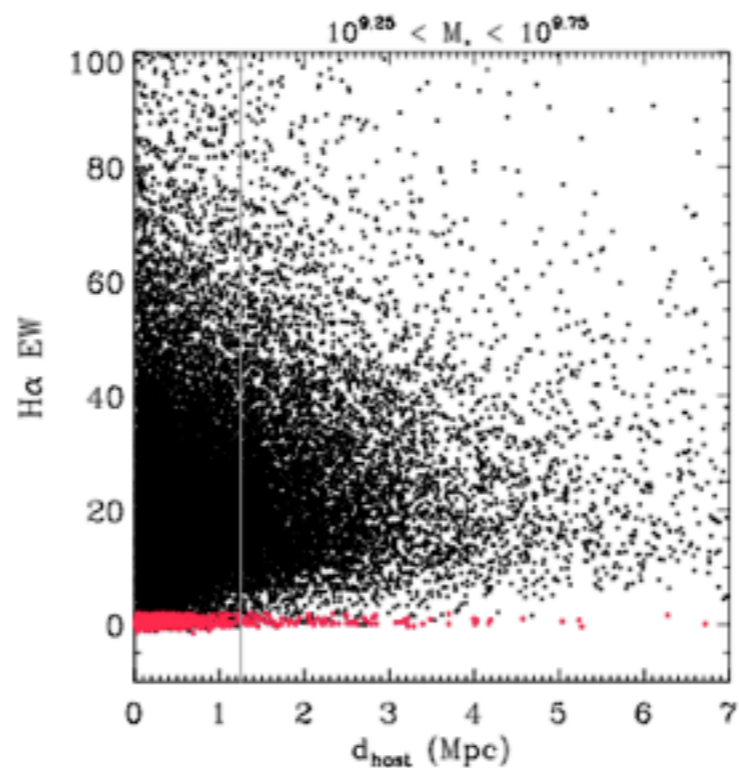
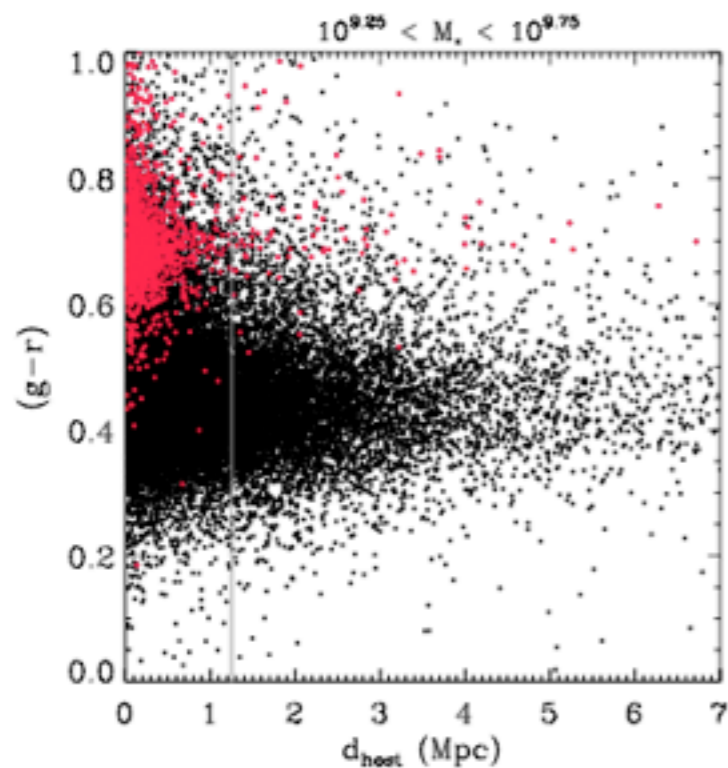
LMC $M_* = 10^9$
SMC $M_* = 10^8$

Dwarf galaxies: 9500 galaxies between $10^7 - 10^9 M_{\text{sun}}$

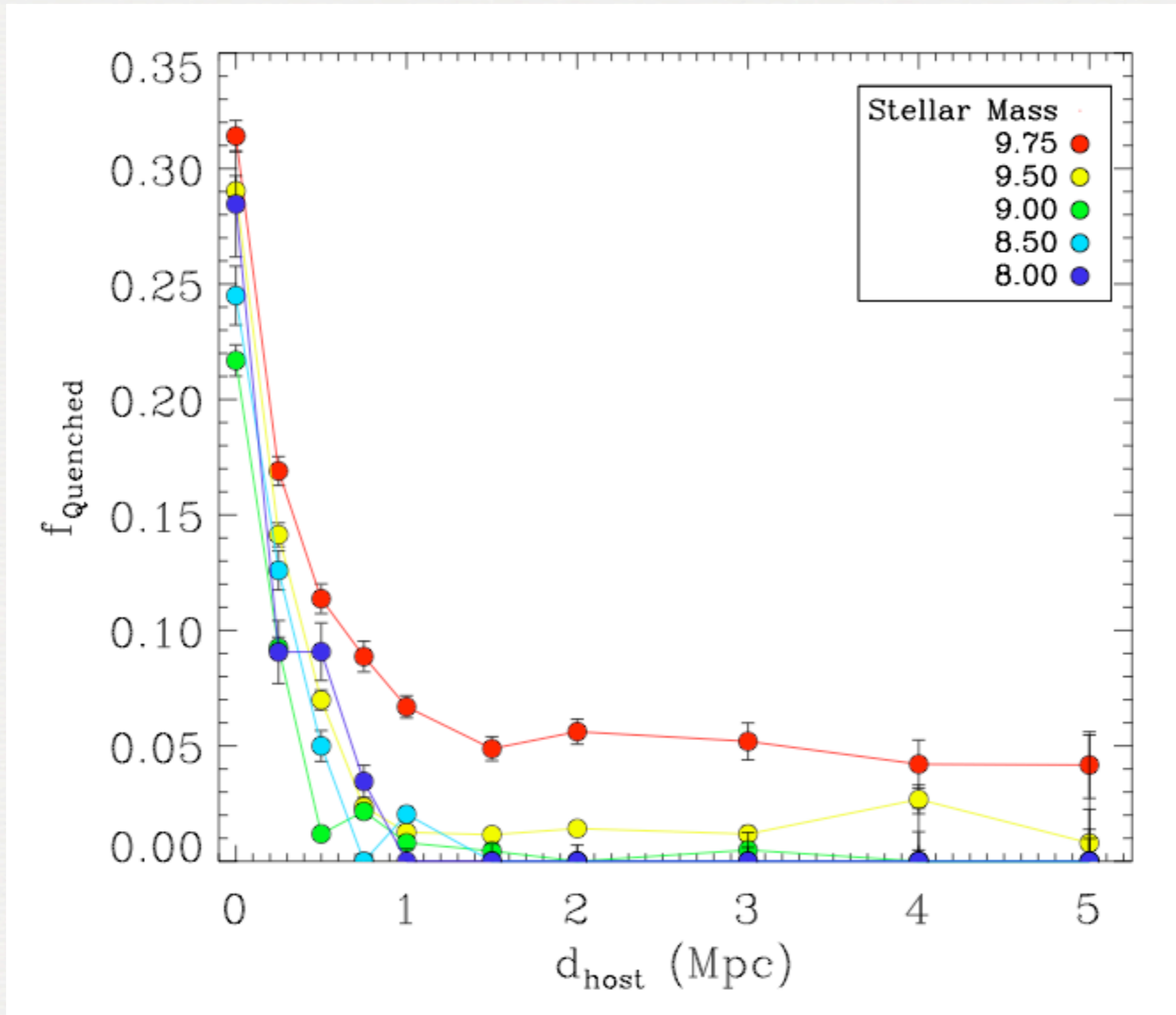
3000 of these are 'field'

Field = 1000 km/s and 1.25 Mpc away from massive galaxy)

Quenched = H-alpha < 2 Ang and D4000 > 1.6 Ang

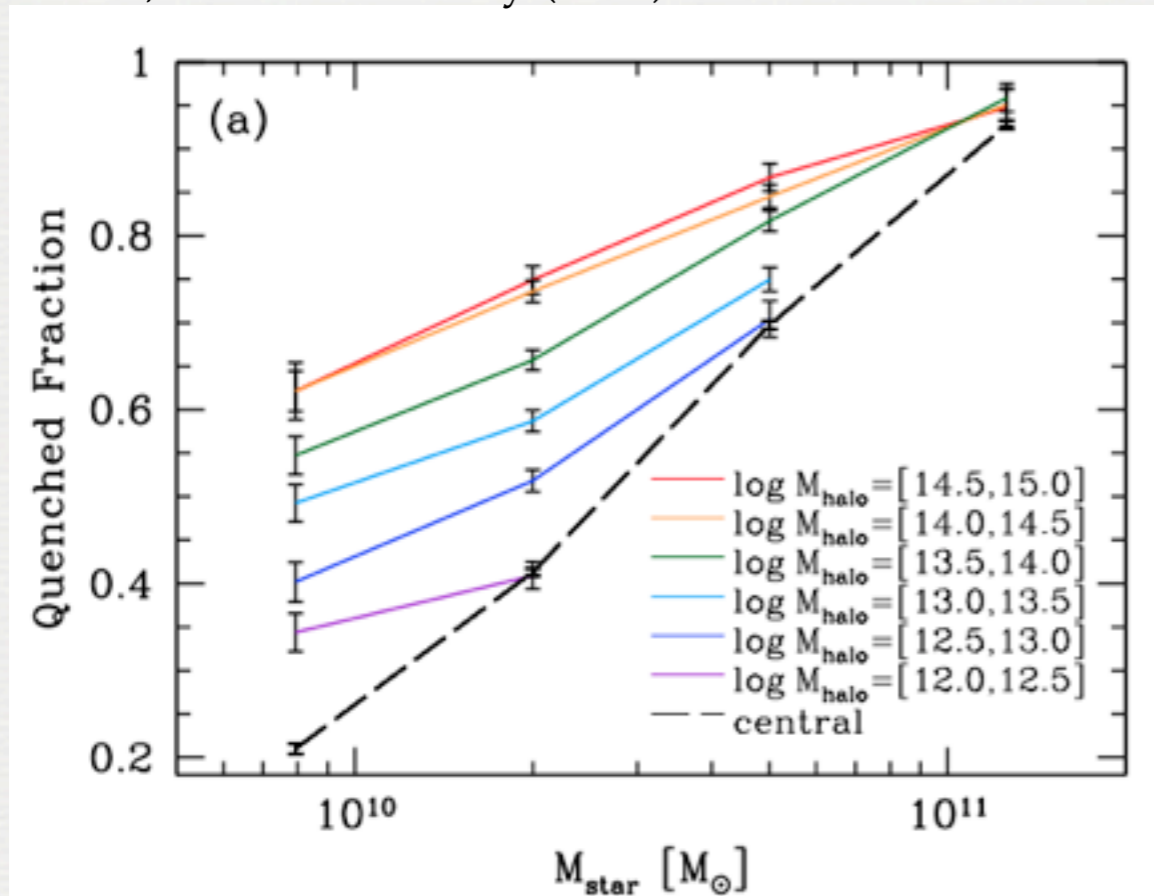


Red Fractions as a Function of Host Distance

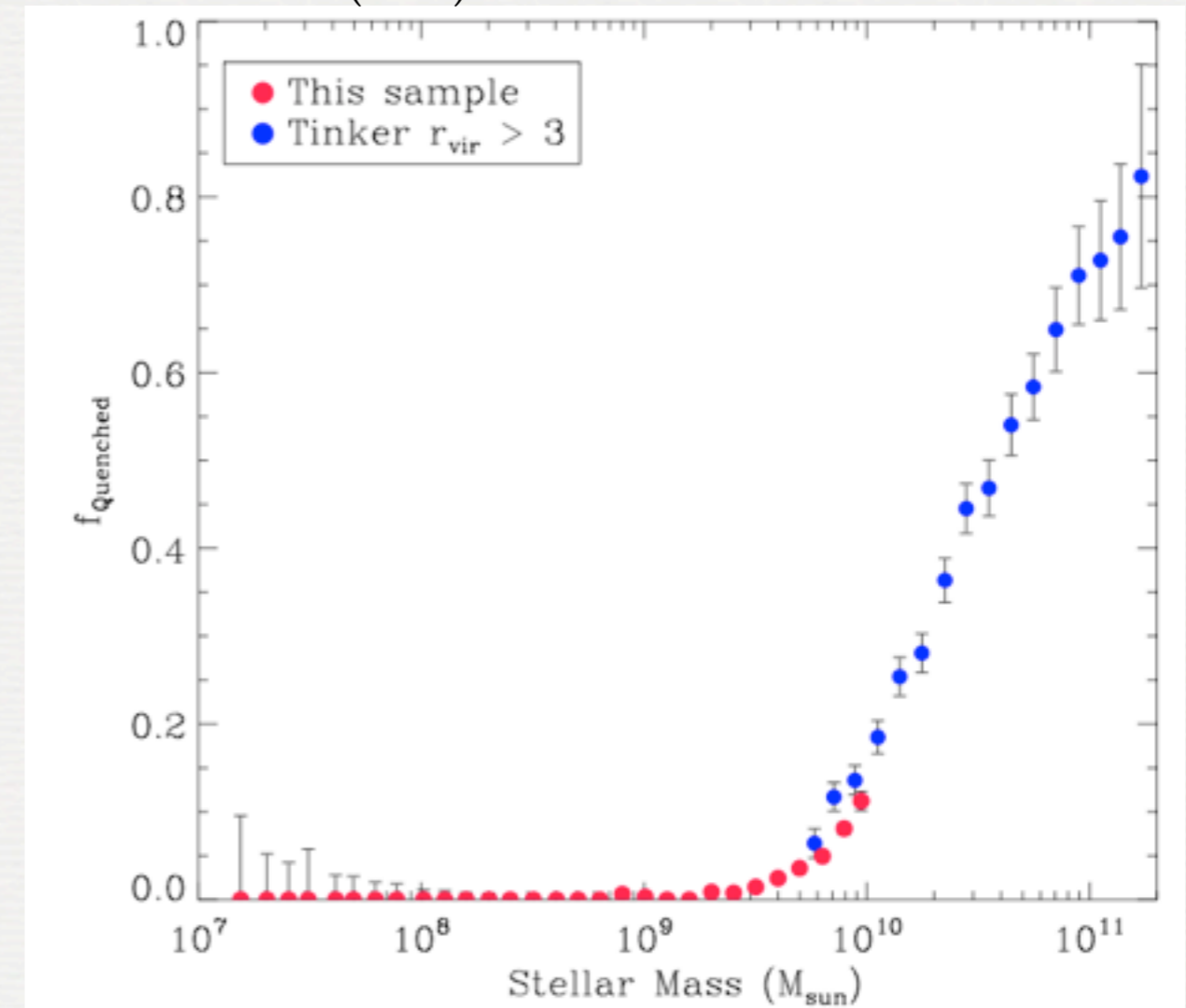


An Absence of Quenched Dwarf Galaxies in the Field

Wetzel, Tinker & Conroy (2011)

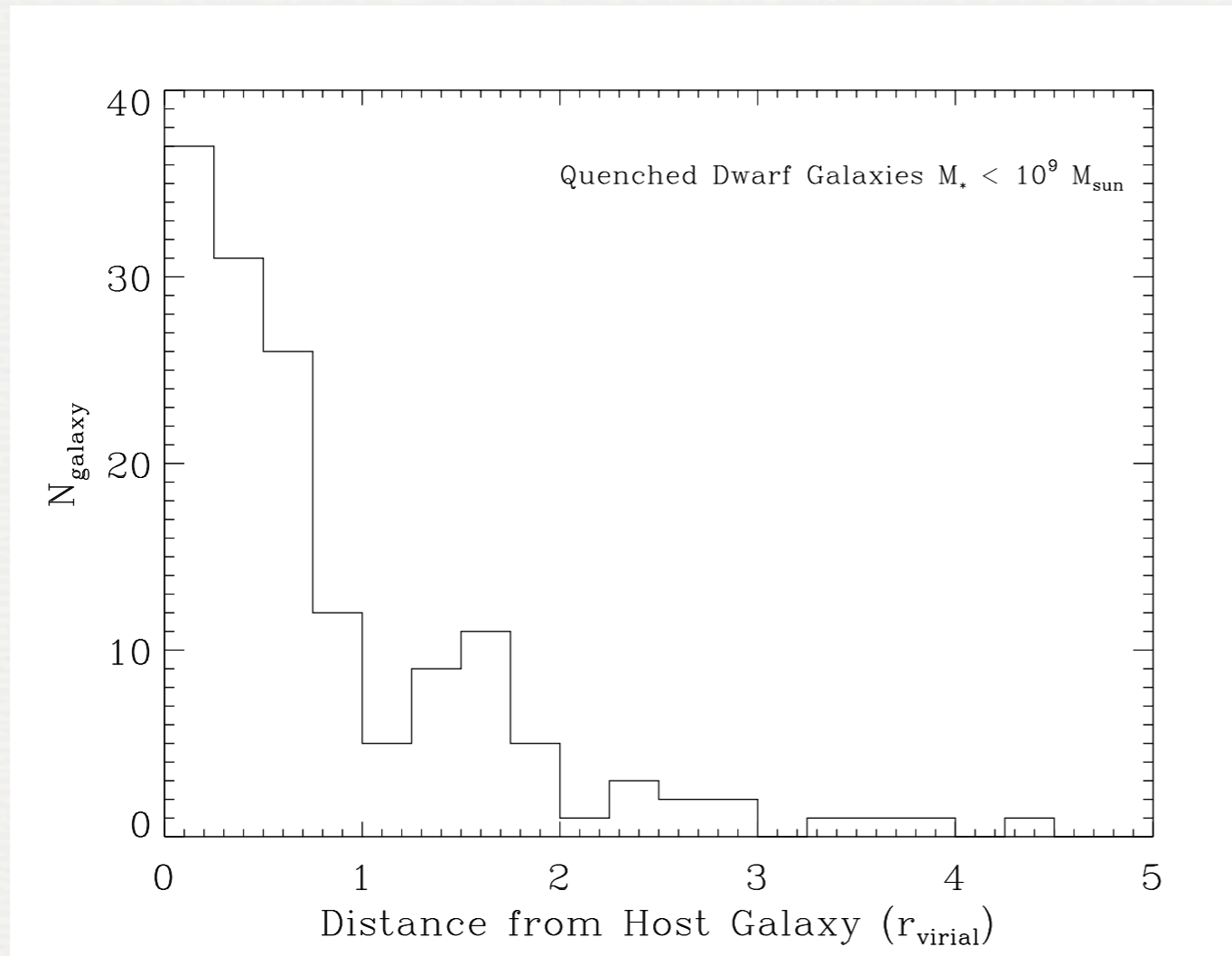


Geha & Blanton (2012)



1 out of 3587 field galaxies is quenched below $2 \times 10^9 M_{\text{sun}}$

An Absence of Quenched Dwarf Galaxies in the Field



90% of dwarf galaxies
within $2 r_{\text{vir}}$ of host.

No objects beyond $4.5 r_{\text{vir}}$

HI Gas Fractions

