

## Different Ideas from Papers

### Host-Pathogen

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### GWAS

- Limitations of GWAS[1]:
  - GWAS only works well on common genetic variants[2].
  - Candidate genes may depend on the environment in which the study is conducted[3].



## 参考文献

- [1] Ailene MacPherson, Sarah P Otto, and Scott L Nuismer. Keeping pace with the red queen: Identifying the genetic basis of susceptibility to infectious disease. Genetics, 208(2):779–789, 2018.
- [2] Teri A Manolio, Francis S Collins, Nancy J Cox, David B Goldstein, Lucia A Hindorff, David J Hunter, Mark I McCarthy, Erin M Ramos, Lon R Cardon, Aravinda Chakravarti, et al. Finding the missing heritability of complex diseases. Nature, 461(7265):747–753, 2009.
- [3] Duncan Thomas. Gene–environment-wide association studies: emerging approaches. Nature Reviews Genetics, 11(4):259–272, 2010.