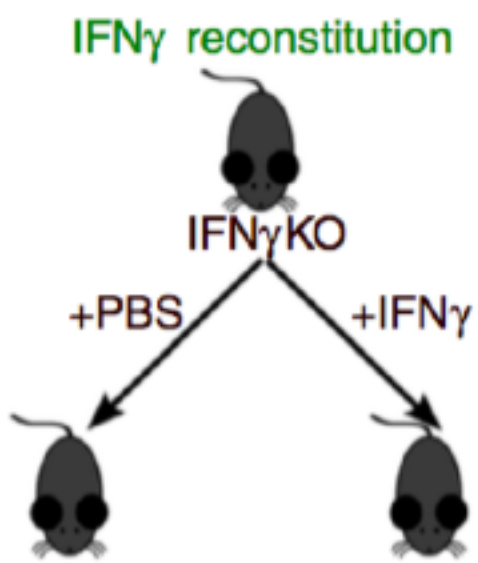
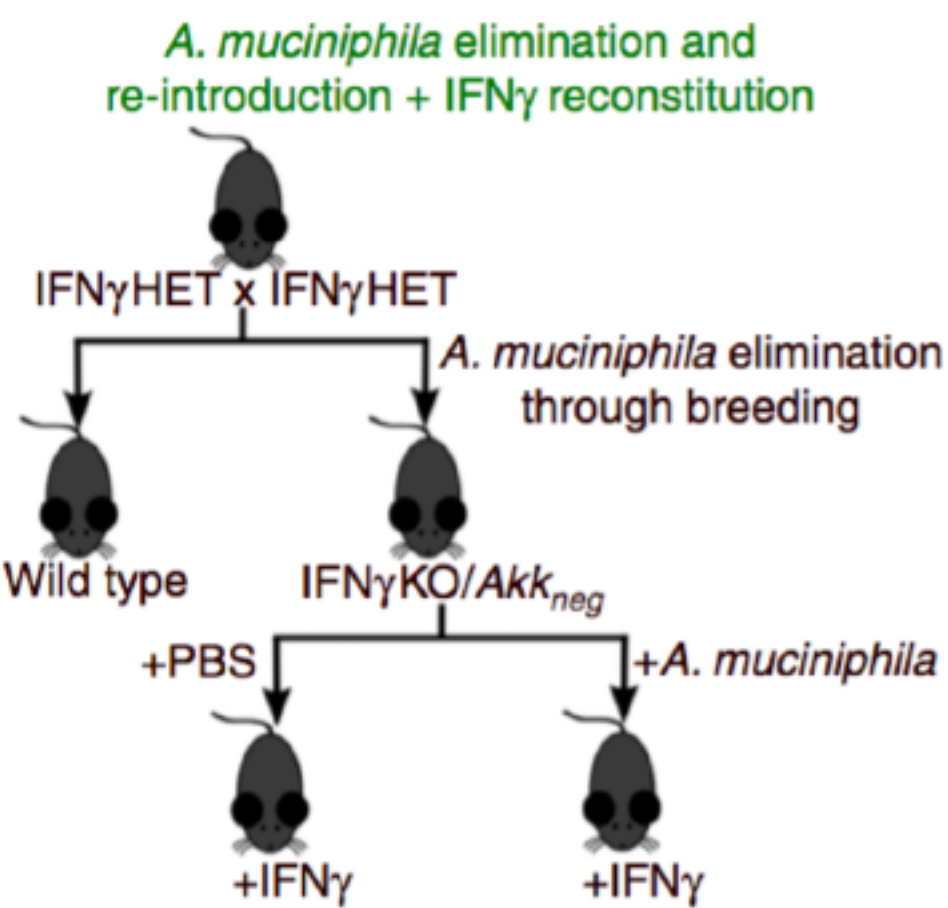


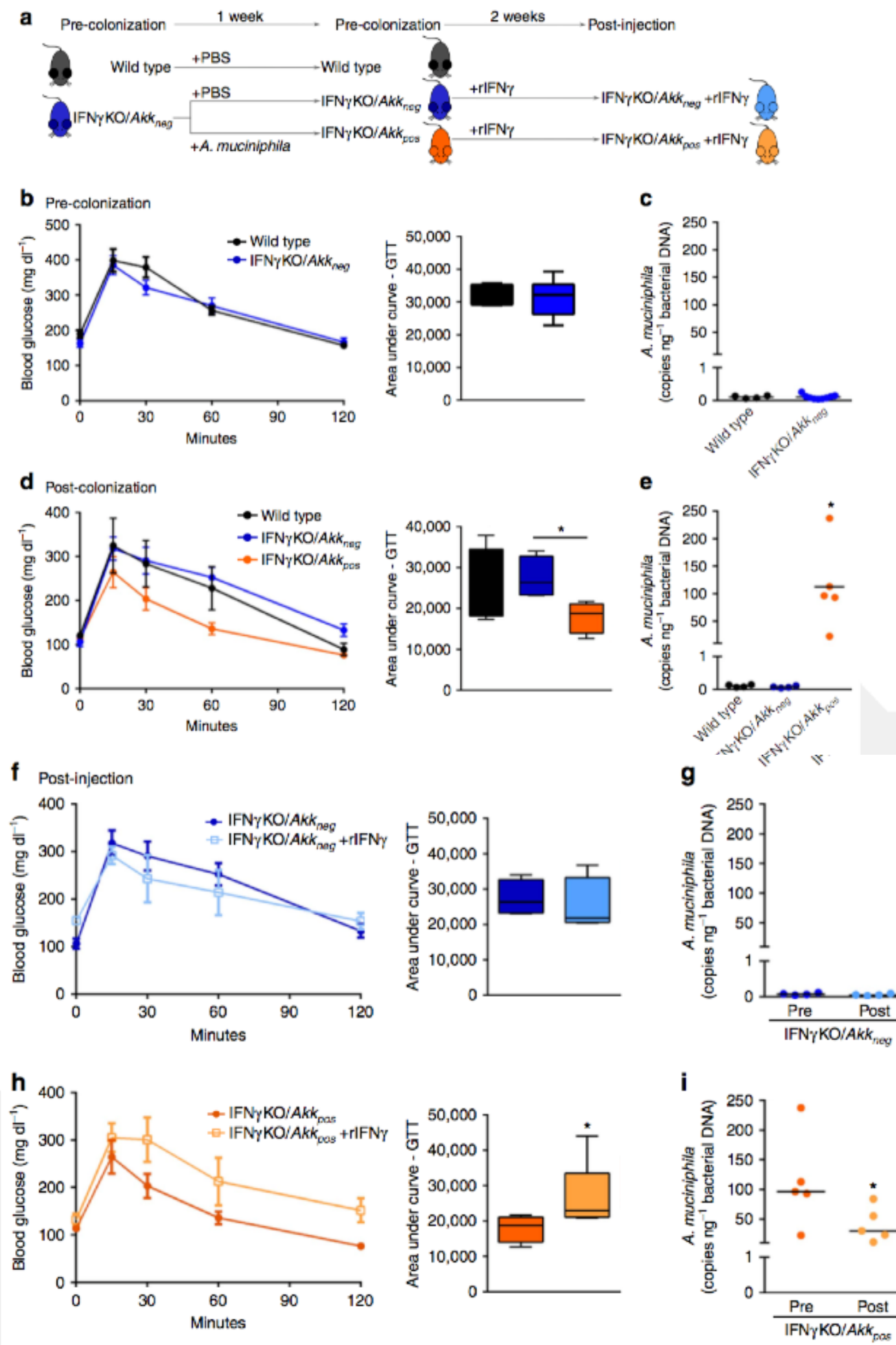
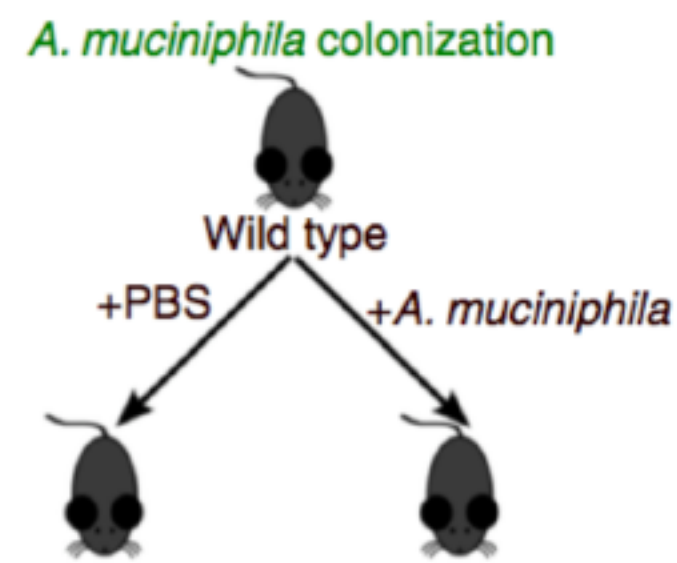
Does IFN γ regulate *A. muciniphila* and glucose tolerance?



Is *A. muciniphila* required for IFN γ to regulate glucose tolerance?

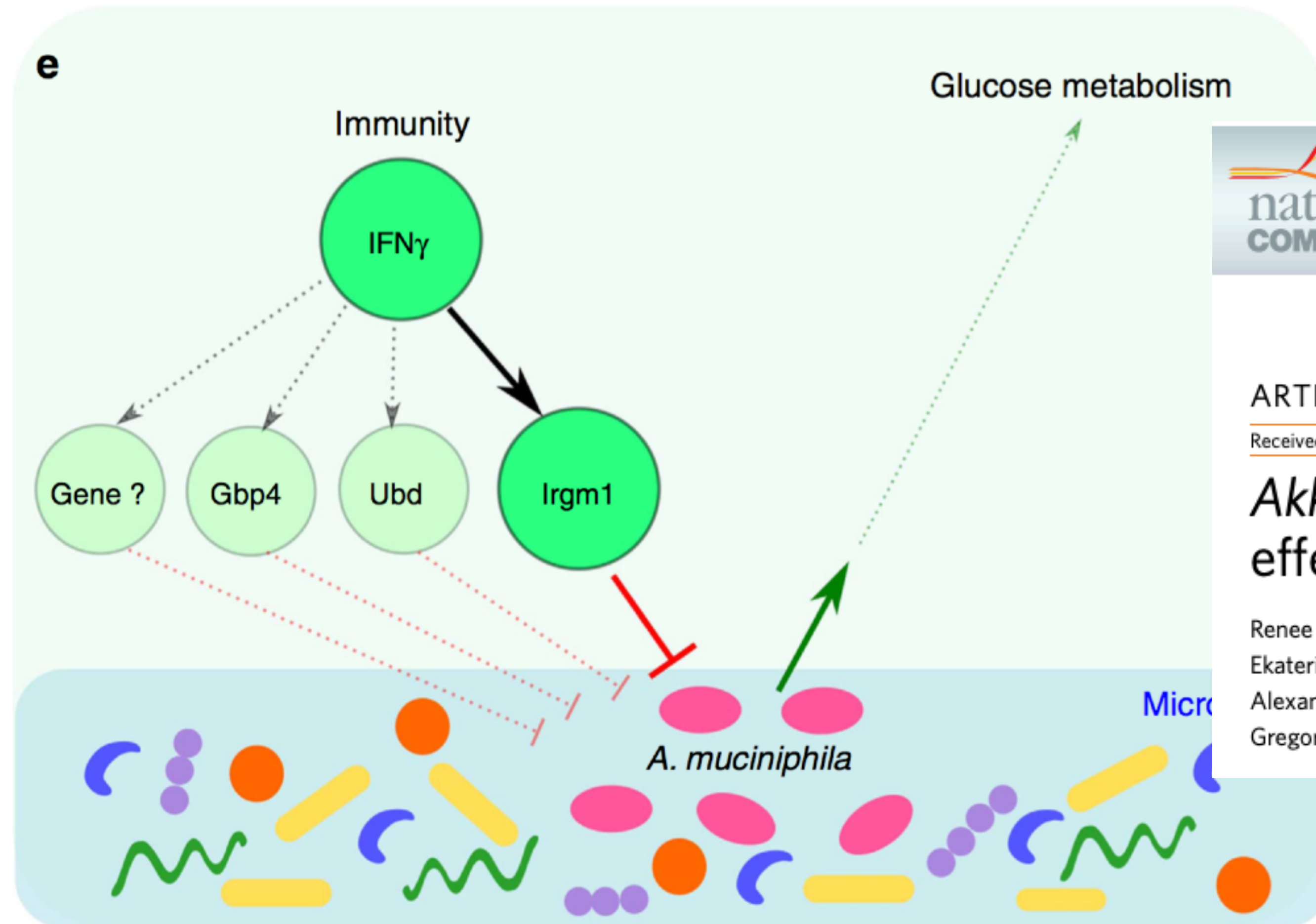


Does *A. muciniphila* improve glucose tolerance?



Equação para o nível de glicose

- Nível de glicose = Akkermansia + IFN γ + Irgm1 + Ubd...



ARTICLE

Received 14 Apr 2016 | Accepted 23 Sep 2016 | Published 14 Nov 2016

DOI: 10.1038/ncomms13329

OPEN

Akkermansia muciniphila mediates negative effects of IFN γ on glucose metabolism

Renee L. Greer^{1,*}, Xiaoxi Dong^{2,*}, Ana Carolina F. Moraes³, Ryszard A. Zielke², Gabriel R. Fernandes⁴, Ekaterina Peremyslova², Stephany Vasquez-Perez¹, Alexi A. Schoenborn⁵, Everton P. Gomes⁶, Alexandre C. Pereira⁶, Sandra R.G. Ferreira³, Michael Yao⁷, Ivan J. Fuss⁷, Warren Strober⁷, Aleksandra E. Sikora², Gregory A. Taylor⁸, Ajay S. Gulati⁵, Andrey Morgun^{2,**} & Natalia Shulzhenko^{1,**}