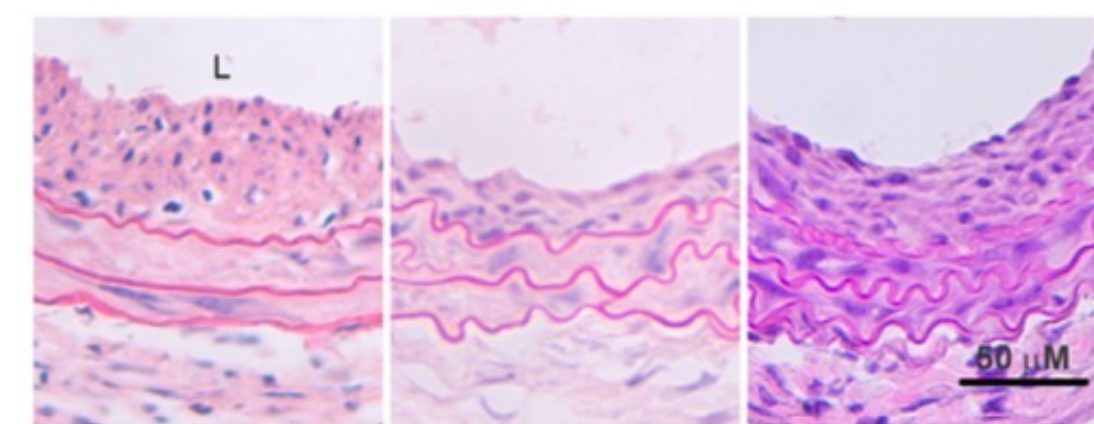
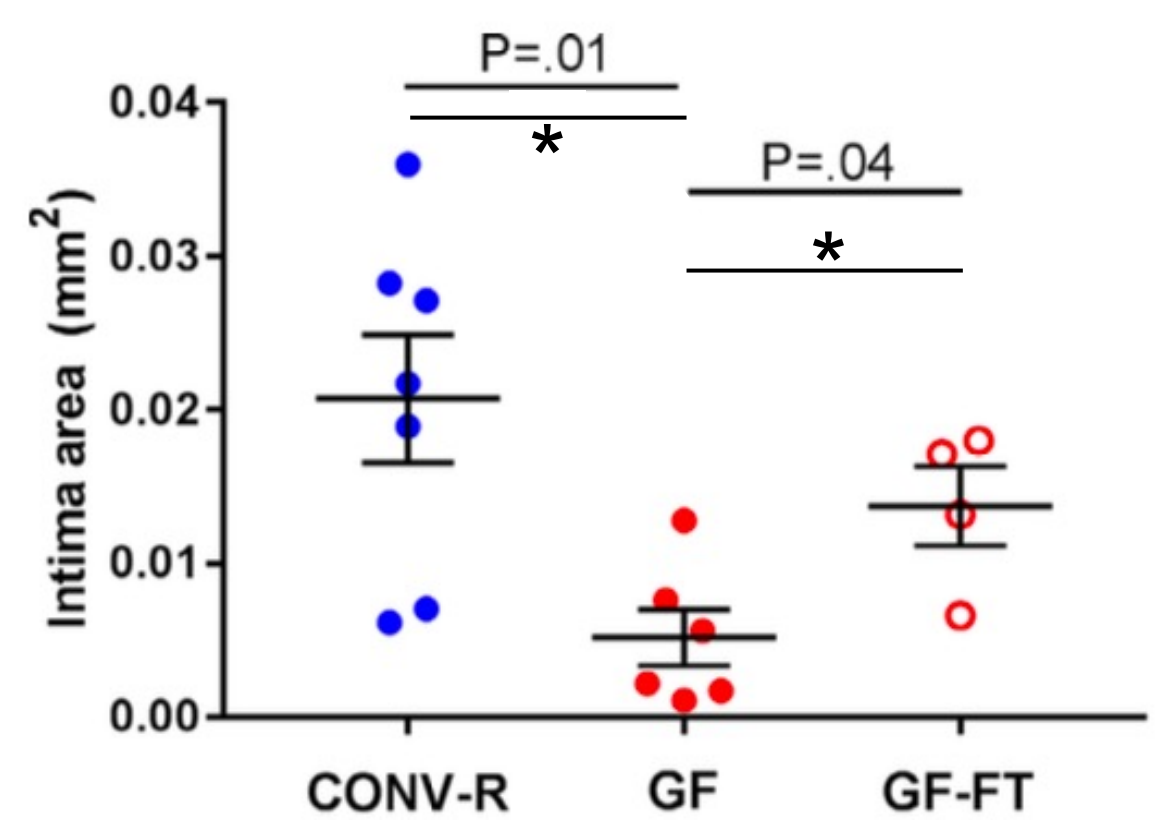
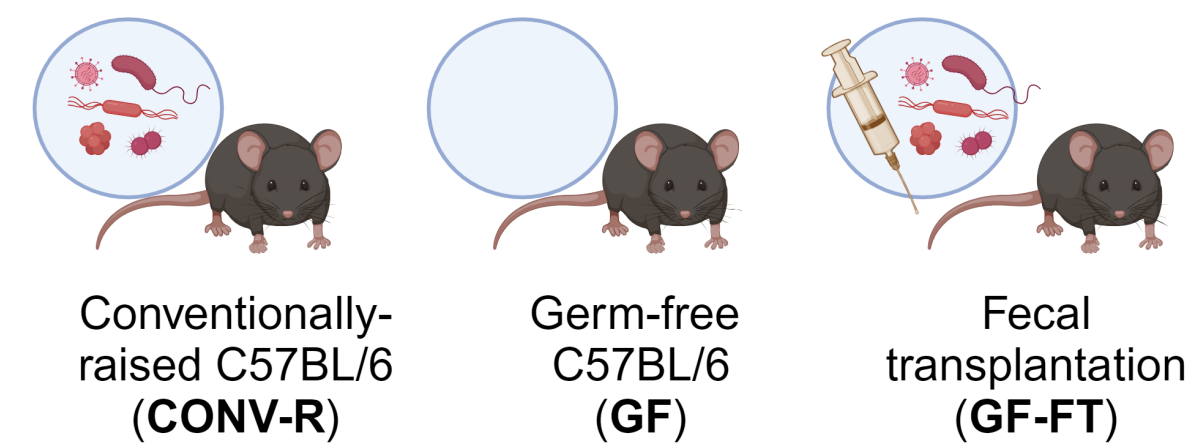


# Akkermansia muciniphila is associated with reduced neointimal hyperplasia after arterial injury

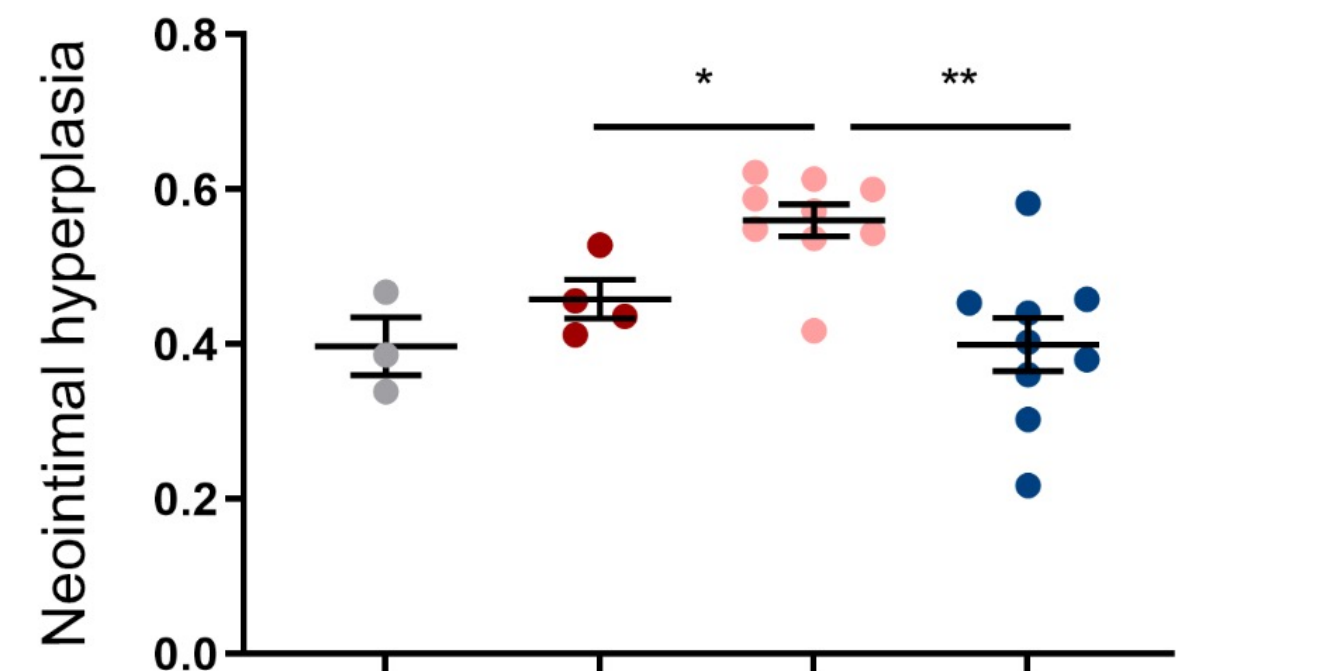
Sarbjeet Niraula, Vivek Pamulapati, Jonathan Jung, James Du, Liqun Xiong, Patrick C. Seed, Karen J. Ho

Departments of Surgery and Microbiology-Immunology, Northwestern University Feinberg School of Medicine; Penn Medicine, University of Pennsylvania

## GUT MICROBES MODULATE ARTERIAL REMODELING



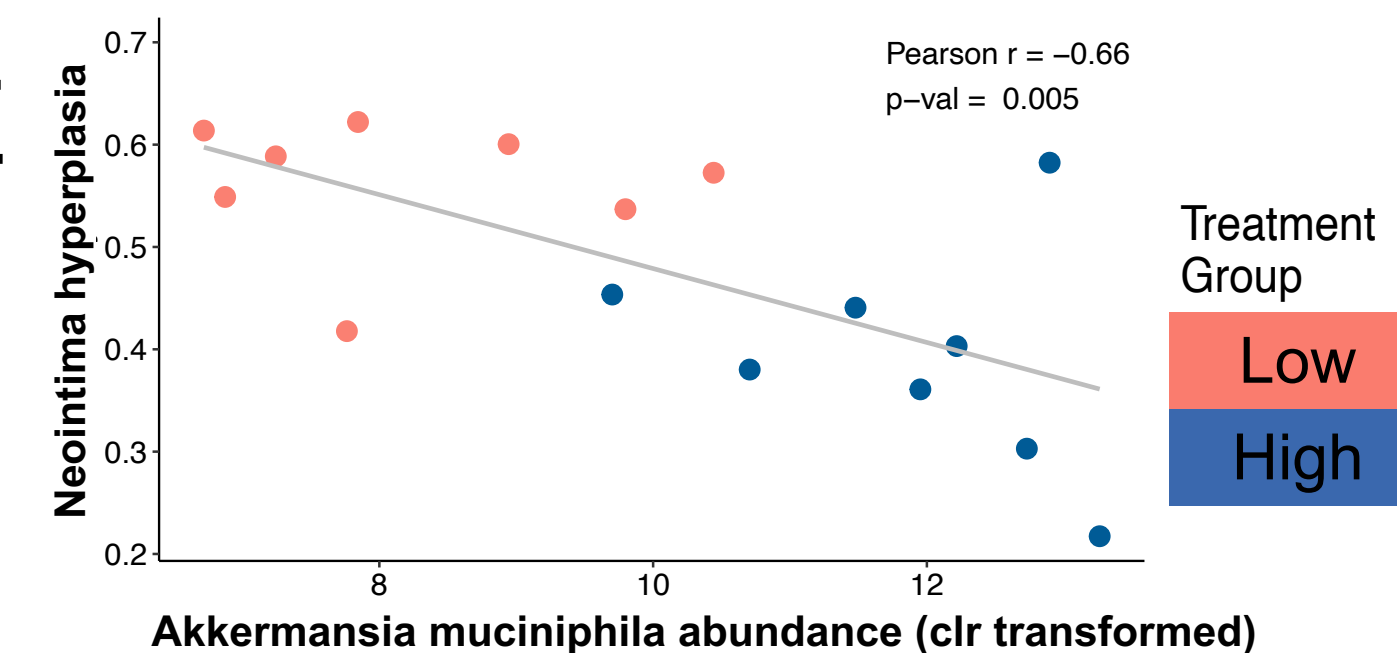
## NEOINTIMAL HYPERPLASIA AFTER FT FROM DIFFERENT STOOL DONORS



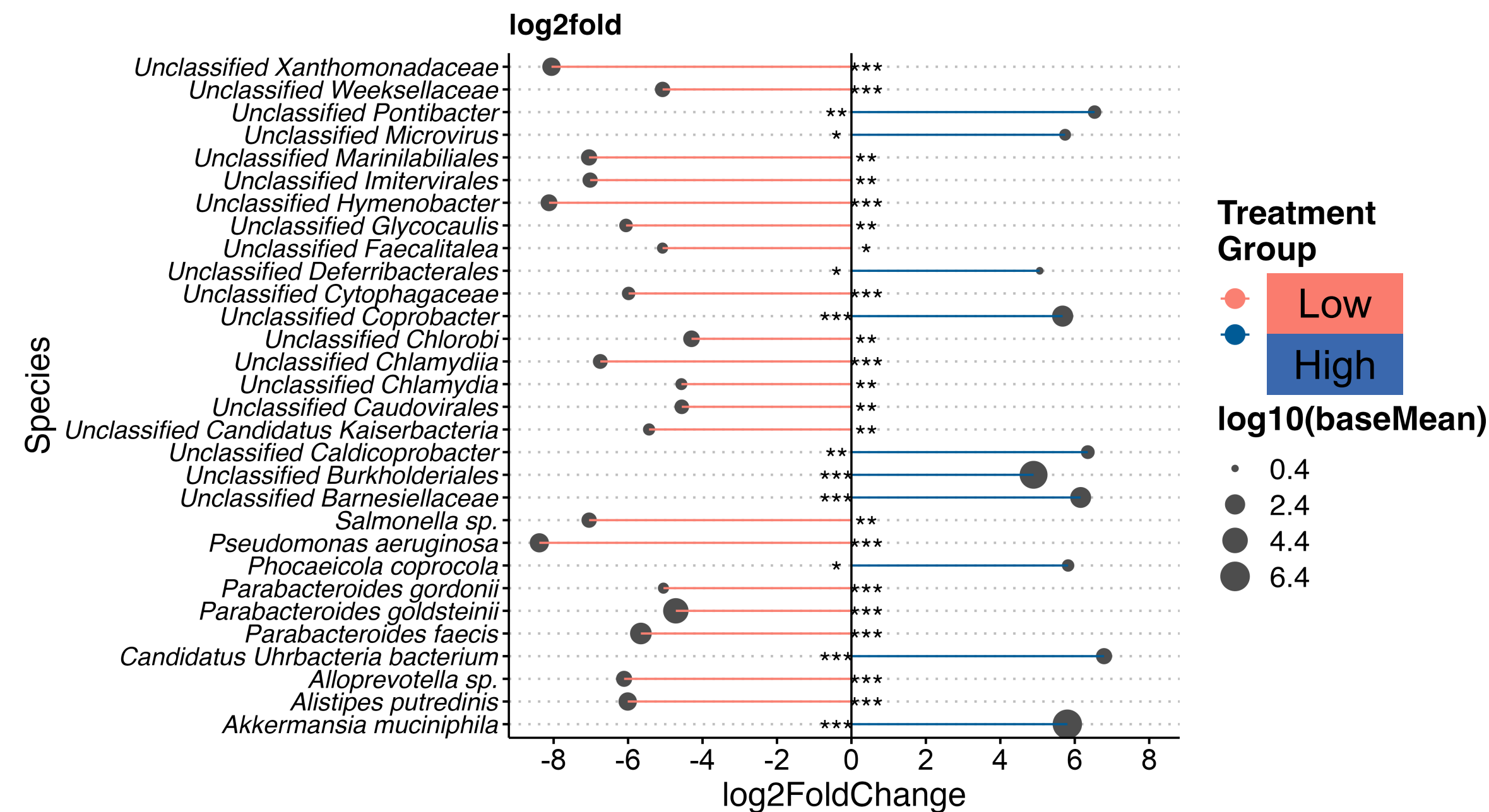
Drinking water	Control	Cefo*	Cefo	Cefo
FT	Vehicle	Vehicle	Low	High

\*Cefo = cefoperazone

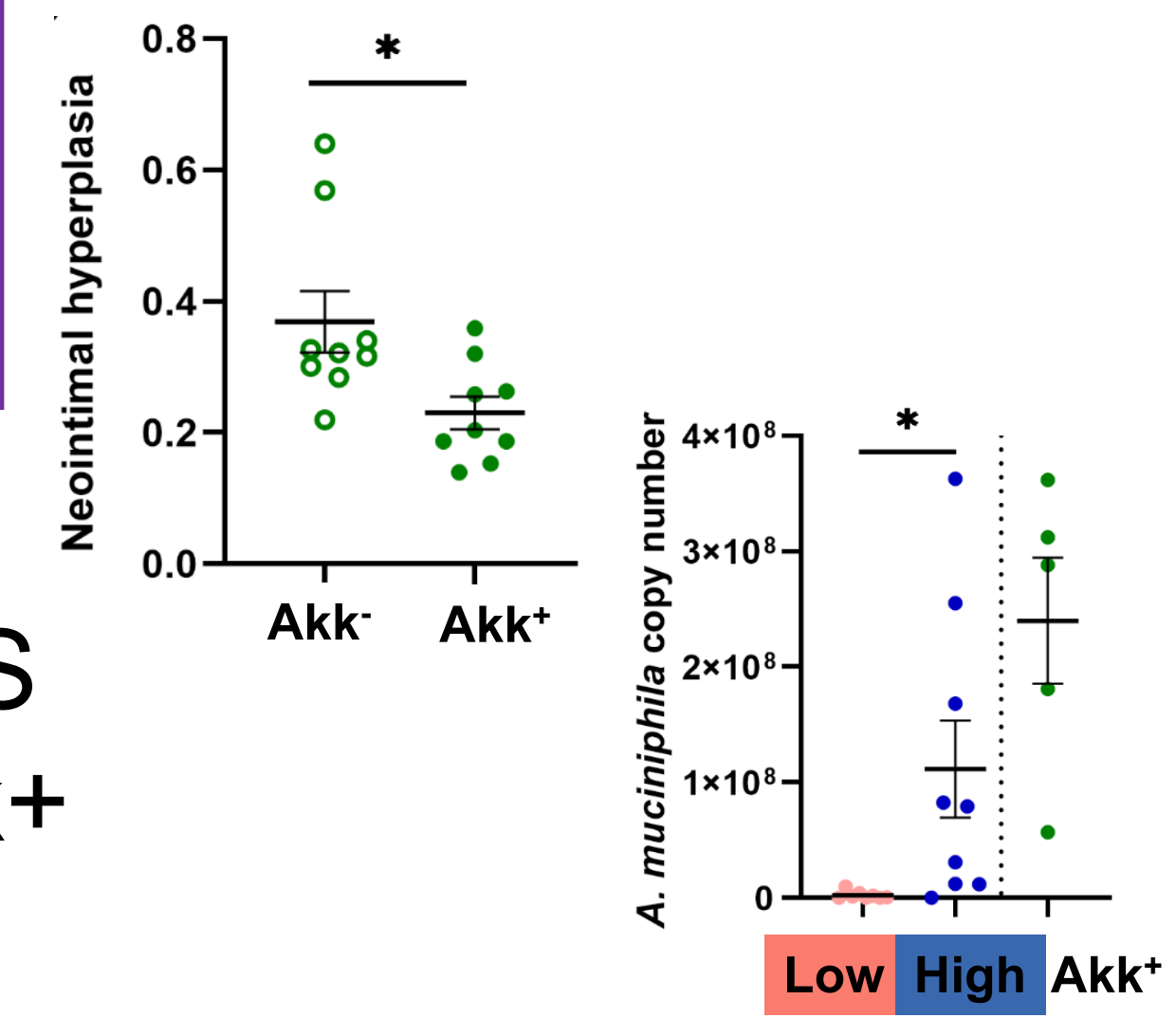
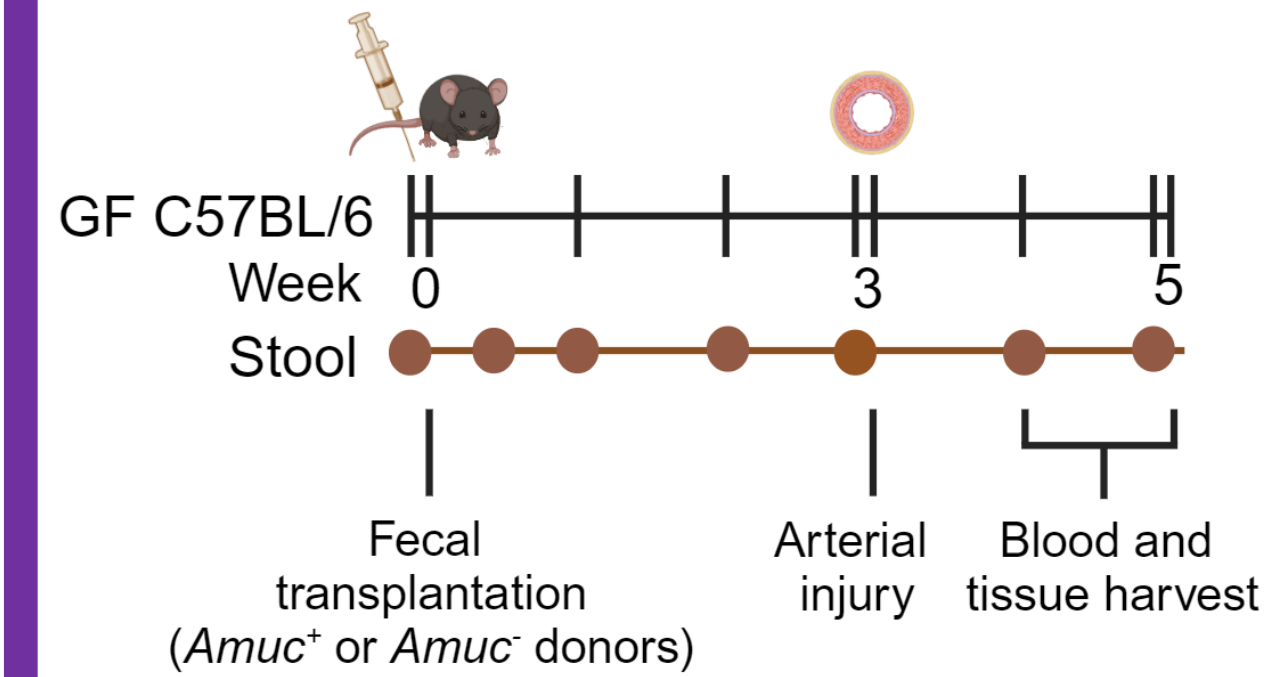
## A. MUCINIPHILA ABUNDANCE CORRELATED INVERSELY WITH NEOINTIMAL HYPERPLASIA



## DIFFERENTIAL ABUNDANCE BETWEEN FT RECIPIENTS



## FT USING STOOLS FROM Akk+ and Akk- DONORS



## NEOINTIMAL HYPERPLASIA IS REDUCED IN Akk+ RECIPIENTS

**FUTURE DIRECTIONS:** Further validation with either transplant of pure cultures of *A. muciniphila* or a synthetic community of closely related commensals and identification of a mechanistic link