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BRIEF REPORT

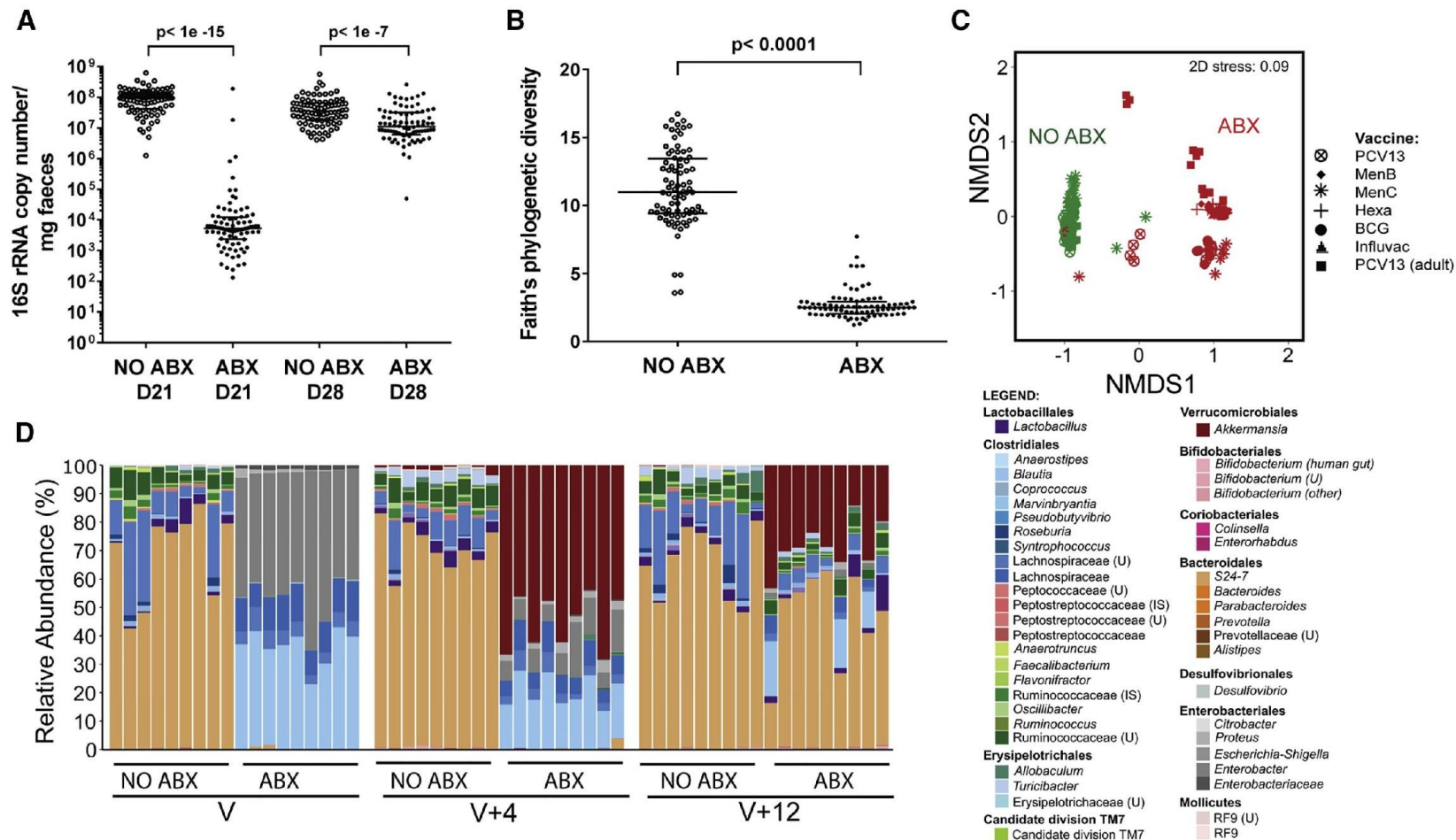
Early-Life Antibiotic-Driven Dysbiosis Leads to Dysregulated Vaccine Immune Responses in Mice

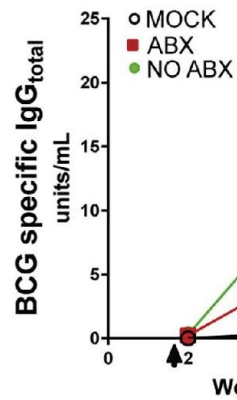
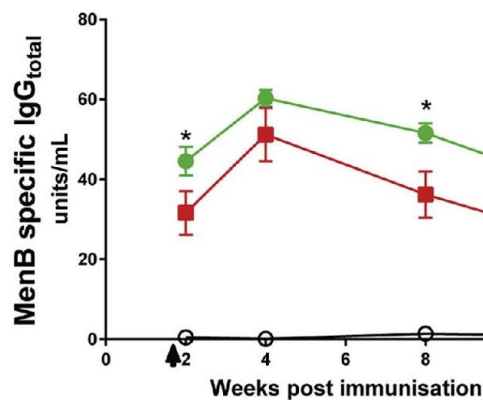
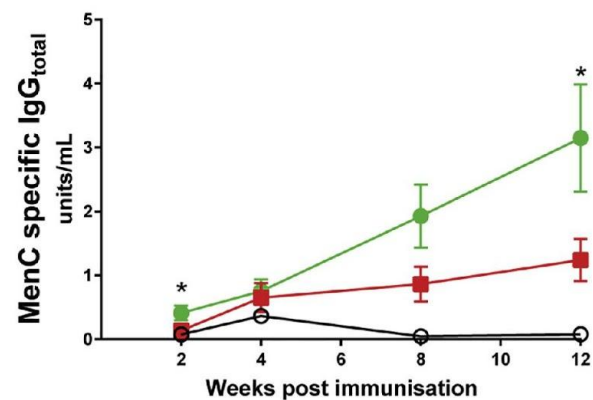
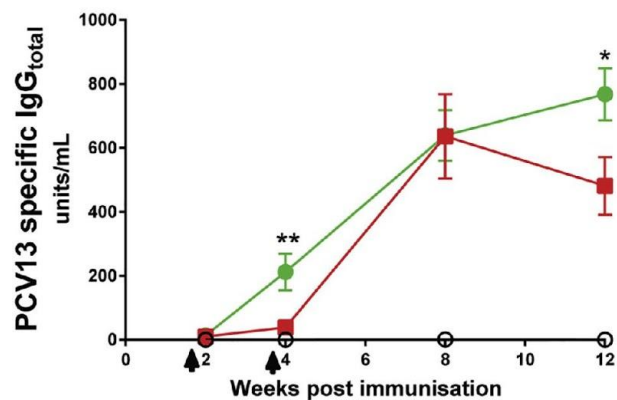
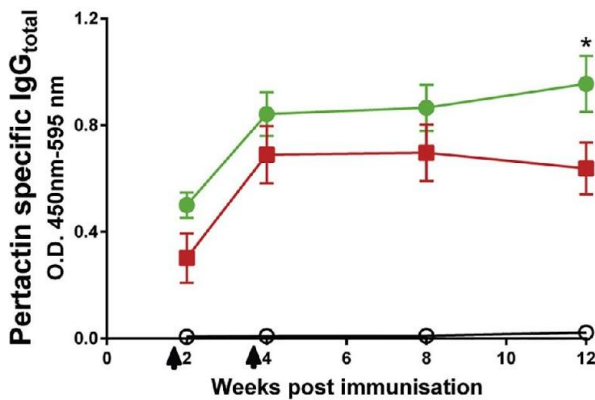
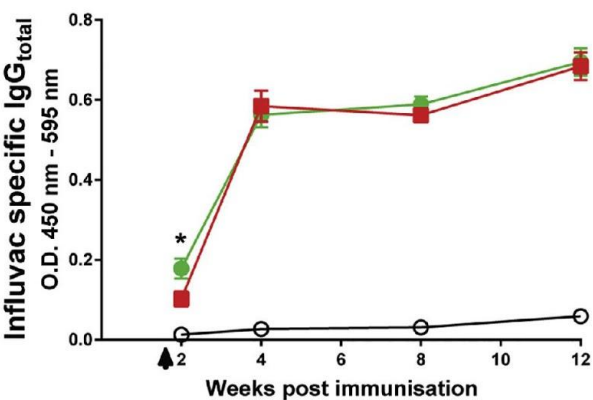
Miriam Anne Lynn⁷, Damon John Tumes⁷, Jocelyn Mei Choo, Anastasia Sribnaia, Stephen James Blake, Lex Ee Xiang Leong, Graeme Paul Young, Helen Siobhan Marshall, Steve Lodewijk Wesselingh, Geraint Berian Rogers, David John Lynn⁸  

Maternal antibiotic treatment model

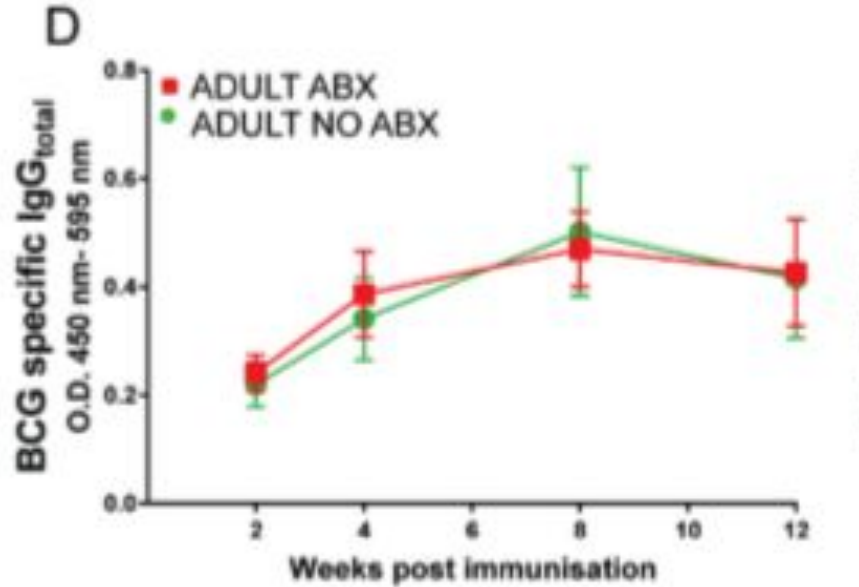
Mother and pups have antibiotics (penicillin and neomycin) in drinking water during late preg -> weaning.

This is your microbiome on ABX

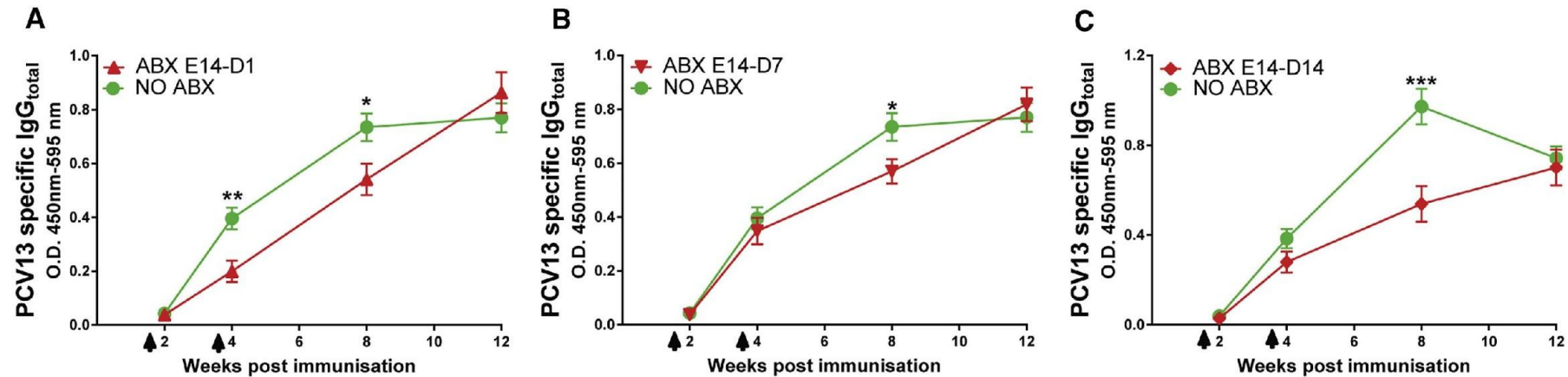


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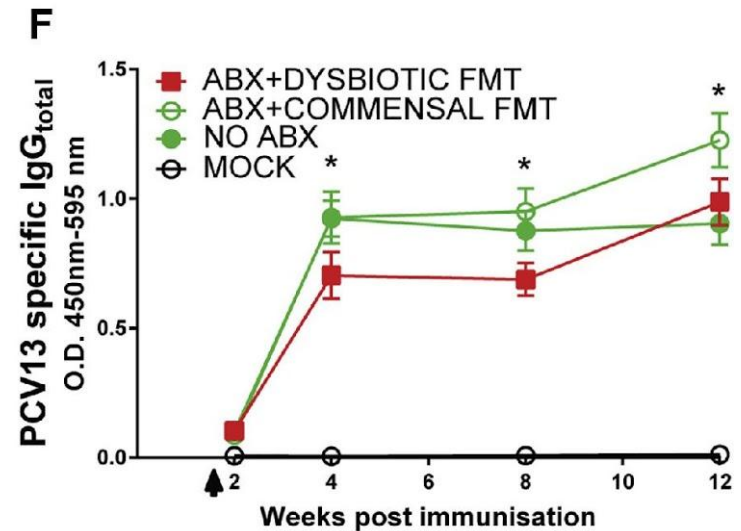
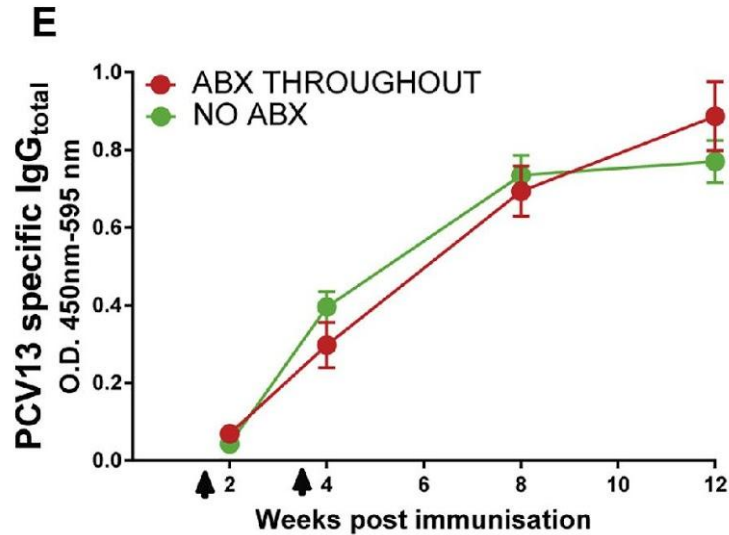
Adults given antibiotic for the same time period had normal vaccine response to BCG



Antibiotics exposure duration on response



If you stay on abx, response is fine



FMT transfer rescues immune response

