

ABSTRACT

RESEARCH PAPER: A Study into the Human Gut Microbiome

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This research paper presents an explanation and overview of the gut microbiome and the many complex interactions it can have in human health. Formation of a healthy microbial community can have significant implications to how humans live and develop throughout life. Proper establishment of the human microbiome begins right at birth, and it is seen that its composition adapts alongside human development and growth. Diversity and abundance are known to be critical components of how healthy our gut microbiome can be. The gut microbiome can be influenced to change by many different elements. Factors such as age, diet, and antibiotics have been found to play a prominent role in the interpersonal variability of human gut microbiomes. Leading to differences in both phylogeny and functions provided. The gut microbiome has been observed to provide a variety of important metabolic and immune functions, highlighting its contribution to both human health and disease.