

## The Human Microbiome An Issue Of Clinics In Laboratory Medicine 1e The Clinics Internal Medicine

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The Human Gut Microbiome - Its Impact on Our Lives and Our Health

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The Human Microbiome Video - Brigham and Women's Hospital ~~All About the Human Microbiome The Human Microbiome An Issue~~

The Human Biome is a complex and essential biological system within the human body. The adult human harbors some 100 trillion bacteria in his gut alone. Balance of this system is essential to good health. This issue of Clinics in Laboratory Medicine focus

~~The Human Microbiome An Issue of Clinics in Laboratory ...~~

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~~The Human Microbiome, An Issue of Clinics in Laboratory ...~~

This microbiome provides essential metabolic activities, and has played a key role in adaptation to nutritional and climatic changes during human evolution. This microbiome protects humans against pathogens, but can affect or modulate the expressivity of susceptibility to inflammatory and metabolic diseases.

~~Focus Issue: The Human Microbiome: BioEssays: Vol 41, No 10~~

Another issues is the legal issue of regulations of probiotics to participants in these studies and/ or to patients. This can cause harm to the participant themselves, effect their samples for the project, or even effect their child. Should negative effects of any of these things occur, the Human Microbiome Project would face major repercussions pertaining to harmful conditions.

~~Issues | the human microbiome~~

The phrase is often applied to the human gut microbiome, where it describes a condition caused by too few beneficial bacteria and an overgrowth of bad bacteria, yeast, and/or parasites. Microbe – Single-celled organisms so tiny that millions can fit into the eye of a needle.

~~Human microbiome: 39 trillion microbes and bacteria that ...~~

Many ethical issues arise from the conduct of human microbiome research. These include the equitable selection of research participants, informed consent and respect for autonomy, data sharing and protection of privacy, invasiveness of sampling and minimization of research risks, and whether and how research results and incidental findings should be returned to participants.

~~NIH Human Microbiome Project – Ethical, Legal, and Social ...~~

The human microbiome is the collection of bacteria, viruses, and fungi that live on and in the human organism's skin, mucosa, and intestinal tract. Re-examining commonly accepted ethical standards from the perspective of this new area of research provides an opportunity to reassess our current thinking about research regulations as well as the importance of some principles and distinctions.

~~Ethical issues in microbiome research and medicine | BMC ...~~

Pedersen et al. recently demonstrated that the human gut microbiome may affect the serum metabolome and induce insulin resistance through species such as *Prevotella copri* and *Bacteroides vulgates*. Metformin is one of the most widely used antidiabetic drugs and is thought to confound the results of metagenomics data analysis .

~~The Human Microbiota in Health and Disease – ScienceDirect~~

*Staphylococcus aureus*; human microbiome The bacterium *Staphylococcus aureus* is found on the skin of healthy persons, making it a member of the normal human microbiota. Certain strains of *S. aureus*, however, are major agents of wound infections, boils, and other human skin infections and are common causes of food poisoning.

~~Human microbiome | Britannica~~

Bacterial DNA, RNA, and lipopolysaccharide are present in many human solid tumors Because the tumor microbiome has a relatively low biomass, contamination of the tumor samples with bacteria or...

~~The human tumor microbiome is composed of tumor type ...~~

Among the laboratory and bioinformatic processing steps for human microbiome studies, a lack of consistency in DNA extraction methodologies is hindering the ability to compare results between studies and sometimes leading to errant conclusions.

~~DNA extraction for human microbiome studies: the issue of ...~~

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The research ethics issues involved in the Human Microbiome Project paralleled very closely those that are raised by human genetics research, said Dr. Amy McGuire, associate professor in the Center for Medical Ethics and Health Policy at Baylor College of Medicine, whose federally funded research looked at the ethics of the project.

~~Ethical issues guided Human Microbiome Project~~

The human microbiome comprises bacteria, archaea, viruses, and eukaryotes which reside within and outside our bodies. These organisms impact human physiology, both in health and in disease, contributing to the enhancement or impairment of metabolic and immune functions.

~~The Human Microbiome and Its Impacts on Health~~

This Special Issue of Cell Host & Microbe provides a timely update on the microbiome from a clinical perspective with a collection of reviews and primary papers that examine how microbial colonization can impact health and disease. Reviews examine how the microbiome influences immune responses to vaccination (169–179) and sorts the cause and effect relationship between microbial colonization, aging (180–189), and early life respiratory infections (223–232); they also examine the role ...

~~Issue: Cell Host & Microbe~~

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~~The Human Microbiome, An Issue of Clinics in Laboratory ...~~

Based on our early experiences participating in the development and initiation of the HMP and our familiarity with the extensive literature on ethical issues in the field of human genomics, we identified five major research ethics issues associated with conducting human microbiome research: informed consent and respect for autonomy; informing subjects of research-related results; data sharing ...

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