

Microbiome and its role in shaping planetary health

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Propositions accompanying the thesis

Microbiome and Its Role in Shaping Planetary Health

By

Ankit Singh Tanwar

1. Advances in sequencing technologies have facilitated in understanding and appreciating the significant diversity and functional interrelationships between microbial communities that determine the health status of an individual. (**Thesis**)
2. Metabolites produced by the microbiome can play a significant role in controlling the tumor microenvironment influencing the level of cell proliferation, inflammation and mortality. (**Thesis**)
3. Emerging pathogens have the capacity to spread, infect large populations, devastate health systems, raise morbidity and mortality rates and add to the economic burden, making them a serious planetary health concern. (**Thesis**)
4. Analysis of Whole Genome Sequence (WGS) data can be used as a primary tool for the detection of multidrug resistance, virulence capabilities, disruptive targets, candidate drug compounds, mechanisms and evolution of pathogenicity. (**Thesis**)
5. From the public health perspective, the most important benefits of the omics systems science are related to the implementation of genomic surveillance of the SARS-CoV-2 aiming to early identify potential variants of interest or variants of concern of the virus. (**Thesis**)
6. Planetary health aims at promoting health, at preventing disease and disability, at eradicating conditions that harm human health, and at fostering resilience and adaptation. (**Thesis**)
7. Some people want it to happen some wish it would happen others make it happen
- **Michael Jordan**
8. Believe you can and you're halfway there.
- **Theodore Roosevelt**
9. We must be willing to let go of the life we planned so as to have the life that is waiting for us.
- **Joseph Campbell**
10. The time you enjoy wasting is not wasted time.
- **Bertrand Russell**