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REVIEWED BY
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Nova Southeastern University, United States

*CORRESPONDENCE
Nicola Luigi Bragazzi
✉ bragazzi@yorku.ca

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Economic microbiology: exploring microbes as agents in economic systems

Nicola Luigi Bragazzi^{1,2,3*}, Woldegebriel Assefa Woldegerima¹
and Anna Siri²

¹Laboratory for Industrial and Applied Mathematics (LIAM), Department of Mathematics and Statistics,
York University, Toronto, ON, Canada, ²Department of Health Sciences (DISSA), Postgraduate School
of Public Health, University of Genoa, Genoa, Italy, ³United Nations Educational, Scientific and Cultural
Organization (UNESCO) Chair, Health Anthropology Biosphere and Healing Systems, University
of Genoa, Genoa, Italy

Microbial communities exhibit striking parallels with economic markets, resembling intricate ecosystems where microorganisms engage in resource exchange akin to human market transactions. This dynamic network of resource swapping mirrors economic trade in human markets, with microbes specializing in metabolic functions much like businesses specializing in goods and services. Cooperation and competition are central dynamics in microbial communities, with alliances forming for mutual benefit and species vying for dominance, similar to businesses seeking market share. The human microbiome, comprising trillions of microorganisms within and on our bodies, is not only a marker of socioeconomic status but also a critical factor contributing to persistent health inequalities. Social and economic factors shape the composition of the gut microbiota, impacting healthcare access and quality of life. Moreover, these microbes exert indirect influence over human decisions by affecting neurotransmitter production, influencing mood, behavior, and choices related to diet and emotions. Human activities significantly impact microbial communities, from dietary choices and antibiotic use to environmental changes, disrupting these ecosystems. Beyond their natural roles, humans harness microbial communities for various applications, manipulating their interactions and resource exchanges to achieve specific goals in fields like medicine, agriculture, and environmental science. In conclusion, the concept of microbial communities as biological markets offers valuable insights into their intricate functioning and adaptability. It underscores the profound interplay between microbial ecosystems and human health and behavior, with far-reaching implications for multiple disciplines. To paraphrase Alfred Marshall, "the Mecca of the economist lies in economic microbiology."

KEYWORDS

economic biology, microbiology, microbiobiodiversity, biological markets, mathematical modeling

Economic Microbiology Food Microbiology Economic Microbiology

Hartmut Rehbein, Jorg Oehlenschläger

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This book delves into Economic Microbiology Food Microbiology Economic Microbiology. Economic Microbiology Food Microbiology Economic Microbiology is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Economic Microbiology Food Microbiology Economic Microbiology, encompassing both the fundamentals and more intricate discussions.

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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Economic Microbiology Food Microbiology Economic Microbiology.

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