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Ancient Organics Bioscience Publishes New Paper Exploring the Holobiome and Human Health

Scientific perspective highlights the interconnected relationship between soil, plants, microbes, animals, and human well-being

SAN LUIS OBISPO, Calif. — June 2026 — Ancient Organics Bioscience, a biotechnology company developing microbial solutions for regenerative agriculture and environmental restoration, has published a new scientific perspective paper, [*The Holobiome and Human Health*](#), exploring how interconnected microbial ecosystems influence the health of soils, crops, animals, and people.

The [paper](#) examines the emerging concept of the holobiome—the integrated network of microorganisms, plants, animals, humans, and their surrounding environment functioning as a unified biological system. Drawing on advances in microbiome science, ecology, agriculture, and human health, the publication argues that many of today's environmental and health challenges are best understood through the lens of biological interconnectedness rather than isolated systems.

"For more than a century, biology has largely focused on individual organisms in isolation," said Raul Cano, Ph.D., Founder and Chief Science Officer of Ancient Organics Bioscience. "The holobiome perspective recognizes that life functions through relationships. Soil microbes influence plant health, plants influence food quality, food shapes the gut microbiome, and the gut microbiome influences human health. These systems are deeply connected."

The [paper](#) highlights a growing body of scientific evidence demonstrating that healthy soils support diverse microbial communities, which contribute to resilient crops, improved nutrient cycling, and healthier food systems. These interconnected biological relationships ultimately influence the health and well-being of animals and humans.

At the center of this continuum is the microbiome—the vast community of microorganisms that inhabit soils, plants, animals, and the human body. According to the [paper](#), disruptions to these microbial ecosystems may contribute to declining soil health, reduced agricultural resilience, and growing concerns surrounding chronic human disease.

The publication also explores how regenerative agricultural practices and microbial-based technologies may help restore ecological balance while supporting long-term sustainability.

"The future of health begins with understanding the biological partnerships that have sustained life on Earth for millions of years," Cano said. "When we improve the health of our soils, we create ripple effects that extend throughout entire ecosystems, including our own communities."

The concepts explored in the paper align closely with Ancient Organics Bioscience's mission of developing microbial solutions that restore ecological function, improve soil resilience, enhance nutrient cycling, and support sustainable food production. Through its research and product development efforts, the company seeks to harness beneficial microorganisms to strengthen the connections between environmental health and human health.

The publication serves as both a scientific overview and a call for a more integrated approach to agriculture, environmental stewardship, and public health.

"As we face challenges ranging from soil degradation and biodiversity loss to chronic disease and food insecurity, the answers may lie not in controlling nature, but in learning to work alongside the microbial ecosystems that make life possible," Cano added.

The paper, *The Holobiome and Human Health*, is available for download through Ancient Organics Bioscience and is intended for researchers, agricultural professionals, healthcare practitioners, policymakers, and anyone interested in the future of regenerative health systems.

About Ancient Organics Bioscience

Ancient Organics Bioscience, a California-based biotechnology company, is transforming agriculture with evidenced-based organic microbial inoculants to rebuild soil vitality and productivity. Our proprietary microbial consortia restore soil biodiversity, increase soil organic carbon, and detoxify environmental contaminants while increasing crop yields and nutrient density. Ancient Organics enables farmers to produce cleaner, healthier food while reducing the need for synthetic inputs. We are not just improving farming—we are rebuilding the foundation of our food system. www.ancientorganicsbio.com

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