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| Nota di contenuto | Cover; Contents; Acknowledgments; Microbiome Working Group Participants; Introduction: Looking Back and Looking Forward; The Project Collaborators; Our Method; The Scope of this Volume; Reading this Book; 1. The Human Microbiome: Science, History, and Research; Introduction; The Role of Microorganisms in the Environment; The Use of Microorganisms in Industry and Food Production; The History of Microorganisms in Human Health and Disease; The Human Microbiome; Human Microbiome Project and the National Institutes of Health; Research Tools and Methods; Acquisition of the Microbiome Interactions Between the Microbiome and the Host GenomeManipulating the Microbiome for Medical Purposes; Conclusion; 2. Personal Identity: Our Microbes, Ourselves; Introduction; Personal Identity over Time; The Human Microbiome and Numerical Identity; The Human Microbiome and Conceptions of Self; The Impact of Science on Commonsense Conceptions of Self; Conclusion; Policy |

Recommendations; 3. Property and Research on the Human Microbiome; Four Controversial Cases; Introduction; Ownership and Property in Philosophy; Ownership and Property in the Social Sciences Ownership and Property in the Context of Biomedical Research Current Property Structures and Research on the Human Microbiome; Patents; Copyrights; Property Rights and Biological Samples; Conclusion; Policy Recommendations; 4. Privacy, Confidentiality, and New Ways of Knowing More; Introduction; Philosophical Approaches to Privacy; Confidentiality; Legislations to Protect Medical and Research Information; Data Sharing; Conclusion; Policy Recommendations; 5. Research Ethics; Introduction; The Landscape of Microbiome Research; Historical Development of Research Ethics Regulation and Guidelines Research Ethics and Human Microbiome Research Critical Reflections on the U.S. Framework for Human Subject Research; Implications for the Conduct of Human Subject Microbiome Research; Research and Regulation of Probiotics and Phages; Conclusion; Policy Recommendations; 6. Biobanks and the Human Microbiome; Introduction; What Is a Biobank?; Human Microbiome Biobanks; Ethical, Legal, and Social Implications of Human Microbiome Biobanks; International Biobanks; Community Consultation: A Reasonable Approach to Participatory Research; Discrimination and Other Issues; Conclusion Policy Recommendations 7. Public Health and Research on Populations; Microbes and Public Health; Public Health, Liberty, and Privacy; Public Health Functions; Public Health Agency Powers; Public Health Methods; Research Regulations and Public Health Data Gathering; Quality Assurance, Quality Improvement, and Surveillance; De Minimis Risk: A Proposal for a New Category of Research Risk; Additional Factors in the Ethical Conduct of Population Studies; Prevention and Education; Cautions for Public Health Policymakers; Coda: Further Philosophical Reflections on Public Health and the Microbiome Policy Recommendations

Sommario/riassunto

Human microbiome research has revealed that legions of bacteria, viruses, and fungi live on our skin and within the cavities of our bodies. New knowledge from these recent studies shows that humans are superorganisms and that the microbiome is indispensable to our lives and our health. This volume explores some of the science on the human microbiome and considers the ethical, legal, and social concerns that are raised by this research.
