

1.	Record Nr.	UNINA990004086850403321
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	Titolo	Morovich : scrittore tra gioco e sogno / Bruno Rombi
	Pubbl/distr/stampa	[s.l.] : Sabatelli, 1986
	Descrizione fisica	89 p. ; 21 cm
	Disciplina	853.91
	Locazione	FLFBC
	Collocazione	853.91 ROM 1
	Lingua di pubblicazione	Italiano
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9910787617503321
	Titolo	The social biology of microbial communities : workshop summary // Leighanne Olsen, Eileen R. Choffnes, and Alison Mack, Rapporteurs ; Forum on Microbial Threats, Board on Global Health, Institute of Medicine of the National Academies
	Pubbl/distr/stampa	Washington, District of Columbia : , : National Academies Press, , [2012] ©2012
	ISBN	0-309-26435-9 0-309-26433-2
	Descrizione fisica	1 online resource (632 p.)
	Disciplina	571.2/9
	Soggetti	Microbial growth - Development Microorganisms - Development Microbial ecology Communicable diseases
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia

Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	<p>""Front Matter""; ""Reviewers""; ""Acknowledgments""; ""Contents""; ""Tables, Figures, and Boxes""; ""Workshop Overview""; ""Appendix A: Contributed Manuscripts""; ""Appendix B: Agenda""; ""Appendix C: Acronyms""; ""Appendix D: Glossary""; ""Appendix E: Speaker Biographies""</p>
Sommario/riassunto	<p>Beginning with the germ theory of disease in the 19th century and extending through most of the 20th century, microbes were believed to live their lives as solitary, unicellular, disease-causing organisms . This perception stemmed from the focus of most investigators on organisms that could be grown in the laboratory as cellular monocultures, often dispersed in liquid, and under ambient conditions of temperature, lighting, and humidity. Most such inquiries were designed to identify microbial pathogens by satisfying Koch's postulates This pathogen-centric approach to the study of microorganisms produced a metaphorical "war" against these microbial invaders waged with antibiotic therapies, while simultaneously obscuring the dynamic relationships that exist among and between host organisms and their associated microorganisms only a tiny fraction of which act as pathogens. Despite their obvious importance, very little is actually known about the processes and factors that influence the assembly, function, and stability of microbial communities. Gaining this knowledge will require a seismic shift away from the study of individual microbes in isolation to inquiries into the nature of diverse and often complex microbial communities, the forces that shape them, and their relationships with other communities and organisms, including their multicellular hosts. On March 6 and 7, 2012, the Institute of Medicine's Forum on Microbial Threats hosted a public workshop to explore the emerging science of the "social biology" of microbial communities. Workshop presentations and discussions embraced a wide spectrum of topics, experimental systems, and theoretical perspectives representative of the current, multifaceted exploration of the microbial frontier. Participants discussed ecological, evolutionary, and genetic factors contributing to the assembly, function, and stability of microbial communities; how microbial communities adapt and respond to environmental stimuli; theoretical and experimental approaches to advance this nascent field; and potential applications of knowledge gained from the study of microbial communities for the improvement of human, animal, plant, and ecosystem health and toward a deeper understanding of microbial diversity and evolution. The Social Biology of Microbial Communities: Workshop Summary further explains the happenings of the workshop." --- Publisher's description.</p>