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Altri autori (Persone)	LederbergJoshua RelmanDavid A
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Workshop overview -- Appendix: WO-1. Infectious history / Joshua Lederberg -- The life and legacies of Joshua Lederberg -- Reflections on the career of Joshua Lederberg / David A. Hamburg -- Joshua Lederberg remembered / Stephen S. Morse -- The life and impact of a legend-Joshua Lederberg / Adel Mahmoud -- Microbial ecology and ecosystems -- War and peace: humans and their microbiome / David A. Relman -- Deciphering the complex molecular dialogue of symbiosis: Esperanto or polyglot? / Margret McFall-Ngai -- Pathogen evolution -- Bacterial pathogenicity: an historical and experimental perspective / Stanley Falkow -- Evolution of bacterial-host interactions: virulence and the immune overresponse / Elisa Margolis and Bruce R. Levin -- Antibiotic resistance: origins and countermeasures -- Antibiotic resistance and the future of antibiotics / Julian Davies -- Microbial drug resistance: an old problem in need of new solutions / Stanley N. Cohen -- Expanding the microbial universe: metagenomics and microbial

community dynamics / Jo Handelsman -- Infectious disease emergence: past, present, and future -- Emerging infections: condemned to repeat? / Stephen S. Morse -- Ecological origins of novel human pathogens / Mark Woolhouse and Eleanor Gaunt -- Genomic evolvability and the origin of novelty: studying the past, interpreting the present, and predicating the future / Jonathan A. Eisen -- Can we predict future trends in disease emergence? / Peter Daszak -- Appendices: A. Agenda -- B. Acronyms -- C. Glossary -- D. Forum member biographies.

Sommario/riassunto

"Dr. Joshua Lederberg - scientist, Nobel laureate, visionary thinker, and friend of the Forum on Microbial Threats - died on February 2, 2008. It was in his honor that the Institute of Medicine's Forum on Microbial Threats convened a public workshop on May 20-21, 2008, to examine Dr. Lederberg's scientific and policy contributions to the marketplace of ideas in the life sciences, medicine, and public policy. The resulting workshop summary, Microbial Evolution and Co-Adaptation, demonstrates the extent to which conceptual and technological developments have, within a few short years, advanced our collective understanding of the microbiome, microbial genetics, microbial communities, and microbe-host-environment interactions."
