1. Record Nr.          UNINA9910557128603321

   Autore             Musk Gabrielle

   Titolo             Refinements to Animal Models for Biomedical Research

   Pubbl/distr/stampa  Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing
                      Institute, 2021

   Descrizione fisica  1 electronic resource (234 p.)

   Soggetti           Research & information: general
                      Biology, life sciences

   Lingua di pubblicazione   Inglese

   Formato            Materiale a stampa

   Livello bibliografico   Monografia

   Sommario/riassunto  There is some talk about an antibiotic Armageddon, wherein
                      untreatable post-operative infections and similarly untreatable
                      complications after chemotherapy will occur. The now famous "O'Neill
                      Report" suggests that, by 2050, more people could die from resistant
                      bacterial infections than from cancer. We are still learning about all the
                      subtle drivers of antibiotic resistance, realizing that we need a single
                      "whole health" coordinated policy. We ingest what we sometimes feed
                      to animals, yet there does not seem to be any new classes of antibiotics
                      on the horizon. Maybe there is something that has been around forever
                      that could could to our rescue: bacteriophages. Nevertheless, we have
                      to do things differently. We must use antibiotics appropriately and for
                      the correct indication, duration, and dosage with good practice and
                      stewardship.. While by no means comprehensive, this book covers
                      many topics regarding antibiotic stewardship. It also addresses older
                      antibiotics, new combinations, and even new agents. Last but not least,
                      this book features two excellent articles on bacteriophages.
                      Refinements to animal models used in research for either human or
                      animal benefit must be an ongoing aim for anyone working in this
                      context, whether it be as an animal carrier, an animal user, a
                      veterinarian, or an official. Unfortunately, the details of refinements are
                      often overlooked in publications describing the research outcomes.

This book includes manuscripts published in the Animals Special Issue "Refinements to Animal Models for Biomedical Research". In this contemporary resource, we included 12 peer-reviewed papers that cover a range of approaches to the concept of refinement.