1. Record Nr. UNINA9910557363903321

Autore	Varanda Carla
Titolo	The Application of Viruses to Biotechnology
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021
Descrizione fisica	1 online resource (296 p.)
Soggetti	Technology: general issues
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Viruses are microscopic agents that exist worldwide and are present in humans, animals, plants, and other living organisms in which they can cause devastating diseases. However, the advances of biotechnology and next-generation sequencing technologies have accelerated novel virus discovery, identification, sequencing, and manipulation, showing that they present unique characteristics that place them as valuable tools for a wide variety of biotechnological applications. Many applications of viruses have been used for agricultural purposes, namely concerning plant breeding and plant protection. Nevertheless, it is interesting to mention that plants have also many advantages to be used in vaccine production, such as the low cost and low risks they entail, showing once more the versatility of the use of viruses in biotechnology. Although it will obviously never be ignored that viruses are responsible for devastating diseases, it is clear that the more they are studied, the more possibilities they offer to us. They are now on the front line of the most revolutionizing techniques in several fields, providing advances that would not be possible without their existence. In this book there are presented studies that demonstrate the work developed using viruses in biotechnology. These studies were brought by experts that focus on the development and applications of many viruses in several fields, such as agriculture, the pharmaceutical industry, and medicine.

2. Record Nr. UNINA9910299711403321

Autore	Xu Zhonglin
Titolo	Fundamentals of Air Cleaning Technology and Its Application in Cleanrooms / / by Zhonglin Xu
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2014
ISBN	3-642-39374-8
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (881 p.)
Disciplina	363.7392 620 628.53 690
Soggetti	Building construction Air - Pollution Engineering Building Physics, HVAC Atmospheric Protection/Air Quality Control/Air Pollution Engineering, general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Particle and Size Distribution -- Airborne Particles in Outdoor Air-Atmospheric Dust -- Filtration Mechanism of Fine Particle -- Characteristics of Air Filters -- Structural Design of HEPA Filter -- Movement of Indoor Fine Particle -- Classification of Air Cleanliness -- Principle of Cleanroom -- Theory of Biological Cleanroom -- Calculation Theory of Uniform Distribution in Cleanroom -- Calculation Theory of Non-uniform Distribution in Cleanroom -- Characteristics of Cleanroom -- Design Calculation of Cleanroom -- Local Clean Area -- Theory of Leakage Preventing Layer -- Sampling Theory -- Measurement and Evaluation.
Sommario/riassunto	Fundamentals of Air Cleaning Technology and Its Application in Cleanrooms sets up the theoretical framework for cleanrooms. New ideas and methods are presented, which include the characteristic index of cleanrooms, uniform and non-uniform distribution

characteristics, the minimum sampling volume, a new concept of outdoor air conditioning and the fundamentals of leakage-preventing layers. Written by an author who can look back on major scientific achievements and 50 years of experience in this field, this book offers a concise and accessible introduction to the fundamentals of air cleaning technology and its application. The work is intended for researchers, college teachers, graduates, designers, technicians and corporate R&D personnel in the field of HVAC and air cleaning technology. Zhonglin Xu is a senior research fellow at China Academy of Building Research.