1. Record Nr. UNINA9910566465303321

Autore	Palmieri Ferdinando
Titolo	Mitochondrial Transport Proteins
Pubbl/distr/stampa	Basel, : MDPI - Multidisciplinary Digital Publishing Institute, 2022
Descrizione fisica	1 online resource (476 p.)
Soggetti	Biology, life sciences Research and information: general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Mitochondrial transporters are membrane-inserted proteins which provide a link between metabolic reactions occurring within the mitochondrial matrix and outside the organelles by catalyzing the translocation of numerous solutes across the mitochondrial membrane. They include the mitochondrial carrier family members, the proteins involved in pyruvate transport, ABC transporters and channels, and are, therefore, essential for many biological processes and cell homeostasis. Identification and functional studies of many mitochondrial transporters have been performed over the years using both in vitro and in vivo systems. The few recently solved structures of these transporters have paved the way for further investigations. Furthermore, alterations in their function are responsible for several diseases.

2. Record Nr. UNINA9910639985003321

Autore	Borz Stelian Alexandru
Titolo	Electronics, Close-Range Sensors and Artificial Intelligence in Forestry
Pubbl/distr/stampa	Basel, : MDPI - Multidisciplinary Digital Publishing Institute, 2022
ISBN	3-0365-6171-4
Descrizione fisica	1 electronic resource (248 p.)
Soggetti	Research & information: general Biology, life sciences Forestry & related industries
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The use of electronics, close-range sensing, and artificial intelligence has changed the management paradigm in many contemporary industries in which Big Data analytics by automated processes has become the backbone of decision making and improvement. Acknowledging the integration of electronics, devices, sensors, and intelligent algorithms in much of the equipment used in forest operations, as well as their use in various forestry-related applications, it is apparent that many disciplines within forestry and forest science still rely on data collected traditionally, which is resource-intensive. In turn, this brings limitations in characterizing the specific behaviors of forest product systems and wood supply chains, and often prevents the development of solutions for improvement or inferring the laws behind the operation and management of such systems. Undoubtedly, many solutions still need to be developed in the future to provide the technology required for the effective management of forests. In this regard, the Special Issue entitled “Electronics, Close-Range Sensors and Artificial Intelligence in Forestry” highlights many examples of how technological improvements can be brought to forestry and to other related fields of science and practice.