

ISO21710: Specification on data management and publication in microbial resource centres.

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Different culture collections use their own data form for in-house data management and also online data sharing, which greatly hinder the further data exchange and integration globally. As a result, it is difficult for all the clients and potential users to access the information of microbes preserved in mBRCs, which severely impedes the further exploitation of the microbial resources in academia and bioindustries. This is especially true for the biotechnology companies focusing on microbial resource development that depend to a great part on the deep utilization of their own and external resources by tapping into the huge body of data.

Therefore, the ISO21710: Specification on data management and publication in microbial resource centres, which was published in 2020 by ISO technical committee 276 Biotechnology, aiming at realize accurate, reliable and cost-efficiency data access, exchanges and integrations between mBRCs and between mBRCs and the users. It specifies requirements for the data management workflow and information which should be recorded in the in-house database of a microbial resource centre, and also specifies criteria for the data sharing of online catalogue, including minimum dataset and recommended dataset which will be used for the data publication.