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UNIPROTKB AND THE PROCESSES OF PROTEIN BIOCURATION

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SARDEGNA RICERCHE
Loc. Piscinamanna – Edificio 2 – Pula

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The Universal Protein Resource UniProt strives to provide the scientific community with a stable, comprehensive, classified, richly and accurately curated catalog of proteins. It is composed of four databases, UniParc, UniRef, UniMES and UniProtKB, each aimed at specific uses. UniProtKB is the expertly curated database of UniProt. It provides the scientific community with a central access point for integrated protein information with cross-references to multiple resources. The production of the renowned manually reviewed section of UniProtKB, Swiss-Prot, is one of the core activities of the UniProt consortium. The manual curation process

includes thorough protein sequence analysis, review of computer predictions and integration of information extracted from the literature. Controlled vocabularies are used to allow easy retrieval of biological information and computer parsing. Manual annotation is a time-consuming task and annotation priorities have to be defined. Since all sequences cannot be selected for manual annotation the UniProt curator team also manually produces stringent annotation rules that can be applied to sequences stored in TrEMBL, the automatically annotated section of UniProtKB.

Official language of seminar: English

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