

Abstract

CDKN2a Database Project: Integrating Allelic Variants with Evolution, Structure, Function, and Disease-Associated Mutation

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We introduce the CDKN2a Database Project, an online database of germline and somatic variants of the CDKN2a tumor suppressor gene recorded in human disease through 2002, annotated with evolutionary, structural, and functional information. The CDKN2a Database Project improves upon existing resources by: 1) Including both somatic mutations and germline variants, thereby adding the perspective of somatic cell carcinogenesis to that of hereditary cancer predisposition. 2) Annotating the database with information that may assist with the interpretation of allelic variants. 3) Providing the information in a format that allows a user to either download the database or to easily manipulate it online. We describe the database structure, content, current uses, and potential implications. <http://biodesktop.uvm.edu/perl/p16>