

FunResDB-A web resource for genotypic susceptibility testing of *Aspergillus fumigatus*.

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Abstract

Therapy of invasive aspergillosis is becoming more difficult due to the emergence of azole resistance in *Aspergillus fumigatus*. A majority of resistant strains carries mutations in the CYP51A gene. Due to a lack of sensitivity of culture-based methods, molecular detection of *A. fumigatus* has become an important diagnostic tool. We set up the database FunResDB (www.nrz-myk.de/funresdb) to gather all available information about CYP51A-dependent azole resistance from published literature. In summary, the screening resulted in 79 CYP51A variants, which are linked to 59 nonsynonymous mutations. A tailor-made online sequence analysis tool allows for genotypic susceptibility testing of *A. fumigatus*.

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