



Molecular Mechanisms of Resistance to 5-Fluorocytosine in Laboratory Mutants of *Candida glabrata*

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Résumé en anglais	Resistance to 5-fluorocytosine (5-FC) has been poorly investigated in the yeast <i>Candida glabrata</i> . This study was conducted on laboratory mutants obtained by exposure of a wild-type isolate to 5-FC. Based on their susceptibility to 5-fluorouracil (5-FU), two of these mutants were selected for further analysis of the molecular mechanisms of 5-FC resistance. One mutant, resistant to both compounds, exhibited a missense mutation in the gene coding the cytosine deaminase and a decrease in the expression level of the gene coding the uridine monophosphate pyrophosphorylase. The other mutant that showed a reduced susceptibility to 5-FC and 5-FU exhibited an overexpression of the genes coding the thymidylate synthase and a cytosine permease, associated with a missense mutation in the last gene. Thus, beside mutations in the FUR1 gene which represent the most common cause of resistance to 5-FC, other mechanisms may also occur in <i>C. glabrata</i> .
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Liens

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