

DNA array analysis of *Candida albicans* gene expression in response to adherence to polystyrene.

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Auteur	Apair-Marchais, V�ronique [1], Kempf, Marie [2], Licznar, Patricia [3], Lefran�ois, Corinne [4], Bouchara, Jean-Philippe [5], Robert, Raymond [6], Cottin, Jane [7]
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R�sum� en anglais	<p><i>Candidiasis</i> is often initiated by the colonization of inert surfaces. In order to elucidate the mechanisms involved in this adherence process, DNA macroarrays were used to analyze the transcriptome of <i>Candida albicans</i>, the main causative agent of this mycoses, in a simple adherence model using germ tubes produced in polystyrene Petri dishes. Non-adherent germ tubes produced on glass surface were used as a control. Analysis of gene expression displayed 77 genes identified as statistically overexpressed in adherent germ tubes. Among these genes, some encoded enzymes participating in metabolism of lipids (such as LIP6), of proteins (such as SAP1) or of carbohydrates (like PGI1, PMI40 and PSA1. Some of these genes have already been reported as playing a role in pathogenesis of <i>C. albicans</i>. However, functions were unknown for a large part (45.5%) of the overexpressed genes which will be analyzed further in order to define their relationship with adherence.</p>
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Liens

- [1] <http://okina.univ-angers.fr/v.marchai/publications>
- [2] <http://okina.univ-angers.fr/marie.kempf/publications>
- [3] [http://okina.univ-angers.fr/publications?f\[author\]=156](http://okina.univ-angers.fr/publications?f[author]=156)
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- [23] <http://www.ncbi.nlm.nih.gov/pubmed/15796975?dopt=Abstract>

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