

## Transcript profiling in *Candida albicans* reveals new cellular functions for the transcriptional repressors CaTup1, CaMig1 and CaNrg1.

Submitted by V ronique Apair... on Thu, 03/12/2015 - 12:13

Titre	Transcript profiling in <i>Candida albicans</i> reveals new cellular functions for the transcriptional repressors CaTup1, CaMig1 and CaNrg1.
Type de publication	Article de revue
Auteur	Murad, A M [1], d'Enfert, Christophe [2], Gaillardin, C [3], Tournu, H [4], Tekaia, F [5], Talibi, D [6], Marechal, D [7], Apaire-Marchais, V�ronique [8], Cottin, Jane [9], Brown, A J [10]
Editeur	Wiley
Type	Article scientifique dans une revue � comit� de lecture
Ann�e	2001
Langue	Anglais
Date	2001 Nov
Pagination	981-93
Volume	42
Titre de la revue	Molecular Microbiology
ISSN	0950-382X
Mots-cl�s	<i>candida albicans</i> [11], DNA-Binding Proteins [12], Fungal Proteins [13], Gene Expression Profiling [14], Gene Expression Regulation, Fungal [15], Genes, Fungal [16], Humans [17], Models, Genetic [18], Nuclear Proteins [19], Open Reading Frames [20], Repressor Proteins [21], <i>Saccharomyces cerevisiae</i> Proteins [22], Zinc Fingers [23]
R�sum� en anglais	<p>The pathogenic fungus, <i>Candida albicans</i> contains homologues of the transcriptional repressors ScTup1, ScMig1 and ScNrg1 found in budding yeast. In <i>Saccharomyces cerevisiae</i>, ScMig1 targets the ScTup1/ScSsn6 complex to the promoters of glucose repressed genes to repress their transcription. ScNrg1 is thought to act in a similar manner at other promoters. We have examined the roles of their homologues in <i>C. albicans</i> by transcript profiling with an array containing 2002 genes, representing about one quarter of the predicted number of open reading frames (ORFs) in <i>C. albicans</i>. The data revealed that CaNrg1 and CaTup1 regulate a different set of <i>C. albicans</i> genes from CaMig1 and CaTup1. This is consistent with the idea that CaMig1 and CaNrg1 target the CaTup1 repressor to specific subsets of <i>C. albicans</i> genes. However, CaMig1 and CaNrg1 repress other <i>C. albicans</i> genes in a CaTup1-independent fashion. The targets of CaMig1 and CaNrg1 repression, and phenotypic analyses of <i>nrg1/nrg1</i> and <i>mig1/mig1</i> mutants, indicate that these factors play differential roles in the regulation of metabolism, cellular morphogenesis and stress responses. Hence, the data provide important information both about the modes of action of these transcriptional regulators and their cellular roles. The transcript profiling data are available at <a href="http://www.pasteur.fr/recherche/unites/RIF/transcriptdata/">http://www.pasteur.fr/recherche/unites/RIF/transcriptdata/</a> [24].</p>

URL de la notice <http://okina.univ-angers.fr/publications/ua8785> [25]  
DOI [10.1046/j.1365-2958.2001.02713.x](https://doi.org/10.1046/j.1365-2958.2001.02713.x) [26]  
Lien vers le document <http://dx.doi.org/10.1046/j.1365-2958.2001.02713.x> [26]  
Autre titre Mol. Microbiol.  
Identifiant (ID) PubMed [11737641](https://pubmed.ncbi.nlm.nih.gov/11737641/) [27]

---

## Liens

- [1] [http://okina.univ-angers.fr/publications?f\[author\]=15592](http://okina.univ-angers.fr/publications?f[author]=15592)
- [2] [http://okina.univ-angers.fr/publications?f\[author\]=22420](http://okina.univ-angers.fr/publications?f[author]=22420)
- [3] [http://okina.univ-angers.fr/publications?f\[author\]=15594](http://okina.univ-angers.fr/publications?f[author]=15594)
- [4] [http://okina.univ-angers.fr/publications?f\[author\]=15595](http://okina.univ-angers.fr/publications?f[author]=15595)
- [5] [http://okina.univ-angers.fr/publications?f\[author\]=15596](http://okina.univ-angers.fr/publications?f[author]=15596)
- [6] [http://okina.univ-angers.fr/publications?f\[author\]=15597](http://okina.univ-angers.fr/publications?f[author]=15597)
- [7] [http://okina.univ-angers.fr/publications?f\[author\]=15598](http://okina.univ-angers.fr/publications?f[author]=15598)
- [8] <http://okina.univ-angers.fr/v.marchai/publications>
- [9] [http://okina.univ-angers.fr/publications?f\[author\]=7764](http://okina.univ-angers.fr/publications?f[author]=7764)
- [10] [http://okina.univ-angers.fr/publications?f\[author\]=15601](http://okina.univ-angers.fr/publications?f[author]=15601)
- [11] [http://okina.univ-angers.fr/publications?f\[keyword\]=9240](http://okina.univ-angers.fr/publications?f[keyword]=9240)
- [12] [http://okina.univ-angers.fr/publications?f\[keyword\]=11004](http://okina.univ-angers.fr/publications?f[keyword]=11004)
- [13] [http://okina.univ-angers.fr/publications?f\[keyword\]=11618](http://okina.univ-angers.fr/publications?f[keyword]=11618)
- [14] [http://okina.univ-angers.fr/publications?f\[keyword\]=7856](http://okina.univ-angers.fr/publications?f[keyword]=7856)
- [15] [http://okina.univ-angers.fr/publications?f\[keyword\]=11613](http://okina.univ-angers.fr/publications?f[keyword]=11613)
- [16] [http://okina.univ-angers.fr/publications?f\[keyword\]=10212](http://okina.univ-angers.fr/publications?f[keyword]=10212)
- [17] [http://okina.univ-angers.fr/publications?f\[keyword\]=991](http://okina.univ-angers.fr/publications?f[keyword]=991)
- [18] [http://okina.univ-angers.fr/publications?f\[keyword\]=8731](http://okina.univ-angers.fr/publications?f[keyword]=8731)
- [19] [http://okina.univ-angers.fr/publications?f\[keyword\]=14243](http://okina.univ-angers.fr/publications?f[keyword]=14243)
- [20] [http://okina.univ-angers.fr/publications?f\[keyword\]=11706](http://okina.univ-angers.fr/publications?f[keyword]=11706)
- [21] [http://okina.univ-angers.fr/publications?f\[keyword\]=14481](http://okina.univ-angers.fr/publications?f[keyword]=14481)
- [22] [http://okina.univ-angers.fr/publications?f\[keyword\]=14482](http://okina.univ-angers.fr/publications?f[keyword]=14482)
- [23] [http://okina.univ-angers.fr/publications?f\[keyword\]=13313](http://okina.univ-angers.fr/publications?f[keyword]=13313)
- [24] <http://www.pasteur.fr/recherche/unites/RIF/transcriptdata/>
- [25] <http://okina.univ-angers.fr/publications/ua8785>
- [26] <http://dx.doi.org/10.1046/j.1365-2958.2001.02713.x>
- [27] <http://www.ncbi.nlm.nih.gov/pubmed/11737641?dopt=Abstract>

Publié sur *Okina* (<http://okina.univ-angers.fr>)