



miR-661 expression in SNAI1-induced epithelial to mesenchymal transition contributes to breast cancer cell invasion by targeting Nectin-1 and StarD10 messengers.

Guillaume Vetter, Anne Saumet, Moes Michèle, Laurent Vallar, Antony Le Béhec, Cristina Laurini, Michelle Sabbah, Khalil Arar, Charles Theillet, Charles-Henri Lecellier, et al.

► To cite this version:

Guillaume Vetter, Anne Saumet, Moes Michèle, Laurent Vallar, Antony Le Béhec, et al.. miR-661 expression in SNAI1-induced epithelial to mesenchymal transition contributes to breast cancer cell invasion by targeting Nectin-1 and StarD10 messengers.. *Oncogene*, 2010, 29 (31), pp.4436-48. 10.1038/onc.2010.181 . inserm-00492299

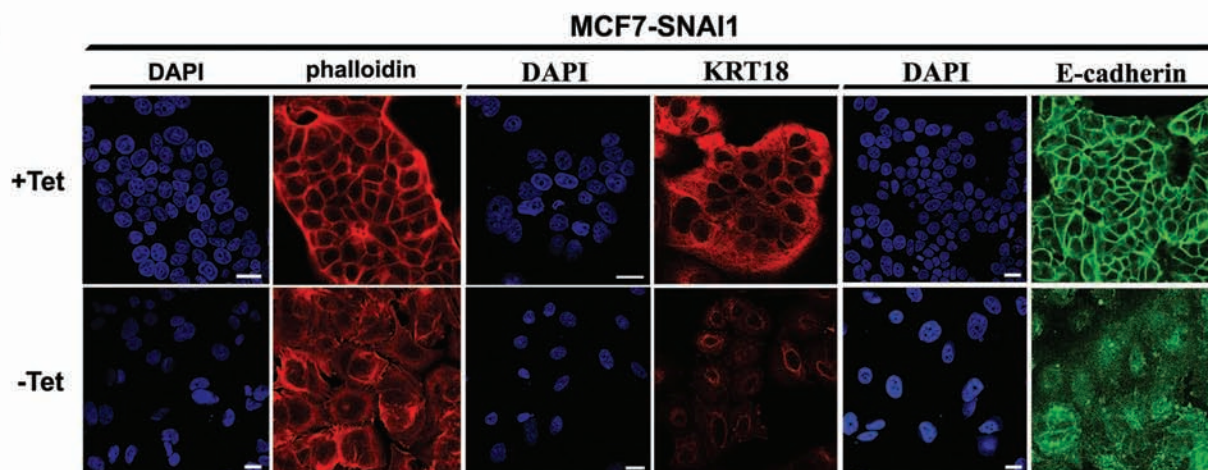
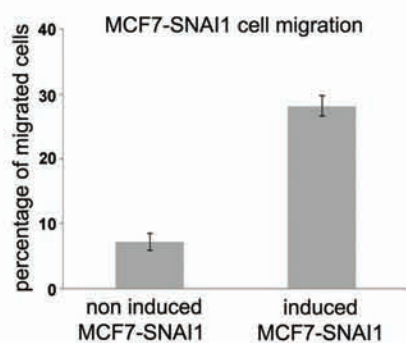
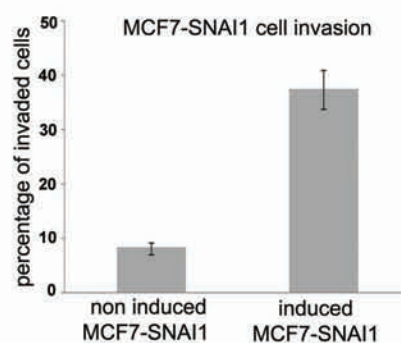
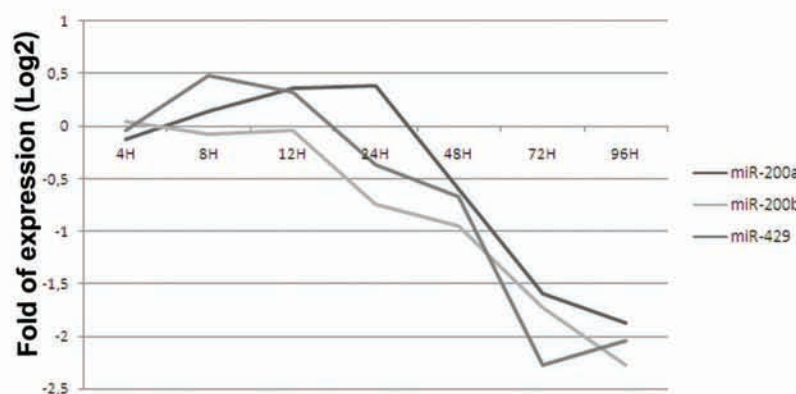
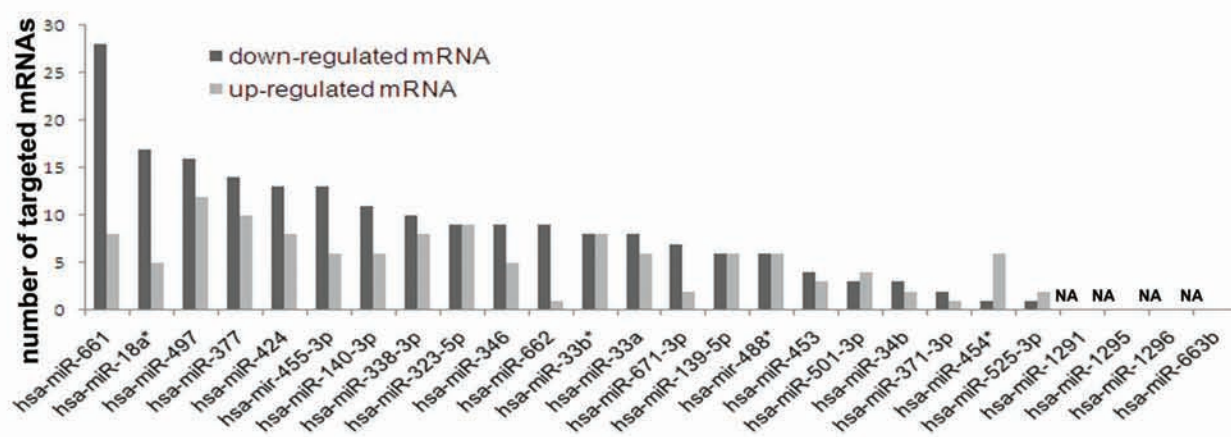
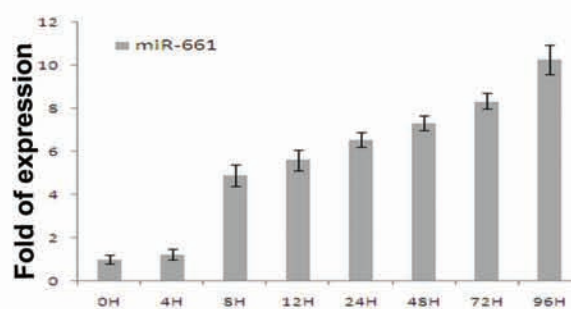
HAL Id: inserm-00492299

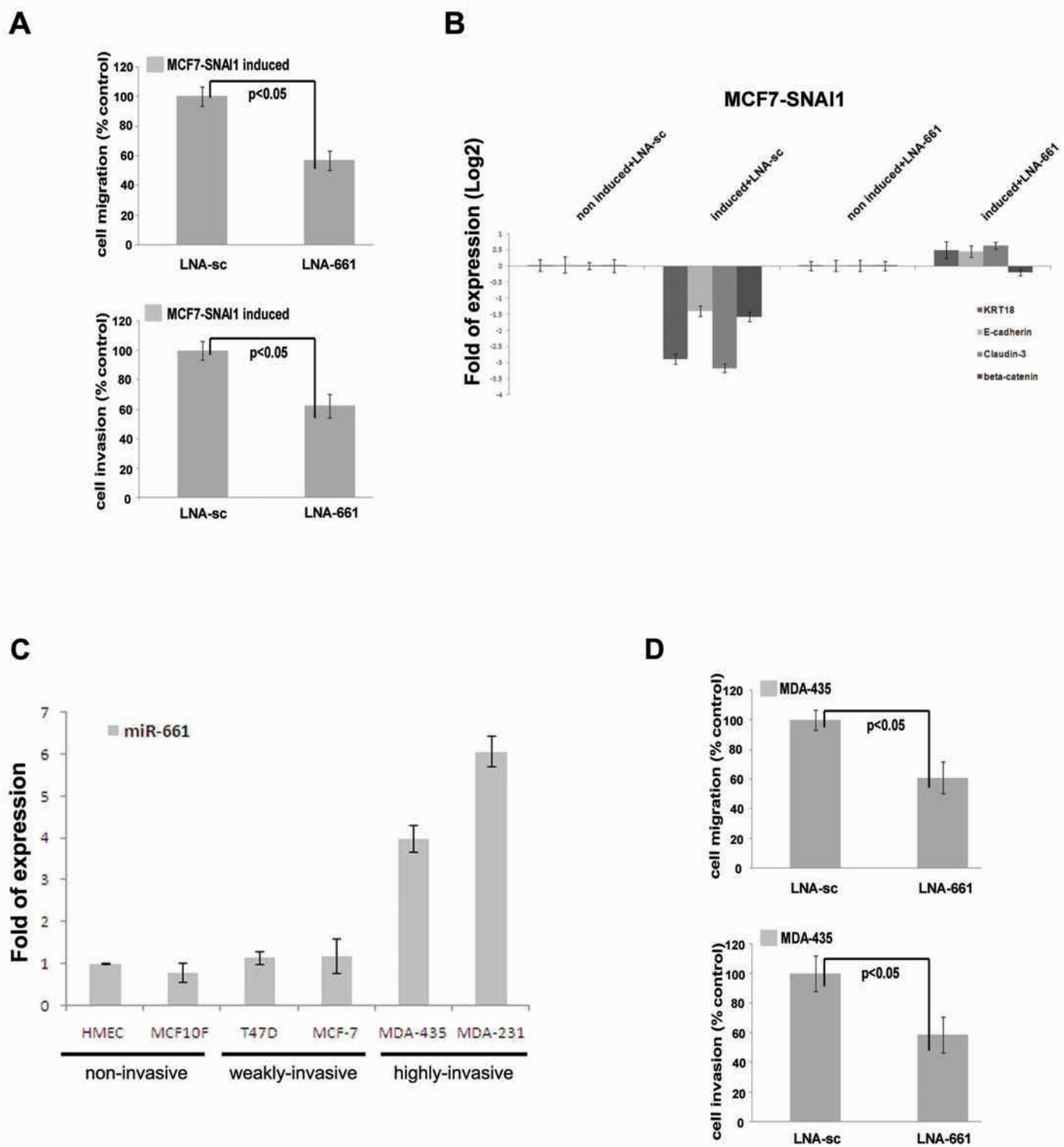
<https://inserm.hal.science/inserm-00492299>

Submitted on 15 Dec 2010

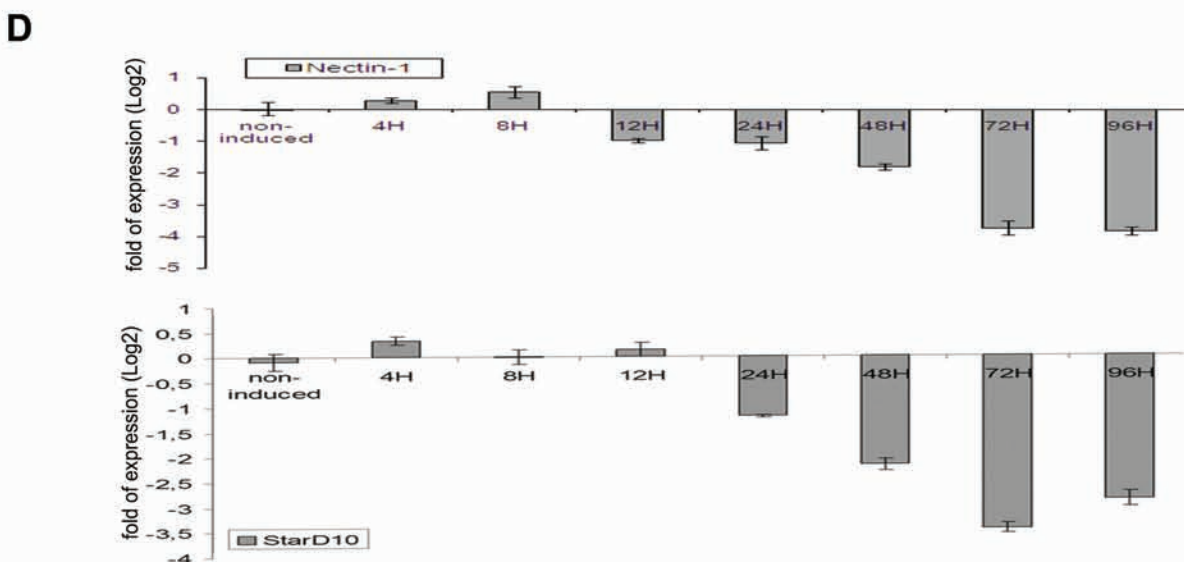
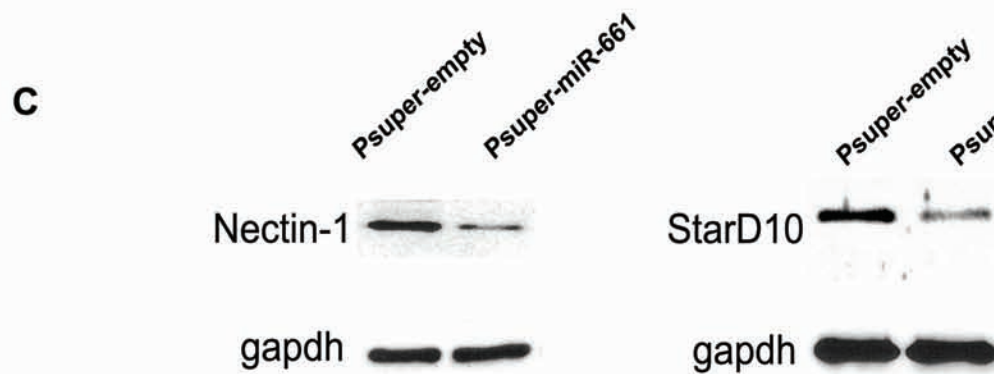
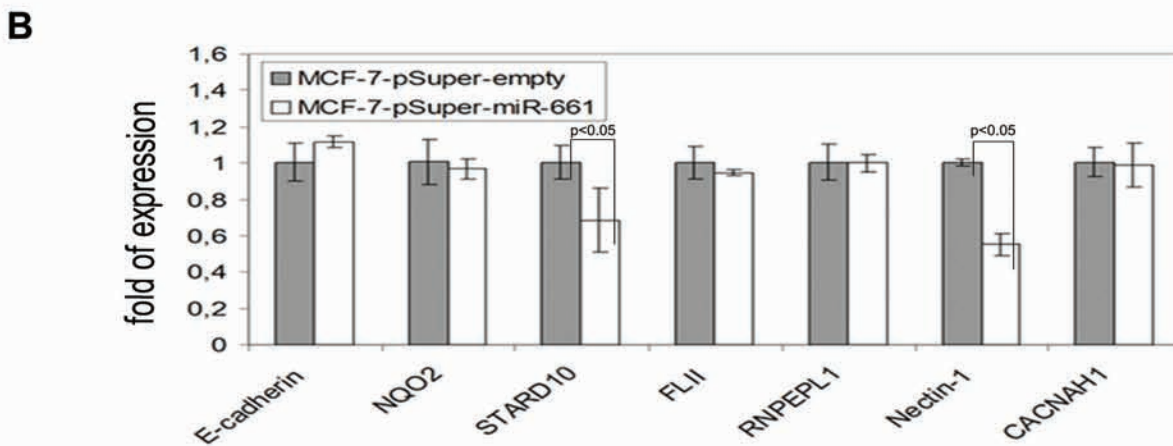
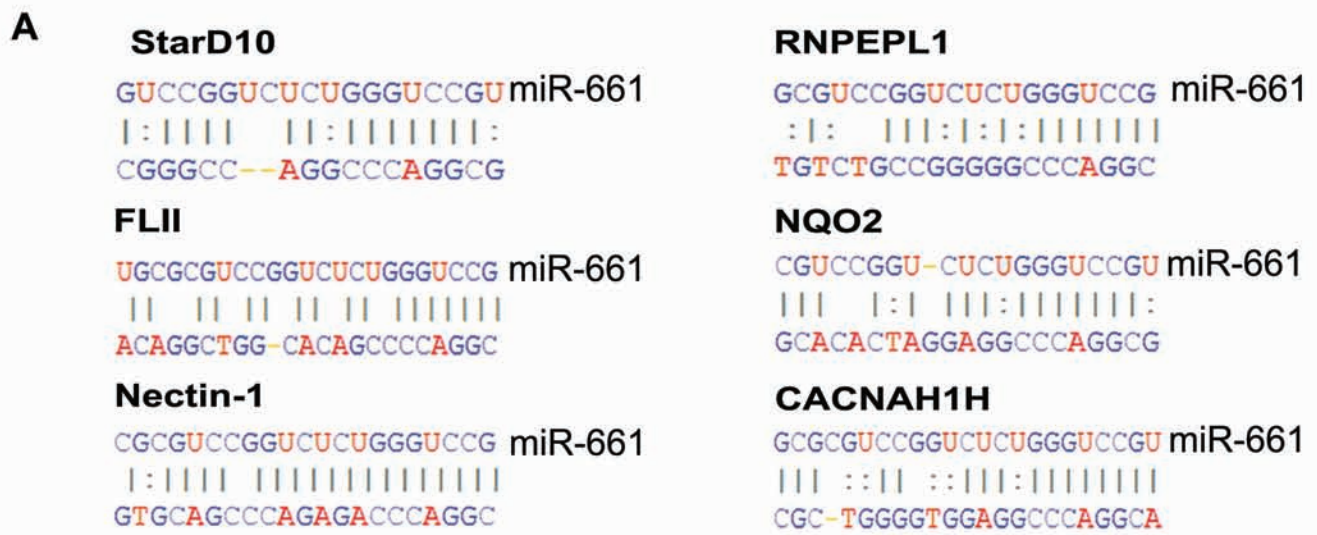
HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

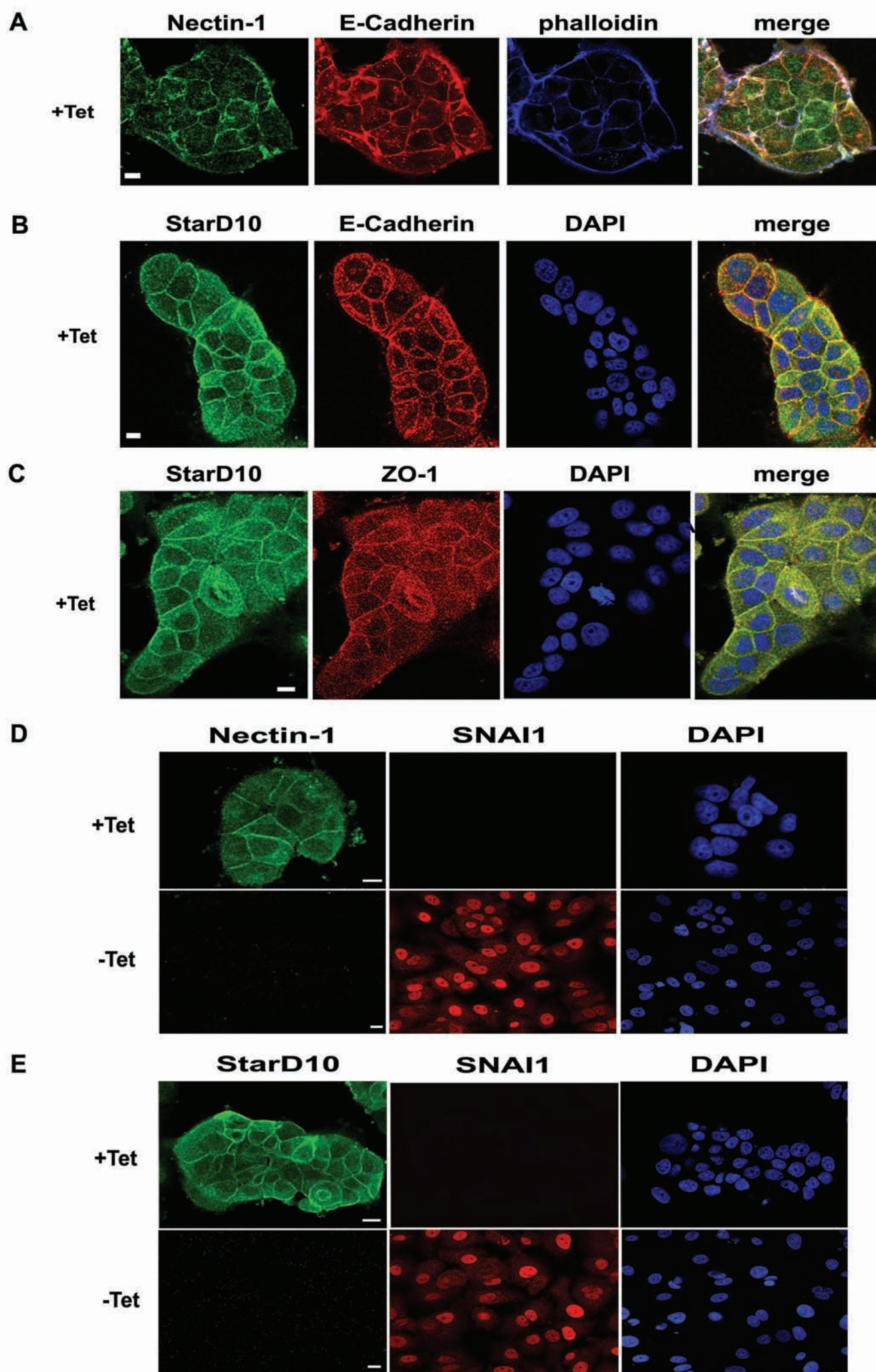
L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

A**B****C****D****E****F**

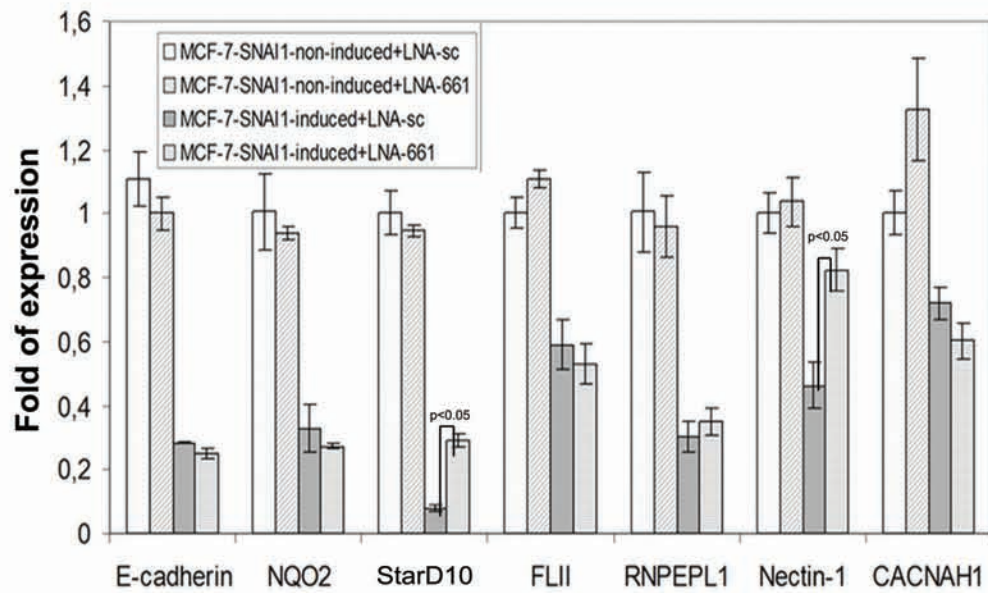
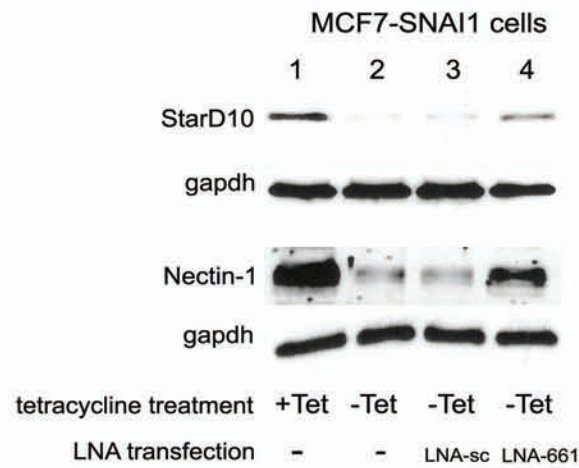
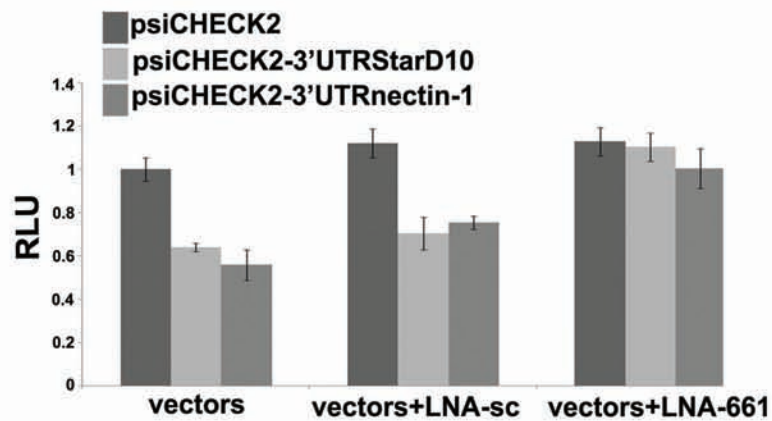


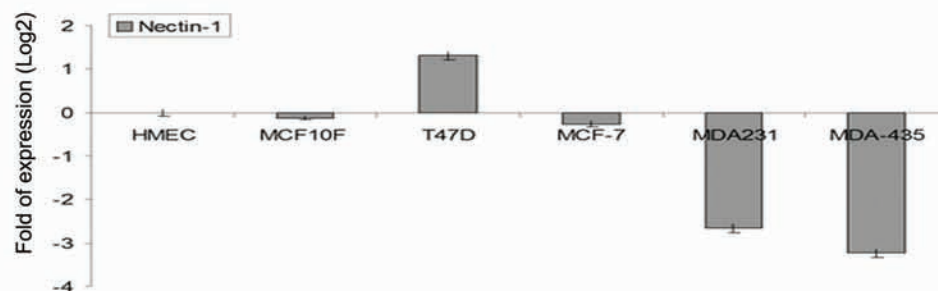
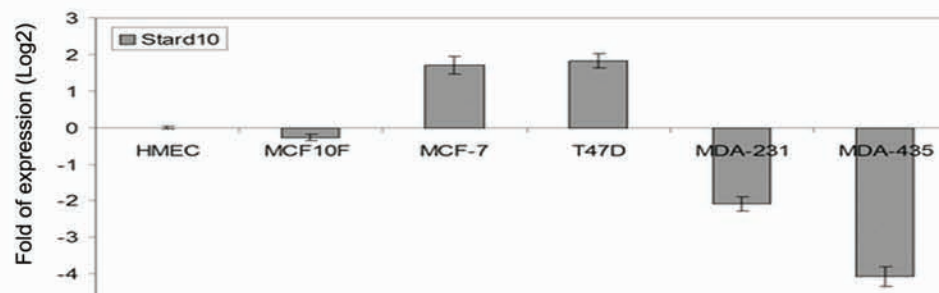
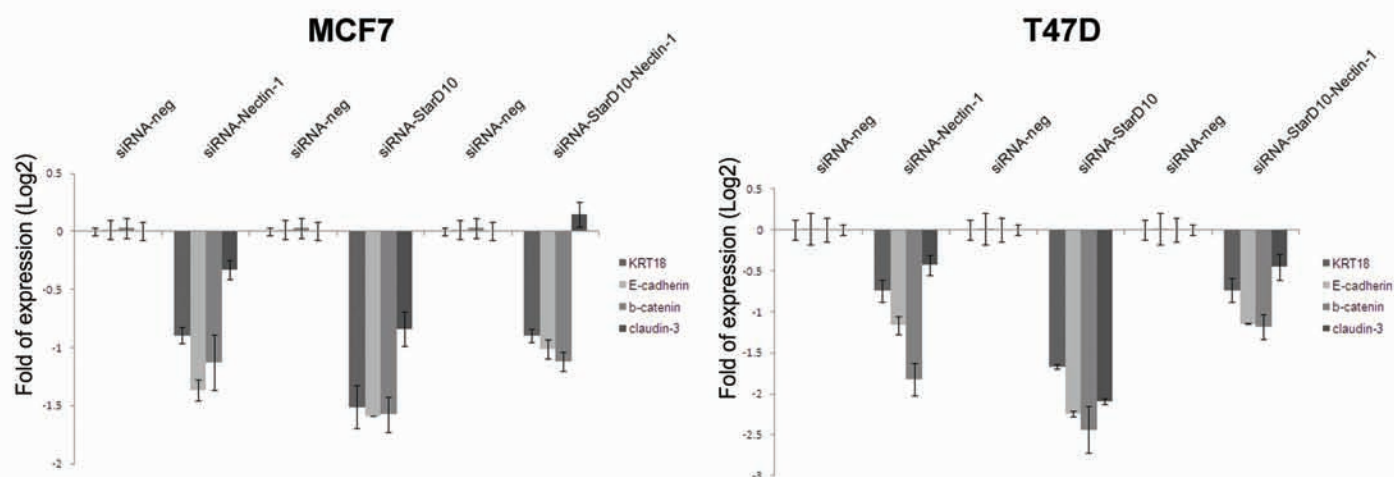
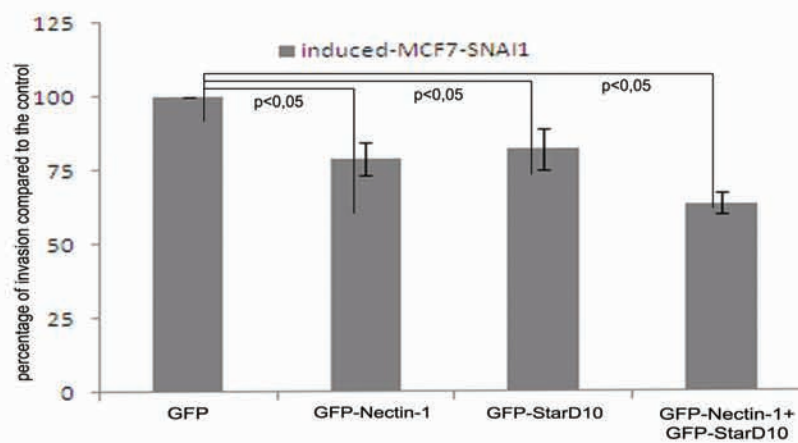
Vetter et al, figure 2

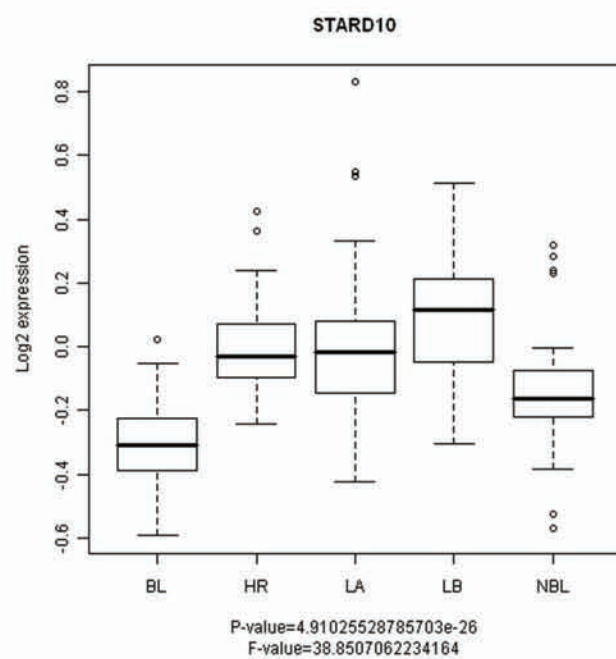




Vetter et al, figure 4

A**B****C**

A**B****C****D**

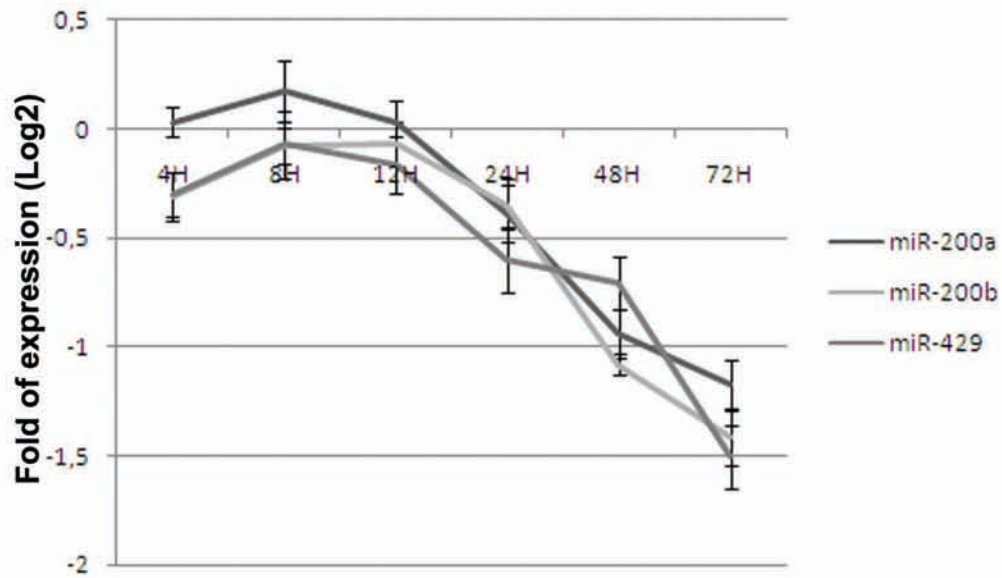
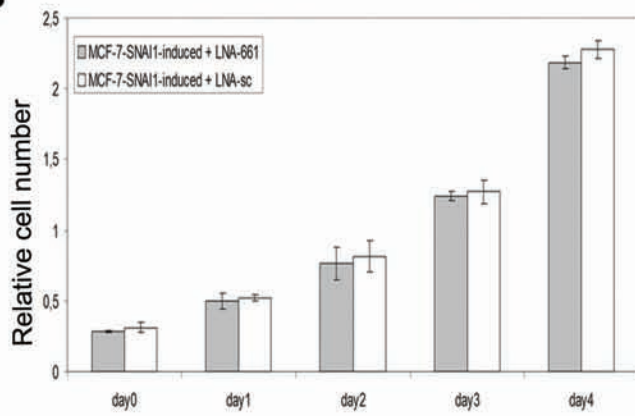
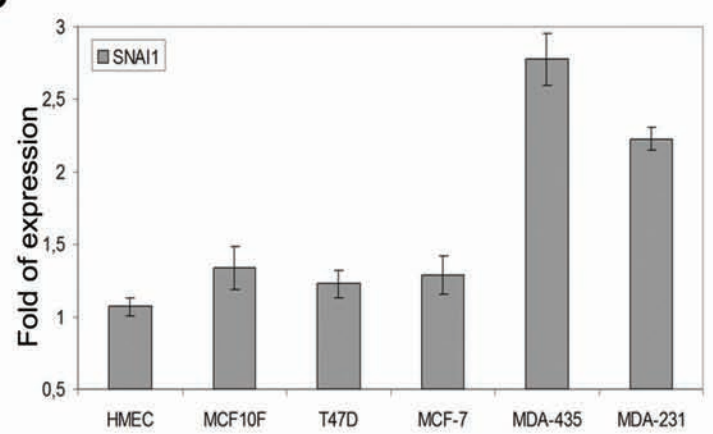
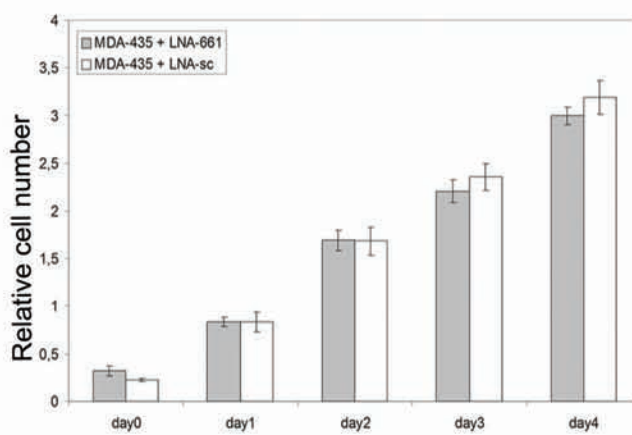
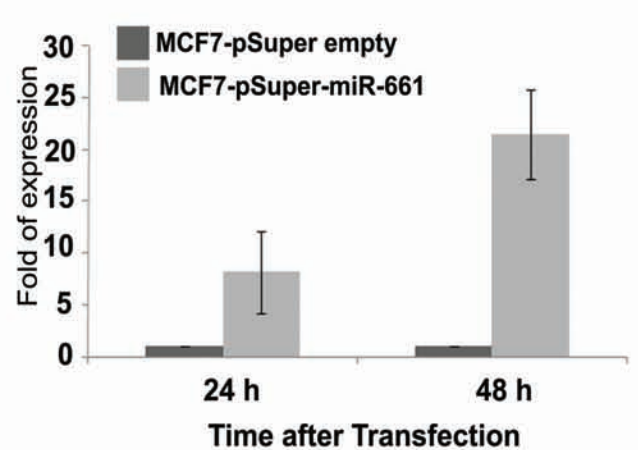


Vetter et al, figure 7

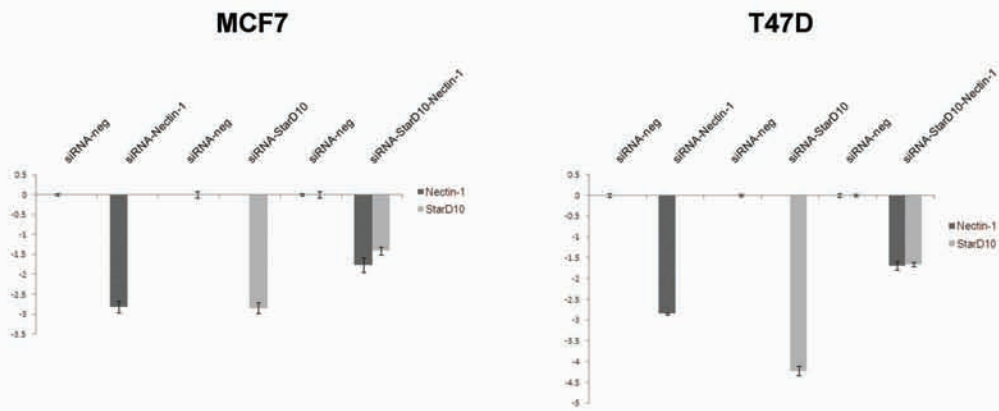
Table 1

**Pearson correlation association between StarD10 and tumor markers genes expression
in the 295 breast tumors charecterized by van den et al, 2002**

	StarD10
Basal-Like markers	
<i>KRT5</i>	-0,31702
<i>KRT14</i>	-0,14909
<i>FOXC1</i>	-0,51169
Luminal markers	
<i>FOXA1</i>	0,552127
<i>GATA3</i>	0,501762
<i>KRT18</i>	0,57425
<i>KRT8</i>	0,495991

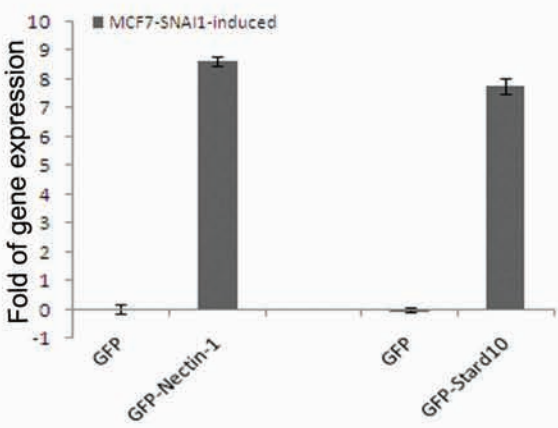
A**B****C****D****E**

A

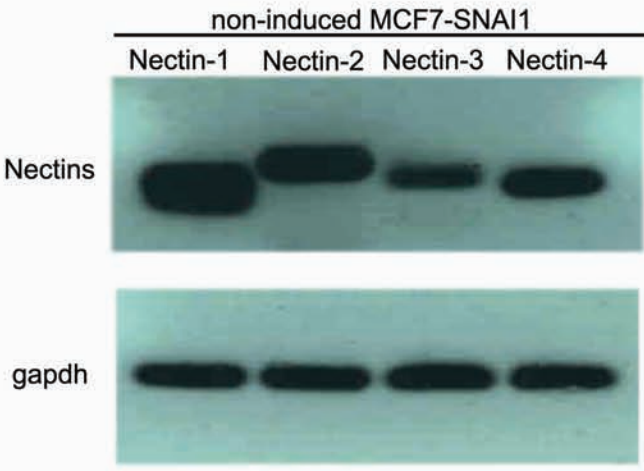


B

ectopic expression of GFP-nectin-1 and GFP-StarD10



C



Supplemental methods 1: Set of primers and LNAs used in this study**A** RT-qPCR oligonucleotides for the detection of encoding genes:

genes	Sense 5'-3'	Antisense 5'-3'
E-cadherin	cccgggacaacgtttattac	gctggctcaagtcaaagtcc
SNAI1	gctgcaggactctaattccaga	atctccggaggtgggatg
StarD10	ggacgctgcacaagatcaa	aggacgtcgtagagtgtctcg
NQO2	tactgatgagcagaaaaaggtt	accagtacacgcgggaactga
Nectin-1	accaaccccatcggtacac	gggggtgtaggggaattctgt
FLII	tggtcctgaaagtctctgc	ccagggtggttctgttcagg
CACNA1H	ctatgctgcgtgggagt	ctcgcaggggtgtcttc
RNPEPL1	ccgcaacgactactatcctga	ggtgtacatgcgtgacatctg
Claudin-3	aacctgcatggactgtgaaa	ggtcaagtattggcgggtcac
Beta-catenin	ttaaaaagccagtttgggtaaaa	cccaccctaccaaccaagt
KRT18	tgatgacaccaatatcacacga	gagcagctcctccttgagag
GAPDH	agccacatcgctcagacac	gcccataacgaccaaattcc

B RT-qPCR oligonucleotides for the detection of miRNAs:

miRNAs	Rt-specific oligonucleotides 5'-3'	pcr-sens
miR-661	gtcgtatccagtgcagggtccgaggtattcgactggatacgacacgcgc	gtgcctgggtctctggcct
miR-200a	gtcgtatccagtgcagggtccgaggtattcgactggatacgacacatcg	gcgcgtaacactgtctggtaa
miR-200b	gtcgtatccagtgcagggtccgaggtattcgactggatacgactcatca	gcgcgtaatactgcctggtaa
miR-429	gtcgtatccagtgcagggtccgaggtattcgactggatacgacacgggtt	gcgcgtaatactgtctggtaa
U6	gtcgtatccagtgcagggtccgaggtattcgactggatacgacaaaaatatgg	ggctgcgaaggatgacacgc

C Sequences of the Locked Nucleic Acids (LNAs):

LNA-661 5'-A+C+G+CGCAGGCCAGAGACCCA+G+G+C+A-3'
 LNA-sc 5'-AC+GCG+CAG+GCC+AGA+GAC+CCA+GGC+A-3'

D Sequences of the SiRNAs:

siRNAs	sequences 5'-3'
Nectin-1-a	CAA-ACC-CAC-CAA-UUG-GAU-A
Nectin-1-b	UAU-CCA-AUU-GGU-GGG-UUU-G
StarD10-a	GCA-ACG-UCA-UUG-AGA-CUU-U
StarD10-b	AAA-GUC-UCA-AUG-ACG-UUG-C