

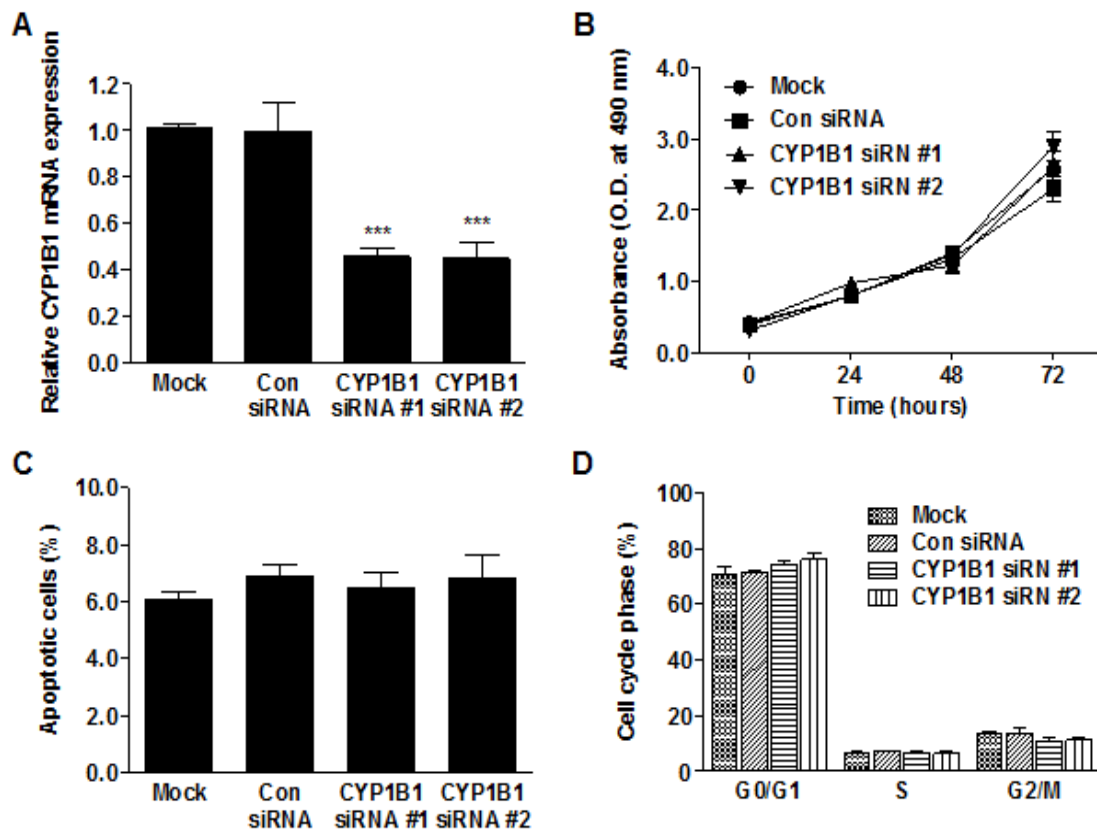
## **Loss of miR-200c up-regulates CYP1B1 and confers docetaxel resistance in renal cell carcinoma**

### **Supplementary Material**

#### **MATERIAL AND METHODS**

##### *Cell cycle analysis*

After A498 cells were stained with 4', 6-diamidino-2-phenylindole (DAPI), cell cycle was analyzed with a Cell Lab Quanta™ SC MPL (Beckman Coulter).

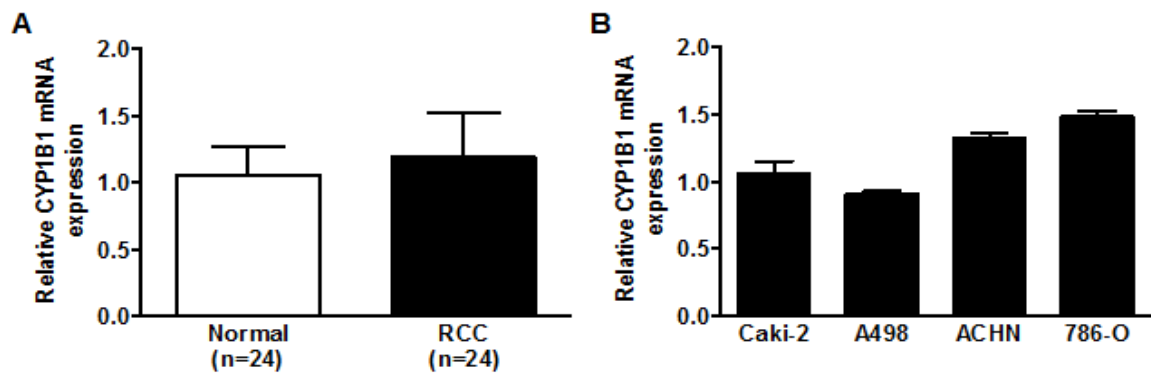


**Figure S1: No effect of CYP1B1 reduction on A498 cell survival, apoptosis and cell cycle.**

(A) CYP1B1 mRNA levels were determined by RT-PCR after CYP1B1 siRNA transfection.

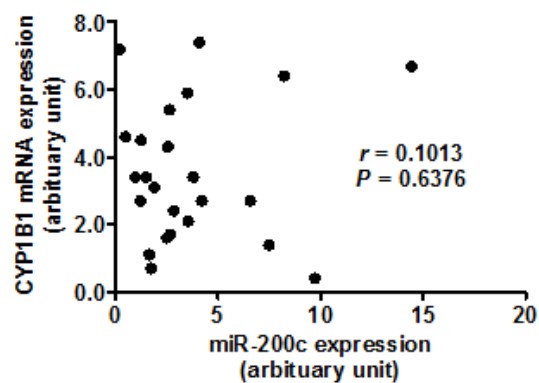
\*\*\* $P < 0.001$

(B-D) Cell survival was analyzed by MTS assay (B), apoptotic cell death was measured with annexin V-FITC/7-AAD staining (C) and cell cycle progression was determined by DAPI staining (D) in A498 cells after CYP1B1 siRNA transfection.



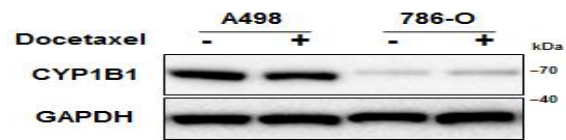
**Figure S2: CYP1B1 mRNA expression in RCC tissues (A) and cell lines (B).**

(A and B) CYP1B1 mRNA expression was determined by RT-PCR with RNA extracted from microdissected RCC tissues (A) and cells (B).



**Figure S3: No correlation between CYP1B1 mRNA levels and miR-200c expression in RCC tissues.**

Levels of CYP1B1 mRNA and miR-200c were determined by RT-PCR with RNA extracted from microdissected tissue samples. The relationship was analyzed with Pearson's correlation test.



**Figure S4: No induction of CYP1B1 by docetaxel in RCC cells.**

CYP1B1 protein levels were determined by Western blot with total proteins harvested from cells treated with either vehicle or docetaxel (5 μM).

**Table S1: Patient and tumor characteristics from clinical samples used for miR-200c expression analysis**

<b>Pathological variables</b>	<b>Total (n=24), n (%)</b>
<b>Age</b>	
Mean $\pm$ SD, years	65.8 $\pm$ 7.4
<b>Sex</b>	
Men	17/24 (70.8)
Women	7/24 (29.2)
<b>Histological type</b>	
Clear cell	20/24 (83.3)
Papillary	4/24 (16.7)
<b>Tumor stage</b>	
pT1	10/24 (41.7)
pT2	6/24 (25.0)
pT3	3/24 (12.5)
pT4	5/24 (20.8)
<b>Nuclear grade</b>	
1	13/24 (54.2)
2	7/24 (29.2)
3	4/24 (16.7)
4	0/24 (0)
<b>Vascular invasion</b>	
Negative	24/24 (100)
Positive	0/24 (0)
<b>Capsular invasion</b>	
Negative	24/24 (100)
Positive	0/24 (0)