

# Supplementary Materials: Circulatory miRNA as a Biomarker for Therapy Response and Disease-Free Survival in Hepatocellular Carcinoma

**Table S1.** Demographic characteristics of the study populations.

	Patients	Curative treatment		TACE		<i>p</i> value*
	<i>n</i> = 86	CR <i>n</i> = 27	PRPD <i>n</i> = 13	CR <i>n</i> = 14	PRPD <i>n</i> = 32	
<b>Age (mean, 95%CI)</b>	72.4 (70.8-74.0)	71.8 (69.1-74.5)	74.3 (69.4-79.1)	74.4 (68.8-80)	69.6 (66.7-72.5)	ns
<b>Sex (M/F)</b>	69/17	21/6	10/3	8/6	30/2	<i>P</i> <0.01
<b>Etiology</b>						
Alcohol metabolic	46	12	7	7	20	ns
Alcohol metabolic viral	14	5	3	3	3	
Viral	20	7	3	3	7	
Other**	5	2	0	1	2	
<b>Disease scores</b>						
CTP A/B	64/19	20/6	12/1	12/2	20/10	ns
BCLC 0A/BC	61/24	26/1	12/1	9/5	14/17	<i>P</i> <0.001
<b>Number of lesions</b>						
Single < 2cm	10	4	2	2	2	ns
Single or 3 ≤3cm	45	19	8	6	12	
Large-single or multi	30	4	3	6	17	
<b>Alpha fetoprotein</b>						
<20 ng/mL	49	16	7	10	16	ns
20 - 400 ng/mL	12	2	3	1	6	
>400 ng/mL	6	2	1		3	

\**p* value considers the difference between clinical parameters with therapy response (CR and PRPD) considering all type of treatments (curative and non-curative); \*\* autoimmune, hemochromatosis, cryptogenic, usually in combination with other.

**Table S2.** Average miRNA expression according to microarray profiling analysis between CR and PRPD in HCC samples. CR = Complete responder, PRPD = Partial responder and progressive diseases.

miRNA	Log 2 Avg Sig. (95%CI) in CR	Log 2 Avg Sig. (95%CI) in PRPD	FC (linear) CR vs. PRPD	<i>p</i> Value
miR-4454	3.98 (3.05–4.90)	1.80 (1.28–2.31)	4.89	0.003
miR-4443	2.17 (1.62–2.72)	4.23 (2.92–5.74)	0.26	0.009
miR-1275	1.39 (0.94–1.84)	2.18 (1.27–3.09)	0.41	0.013
miR-4492	3.12 (2.02–4.21)	1.56 (2.22–5.62)	4.00	0.017
miR-885-3p	1.3 (0.98–1.74)	1.86 (1.11–2.60)	0.49	0.030
miR-4722-3p	1.99 (1.64–2.34)	1.48 (1.30–1.67)	1.81	0.031
miR-2116-3p	1.16 (1.03–1.29)	1.42 (1.16–1.69)	0.67	0.037
miR-4439	1.15 (1.03–1.29)	1.29 (1.16–1.41)	0.79	0.037
miR-4530	3.89 (2.62–5.06)	2.28 (1.43–3.12)	2.92	0.045

**Table S3.** Differently expressed miRNA candidates at T0, according to response to treatment. Data are shown as mean expression (95% CI). CR = Complete responder, PRPD = Partial responder and progressive diseases.

miRNA	T0		p value
	CR (95% CI)	PRPD (95% CI)	
miR-4443	2.7(1.86-3.54)	5.14 (3.21-7.07)	0.089
miR-4454	0.32 (0.22-0.43)	0.17 (0.11-0.23)	0.010**
miR-4492	21.86 (15.55-28.16)	11.84 (9.10-14.57)	0.006***
miR-4530	791.90 (52.60-1057.00)	555.42 (289.4-821.15)	0.015*



© 2020 by the author. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<http://creativecommons.org/licenses/by/4.0/>).