

Supplementary Material

Fucoidan inhibits the progression of hepatocellular carcinoma via causing lncRNA LINC00261 overexpression

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TABLE S1 | Up-regulated lncRNAs in MHCC-97H cells treated with 0.5 mg/mL Fucoidan.

Gene_ID	GeneSymbol	Log ₂ FoldChange	P value	Regulation
TCONS_00080504	POC1B-AS1	6.08268875	2.09634E-18	Ups
TCONS_00315956	LINC01184	5.785320922	2.79969E-16	Ups
TCONS_00359131	MET	5.029453204	3.76461E-11	Ups
TCONS_00366255	AC111149.2	4.585785196	2.8216E-14	Ups
TCONS_00359138	MET	4.137414696	2.29888E-07	Ups
TCONS_00070294	COLCA1	3.953667047	9.86224E-07	Ups
TCONS_00040980	OLMALINC	3.551683716	1.81611E-05	Ups
TCONS_00000107	LINC01128	3.534884312	1.85795E-05	Ups
TCONS_00238571	LINC00261	3.45168775	1.33313E-87	Ups
TCONS_00244495	MCM3AP-AS1	3.408603536	4.27241E-05	Ups
TCONS_00027726	-	3.24380467	5.61679E-05	Ups
TCONS_00383101	-	3.151628338	1.96234E-14	Ups
TCONS_00007611	ABCA4	3.14611394	5.46248E-13	Ups
TCONS_00383102	-	3.082637738	0.000254697	Ups
TCONS_00204213	-	3.080425475	0.000264414	Ups
TCONS_00242124	CU633906.2	2.993010476	0.000402803	Ups
TCONS_00383432	-	2.987364378	7.58851E-20	Ups
TCONS_00227536	HAGLR	2.87896642	0.00069929	Ups
TCONS_00378263	CASC19	2.87896642	0.00069929	Ups
TCONS_00338228	AL356124.1	2.876839001	4.04017E-06	Ups
TCONS_00169247	-	2.856620593	1.16108E-05	Ups
TCONS_00335815	LINC02535	2.807503036	0.000978925	Ups
TCONS_00007668	AC105942.1	2.731107025	0.001347182	Ups
TCONS_00070297	COLCA1	2.725314127	6.26569E-47	Ups
TCONS_00287765	LINC01091	2.718246128	0.000933172	Ups
TCONS_00254542	-	2.696249763	0.001576625	Ups
TCONS_00207516	-	2.688971968	0.001613305	Ups
TCONS_00201455	AC013442.1	2.684993813	0.001263793	Ups

TCONS_00225337	AC016682.1	2.626544656	3.20449E-06	Ups
TCONS_00178171	LINC02864	2.605411584	0.002288351	Ups
TCONS_00201454	AC013442.1	2.409533797	0.001304137	Ups
TCONS_00189194	AC009005.1	2.383485203	0.001953996	Ups
TCONS_00222451	LINC00342	2.284167942	2.65883E-34	Ups
TCONS_00222719	AC092683.1	2.260130725	1.45402E-05	Ups
TCONS_00204231	AC007099.1	2.250770031	0.001563094	Ups
TCONS_00238570	LINC00261	2.166965425	5.27727E-05	Ups
TCONS_00055310	MALAT1	2.131932607	0.001532855	Ups
TCONS_00358301	AC007384.1	2.057871667	0.000546229	Ups
TCONS_00298679	AC105285.1	2.028985058	1.77327E-05	Ups
TCONS_00348068	LINC01393	1.977855001	8.96967E-06	Ups
TCONS_00305835	-	1.918736976	9.86217E-12	Ups
TCONS_00377761	SNTB1	1.806375137	2.27205E-11	Ups
TCONS_00268691	AC018816.1	1.728682473	3.47535E-10	Ups
TCONS_00382684	-	1.647912739	7.611E-07	Ups
TCONS_00221308	-	1.578818659	3.46764E-17	Ups
TCONS_00080506	POC1B-AS1	1.576718537	0.000406392	Ups
TCONS_00086332	-	1.486944486	0.001238324	Ups
TCONS_00205511	AC159540.2	1.451232096	8.08603E-05	Ups
TCONS_00178195	LINC02864	1.41157078	6.63349E-05	Ups
TCONS_00222467	LINC00342	1.404536139	9.41894E-27	Ups
TCONS_00283777	AC079921.1	1.339166048	1.42391E-06	Ups
TCONS_00069196	AP000648.9	1.303304357	0.000163067	Ups
TCONS_00344368	-	1.288934269	0.000271327	Ups
TCONS_00390752	-	1.277597077	1.30024E-21	Ups
TCONS_00222456	LINC00342	1.261007248	4.37279E-06	Ups
TCONS_00222212	-	1.259910894	0.0009043	Ups
TCONS_00359135	MET	1.258628759	2.97414E-10	Ups
TCONS_00080596	-	1.255730094	1.36302E-10	Ups
TCONS_00222472	LINC00342	1.190353148	6.93228E-10	Ups
TCONS_00056343	MYEOV	1.159354236	0.000333152	Ups
TCONS_00405834	-	1.147894348	7.48769E-05	Ups
TCONS_00222160	-	1.135742965	0.00130752	Ups
TCONS_00411392	FIRRE	1.118223255	1.65036E-07	Ups
TCONS_00341856	AC073332.1	1.106100335	1.57629E-05	Ups
TCONS_00222113	-	1.087781559	0.000480164	Ups
TCONS_00222352	-	1.077208471	0.0020076	Ups

TABLE S2 | Down-regulated lncRNAs in MHCC-97H cells treated with 0.5 mg/mL Fucoidan.

Gene_ID	GeneSymbol	Log2FoldChange	P value	Regulation
TCONS_00397442	-	-8.449722129	1.19959E-43	Down
TCONS_00404686	LINC00894	-4.670547638	1.68733E-09	Down
TCONS_00193598	LINC00662	-4.623051671	3.63482E-09	Down
TCONS_00397179	-	-4.033057545	6.2796E-202	Down
TCONS_00340912	AC091729.3	-3.659562166	9.3146E-06	Down
TCONS_00360067	AC009275.1	-3.46250075	3.67441E-05	Down
TCONS_00314283	ANT2	-3.392730419	4.93951E-05	Down
TCONS_00141416	-	-3.301894869	8.24361E-05	Down
TCONS_00380062	-	-3.22603176	0.000127742	Down
TCONS_00093856	LINC01234	-3.146757107	0.000192515	Down
TCONS_00033577	LYPLAL1-DT	-3.128686556	0.000213898	Down
TCONS_00142911	ERVK13-1	-3.108463048	0.000235512	Down
TCONS_00397440	-	-2.829267283	2.26163E-44	Down
TCONS_00033566	LYPLAL1-DT	-2.780225173	2.25988E-05	Down
TCONS_00159677	-	-2.684752764	0.000136634	Down
TCONS_00331515	-	-2.684491061	0.001670724	Down
TCONS_00221840	AC133644.1	-2.649658397	0.001943162	Down
TCONS_00132407	AC036108.2	-2.637753919	8.23318E-10	Down
TCONS_00397175	-	-2.626897121	1.96314E-83	Down
TCONS_00354676	LINC01446	-2.624313631	0.001841216	Down
TCONS_00080583	AC025254.1	-2.613572302	0.002257404	Down
TCONS_00309825	-	-2.471565073	0.000598051	Down
TCONS_00084319	AC007406.3	-2.386472677	3.39144E-05	Down
TCONS_00397439	-	-2.267000067	8.49491E-65	Down
TCONS_00133468	AC005606.1	-2.253350504	8.15915E-12	Down
TCONS_00132406	AC036108.2	-2.199653542	1.46541E-10	Down
TCONS_00221327	-	-2.180666758	0.000901745	Down
TCONS_00132444	AC015660.1	-2.16152284	0.00010174	Down
TCONS_00397441	-	-2.132815487	3.09303E-43	Down
TCONS_00282054	NOP14-AS1	-2.052233401	1.71252E-09	Down
TCONS_00369159	PVT1	-1.891800517	0.002037211	Down
TCONS_00285069	GC	-1.853995142	0.002197654	Down
TCONS_00368689	AC090192.2	-1.853396321	1.90769E-13	Down
TCONS_00215972	ID2-AS1	-1.8250015	0.001074723	Down
TCONS_00083217	AC027290.1	-1.755978188	5.39782E-06	Down
TCONS_00233935	-	-1.693488426	8.46792E-09	Down
TCONS_00397445	-	-1.673982973	1.00301E-20	Down
TCONS_00028995	BX470102.1	-1.667550219	2.53275E-06	Down
TCONS_00397186	-	-1.634063126	1.86166E-28	Down
TCONS_00330102	-	-1.566342117	2.94469E-12	Down
TCONS_00093140	CRY1	-1.504991392	4.59733E-05	Down

TCONS_00397446	-	-1.454823282	3.32491E-22	Down
TCONS_00061371	H19	-1.427247666	7.64177E-27	Down
TCONS_00410722	DANT2	-1.229923382	5.78237E-09	Down
TCONS_00233938	-	-1.173605783	4.87711E-07	Down
TCONS_00265299	RNU2-31P	-1.164605407	0.000194798	Down
TCONS_00031281	GAS5	-1.162151149	0.000196551	Down
TCONS_00299608	SLC9A3-AS1	-1.147920532	0.000865497	Down
TCONS_00232669	-	-1.081455746	0.000113068	Down
TCONS_00159478	AC132872.3	-1.034507237	9.84862E-12	Down
TCONS_00359111	AC006159.1	-1.022247312	3.07912E-05	Down

TABLE S3 | The sequences of primers used in this paper.

Primer name	Sequence(5'-3')
GAPDH-F	AGCCACATCGCTCAGACAC
GAPDH-R	GCCCAATACGACCAAATCC
LINC00261-F	ACATTGGTAGCCCGTGGAG
LINC00261-R	TCTTCCCCGGAGAACTAGCA
miR-1269a-F	GACTGAGCCGTGCTACTGG
miR-1269a-R	TGTCGTGGAGTCGGCAATTG
miR-105-F	GCCCTCGAGATACCATATCTATCCCCTTTTCA
miR-105-R	GCCGAATTCCAACCATGAAGATACGAATTGATG
miR-522-3p-F	GGGCTCTAGAGGGAAGCGC
miR-522-3p-R	CAGTGCGTGTCTGTGGAGT
miR-552-5p-F	CCGCACAGGTGACTGGTTAGA
miR-552-5p-R	GTGCAGGGTCCGAGGT
SFRP2-F	ACGGCATCGAATACCAGAACA
SFRP2-R	CTCGTCTAGGTCATCGAGGCA