

Hepatic cytochrome P450 enzyme alterations in humans with progressive stages of non-alcoholic fatty liver disease

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Supplemental data table 1. Liver tissue donor information

Sample#	Patient ID	Gender	Age	Diagnosis
1	D386	Male	45	Normal
2	D418	Male	18	Normal
3	D486	Female	58	Normal
4	UC9113	Female	59	Normal
5	UC9130	Female	20	Normal
6	UC9203	Female	24	Normal
7	UC9406	Male	20	Normal
8	UC9409	Male	21	Normal
9	UC9410	Male	20	Normal
10	UC9503	Female	45	Normal
29	HH1356	Female	25	Normal
30	HH1274	Female	56	Normal
31	HH1281	Male	16	Normal
32	HH1249	Male	59	Normal
33	HH1202	Female	67	Normal
34	HH1308	Male	64	Normal
35	HH1246	Male	70	Normal
36	HH1220	Female	47	Normal
53	D585	Male	60	Normal
54	D587	Male	49	Normal
11	D218	Female	51	Steatosis
12	D162	Female	66	Steatosis
14	UMN753	Male	16	Steatosis
15	UMN1058	Unknown	Unknown	Steatosis
37	HH1121	Female	65	Steatosis
38	HH1240	Female	47	Steatosis
39	HH1299	Male	57	Steatosis
40	HH1124	Male	40	Steatosis
41	HH1248	Female	42	Steatosis

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42	HH1209	Female	30	Steatosis
43	HH1226	Male	53	Steatosis
16	D346	Female	55	NASH (with fatty liver)
17	D515	Female	56	NASH (with fatty liver)
18	D522	Male	60	NASH (with fatty liver)
19	UC9415	Unknown	Unknown	NASH (with fatty liver)
20	UMN935	Female	60	NASH (with fatty liver)
21	UMN1098	Female	59	NASH (with fatty liver)
22	UMN1152	Female	41	NASH (with fatty liver)
47	UMN1219	Female	68	NASH (with fatty liver)
48	UNM1214	Female	58	NASH (with fatty liver)
50	UMN1249	Female	55	NASH (with fatty liver)
23	D477	Female	46	NASH (no longer fatty)
24	UMN801	Female	44	NASH (no longer fatty)
25	UMN1138	Male	52	NASH (no longer fatty)
26	UMN1144	Male	33	NASH (no longer fatty)
27	UMN1151	Male	59	NASH (no longer fatty)
28	UMN1188	Male	66	NASH (no longer fatty)
44	D548	Female	45	NASH (no longer fatty)
49	UMN1253	Female	65	NASH (no longer fatty)
51	UMN1247	Female	52	NASH (no longer fatty)
52	UMN1228	Male	62	NASH (no longer fatty)
55	UMN1259	Male	56	NASH (no longer fatty)

Supplemental data-table 2. Substrate probes and incubation conditions to assess human microsomal P450 activity.

<u>Enzyme</u>	<u>Substrate</u>	<u>Concentration</u>	<u>Incubation Time</u>	<u>Marker Metabolite</u>
CYP1A2	Phenacetin	100 μ M	60 min	Acetaminophen
CYP2A6	Coumarin	1 μ M	5 min	7-Hydroxycoumarin
CYP2B6	Bupropion	250 μ M	40 min	Hydroxybupropion
CYP2C8	Paclitaxel	20 μ M	20 min	6 α -Hydroxypaclitaxel
CYP2C9	Diclofenac	25 μ M	8 min	4'-Hydroxydiclofenac
CYP2C9	Tolbutamide	280 μ M	40 min	Hydroxytolbutamide
CYP2C19	S-Mephenytoin	250 μ M	60 min	4'-Hydroxymephenytoin
CYP2D6	Dextromethorphan	15 μ M	25 min	Dextrorphan
CYP2E1	Chlorzoxazone	250 μ M	20 min	6-Hydroxychlorzoxazone
CYP3A4	Testosterone	200 μ M	14 min	6 β - Hydroxytestosterone