

Figure S1. Distribution of the size of the largest nodule according to the severity of fibrosis (n=52).

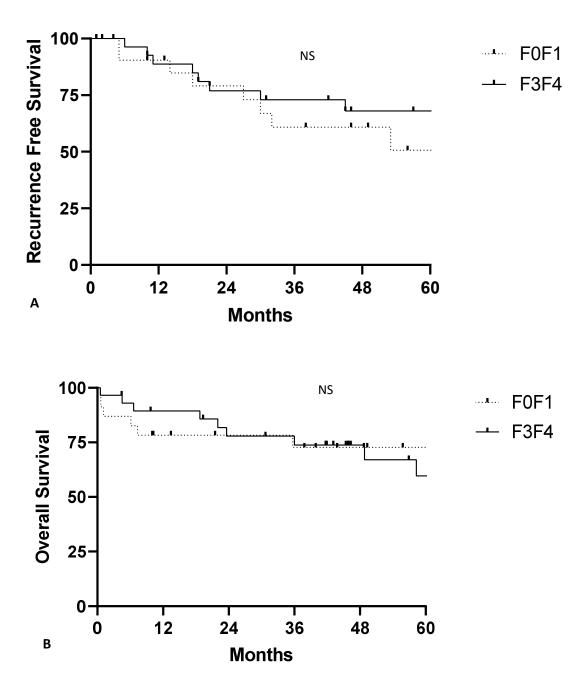
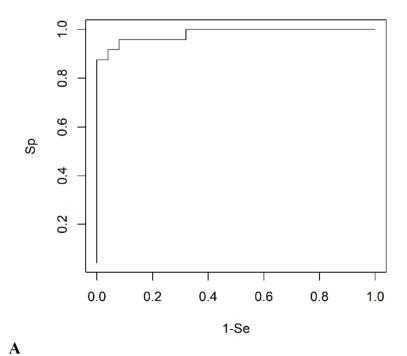


Figure S2. Recurrence free survival (A) and overall survival (B) according to the severity of fibrosis (n=52).

Table 1. Discriminant metabolites between HCC-F0F1 *versus* NTT-F0F1 according to the number of selections in the aqueous and lipid phases. Upregulated (red) and down-regulated (blue) metabolites in tumors.

Chemical shift (ppm)	Metabolites	Selections
	Aqueous Phase (threshold: >47 selections)	
1.31	Lactate	441
2.14	Glutamine —	79
2.43		53
2.56	Glutathione	72
3.22	Phosphocholine	48
3.62	<u></u>	82
3.65	<u></u>	76
3.66	Choline Derivatives	488
3.67	<u></u>	60
3.68		70
4.50	Ascorbic Acid	57
7.11	Histidine	54
7.85	Histidine	49
3.42	Glucose	50
5.43	Glycogen	104
	Lipid Phase (threshold: >39 selections)	
1.52-1.54	<u></u>	81
2.25	Total Cholesterol	111
3.49		67
2.05	MUFA -CH ₂ CH=	1339

NTT-F0F1 vs HCC-F0F1



NTT-F0F1 vs HCC-F0F1

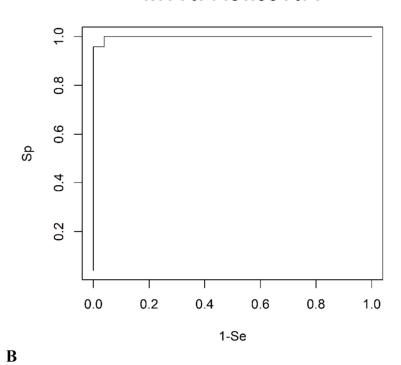
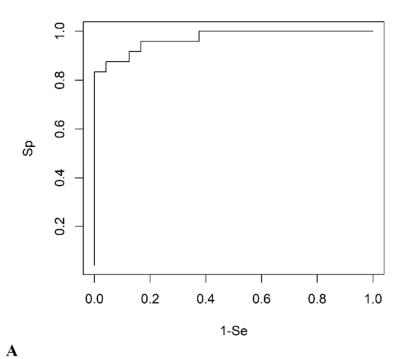


Figure S3. ROC curves of each subset of significant metabolites identified in aqueous (**A**) and lipid phases (**B**) for the discrimination of HCC from NTT in F0F1 fibrosis.

<u>Table S2.</u> Discriminant metabolites between HCC-F3F4 *versus* NTT-F3F4 according to the number of selections in the aqueous and lipid phases. Upregulated (red) and down-regulated (blue) metabolites in tumors.

Chemical shift (ppm)	Metabolites	Selections		
Aqueous Phase (threshold: >45 selections)				
0.97	BCAA —	49		
1.02		46		
1.31-1.32	Lactate	94		
4.10-4.11		71		
2.06-2.07	Glutamate	50		
2.38		48		
2.12-2.14	Glutamine	89		
2.42-2.43		48		
2.73	Sarcosine	91		
3.63		106		
8.20	Hypoxanthine	87		
9.33	NAD	67		
3.67	Choline derivatives	51		
3.82	Change	56		
4.60	Glucose	49		
6.98	Histidine	64		
7.10	Histidille	124		
Lipid Phase (threshold: >21 selections)				
1.41-1.43	SFA 606	606		
1.41-1.43	(CH ₂)n	000		
1.83	Total Cholesterol	98		
2.22	Free Cholesterol	84		
2.06	MUFA -CH ₂ CH=	151		

NTT-F3F4 vs HCC-F3F4



NTT-F3F4 vs HCC-F3F4

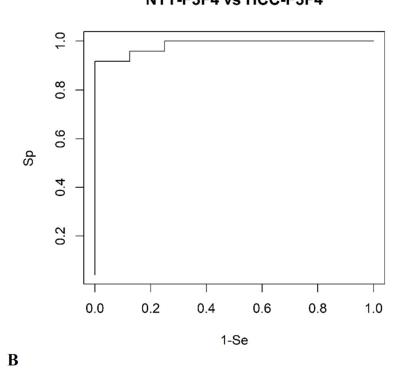
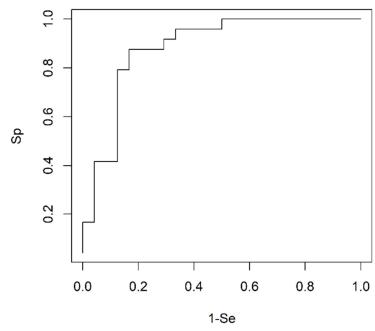


Figure S4: ROC curves of each subset of significant metabolites identified in aqueous (A) and lipid phases (B) for the discrimination of HCC from NTT in F3F4 fibrosis.

Table S3. Discriminant metabolites between HCC-F0F1 *versus* HCC-F3F4 according to the number of selections in the aqueous and lipid phases. Upregulated (red) and down-regulated (blue) metabolites in HCC-F0F1.

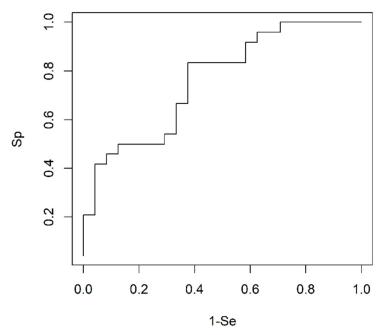
Chemical Shift (ppm)	Metabolites	Selections		
Aqueous Phase (threshold: >45 selections)				
3.50	Glucose	2756		
3.74		55		
5.23		61		
3.62	Choline derivatives	2086		
Lipid Phase (threshold: >50 selections)				
2.11	MUFA —	61		
5.46		64		
3.05-3.07	Phosphoethanolamine	374		
4.12-4.22	TAG	531		

HCC-F0F1 vs HCC-F3F4



Α

HCC-F0F1 vs HCC-F3F4



В

Figure S5: ROC curves of each subset of significant metabolites identified in aqueous (A) and lipid phases (B) for the discrimination of HCC-F3F4 from HCC-F0F1.