**Supplementary Table 1. Clinical characteristics of studied subjects**

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| **Characteristic** | **Healthy controls****n:28** | **CHB patients n:11** | **Cirrhosis patients n:23** | **HCC patients n:31** |
| Age in yr | 50.64 ± 9.262 | 38.27 ± 8.956 | 47.09 ± 11.19 | 54.48 ± 8.7 |
| Sex as male/female | 27/1 | 9/2 | 21/2 | 25/6 |
| AST in U/L | 20.46 ± 3.854 | 294.0 ± 649.6 | 105.6 ± 66.85 | 113.3 ± 122.3 |
| ALT in U/L | 19.36 ± 6.326 | 317.9 ± 636.2 | 73.78 ± 53.83 | 66.83 ± 68.96 |
| AFP in ng/mL | 1.473 ± 0.8976 | 107.7 ± 152.3 | 66.00 ± 200.7 | 405.6 ± 540.1 |

Healthy controls: normal, *n* = 28; CHB patients: patients with chronic hepatitis B *n* = 11; Cirrhosis patients:patients with liver fibrosis *n* = 23; HCC, patients with hepatocellular carcinoma, *n* = 31.AST, aspartate transaminase; ALT, alanine aminotransferase; AFP, Alpha-fetoprotein.