CLAIMS

What is claimed is:

1. A pharmaceutical composition for preventing or delaying the onset of hepatocellular cancer in a subject, the pharmaceutical composition comprising at least two short chain fatty acids and/or salts thereof selected from the group consisting of: acetic acid, propionic acid, butyric acid, and a pharmaceutically-acceptable salt thereof.

2. The pharmaceutical composition of claim 1, wherein the short chain fatty acids and/or salts thereof comprise acetic acid or a pharmaceutically acceptable salt thereof, propionic acid or a pharmaceutically acceptable salt thereof, and butyric acid or a pharmaceutically acceptable salt thereof.

3. The pharmaceutical composition of claim 1 or 2, which further comprises a pharmaceutically acceptable excipient.

4. The pharmaceutical composition of claim 1-3, which is administered in combination with another therapeutic agent.

5. The pharmaceutical composition of claim 1-4, which is administered orally.

6. The pharmaceutical composition of claim 5, which is administered with food or drink.

7. A pharmaceutical composition for the treatment of liver disease in a subject, the pharmaceutical composition comprising at least two short chain fatty acids and/or salts thereof selected from the group consisting of: acetic acid, propionic acid, butyric acid, and a pharmaceutically acceptable salt thereof.

8. The pharmaceutical composition of claim 7, wherein the short chain fatty acids and/or salts thereof comprise acetic acid or a pharmaceutically acceptable salt thereof, propionic acid or a pharmaceutically acceptable salt thereof, and butyric acid or a pharmaceutically acceptable salt thereof.

9. The pharmaceutical composition of claim 7 or 8, which further comprises a pharmaceutically acceptable excipient.

10. The pharmaceutical composition of claim 7-9, which is administered in combination with another therapeutic agent.

11. The method of claim 7-10, which is administered orally.

12. The method of claim 11, which is administered with food or drink.

13. A kit for preventing or delaying the onset of hepatocellular cancer in a subject, said kit containing a composition comprising at least twoshort chain fatty acids and/or salts thereof selected from the group consisting of: acetic acid, propionic acid, butyric acid, and a pharmaceutically acceptable salt thereof.

14. A kit of claim 13, wherein the short chain fatty acids and/or salts thereof comprise acetic acid or a pharmaceutically acceptable salt thereof, propionic acid or a pharmaceutically acceptable salt thereof, and butyric acid or a pharmaceutically acceptable salt thereof.

15. A kit for preventing or delaying the onset of liver disease in a subject, said kit containing a composition comprising at least two short chain fatty acids and/or salts thereof selected from the group consisting of: acetic acid, propionic acid, butyric acid, and a pharmaceutically acceptable salt thereof.

16. The kit of claim 15, wherein the short chain fatty acids and/or salts thereof comprise acetic acid or a pharmaceutically acceptable salt thereof, propionic acid or a pharmaceutically acceptable salt thereof, and butyric acid or a pharmaceutically acceptable salt thereof.

17. The pharmaceutical composition of any one of claim 7-12, wherein the liver disease is liver cancer.

18. The kit of any one of claim 15 or 16, wherein the liver disease is liver cancer.