Claims:

~~1. A method for the administration of cells to a liver comprising;~~

~~administering a suspension of liver cells to the biliary tree of the liver in the direction of decreasing biliary duct diameter, such that the liver cells engraft into the liver.~~

~~2. A method according to claim 1 wherein the method is an *in vitro* or *ex vivo* or *in vivo* method.~~

~~3. A method of treatment of an individual with a diseased or damaged liver comprising;~~

~~administering a suspension of liver cells to the biliary tree in the direction of decreasing biliary duct diameter, such that the liver cells engraft into the liver.~~

~~4. A suspension of liver cells for use in a method of treatment of an individual with a diseased or damaged liver comprising;~~

~~administering a suspension of liver cells to the biliary tree of the liver in the direction of decreasing biliary duct diameter, such that the liver cells engraft into the liver.~~

~~5~~1. Use of a suspension of liver cells in the manufacture of a medicament for use in a method of treatment of an individual with a diseased or damaged liver comprising;

administering a suspension of liver cells to the biliary tree of the liver in the direction of decreasing biliary duct diameter, such that the liver cells engraft into the liver.

~~6~~2. The ~~A method according to any one of claims 1 to 3, a suspension for use according to claim 4 or~~ use of claim ~~1~~5 wherein the liver cells in the suspension are in the form of aggregates.

~~7~~3. The ~~A method according to any one of claims 1 to 3 or 6, a suspension for use according to claim 4 or 6 or~~ use of claim ~~1~~5 or ~~6~~2 wherein the liver cells are suspended in a culture medium comprising a buffer and a Rho kinase inhibitor.

~~8~~4. ~~A method according to claim 7, a suspension for use according to claim 7 or~~The use according to claim 7 wherein the culture medium further comprises an anti-choleretic agent and/or a non-adhesive reagent.

~~9~~5. ~~A method according to any one of claims 1 to 3, or 6 to 8, a suspension for use according to claim 4, or 6 to 8or~~ The use of any one of claims ~~1~~5 to ~~8~~4 wherein the liver cells are cholangiocytes.

~~10~~6. ~~A method according to any one of claims 1 to 3, or 6 to 9, a suspension for use according to any one of claims 4 or 6 to 9 or~~ The use of any one of claims ~~1~~5 to ~~5~~9 wherein the method comprises measuring the volume of the biliary tree of the individual up to a desired site of engraftment and suspending the liver cells in a volume corresponding to the volume measured for the individual.

~~7~~11. ~~A method according to claim 10, a suspension for use according to claim 10 or~~The use according to claim ~~6~~10, wherein the volume of the biliary tree of the individual is measured by;

administering a fluid comprising a contrast agent into the biliary tree of the individual until the desired site of engraftment is visible in on imaging~~.~~, and

determining the injected volume of the contrast agent fluid.

8~~12~~. ~~A method according to claim 10, a suspension for use according to claim 10 or~~The use according to claim 7~~10~~, wherein the volume of the biliary tree of the individual is measured by MR imaging.

9~~13~~. ~~A method according to any one of claims 1 to 3, or 6 to 12, a suspension for use according to any one of claims 4 or 6 to 12 or~~The use of any one of claims 15 ~~to 18~~2 wherein the method comprises flushing the biliary tree of the liver with a wash solution comprising a buffer before administration of the suspension of liver cells.

1~~4~~0. ~~A method according to claim 13, a suspension for use according to claim 13 or~~The use according to claim ~~13~~ 9 wherein the pH of the biliary tree following said flushing is non-toxic to the administered liver cells.

11~~15~~. The ~~A method according to claim 13 or 14, a suspension for use according to claim 13 or 14 or~~ use according to claim 9~~13~~ or 10~~4~~ wherein said flushing removes diseased or damaged cells at the site of engraftment.

12~~6~~. ~~A method according to any one of claims 1 to 3, or 6 to 15, a suspension for use according to any one of claims 4 or 6 to 15 or~~The use of any one of claims 15 ~~to~~ 1~~15~~ further comprising administering to the individual an anti-choleretic agent to reduce bile secretion.

1~~7~~3. The ~~A method according to any one of claims 1 to 3, or 6 to 16, a suspension for use according to any one of claims 4 or 6 to 16 or~~ use of any one of claims 15 ~~to~~ 16~~2~~ wherein the cell suspension is injected into the biliary tree through a catheter or cannula.

18~~4~~. The ~~A method according to claim 14, a suspension for use according to claim 14~~ or use according to claim 14~~3~~ wherein the interior surface of the catheter or cannula is coated with protein to prevent cell adhesion.

15~~9~~. ~~A method according to any one of claims 1 to 3, or 6 to 18, a suspension for use according to any one of claims 4 or 6 to 18 or~~The use according to any one of claims 15 ~~to~~ 18~~4~~ wherein the method comprises retaining the suspension of liver cells within the biliary tree following said administration.

16~~20~~. ~~A method according to claim 19, a suspension for use according to claim 19 or~~The use according to claim 15~~9~~ wherein the suspension of liver cells is retained in the biliary tree by occluding the lumen of a bile duct of said tree to reduce or prevent egress of the suspension.

17~~21~~. The ~~A method according to claim 20, a suspension for use according to claim 20 or~~ use according to claim 16~~20~~ wherein the biliary tree is occluded by inflating a balloon in said duct.

~~22~~18. ~~The A method according to claim 20, a suspension for use according to claim 20 or~~ use according to claim 17~~20~~ wherein the biliary tree is occluded by biodegradable beads.

19~~23~~. ~~The A method according to any one of claims to 22 , a suspension for use according to any one of claims to 22 or~~ use according to any one of claims to 1 to 18~~22~~ wherein the biliary tree is occluded for 30 minutes or longer.

20~~4~~. ~~A method according to any one of claims 1 to 3, or 6 to 23, a suspension for use according to any one of claims 4 or 6 to 23 or~~The use according to any one of claims 1~~5~~ to ~~23~~19 wherein the method comprises monitoring the pH, electrolyte content and/or volume of the bile produced in said liver following said administration, wherein an increase in pH, electrolyte content and/or volume of the bile is indicative that the liver cells are engrafted.