WHAT WE CLAIM IS:

1) A **method** of localizing a hydrophilic biofunctional moiety (F) to a surface comprising the step of contacting the surface with an aqueous solution of a water dispersible construct of the structure F-S-S' where F is the biofunctional moiety, S is a spacer covalently linking F to S', and S' is sterol.

2) The method of claim 1 where the biofunctional moiety (F) is selected from the group consisting of: biotin and O-linked oligosaccharides.

3) The method of claim 2 where the biofunctional moiety (F) is an oligosaccharide selected from the group consisting of: GalNAcα3(Fucα2)Galβ-; Galα3(Fucα2)Galβ-; GalNα3(Fucα2)Galβ-; Fucα2Galβ-; Galβ4GlcNAcβ3(Galβ4GlcNAcβ6)Galβ-; Galβ4GlcNAcβ3-; Galβ4Glcβ-; Galβ3GlcNAcβ-; Galβ3(Fucα4)GlcNAcβ-; Fucα2Galβ3(Fucα4)GlcNAcβ-;GalNAcα3(Fucα2)Galβ3(Fucα4)GlcNAcβ-; Galα3(Fucα2)Galβ3(Fucα4)GlcNAcβ-; Galβ4(Fucα3)GlcNAcβ-; Fucα2Galβ4(Fucα3)GlcNAcβ-; NeuAcα2-3Galβ3(Fucα4)GlcNAcβ-; NeuAcα2-3Galβ4(Fucα3)GlcNAcβ-; GalNAcβ4(NeuAcα2-3)Galβ4-; Galβ3GalNAcα-; NeuAcα2-3Galβ4-; NeuAcα2-6Galβ4-; Galα4Galβ4-; GalNAcβ3Galα4Galβ4-; Galα4Galβ4GlcNAcβ3-; Galβ3GalNAcβ3Galα4-; NeuAcα2-3Galβ3GalNAcβ3Galα4-; Galα3Galβ-; GalNAcα3GalNAcβ3Galα4-; GalNAcβ3GalNAcβ3Galα4-; Galβ1-4GlcNAc; Galβ1-3GlcNAc; SAα2-6Galβ1-4Glc; SAα2-3Galβ1-4Glc; SAα2-6Galβ1-4GlcNAc; SAα2-3Galβ1-4GlcNAc; SAα2-3Galβ1-3GlcNAc; Galβ1-4(Fucα1-3)GlcNAc; Galβ1-3(Fucα1-3)GlcNAc; SAα2-3Galβ1-3(Fucα1-4)GlcNAc; SAα2-3Galβ1-4(Fucα1-3)GlcNAc; Galβ1-4GlcNAcβ1-4GlcNAc; Galβ1-3GlcNAcβ1-4GlcNAc; SAα2-6Galβ1-4GlcNAcβ1-4GlcNAc; SAα2-3Galβ1-4GlcNAcβ1-4GlcNAc; SAα2-3Galβ1-3GlcNAcβ1-4GlcNAc; Galβ1-4(Fucα1-3)GlcNAcβ1-4GlcNAc; Galβ1-3(Fucα1-4)GlcNAcβ1-4GlcNAc; SAα2-3Galβ1-3(Fucα1-4)GlcNAcβ1-4GlcNAc; SAα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-4GlcNAc; SAα2-3Galβ1-3(Fucα1-4)GlcNAcβ1-4Gal; SAα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-4Gal; SAα2-3Galβ1-4GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAc; SAα2-6Galβ1-4GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAc; SAα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4Glc; SAα2-6Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4Glc; SAα2-3Galβ1-4GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4Glc; SAα2-6Galβ1-4GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4Glc; SAα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4Glc; SAα2-6Galβ1-4(Fucα1-3)GlcNAcβ1-

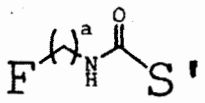
3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4Glc; SAα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-6Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-3Galβ1-4GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-6Galβ1-4GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-6Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-3Galβ1-3(Fucα1-4)GlcNAc; SAα2-6Galβ1-3(Fucα1-4(GlcNAc; SAα2-3Galβ1-3GlcNAcβ1-4Galβ1-4(Fucα1-3)GlcNAc; SAα2-6Galβ1-3GlcNAcβ1-4Galβ1-4(Fucα1-3)GlcNAc; SAα2-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAc; SAα2-6Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAc; SAα2-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4Glc; SAα2-6Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4Glc; SAα2-3Galβ1-3GlcNAcβ1-4Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4Glc; SAα2-6Galβ1-3GlcNAcβ1-4Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4Glc; SAβ2-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4Glc; SAα2-6Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4Glc; SAα2-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-6Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-3Galβ1-3GlcNAcβ1-4Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-6Galβ1-3GlcNAcβ1-4Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-6Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-3Galβ1-4GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAc; SAα2-6Galβ1-4GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAc; SAα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAc; SAα2-6Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAc; SAα2-3Galβ1-4GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4Glc; SAα2-6Galβ1-4GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4Glc; SAα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4Glc; SAα2-6Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4Glc; SAα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-3(Fucα1-4)Glc; SAα2-6Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-3(Fucα1-4)Glc; SAα2-3Galβ1-4GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-6Galβ1-4GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; and SAα2-6Galβ1-4(Fucα1-3)GlcNAcβ1-

3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc, where SA is sialic acid.

4) The method of claim 1 where S' is selected from the group consisting of: campesterol, cholesterol, ergosterol, sitosterol and stigmasterol.

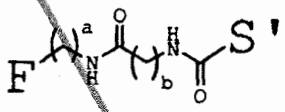
5) The method of claim 4 where S' is cholesterol.

6) The method of claim 2 where the water dispersible construct is of the structure:



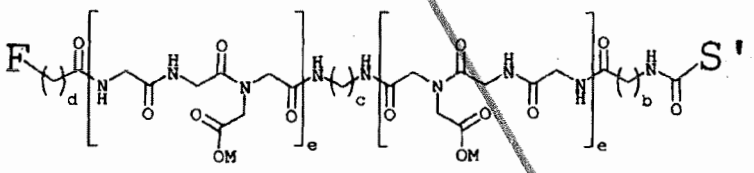
and a is the integer 2, 3 or 4.

7) The method of claim 2 where the water dispersible construct is of the structure:



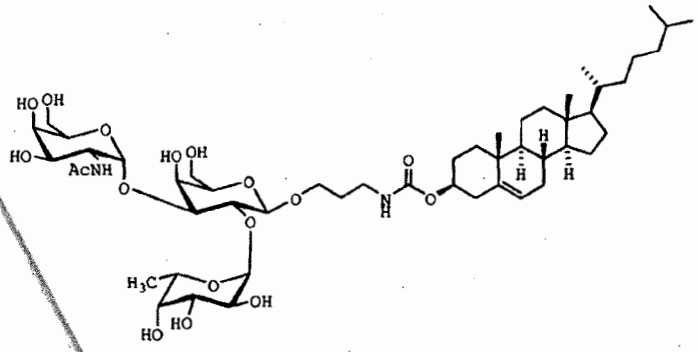
a is the integer 2, 3 or 4 and b is the integer 3, 4 or 5.

8) The method of claim 1 where the water dispersible construct is of the structure:



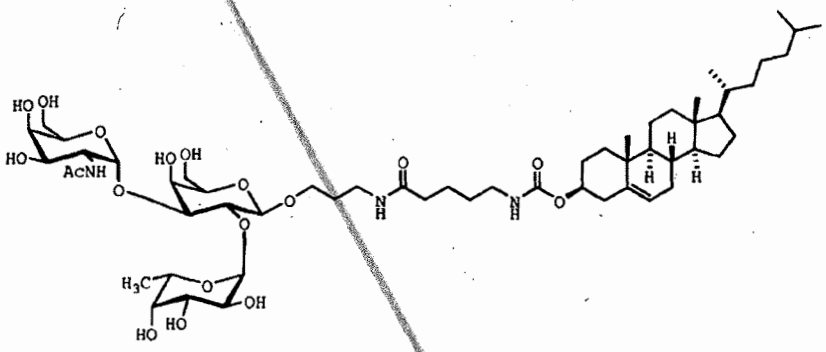
where b is the integer 3, 4 or 5, c is the integer 1, 2 or 3, d is the integer 3, 4 or 5, e is the integer 1, 2 or 3 and M is a monovalent cation.

9) The method of claim 1 where the water dispersible construct is of the structure:



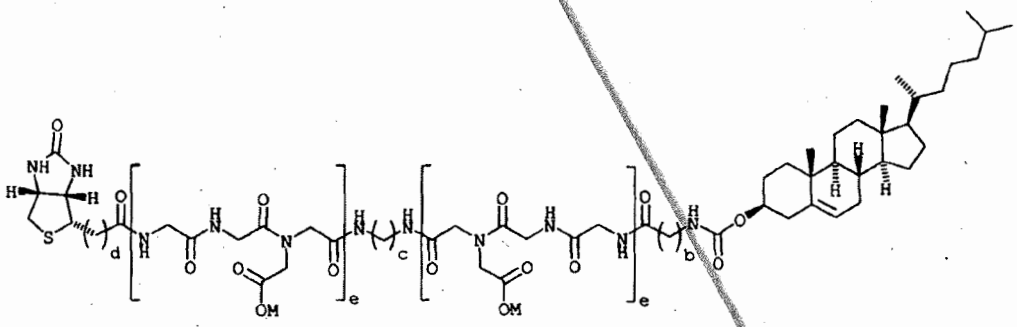
designated A_{tri}-S_1-chol (**I**).

10) The method of claim 1 where the water dispersible construct is of the structure:



designated A_{tri}-S_1-S_2-chol (**II**).

11) The method of claim 1 where the water dispersible construct is of the structure:



where b is 4, c is 2, d is 4, e is 2, M is sodium ion (Na^+) and designated Biotin-S_3-S_4-S_2-chol (**III**).

12) The method of claim 1 where the surface is the membrane of a cell.

13) The method of claim 1 where the surface is the membrane of an enveloped virus.

14) The method of claim 1 where the surface is the lipid bilayer of a liposome or a virosome.

15) The method of claim 1 where the step of contacting the surface with an aqueous solution of a water dispersible construct is by propelling droplets of the aqueous solution from a plurality of orifices located in a monolithic print head of an inkjet printer onto at least one discrete area on the surface.

16) The method of claim 14 where the volume of each of the droplets is 1 to 100 picolitres (pL).

17) The method of claim 15 where the volume of each of the droplets is 1 to 50 pL.

18) The method of claim 16 where the volume of each of the droplets is 1 to 5 pL.

19) The method of claim 14 where the concentration of the water dispersible construct in the aqueous solution is 1 µmolar (µM) to 10 mmolar (mM).

20) The method of claim 18 where the concentration of the construct in the aqueous solution is 10 µM to 10 mM.

21) The method of claim 19 where the concentration of the construct in the aqueous solution is 0.1 to 10 mM.

22) The method of claim 14 where the at least one discrete area is in the shape of a symbol readable by optical character recognition (OCR) apparatus.

23) The method of claim 14 where the at least one discrete area is in the shape of a symbol comprising one or more alphanumeric characters.

24) The method of claim 14 where the at least one discrete area is a pattern comprising a combination of indicia to which the aqueous solution is applied at different densities (amount per unit area).

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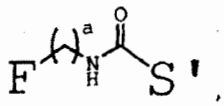
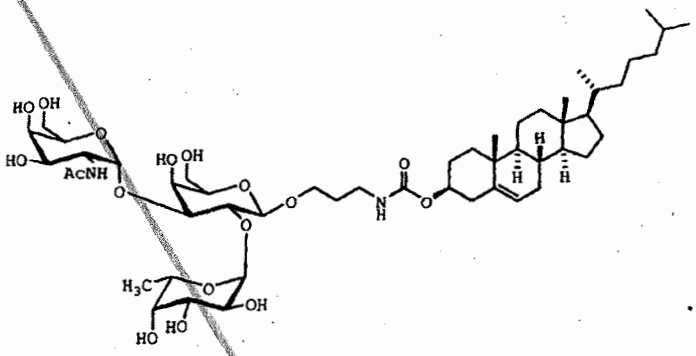
25) An **aqueous solution** of a water dispersible construct of the structure:



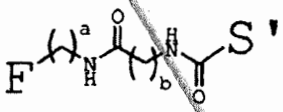
where F is a biofunctional moiety, S' is sterol, and a is the integer 2, 3 or 4.

26) A **construct** of the structure:



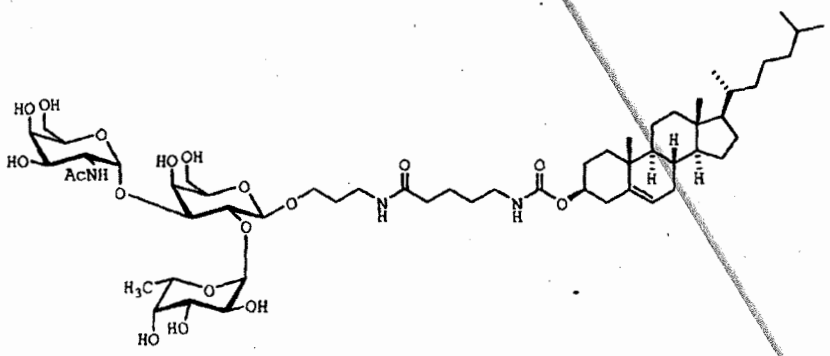
designated A_{tri}-S_1-chol (**I**).

27) An **aqueous solution** of a water dispersible construct of the structure:



where F is a biofunctional moiety, S' is sterol, a is the integer 2, 3 or 4, and b is the integer 3, 4 or 5.

28) A **construct** of the structure:



designated A_{tri}-S_1-S_2-chol (**II**).

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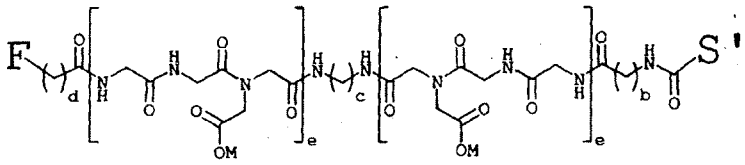
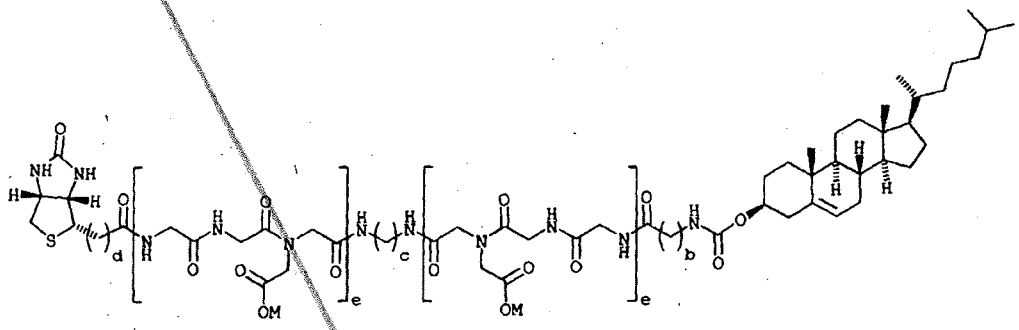
29) An **aqueous solution** of a water dispersible construct of the structure:



where F is a biofunctional moiety, S' is sterol, b is the integer 3, 4 or 5, c is the integer 1, 2 or 3, d is the integer 3, 4 or 5, e is the integer 1, 2 or 3 and M is a monovalent cation.

30) A **construct** of the structure:



where b is 4, c is 2, d is 4, e is 2, M is sodium ion (Na^+) and designated Biotin-S_3-S_4-S_2-chol (**III**).

31) A **cell** having a biofunctionalized surface prepared according to the method of any one of claims 1 to 11.

32) A **cell** incorporating a construct of any one of claims 26, 28 or 30.

33) An **enveloped virus** having a biofunctionalized surface prepared according to the method of any one of claims 1 to 11.

34) An **enveloped virus** incorporating a construct of any one of claims 26, 28 or 30.

35) A **liposome** or **virosome** having a biofunctionalized surface prepared according to the method of any one of claims 1 to 11.

36) A **liposome** or **virosome** incorporating a construct of any one of claims 26, 28 or 30.

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37) A **biofunctionalized surface** prepared according to the method of any one of claims 1 to 23.

38) A **biofunctionalized surface** incorporating a construct of any one of claims 25, 27 or 29.

WHAT WE CLAIM IS:

1) A **method** of localizing a hydrophilic biofunctional moiety (F) to a surface comprising the step of contacting the surface with an aqueous solution of a water dispersible construct of the structure F-S-S' where F is the biofunctional moiety, S is a spacer covalently linking F to S', and S' is sterol.

2) The method of claim 1 where the biofunctional moiety (F) is selected from the group consisting of: biotin and O-linked oligosaccharides.

3) The method of claim 2 where the biofunctional moiety (F) is an oligosaccharide selected from the group consisting of: GalNAcα3(Fucα2)Galβ-; Galα3(Fucα2)Galβ-; GalNα3(Fucα2)Galβ-; Fucα2Galβ-; Galβ4GlcNAcβ3(Galβ4GlcNAcβ6)Galβ-; Galβ4GlcNAcβ3-; Galβ4Glcβ-; Galβ3GlcNAcβ-; Galβ3(Fucα4)GlcNAcβ-; Fucα2Galβ3(Fucα4)GlcNAcβ-;GalNAcα3(Fucα2)Galβ3(Fucα4)GlcNAcβ-; Galα3(Fucα2)Galβ3(Fucα4)GlcNAcβ-; Galβ4(Fucα3)GlcNAcβ-; Fucα2Galβ4(Fucα3)GlcNAcβ-; NeuAcα2-3Galβ3(Fucα4)GlcNAcβ-; NeuAcα2-3Galβ4(Fucα3)GlcNAcβ-; GalNAcβ4(NeuAcα2-3)Galβ4-; Galβ3GalNAcα-; NeuAcα2-3Galβ4-; NeuAcα2-6Galβ4-; Galα4Galβ4-; GalNAcβ3Galα4Galβ4-; Galα4Galβ4GlcNAcβ3-; Galβ3GalNAcβ3Galα4-; NeuAcα2-3Galβ3GalNAcβ3Galα4-; Galα3Galβ-; GalNAcα3GalNAcβ3Galα4-; GalNAcβ3GalNAcβ3Galα4-; Galβ1-4GlcNAc; Galβ1-3GlcNAc; SAα2-6Galβ1-4Glc; SAα2-3Galβ1-4Glc; SAα2-6Galβ1-4GlcNAc; SAα2-3Galβ1-4GlcNAc; SAα2-3Galβ1-3GlcNAc; Galβ1-4(Fucα1-3)GlcNAc; Galβ1-3(Fucα1-3)GlcNAc; SAα2-3Galβ1-3(Fucα1-4)GlcNAc; SAα2-3Galβ1-4(Fucα1-3)GlcNAc; Galβ1-4GlcNAcβ1-4GlcNAc; Galβ1-3GlcNAcβ1-4GlcNAc; SAα2-6Galβ1-4GlcNAcβ1-4GlcNAc; SAα2-3Galβ1-4GlcNAcβ1-4GlcNAc; SAα2-3Galβ1-3GlcNAcβ1-4GlcNAc; Galβ1-4(Fucα1-3)GlcNAcβ1-4GlcNAc; Galβ1-3(Fucα1-4)GlcNAcβ1-4GlcNAc; SAα2-3Galβ1-3(Fucα1-4)GlcNAcβ1-4GlcNAc; SAα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-4GlcNAc; SAα2-3Galβ1-3(Fucα1-4)GlcNAcβ1-4Gal; SAα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-4Gal; SAα2-3Galβ1-4GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAc; SAα2-6Galβ1-4GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAc; SAα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4Glc; SAα2-6Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4Glc; SAα2-3Galβ1-4GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4Glc; SAα2-6Galβ1-4GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4Glc; SAα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-

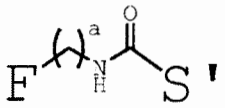
4(Fucα1-3)GlcNAcβ1-3Galβ1-4Glc; SAα2-6Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4Glc; SAα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-6Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-3Galβ1-4GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-6Galβ1-4GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-6Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-3Galβ1-3(Fucα1-4)GlcNAc; SAα2-6Galβ1-3(Fucα1-4(GlcNAc; SAα2-3Galβ1-3GlcNAcβ1-4Galβ1-4(Fucα1-3)GlcNAc; SAα2-6Galβ1-3GlcNAcβ1-4Galβ1-4(Fucα1-3)GlcNAc; SAα2-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAc; SAα2-6Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAc; SAα2-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4Glc; SAα2-6Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4Glc; SAα2-3Galβ1-3GlcNAcβ1-4Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4Glc; SAα2-6Galβ1-3GlcNAcβ1-4Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4Glc; SAβ2-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4Glc; SAα2-6Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4Glc; SAα2-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-6Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-3Galβ1-3GlcNAcβ1-4Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-6Galβ1-3GlcNAcβ1-4Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-6Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-3Galβ1-4GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAc; SAα2-6Galβ1-4GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAc; SAα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAc; SAα2-6Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAc; SAα2-3Galβ1-4GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4Glc; SAα2-6Galβ1-4GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4Glc; SAα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4Glc; SAα2-6Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4Glc; SAα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-3(Fucα1-4)Glc; SAα2-6Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-3(Fucα1-4)Glc; SAα2-3Galβ1-4GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-6Galβ1-4GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; SAα2-3Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-3(Fucα1-

4)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc; and SAα2-6Galβ1-4(Fucα1-3)GlcNAcβ1-3Galβ1-3(Fucα1-4)GlcNAcβ1-3Galβ1-4(Fucα1-3)Glc, where SA is sialic acid.

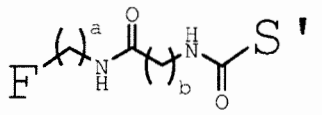
4) The method of any one of claims 1 to 3 where S' is selected from the group consisting of: campesterol, cholesterol, ergosterol, sitosterol and stigmasterol.

5) The method of claim 4 where S' is cholesterol.

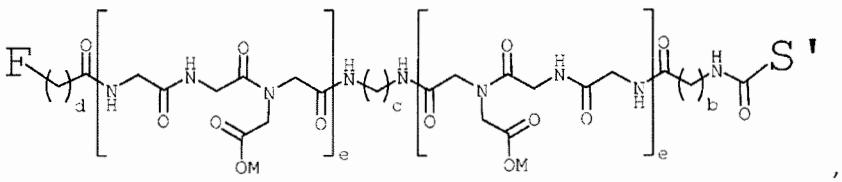
6) The method of any one of claims 1 to 5 where the water dispersible construct is of the structure:



where a is the integer 2, 3 or 4;

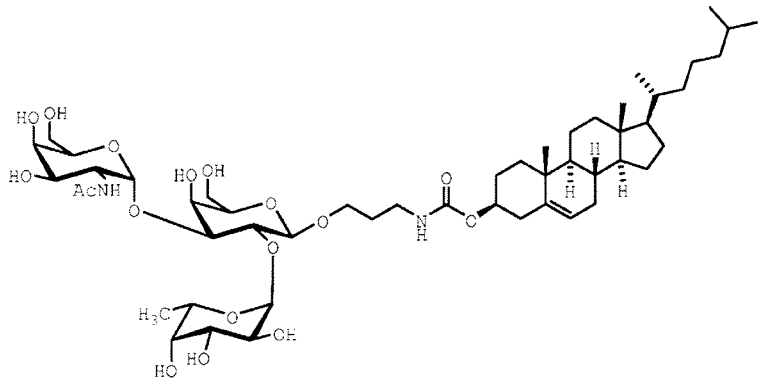


where a is the integer 2, 3 or 4 and b is the integer 3, 4 or 5; or

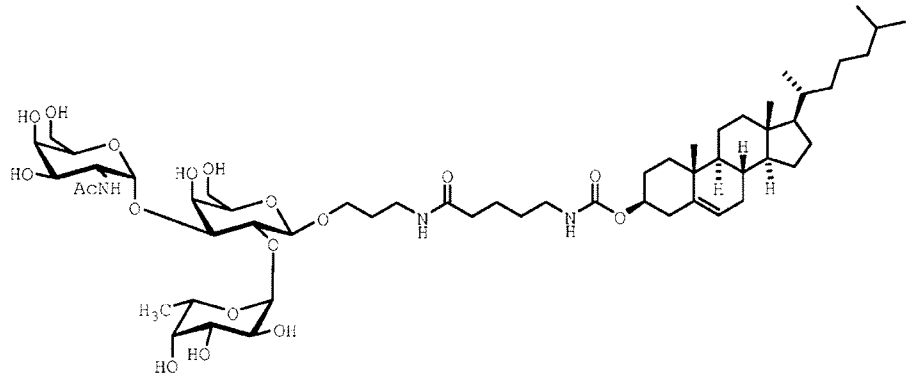


where b is the integer 3, 4 or 5, c is the integer 1, 2 or 3, d is the integer 3, 4 or 5, e is the integer 1, 2 or 3 and M is a monovalent cation.

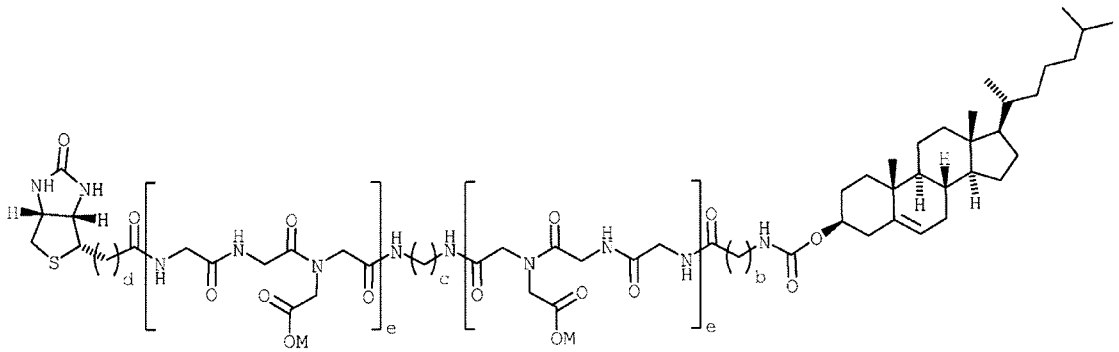
7) The method of claim 6 where the water dispersible construct is of the structure:



designated A_{tri}-S_1-chol (**I**);



designated A_{tri}-S_1-S_2-chol (**II**); or



where b is 4, c is 2, d is 4, e is 2, M is sodium ion (Na^+) and designated Biotin-S_3-S_4-S_2-chol (**III**).

8) The method of any one of claims 1 to 7 where the surface is the membrane of a cell.

9) The method of any one of claims 1 to 7 where the surface is the membrane of an enveloped virus.

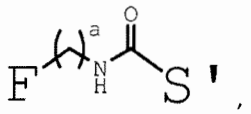
10) The method of any one of claims 1 to 7 where the surface is the lipid bilayer of a liposome or a virosome.

11) The method of any one of claims 1 to 10 where the concentration of the water dispersible construct in the aqueous solution is 1 μmolar (μM) to 10 mmolar (mM).

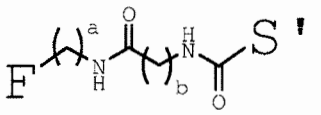
12) The method of claim 11 where the concentration of the construct in the aqueous solution is 10 μM to 10 mM.

13) The method of claim 12 where the concentration of the construct in the aqueous solution is 0.1 to 10 mM.

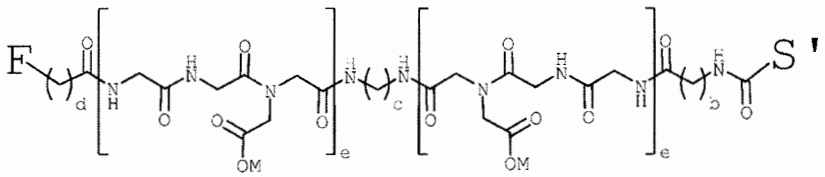
14) An **aqueous solution** of a water dispersible construct of the structure:



where F is a biofunctional moiety, S' is sterol, and a is the integer 2, 3 or 4;

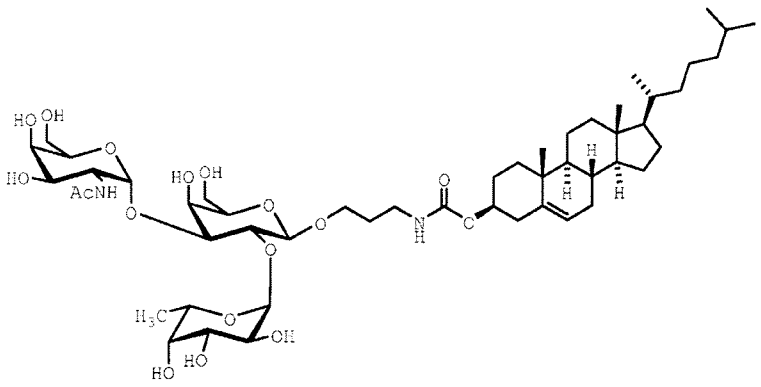


where F is a biofunctional moiety, S' is sterol, a is the integer 2, 3 or 4, and b is the integer 3, 4 or 5; or

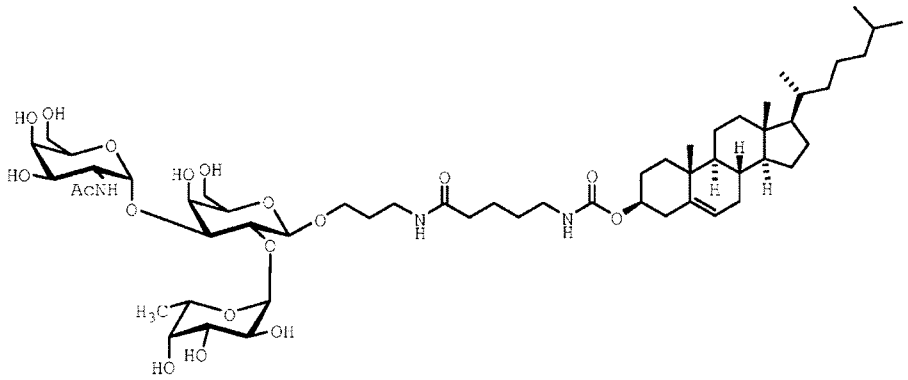


where F is a biofunctional moiety, S' is sterol, b is the integer 3, 4 or 5, c is the integer 1, 2 or 3, d is the integer 3, 4 or 5, e is the integer 1, 2 or 3 and M is a monovalent cation.

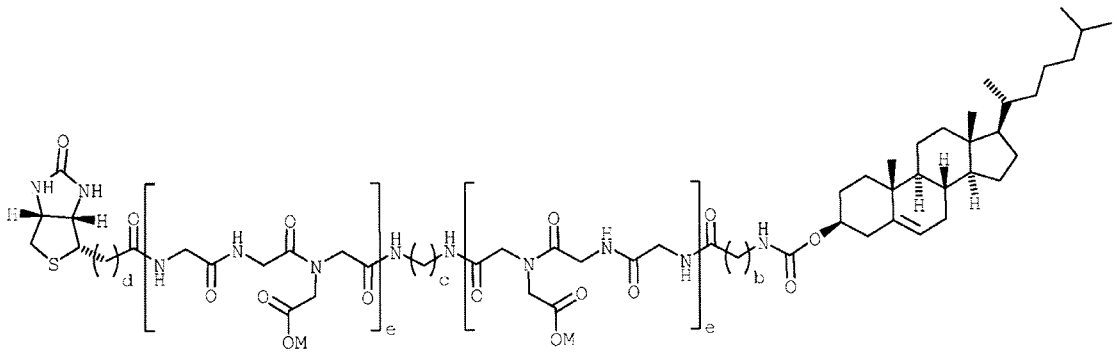
15) A **construct** of the structure:



designated A_{tri}-S_1-chol (**I**);



designated A_{tri}-S_1-S_2-chol (**II**); or



where b is 4, c is 2, d is 4, e is 2, M is sodium ion (Na^+) and designated Biotin-S_3-S_4-S_2-chol (**III**).

16) A **cell** incorporating a construct of claim 14 or 15.

17) An **enveloped virus** incorporating a construct of claim 14 or 15.

18) A **liposome** or **virosome** incorporating a construct of claim 14 or 15.