CLAIMS

1. A liposome in which an immunogen-encoding RNA is encapsulated, wherein the liposome comprises a cationic lipid and the liposome & RNA have a N:P ratio of between 1:1 and 20:1.
2. The liposome of claim 1, having a diameter in the range of 50-220nm.
3. The liposome of any preceding claim, wherein the RNA is a self-replicating RNA
4. The liposome of claim 3, wherein the self-replicating RNA encodes (i) a RNA-dependent RNA polymerase which can transcribe RNA from the self-replicating RNA molecule and (ii) an immunogen.
5. The liposome of claim 4, wherein the RNA has two open reading frames, the first of which encodes an alphavirus replicase and the second of which encodes the immunogen.
6. The liposome of any preceding claim, wherein the RNA is 9000-12000 nucleotides long.
7. The liposome of any preceding claim, wherein the immunogen can elicit an immune response *in vivo* against a bacterium, a virus, a fungus or a parasite.
8. The liposome of claim 7, wherein the immunogen can elicit an immune response *in vivo* against respiratory syncytial virus glycoprotein F.
9. The liposome of any preceding claim, wherein the liposome & RNA have a N:P ratio between 2:1 and 18:1.
10. The liposome of any preceding claim, wherein the liposome & RNA have a N:P ratio between 3:1 and 11:1.
11. The liposome of any preceding claim, wherein the liposome & RNA have a N:P ratio between 4:1 and 16:1.
12. The liposome of any preceding claim, wherein the liposome & RNA have a N:P ratio between 6:1 and 14:1.
13. The liposome of any preceding claim, wherein the liposome & RNA have a N:P ratio between 8:1 and 12:1.
14. The liposome of any one of claims 1 to 9, wherein the liposome & RNA have a N:P ratio of 2:1, 4:1, 8:1 or 10:1.
15. A pharmaceutical composition comprising a liposome of any preceding claim.
16. A method for raising a protective immune response in a vertebrate, comprising the step of administering to the vertebrate an effective amount of the liposome of claims 1-14, or the pharmaceutical composition of claim 15.

CLAIMS

1. An invention not claimed in any divisional application.