Claims

Claim 1. A VLP containing an oligoribonucleotide comprising a capsid specific packaging sequence and further comprising multiple complementary regions, wherein each of said complementary regions comprising;

(a) a sense strand siRNA sequence, immediately followed by

(b) a non-homologous sequence capable of forming a loop, immediately followed by

(c) an antisense strand sequence complementary to the sense strand sequence are contiguously arrayed.

Claim 2. The oligoribonucleotide of claim 1, wherein the complementary regions are linked by one or more ribozymes.

Claim 3. A virus-like particle (VLP) containing an oligoribonucleotide comprising a capsid specific packaging sequence and further comprising multiple complementary regions, wherein each of said complementary regions comprise;

(a) multiple catenated sense strand sequences, immediately followed by

(b) a non-homologous sequence capable of forming a loop, immediately followed by

(c) multiple catenated antisense strand sequences complementary to the multiple catenated sense strand sequences are contiguously arrayed.

Claim 4. The oligoribonucleotide of claim 3, wherein multiple catenated sense strand sequences are linked by 1 to 3 non-complementary nucleotides to form bulged RNA.

Claim 5. A VLP containing an oligoribonucleotide comprising a capsid specific packaging sequence and one or more complementary regions, wherein each of said complementary packaging;

(a) multiple catenated sense strand siRNA sequences each immediately followed by a sense strand sequence for host cell RNA processing, immediately followed by

(b) a non-homologous sequence capable of forming a loop, immediately followed by

(c) multiple catenated antisense strand sequences complementary to the multiple catenated sense strand sequences each immediately followed by an antisense strand sequence complementary to the sense strand sequence for host cell RNA processing are contiguously arrayed.

Claim 6. The oligoribonucleotide of claim 5, wherein the sequence for host cell RNA processing is specific for CRISPR mediated RNA processing.

Claim 7. The oligoribonucleotide of claim 5, wherein the sequence for host cell RNA processing is specific for DICER mediated RNA processing.

Claim 8. The oligoribonucleotide of claims 1, 3 or 5, wherein the sequence capable of forming a loop comprises one or more ribozymes.