CLAIMS

1. A composition, preferably a veterinary composition, comprising

(a) a modified VLP of CMV, wherein said modified VLP of CMV comprises at least one first attachment site, and wherein said modified VLP of CMV comprises at least one chimeric CMV polypeptide, wherein said at least one chimeric CMV polypeptide comprises, preferably consists of,

(i) a CMV polypeptide, wherein said CMV polypeptide comprises a coat protein of CMV or an amino acid sequence having a sequence identity of at least 75% with SEQ ID NO:39; and

(ii) a polypeptide comprising, preferably consisting of, a stretch of consecutive negative amino acids, wherein said negative amino acids are independently selected from aspartic acid or glutamic acid, wherein said polypeptide is inserted between any amino acid residue of said CMV polypeptide corresponding to any amino acid residue between position 75 and position 85 of SEQ ID NO:39.

(b) at least one antigen, wherein said antigen comprises at least one second attachment site, and wherein said antigen is nerve growth factor (NGF); and

wherein (a) and (b) are linked through said at least one first and said at least one second attachment site.

2. The composition of claim 1, wherein said chimeric CMV polypeptide further comprises a T helper cell epitope, wherein said T helper cell epitope replaces a N-terminal region of said CMV polypeptide, wherein said N-terminal region of said CMV polypeptide corresponds to amino acids 2-12 of SEQ ID NO:39.

3. The composition of claim 2, wherein said T helper cell epitope is derived from tetanus toxin or is a PADRE sequence, and wherein preferably said Th cell epitope comprises the amino acid sequence of SEQ ID NO:41 or SEQ ID NO:42.

4. The composition of CMV of any one of the preceding claims, wherein said CMV polypeptide is a coat protein of CMV or an amino acid sequence having a sequence identity of at least 90%, preferably 95% with SEQ ID NO:39.

5. The composition of any one of the preceding claims, wherein said CMV polypeptide comprises, preferably consists of, the amino acid sequence of SEQ ID NO:5, wherein said polypeptide comprising said stretch of consecutive negative amino acids is inserted between amino acid residues of position 88 and position 89 of said SEQ ID NO:5.

6. The composition of CMV of any one of the preceding claims, wherein said stretch of consecutive negative amino acids has a length of 3 to 10 amino acids.

7. The composition of CMV of any one of the preceding claims, wherein said stretch of consecutive negative amino acids consists solely of glutamic acids.

8. The composition of CMV of any one of the preceding claims, wherein said polypeptide comprising said stretch of consecutive negative amino acids further comprises a first amino acid linker and a second amino acid linker, wherein said first amino acid linker is positioned at the N-terminus of said stretch of consecutive negative amino acids, and said second amino acid linker is positioned at the C-terminus of said stretch of consecutive negative amino acids, and wherein said first and said second amino acid linker is independently selected from the group consisting of:

(a.) a polyglycine linker (G-linker) having an amino acid sequence $(Gly)_n$ of a length of n=2-10;

(b.) a glycine-serine linker (GS-linker) comprising at least one glycine and at least one serine, wherein preferably said GS linker has an amino acid sequence of $(GS)_r(G_sS)_t(GS)_u$ with r=0 or 1, s=1-5, t=1-5 and u=0 or 1; and

(c.) an amino acid linker (GS*-linker) comprising at least one Gly, at least one Ser, and at least one amino acid selected from Thr, Ala, Lys, and Cys.

9. The composition of any one of the preceding claims, wherein said polypeptide comprises, preferably consists of, SEQ ID NO:49, SEQ ID NO:50 or SEQ ID NO:51.

10. The composition of claim 1, wherein said chimeric CMV polypeptide comprises, preferably consists of, the amino acid sequence of SEQ ID NO:10, SEQ ID NO:11 or SEQ

ID NO:12.

11. The composition of any one of the preceding claims, wherein said at least one first attachment site is not comprised or part of the polypeptide comprising said stretch of consecutive negative amino acid.

12. The composition of any one of the preceding claims, wherein said first attachment site is an amino group, preferably an amino group of a lysine residue, and wherein said at least one second attachment site is a sulfhydryl group, preferably a sulfhydryl group of a cysteine residue.

13. The composition of any one of the preceding claims, wherein said antigen is selected from canine NGF (cNGF), feline NGF (fNGF), equine NGF (eNGF), bovine NGF (bNGF) and porcine NGF (pNGF), wherein preferably said antigen is canine NGF(cNGF) or feline NGF (fNGF), and wherein further preferably said antigen is canine NGF (cNGF).

14. The composition of any one of the preceding claims, wherein said antigen comprises, or preferably consists of, an amino acid sequence selected from any of SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:33, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, and SEQ ID NO:58, or an amino acid sequence having a sequence identity of at least 90%, preferably of at least 95%, with any of SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:33, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, and SEQ ID NO:58.

15. The composition of any one of the preceding claims, wherein said antigen comprises, or preferably consists of, an amino acid sequence selected from any of SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:33 and SEQ ID NO:55, or an amino acid sequence having a sequence identity of at least 90%, preferably of at least 95%, with any of SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:33 and SEQ ID NO:55.

16. The composition of any one of the preceding claims, wherein (a) and (b) are linked through said at least one first and said at least one second attachment site via at least one covalent non-peptide bond.

17. Use of the composition of any one of the preceding claims in the manufacture of a pharmaceutical composition for inducing neutralizing antibodies against NGF in an animal.

18. The use of claim 17, wherein the animal is canine.

19. The use of claim 17, wherein the animal is feline.

20. The composition of any one of claims 1-16 for use as a medicament.