What is claimed is:

1. An isolated extracellular vesicle (EV) having an exterior surface and a luminal surface and comprising (i) an antigen, (ii) a Scaffold X moiety, and (iii) a Scaffold Y moiety, wherein the antigen is fused to the Scaffold X moiety or the Scaffold Y moiety.
2. The EV of claim 1, wherein the antigen is fused to the N-terminus of the Scaffold X moiety or wherein the antigen is fused to the C-terminus of the Scaffold X moiety.
3. The EV of claim 1, wherein the antigen comprises a first antigen and a second antigen, and wherein: (i) the first antigen is fused to the Scaffold X moiety and the second antigen is fused to the Scaffold Y moiety or (ii) the first antigen is fused to the N-terminus of the Scaffold X moiety and the second antigen is fused to the C-terminus of the Scaffold X moiety.
4. The EV of claim 1, wherein the antigen is derived from a bacterium, virus, fungus, protozoa, or combinations thereof.
5. The EV of claim 4, wherein the antigen is derived from a human gamma herpes virus 4 (Epstein Barr virus), influenza A virus, influenza B virus, cytomegalovirus, staphylococcus aureus, mycobacterium tuberculosis, chlamydia trachomatis, HIV (e.g., HIV-1, HIV- 2), corona viruses (e.g., COVID-19, MERS-CoV, and SARS CoV), filoviruses (e.g., Marburg and Ebola), Streptococcus pyogenes, Streptococcus pneumoniae, Plasmodia species (e.g., vivax and falciparum), Chikungunya virus, Human Papilloma virus (HPV), Hepatitis B, Hepatitis C, human herpes virus 8, Merkel cell polyomavirus (MCV), bunyavirus (e.g., hanta virus), arena virus (e.g., LCMV and Lassa virus), flavivirus (e.g., dengue, Zika, Japanese encephalitis, west nile, and yellow fever), enterovirus (e.g., polio), astrovirus (e.g., gastroenteritis), rhabdoviridae (e.g., rabies), Borrelia burgdorferi and Burrelia mayonii (e.g., Lyme disease), herpes simplex virus 2 (HSV2), Klebsiella sp., Pseudomonas aeruginosa, Enterococcus sp., Proteus sp., Enterobacter sp., Actinobacter sp., coagulase-negative staphylococci (CoNS), Mycoplasma sp., Adenovirus, Adeno-associated virus (AAV), or combinations thereof.
6. The EV of claim 1, which further comprises a payload selected from an adjuvant, immune modulator, targeting moiety, or combinations thereof.
7. The EV of claim 6, wherein the payload is conjugated to the exterior surface and/or the luminal surface of the EV.

8. The EV of claim 7, wherein the payload is conjugated to the exterior surface and/or the luminal surface of the EV by a scaffold moiety.
9. The EV of claim 8, wherein the scaffold moiety comprises a Scaffold X moiety, Scaffold Y moiety, or both.
10. The EV of claim 6, wherein the payload is encapsulated within a lumen of the EV.
11. The EV of claim 6, wherein the adjuvant comprises a Stimulator of Interferon Genes (STING) agonist, a toll-like receptor (TLR) agonist, an inflammatory mediator, RIG-I agonists, alpha-gal-cer (NKT agonist), heat shock proteins (e.g, HSP65 andHSP70), C-type lectin agonists (e.g, beta glucan (Dectin 1), chitin, and curdlan), or any combination thereof.
12. The EV of claim 1, wherein (i) the Scaffold X moiety is a prostaglandin F2 receptor negative regulator (PTGFRN) protein or a fragment thereof, (ii) the Scaffold Y moiety is a brain acid soluble protein 1 (BASP1) protein or a fragment thereof., or (iii) both (i) and (ii).
13. An isolated extracellular vesicle (EV) having an exterior surface and a luminal surface and comprising (i) a first antigen, (ii) a second antigen, and (iii) a third antigen, wherein the first antigen, the second antigen, and/or the third antigen is fused to a Scaffold X moiety or a Scaffold Y moiety.
14. The EV of claim 13, wherein: (i) the first antigen is fused to the N-terminus of the Scaffold X moiety on the exterior surface of the EV, (ii) the second antigen is fused to the C- terminus of the Scaffold X moiety on the luminal surface of the EV, (iii) the third antigen is fused to the Scaffold Y moiety on the luminal surface of the EV, or (iv) any combination of (i) to (iii).
15. The EV of claim 13, which further comprises a payload selected from an adjuvant, immune modulator, targeting moiety, or combinations thereof.
16. The EV of claim 15, wherein the adjuvant comprises a STING agonist, a toll- like receptor (TLR) agonist, an inflammatory mediator, RIG-I agonists, alpha-gal-cer (NKT agonist), heat shock proteins (e.g, HSP65 andHSP70), C-type lectin agonists (e.g, beta glucan (Dectin 1), chitin, and curdlan), or any combination thereof.

17. The EV of claim 13, wherein (i) the Scaffold X moiety is a prostaglandin F2 receptor negative regulator (PTGFRN) protein or a fragment thereof, (ii) the Scaffold Y moiety is a brain acid soluble protein 1 (BASP1) protein or a fragment thereof., or (iii) both (i) and (ii).
18. The EV of claim 13, wherein the antigen is derived from a bacterium, virus, fungus, protozoa, or combinations thereof.
19. A pharmaceutical composition comprising the EV of claim 1 and a pharmaceutically acceptable carrier.
20. Use of the EV of claim 1 in the manufacture of a medicament for treating a coronavirus infection in a subject in need thereof.