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To elucidate the role of membranes in the entry of non-enveloped viruses, the effect of different compounds on the trafficking of a model virus, canine parvovirus, CPV, is analyzed in neuronal cell cultures, as well as in model membranes. The effect of CPV capsids on local ordering properties in model membranes are studied by fluorescence spectroscopy. In acidic conditions *in vitro* the CPVs cause disorder in the DPPC:cholesterol membranes, whereas in more fluid membranes, composed of DOPC, the effect is not seen. During infection in endosomal cell populations, a similar disordering effect by CPV is seen.