**Variance analysis as a tool to predict the mechanism underlying synaptic plasticity**

**(Van Huijstee and Kessels, 2020)**

-for EPSCs

-1/CV^2 depends on N and Pr (but not Q)

-VMR depends on Pr and Q (but not N)

-presynaptic: change in Pr and/or N

-postsynaptic: change in Q

-variance anlaysis using Shaprio-Wilks test for normality, if yes use paired t-test, if no use wilcox match pair signed rank test

-change in N = proportional change in 1/CV2 with NO change in VMR

-change in Q = no change in 1/CV2 and change in VMR

-increase in Pr = increase in 1/CV2 and decrease in VMR