

**Additional file 5 - Vuong's non-nested test on 4 distributions applied to Illumina MiSeq training data**

<b>Model 1</b>	<b>Model 2</b>	<b>Vuong z-statistic BIC-corrected</b>	<b>Hypothesis</b>	<b>P value</b>
Poisson	NB	-23.38	model2 > model1	< 2.22e-16
Poisson	ZIP	-21.30	model2 > model1	< 2.22e-16
NB	ZIP	-0.47	model2 < model1	0.31796
ZIP	ZINB	-20.22	model2 > model1	< 2.22e-16
NB	ZINB	-17.44	model2 > model1	< 2.22e-16