

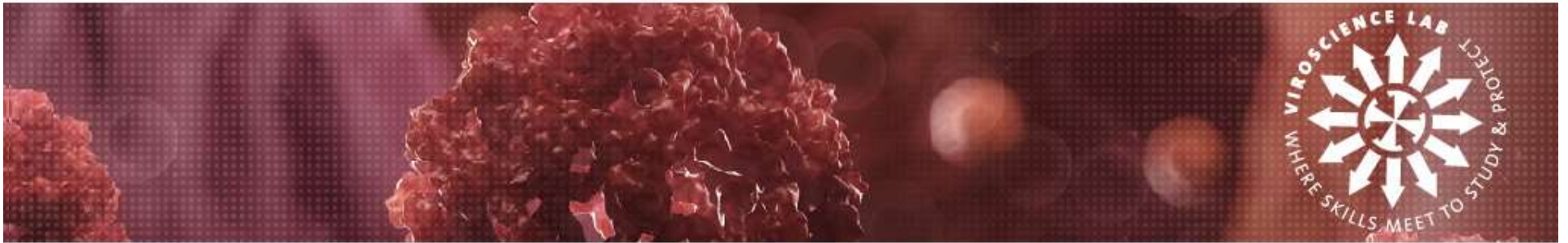
WHO collaborating centre for
Arbovirus and Hemorrhagic
Fever Reference and
Research

Evaluation of Antigen rapid test and PCR test to Omicron variant

Detection of Omicron by VirSNP

Dr. Richard Molenkamp
Dr. Zsofia Igloi

A DEPARTMENT OF **ErasmusMC**

Rapid Ag test:

**Roche/SD-Biosensor
Abbott Panbio
BD Veritor**

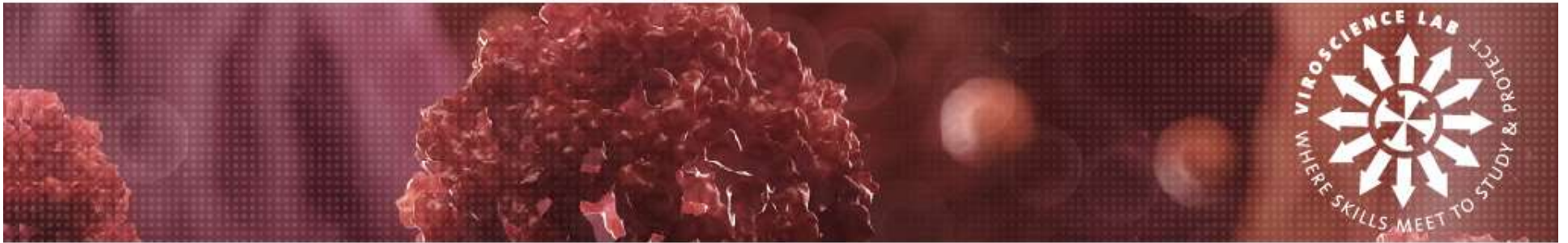
RT-PCR/TMA

**Corman E and RdRp
Roche Cobas6800
Hologic Panther TMA
Cepheid GeneXpert**

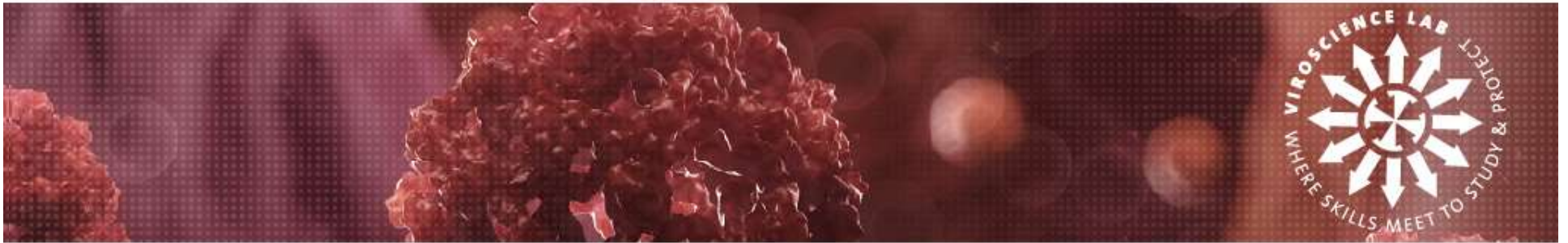
Omicron variant from first introduction (26-11) in NL

Cultured on Calu cells, not-titered (yet)

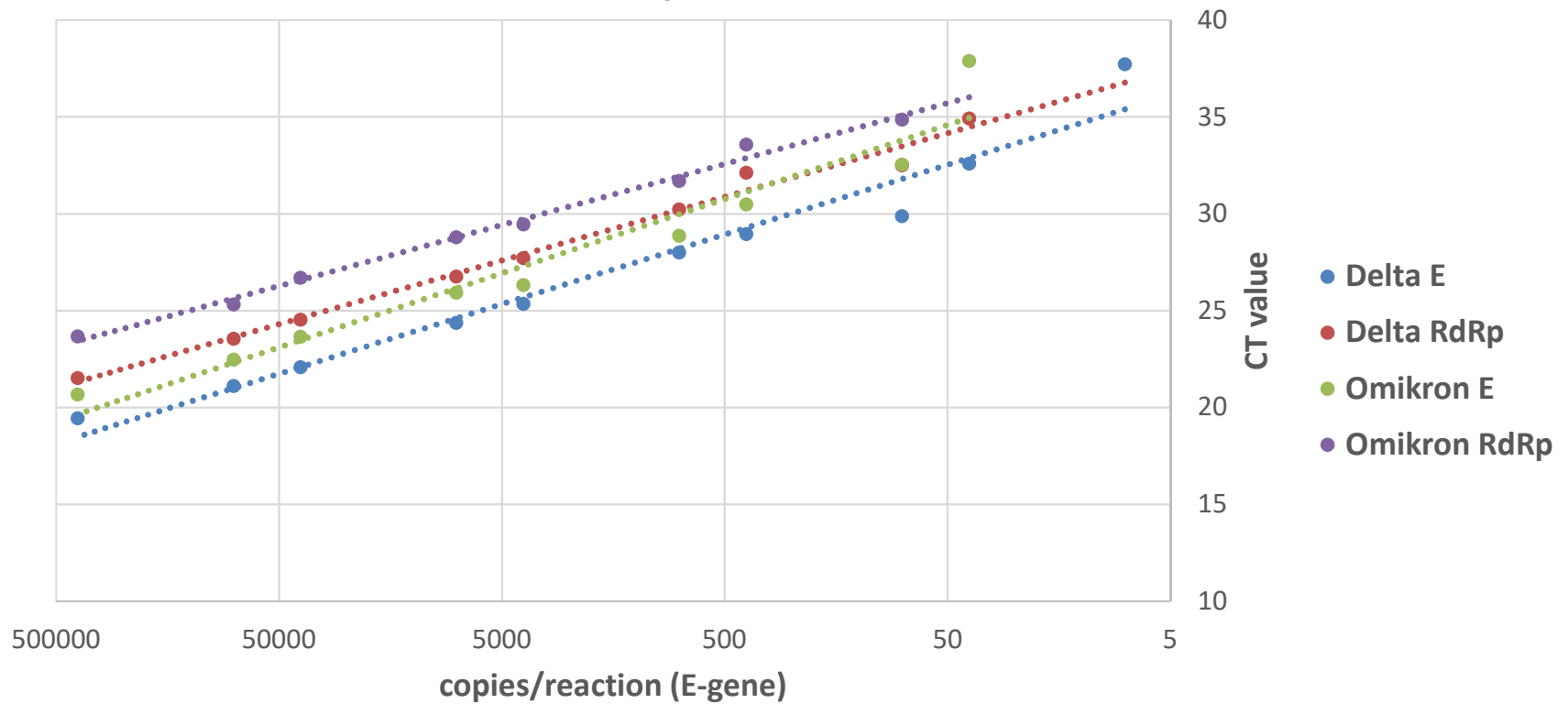
Dilution series from culture supernatant



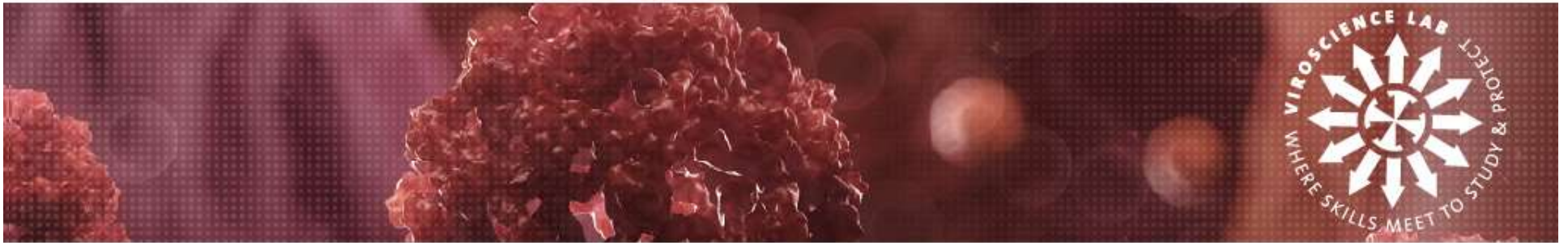
		x5	x25	x125	x625	x3125
Omicron	Ct value	14,94	17,96	20,34	22,11	24,73
SD Biosensor		++	+	(+)	+/-	-
PanBio		+	(+)	+/-	-	-
BD		(+)	+/-	-	-	-
Delta	Ct value	15,38	18,33	20,63	23,03	25,37
SD Biosensor		++	+	(+)	+/-	-
PanBio		+	(+)	+/-	-	-
BD		(+)	+/-	-	-	-



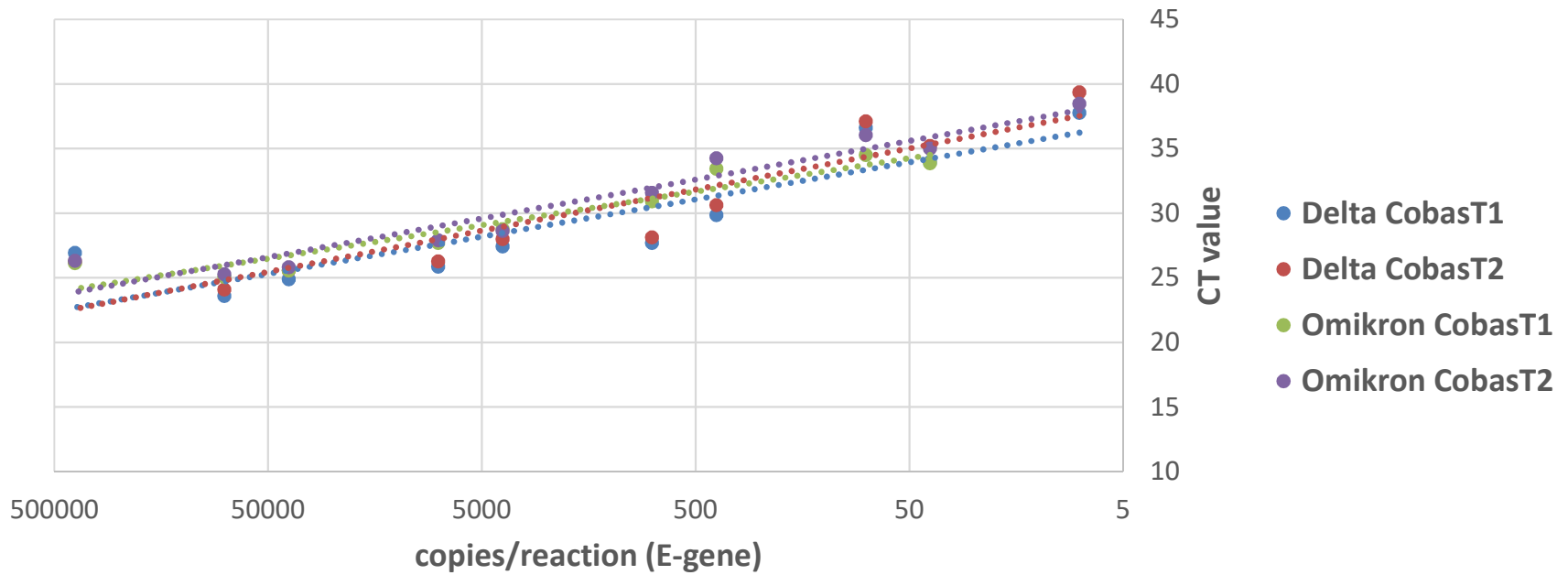
Corman E and RdRp



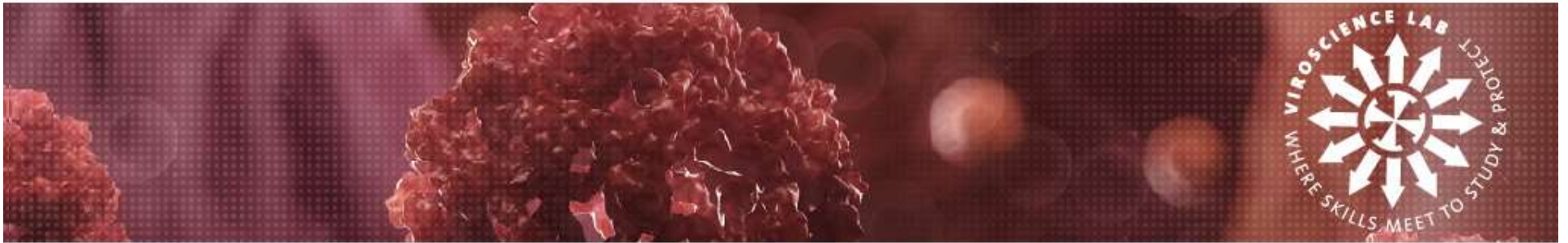
Highest dilution (5,00E+06) Delta corresponds to ~8 c/PCR (E gene, Corman PCR)



Roche Cobas6800



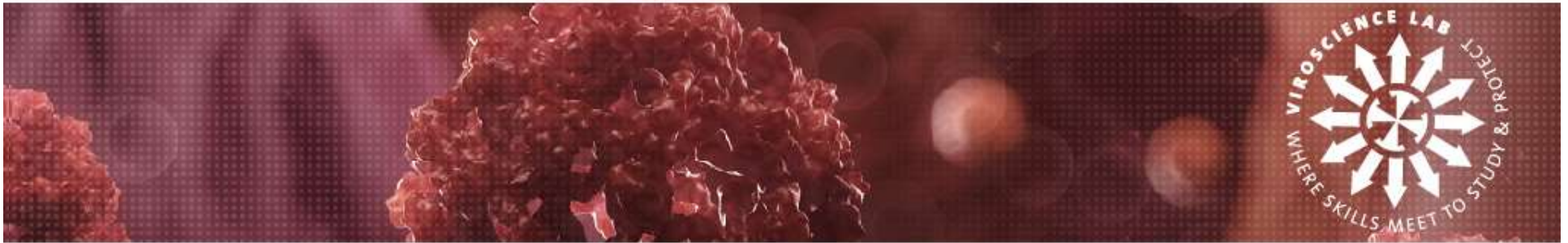
Highest dilution (5,00E+06) Delta corresponds to ~8 c/PCR (E gene, Corman PCR)



Dilution	Hologic TMA		GeneXpert	
	Delta	Omikron	Delta	Omikron
5,00E+04	POS	POS	31,1	33,3
1,00E+05	POS	POS	29,9	36,6
5,00E+05	POS	POS	37,3	39,4
1,00E+06	POS	POS	38,1	38,9
5,00E+06	POS*	POS*	41,9	41,4



* 1 out of 2 replicates

Highest dilution (5,00E+06) Delta corresponds to ~8 c/PCR (E gene, Corman PCR)




Highest dilution (5,00E+06) Delta corresponds to ~8 c/PCR (E gene, Corman PCR)

Contents lists available at [ScienceDirect](https://www.sciencedirect.com)

 **Journal of Clinical Virology** 

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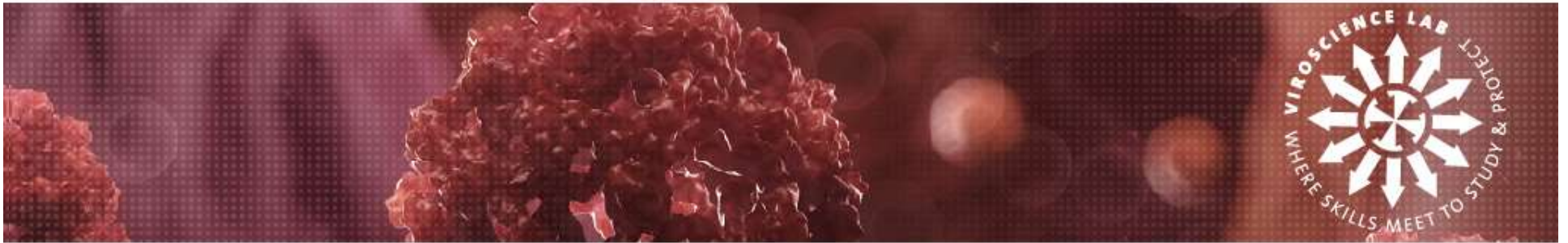
Short communication

Comparison of commercial realtime reverse transcription PCR assays for the detection of SARS-CoV-2 

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^d Department of Microbiology, University Hospital Antwerp, Edegem, Belgium

Lod Corman E-gene PCR was previously estimated 3.3 copies/reaction (NL-2000 virus)



Conclusion:

Similar PCR sensitivity for Delta and Omicron for:

Original Corman E and RdRp PCR

Roche Cobas6800

Hologic Panther TMA

Cepheid GeneXprt

TibMolbiol VirSNP S371L/S373P



Wt, Alpha, Beta, Gamma, Delta controls
Delta samples

12 Omicron confirmed passengers flight 26-11

