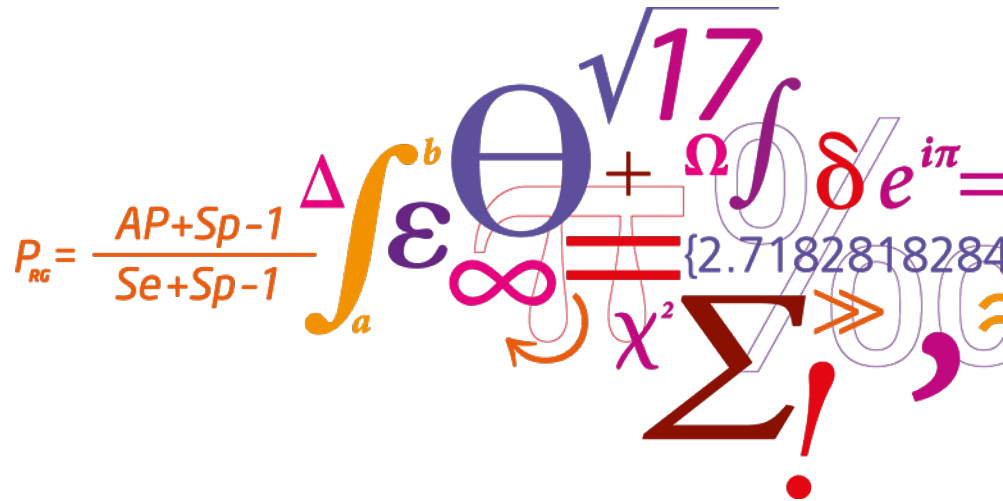




Sample preservation for PCR

Argelia Cuenca, Tine Iburg, Niccoló Vendramin, Troels Rundqvist, Christina Desler, Teena Klinge, Niels Jørgen Olesen



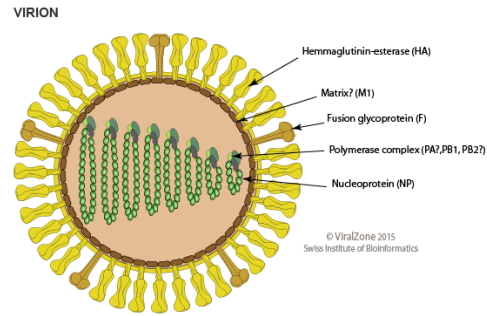
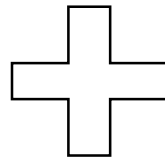


Why we tried alternative methods for sample storage?

- Some viruses may be more susceptible to freezing and thawing cycles
- In particular Piscine orthoreoviruses seem to be strongly affected by freezing
 - Test for PRV – fresh sample or RNA later
- In 2016 a large screening for different fish viruses, including PRV, was conducted in Denmark
- During the screening samples could not be stored in RNA later or frozen
- How to store large amount of organ supernatant?

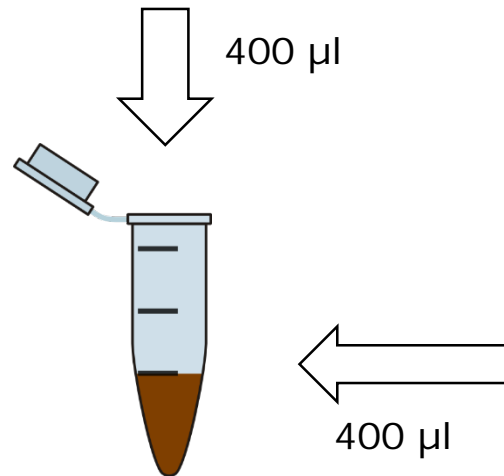


Fish organ supernatant



Virus (positive control)

ISAV
SAV
POX



Stored
4 weeks x 6°C



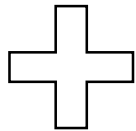
Lysis buffer



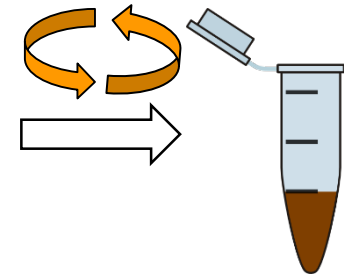
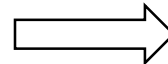
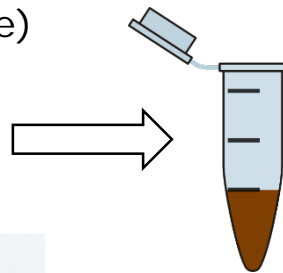
PRV



Fish tissue (positive)



Lysis buffer



Stored
4 weeks x 6°C



Results

Ct values for samples stored four weeks at 4-6 °C

	Sample 1	Sample 2	Control
SAV	30.06	29.69	30.09
ISAV	34.59	34.50	34.43
PRV	31.28	-	34.43
POX	30.70	30.80	30.66

Samples are not affected by storage at 4-6 °C in lysis buffer for up to four weeks

Test extended periods of time