



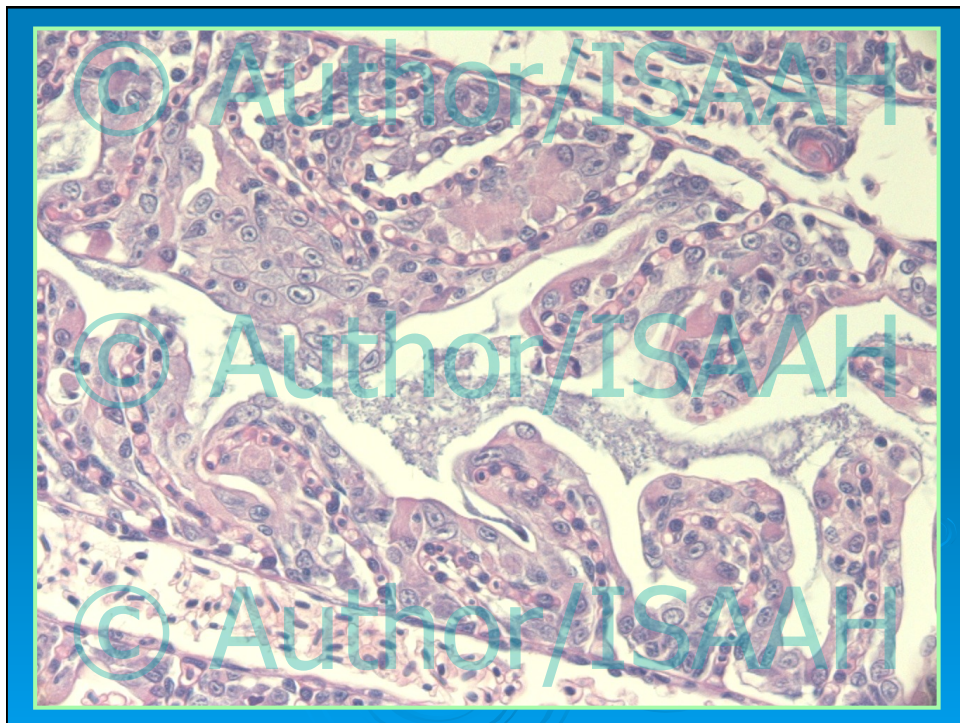
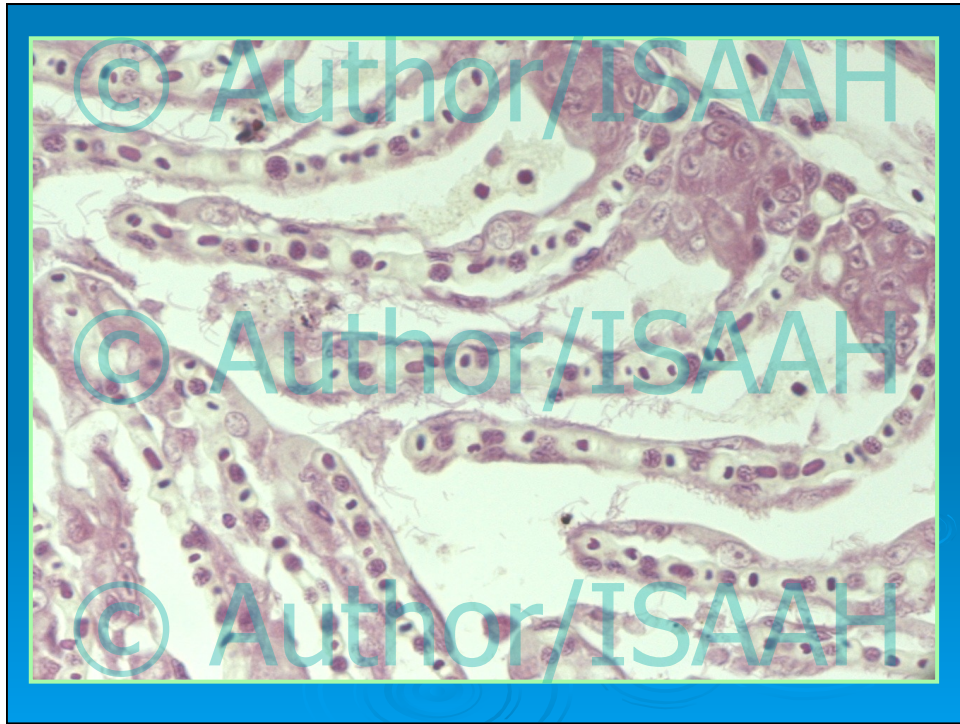
An Experimental Vaccine Against
Aeromonas hydrophila can Induce Protection
in Rainbow trout

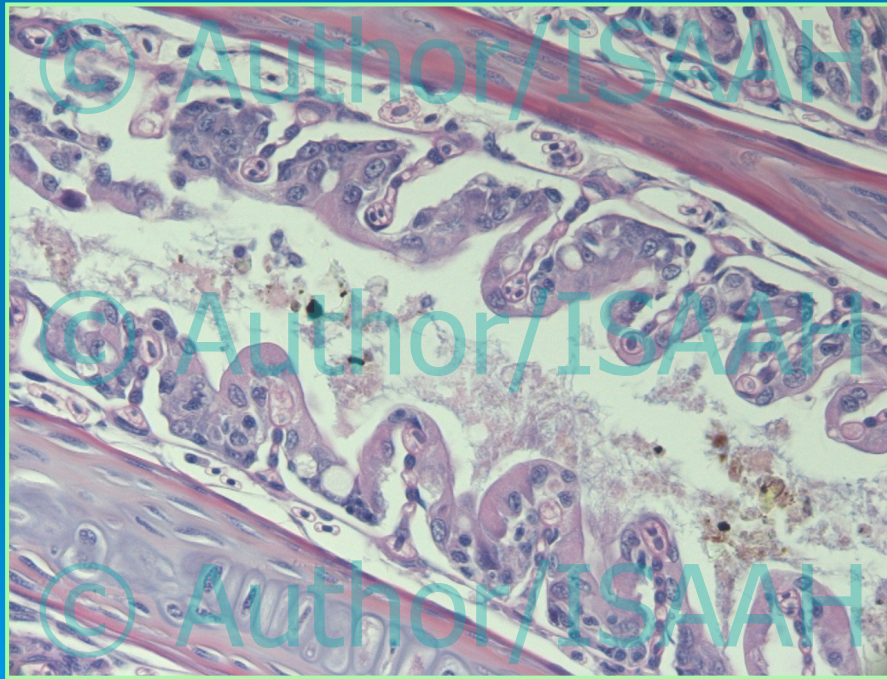
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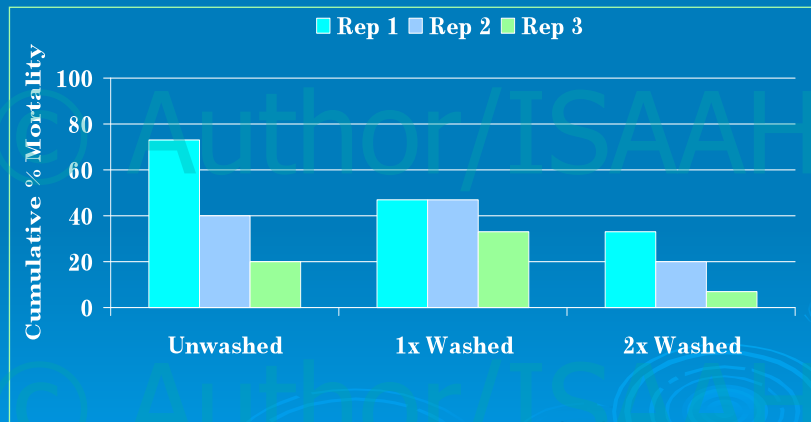


Aeromonas hydrophila

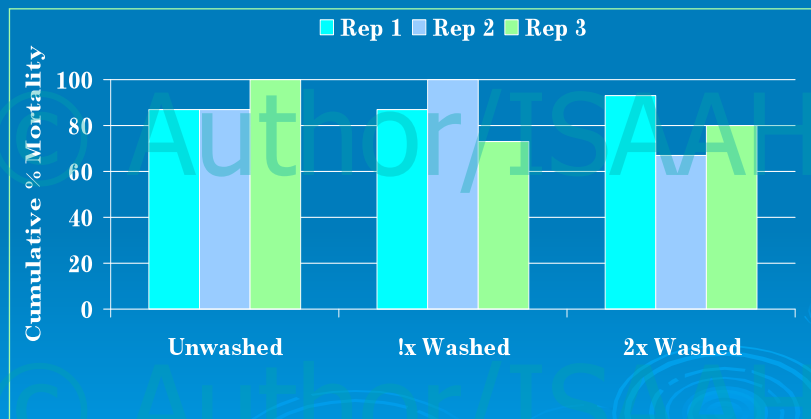
Vaccine Development

- Formalin killed, toxoid and live attenuated
- Inject (adjuvant) vs bath
- Immunogenicity and delivery potential of a lysate
- Development of a model system

Challenge Model Development Intraperitoneal Injection (IP)

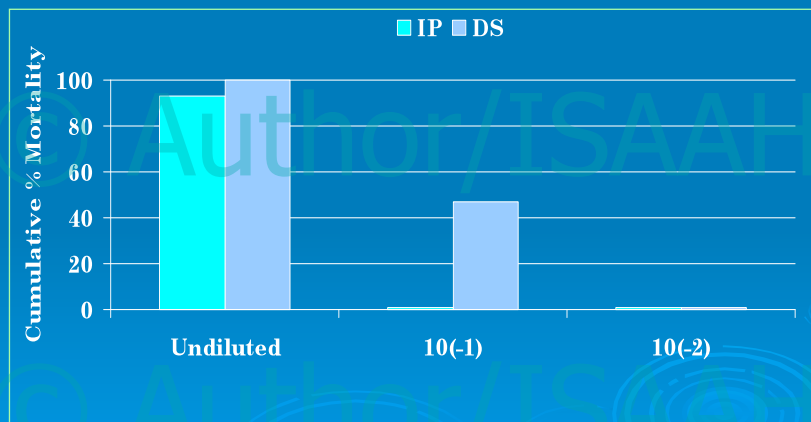


Challenge Model Development Dorsal Sinus Injection (DS)



Challenge Model Development

Lethal Dose 50% Determination



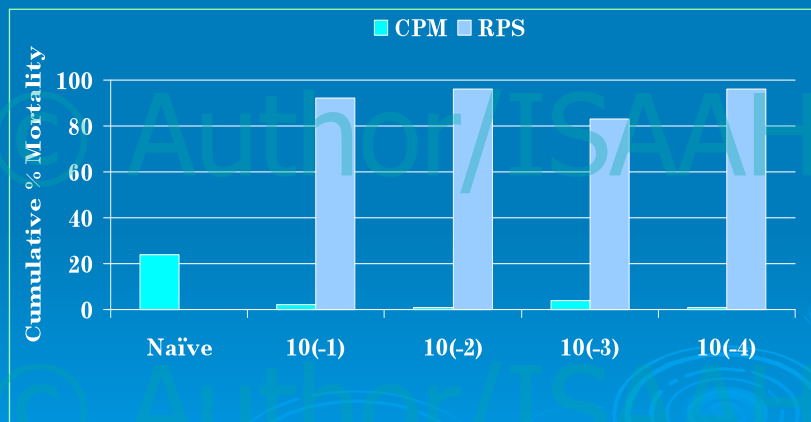
Susceptibility of Survivors

Primary Challenge

- Triplicate 25-fish groups (mw, 7 g)
- 100 ul, 10(-1) thru 10(-4), 1.0 OD
- 16% cumulative mortality at highest challenge dose
- No mortality at other doses

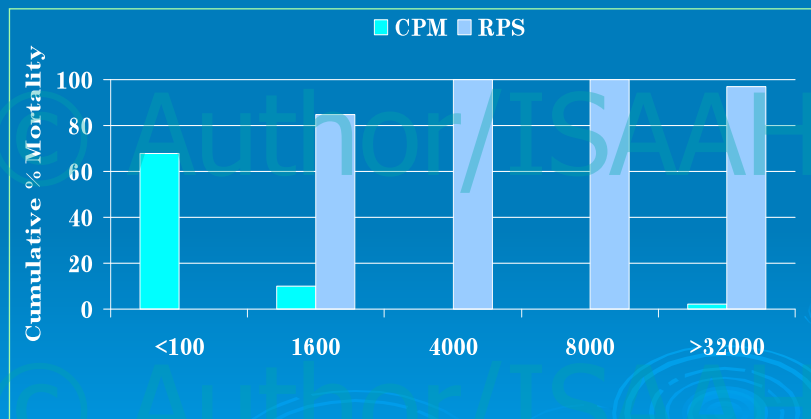
Susceptibility of Survivors

Re-challenge, 10 g fish



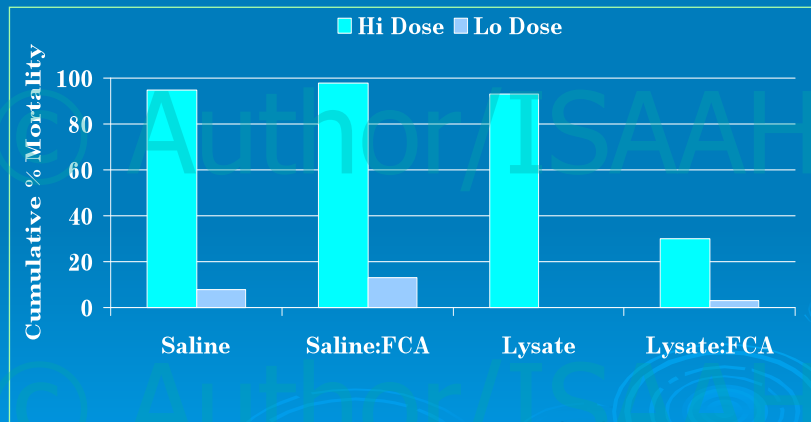
Passive Immunization

IP Delivery, 2 g fish



Vaccine Trial

4 wpv / 420 dd / 8 g



Aeromonas hydrophila Vaccine Development

- DS vs IP challenge procedure
 - Effect of washing cells
- LD(50) determination
- Susceptibility of survivors
- Passive immunization
- Preliminary vaccine evaluation