

## Effect of -glucan on the oxygen radical production of Head Kidney cells in common carp

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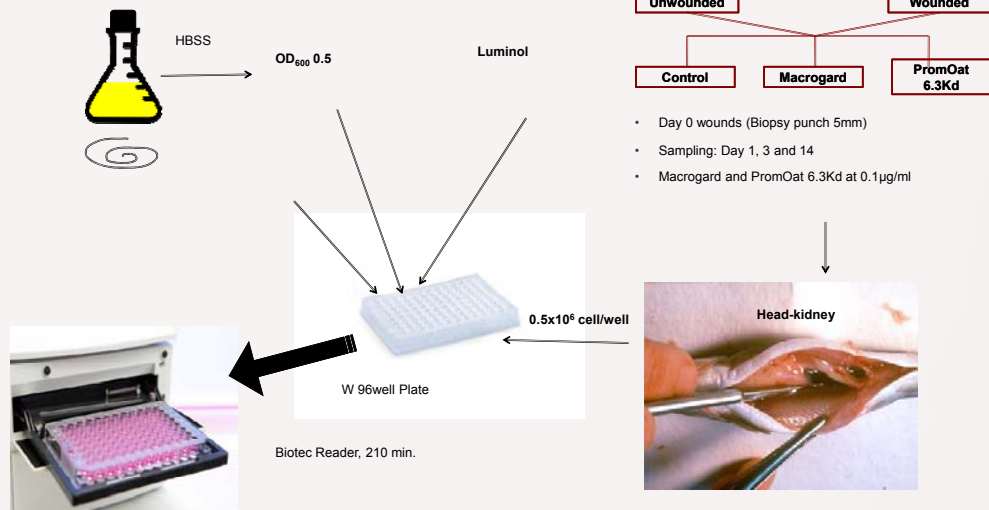
# Effect of $\beta$ -glucan on the oxygen radical production of Head Kidney cells in common carp.

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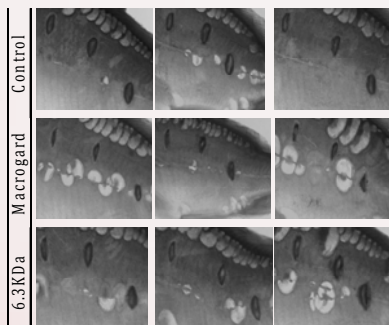
## Methodology

*Aeromonas hydrophila*



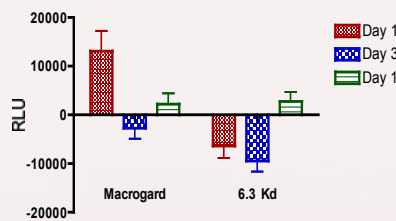
## Results

So if you give a  $\beta$ -glucan bath treatment to the fish, and then challenge them with *Aeromonas hydrophila* you get...

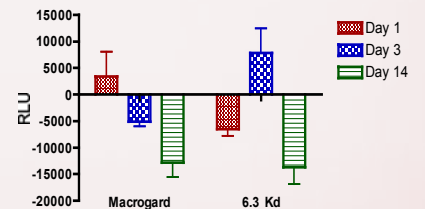


Pictures by Jacob Schmidt, Biological quality group, DTU Food.

Relative RB response by Head Kidney cells of Unwounded Carp

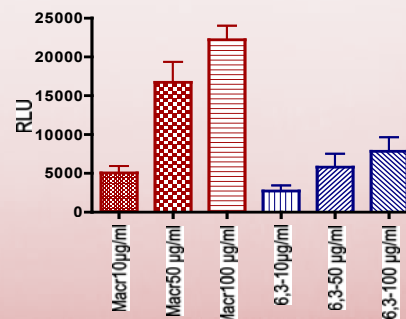


Relative RB response by Head Kidney cells of Wounded Carp

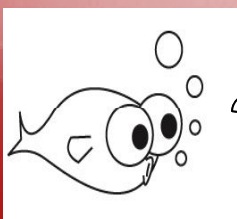


But if you apply  $\beta$ -glucan directly to the HK cells, the response looks like....

Relative RB response of HK cells to B-glucan



## What is happening?



- Does  $\beta$ -glucan decrease oxygen radical production during bacterial challenge?
- Are the cells exhausted?
- Is it just a dose matter?
- Does the method of delivery affect the response?