KYTOS

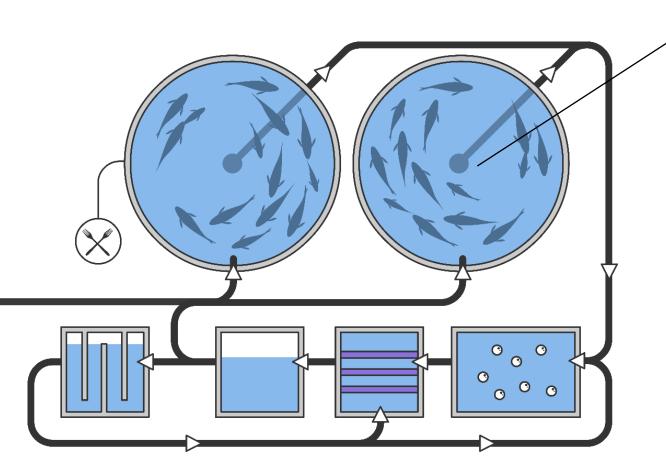
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Kytos fingerprinting technology to support effective microbial management practices

Jasmine Heyse Principal Scientist at KYTOS 19/09/2023

Microbiome monitoring today



Rearing water: 10⁷ cells/mL

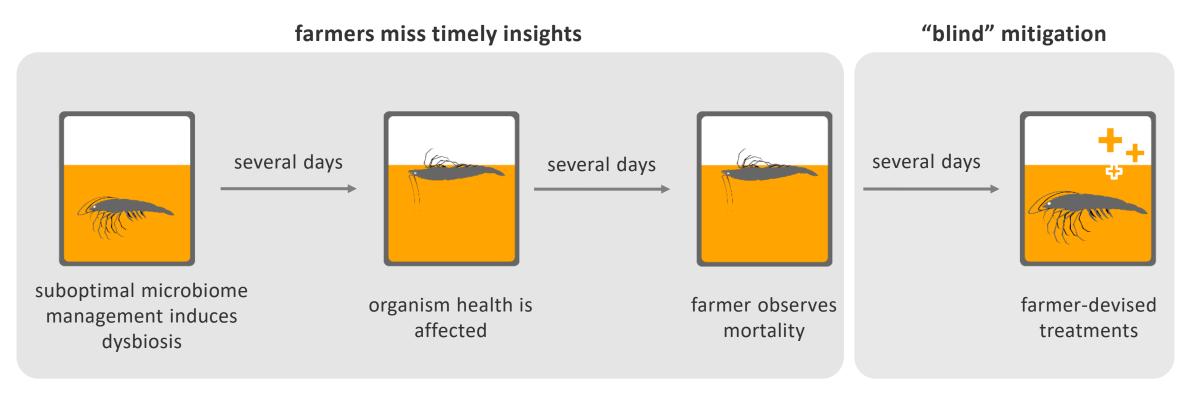
~ population of Austria



- Agar plating (Marine agar, TCBS, etc.)
- Microscopy
- Molecular diagnostics (qPCR)

Routinely used techniques are providing info on a small fraction of the microbiome and are difficult to couple to system performance.

Microbiome management today





- Help farmers **understand** the effect of operational actions on microbiomes.
- Provide timely insights.
- Provide info on potential **treatments** and their **expected effects**.

The KYTOS Approach: microbial fingerprinting



Small sample 1 mL of rearing water 500 mg of gut content

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Understandable microbiome metrics that connect to system performance





Case studies



Monitoring the health status of a system Detecting deviations indicative of poor performance



Evaluating farming practices *Biofilter cleaning*

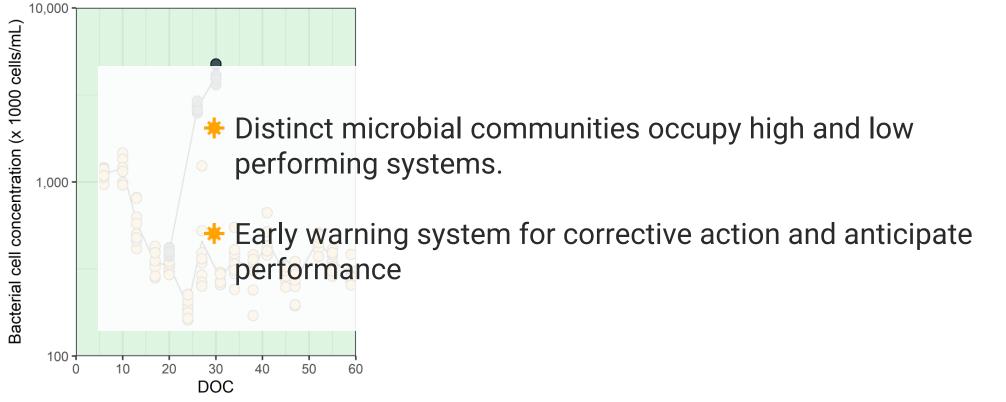


Identifying batch variations
Optimizing live feed preparation

Monitoring the health status of a system

Detecting deviations indicative of poor performance





Organism health

Bad

Good

Case studies



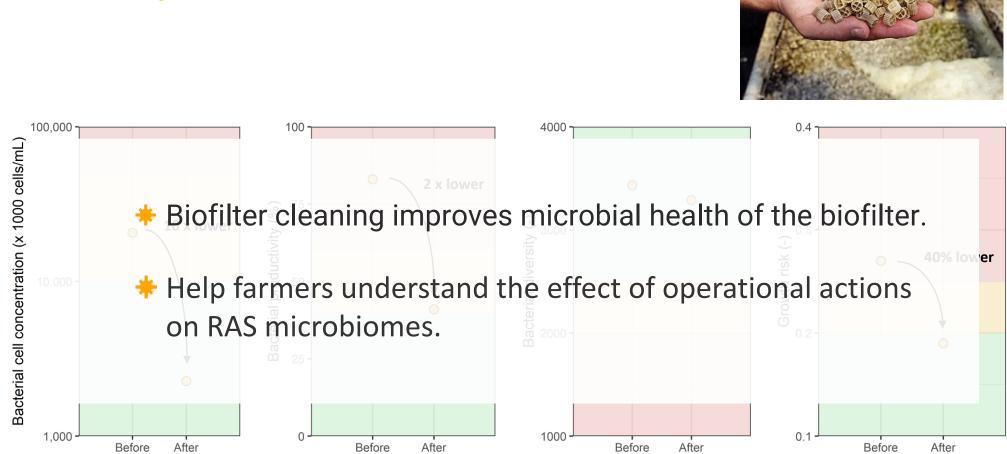
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Evaluating farming practices *Biofilter cleaning*



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Evaluating farming practices

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Case studies



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Evaluating farming practices *Biofilter cleaning*

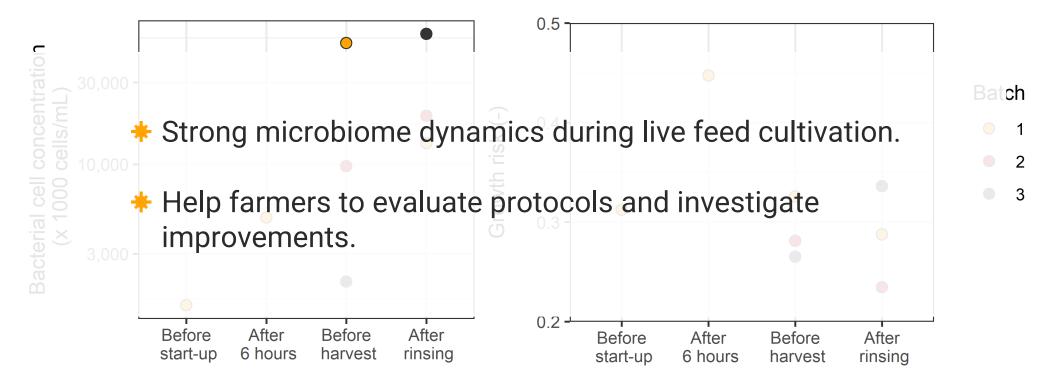


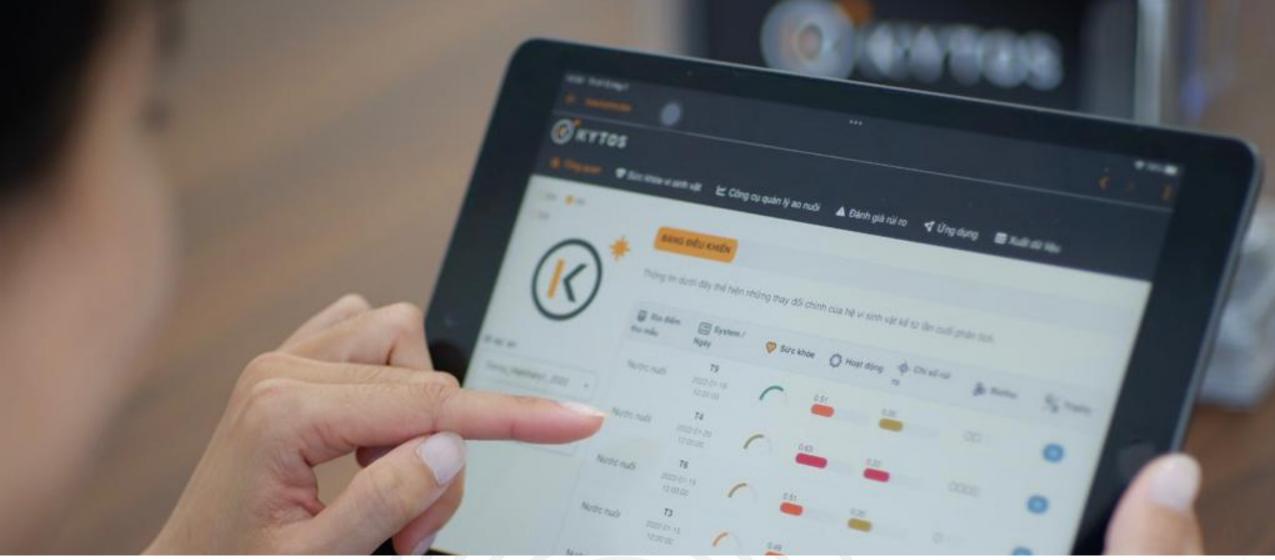
Identifying batch variations Optimizing live feed preparation

Identifying batch variations

Optimizing live feed preparation







Discover how we are revolutionizing microbiome management: visit us at booth 8!

KYTOS

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