

Recent research activities and results on the reproductive cycle management in zander at NAIK HAKI

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Perch
Zander

Percidae

Yellow Perch
Walleye
Saugeye



Zander – *Sander lucioperca*

Meat



Angling



30 k tons

Only 1 – 2 k tons from aquaculture

Natural reproductive cycle

2016-2017



2017-2018

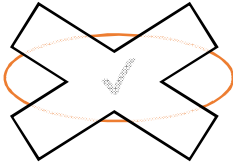


Control of the reproductive cycle

Vitellogenesis

- Partial 
- Full 

Final oocyte maturation

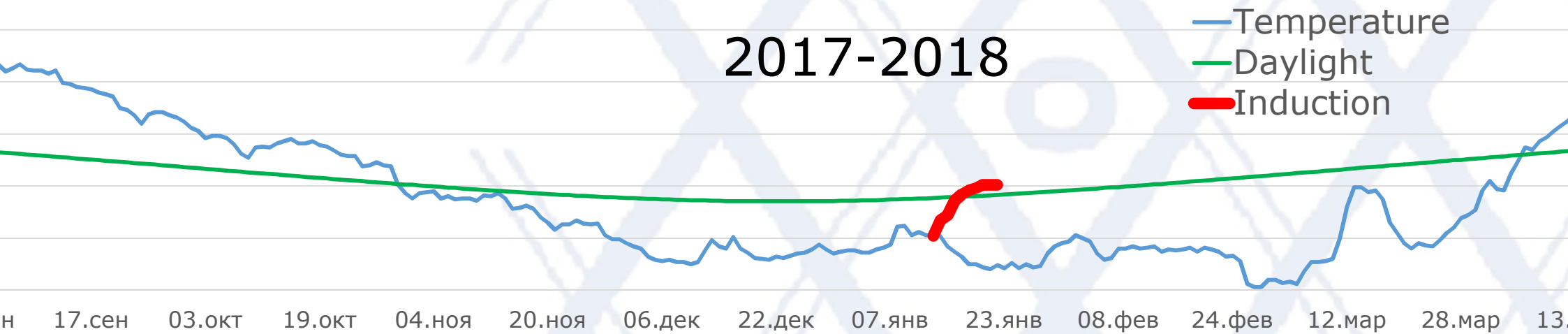
- Partial 
- Full 

Partial control of vitellogenesis

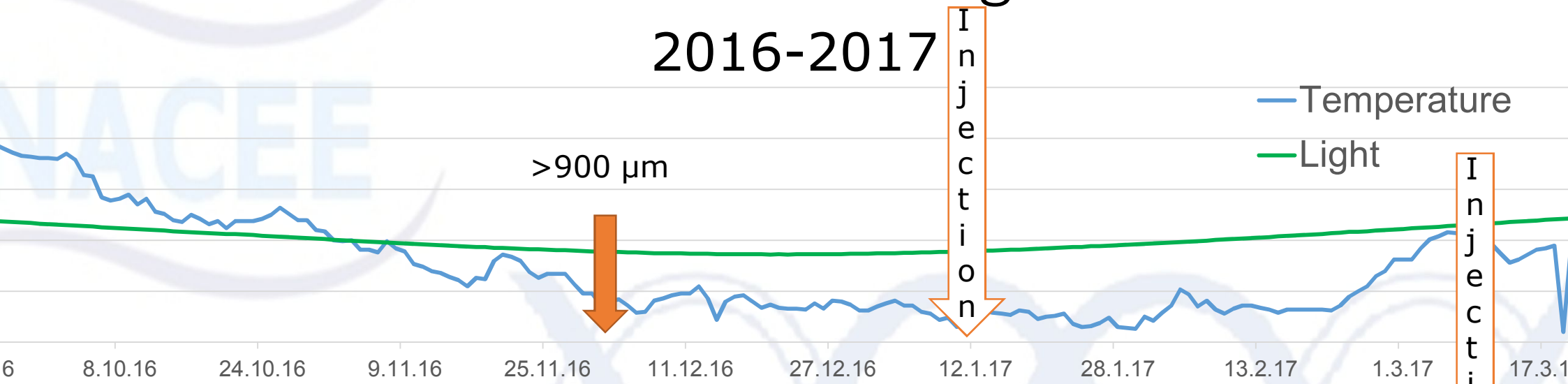
2016-2017



2017-2018



Full control of vitellogenesis 2016-2017



Photothermal induction 2017

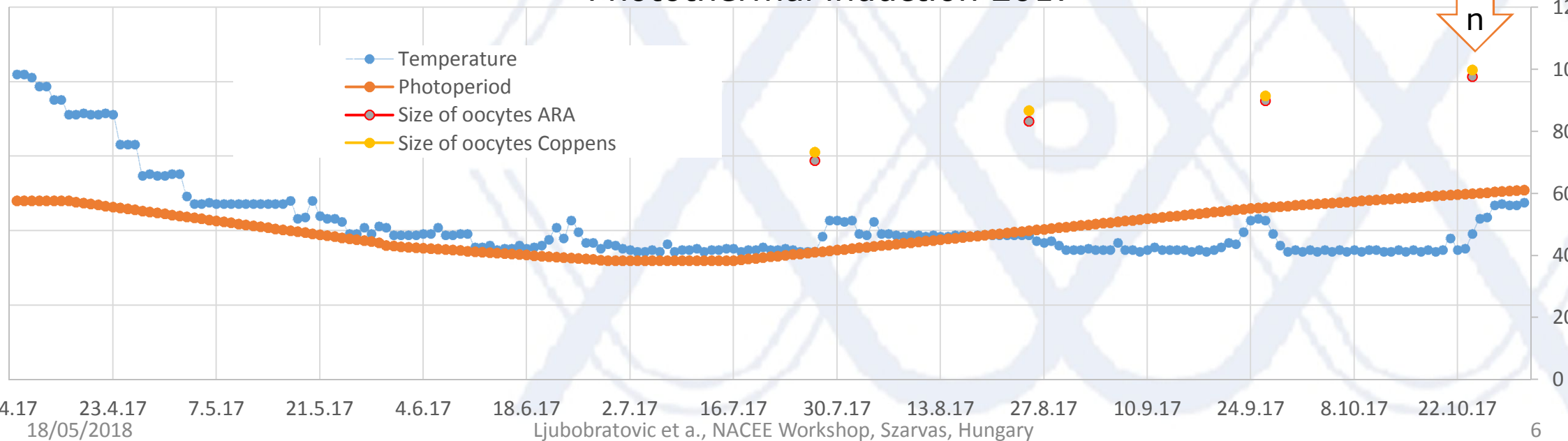


Photo-thermal induction 2017

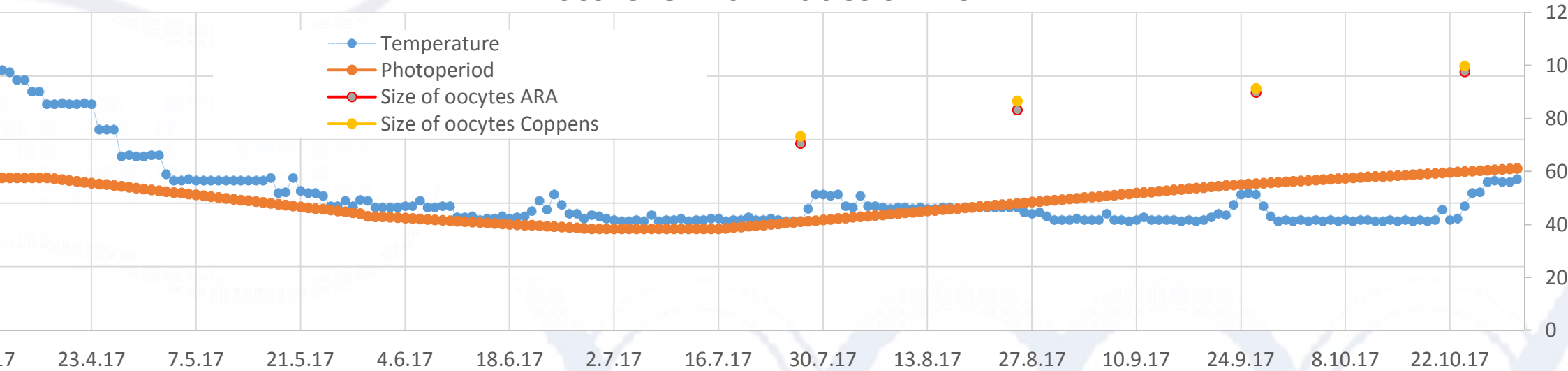
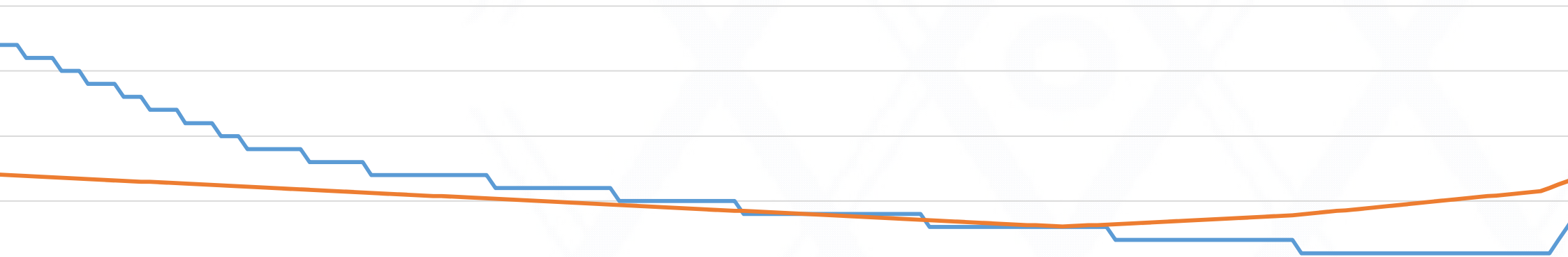
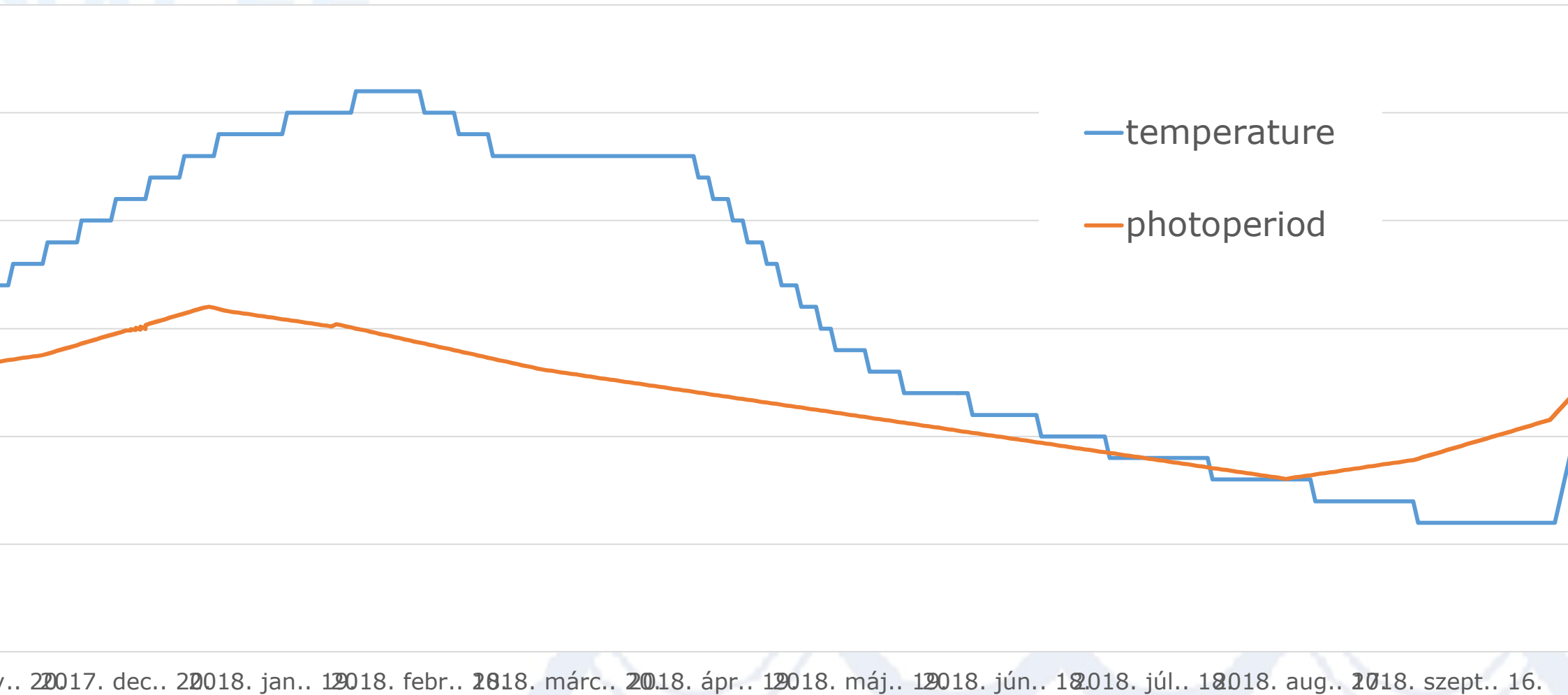
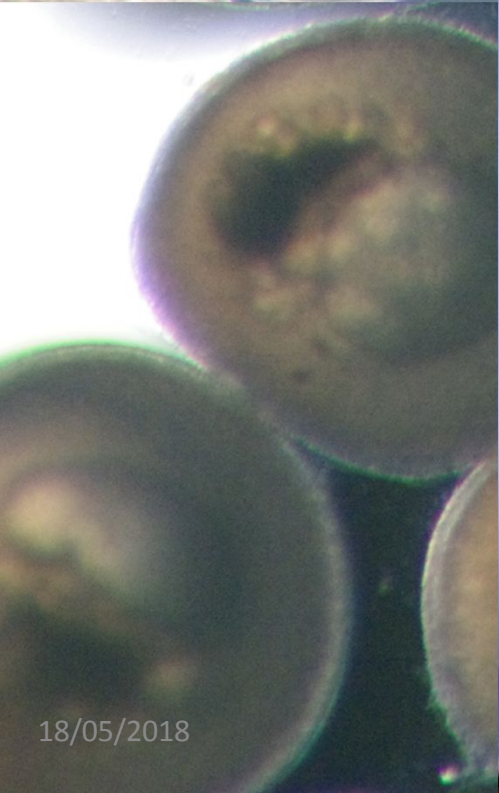
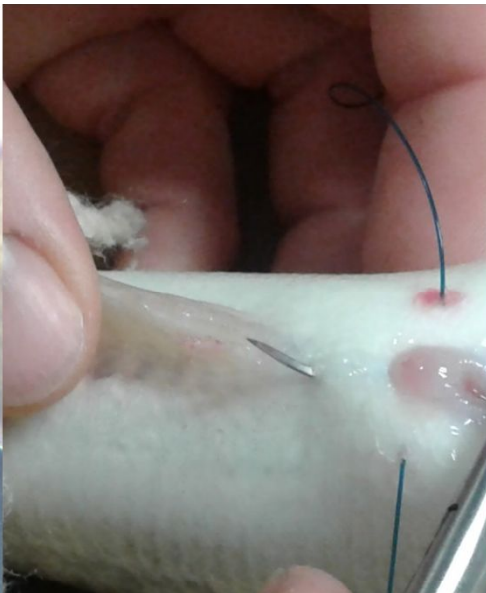
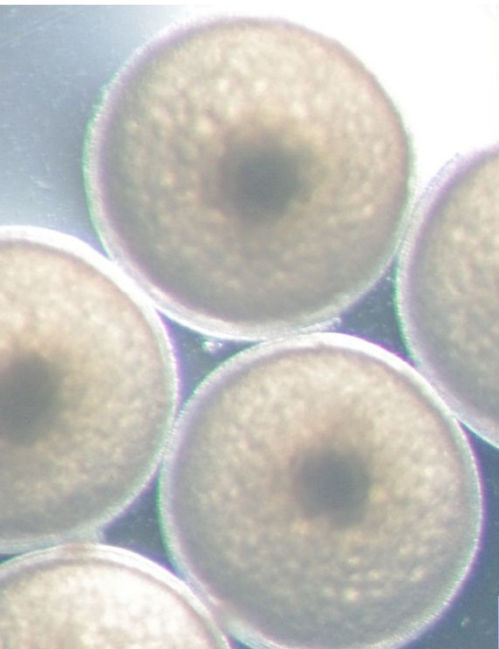


Photo-thermal induction 2018



Programming





Full control of final oocyte maturation

Partial control of vitellogenesis:

L6 – hCG - $20.2 \pm 22.4 \%$

L7 – hCG vs. sGnRHa - $36.8 \pm 30.0 \%$ vs. $65.9 \pm 11.6\%$

L8 – sGnRHa old vs new method - $79.5 \pm 2.7 \%$ vs. $79.7 \pm 12.6 \%$

Full control of vitellogenesis

L7 – sGnRHa month difference - $28.7 \pm 13.1 \%$ and $42.6 \pm 19.1 \%$

L8 - ?

The background features a large, faint, light blue 'NACEE' logo on the left side. Below it, there are decorative wavy lines. A large, faint, light blue geometric pattern, resembling a series of interlocking loops or a stylized 'X' pattern, covers the lower half of the slide.

What now?

Improve, develop, transmit

Thank you!