

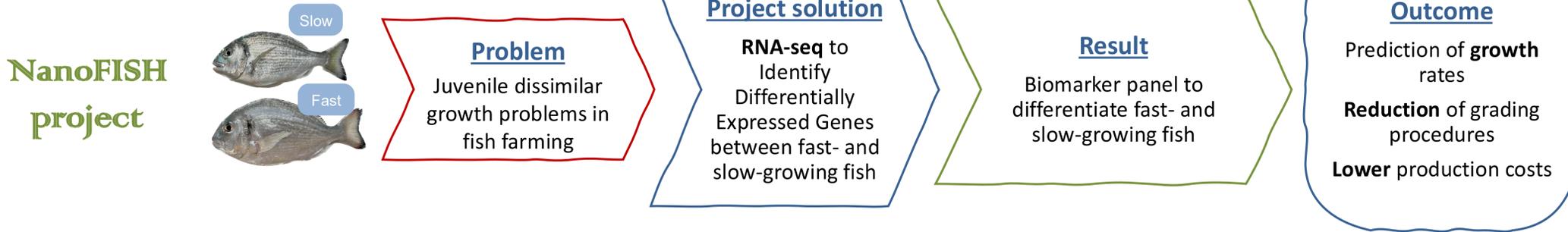
# Uncovering Growth Variability in Gilthead Seabream (*Sparus aurata*) through Muscle Transcriptomic Profiling

Morgana Angelo<sup>1\*</sup>, Marisa Barata<sup>2</sup>, Mafalda Rocha<sup>1</sup>, Pedro Pousão-Ferreira<sup>1,2</sup>, Iris A.L. Silva<sup>1#</sup>, Cátia Lourenço-Marques<sup>1,2#</sup>

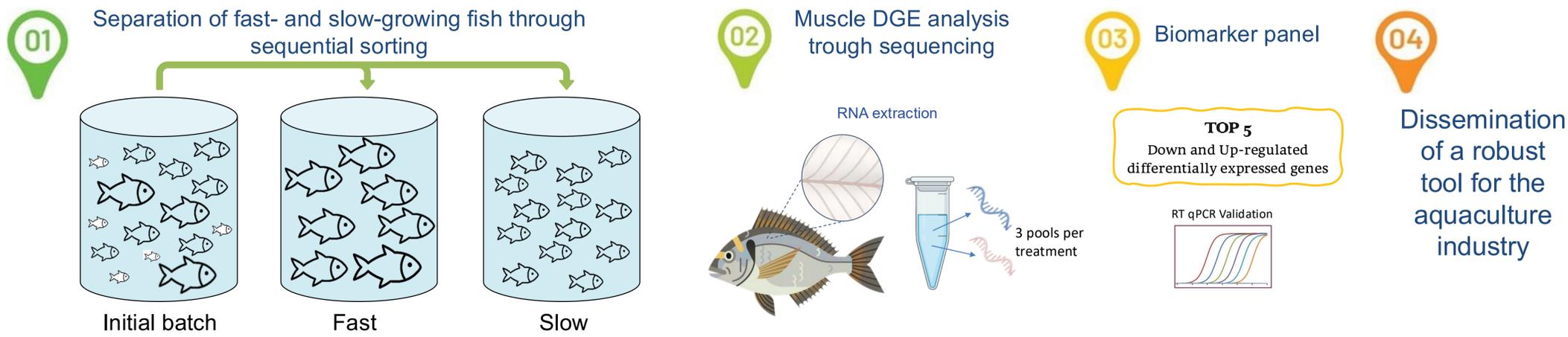
# These authors contributed equally. \* morgana.angelo@s2aquacolab.pt



## Overview

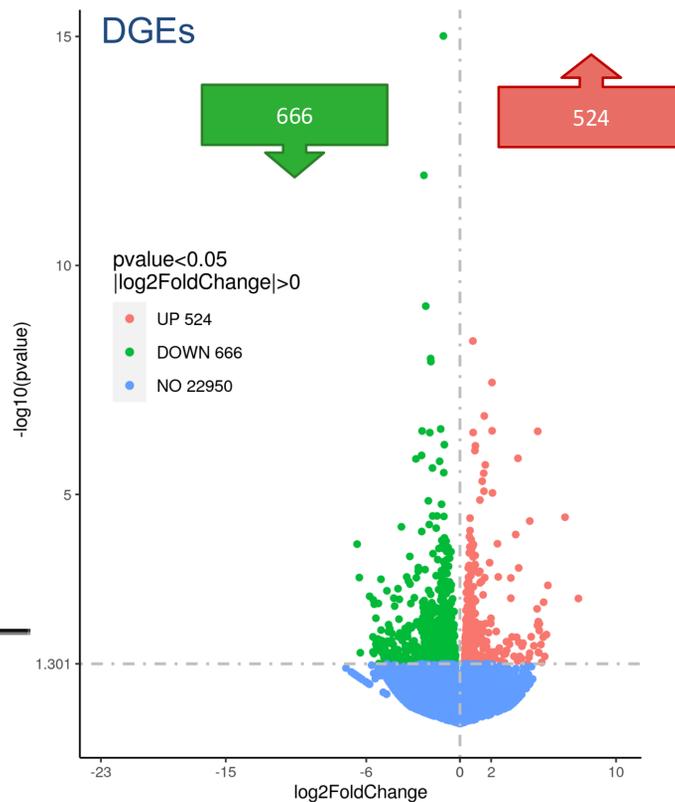
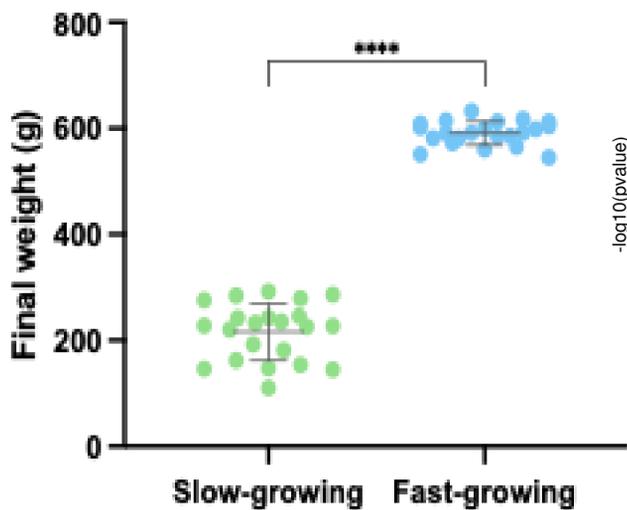


## Methodology



## Results

Growth



TOP 5		
<i>tmprss9</i>	Muscle tissue remodelling	Reduced ECM stiffness
<i>nlrp12</i>	Suppress excessive inflammation	Protein synthesis
<i>dpy30</i>	Marker of active transcription	Protein synthesis
<i>ctxn3</i>	High metabolic efficiency	ECM interactions, immune responses
<i>znf608</i>	High metabolic efficiency	Metabolic signalling

## Final remarks

- Key genes and regulatory networks linked to **growth performance** were identified
- **Potential** biomarkers for predicting growth rate in aquaculture

