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## Development of an Adverse Outcome Pathway (AOP)

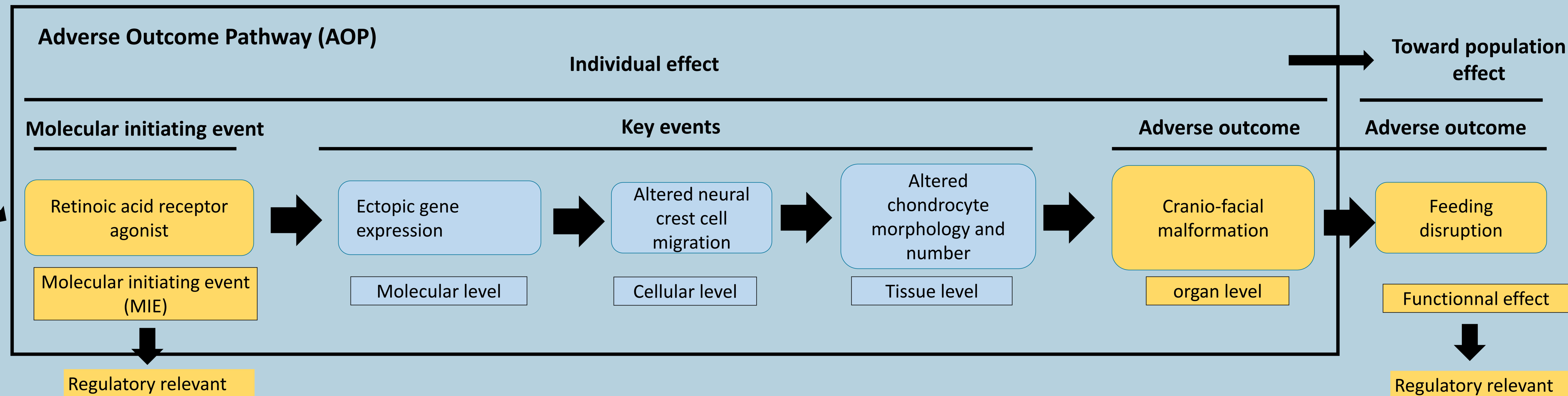
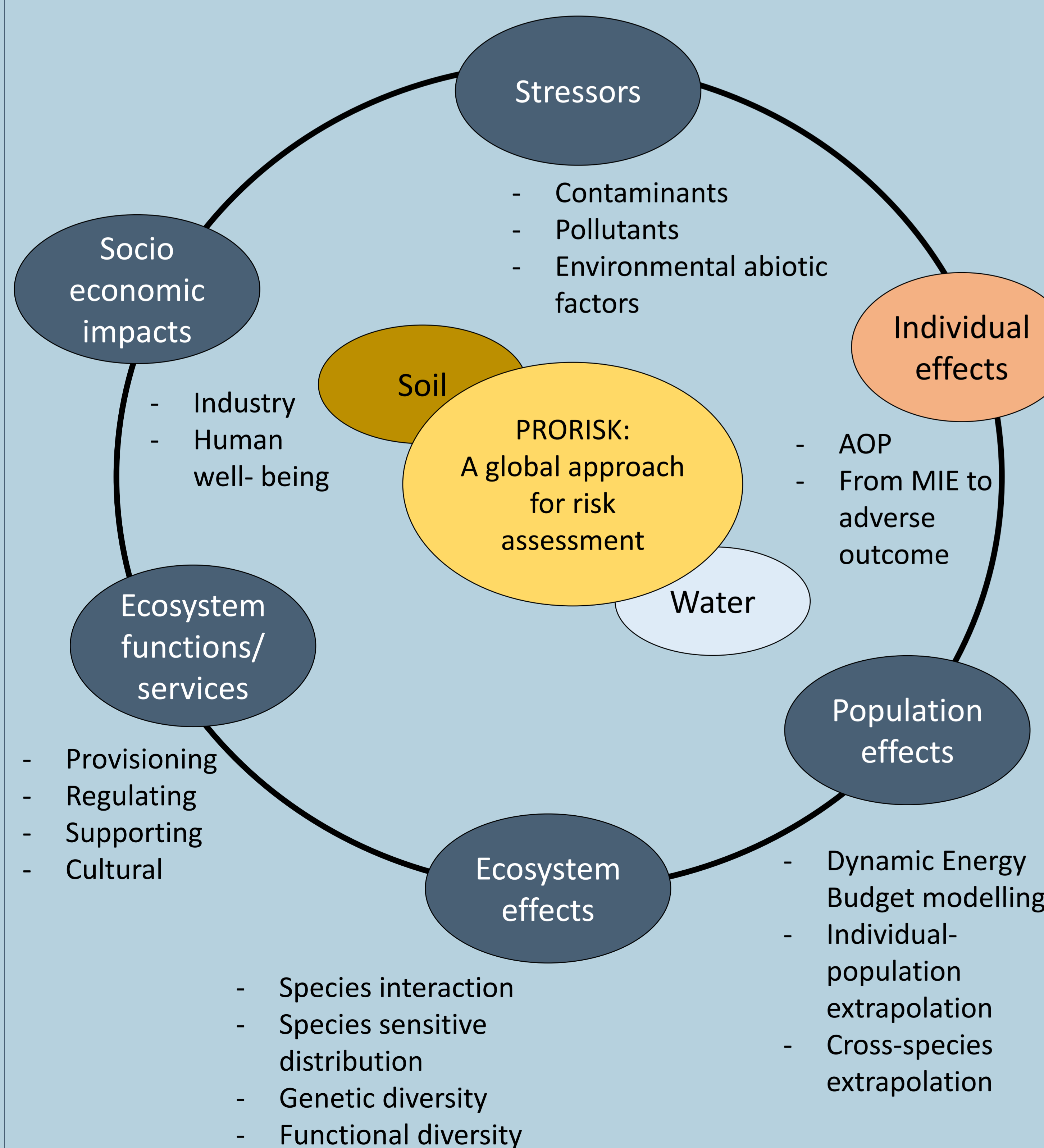


Figure 1. Development of an adverse outcome pathway linking retinoid disruption to craniofacial malformation according to literature review

## PRORISK: a novel approach for chemical risk assessment



PRORISK is an International Training Network under European grant Horizon 2020. The network includes 15 PhD student in several European Universities. The project introduces a novel global approach for **risk assessment** by emphasizing **ecosystem benefits**. (Fig. 2)

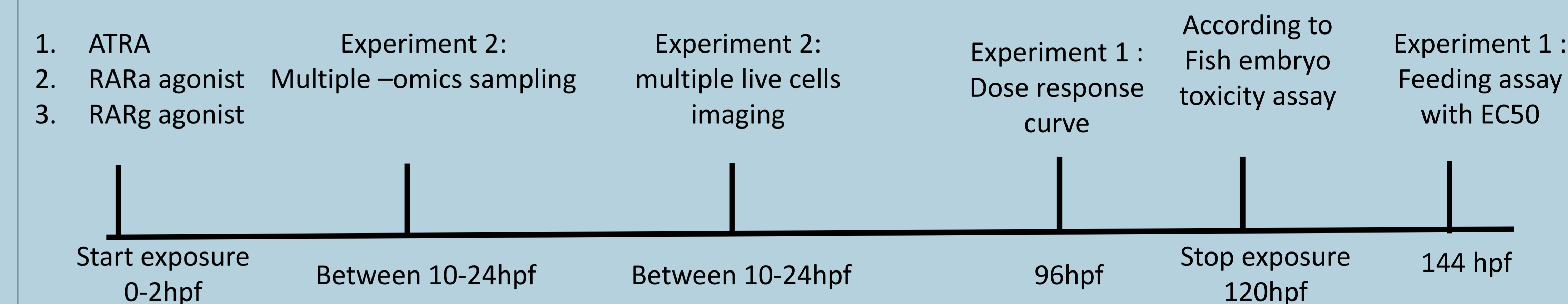
PRORISK approach aims to implement two concepts in risk assessment: **adverse outcome pathway (AOP)** and **ecosystem services**.

**My project** focus on developing an understudied endocrine disruption AOP : the retinoid signaling. I will investigate the link between interference of **retinoid signaling, craniofacial malformation and feeding disruption in zebrafish early development**. Impaired early development together with impaired feeding behavior would affect offspring survival at population level.

Specifically, I will provide evidence of the identified key event relationships at different biological level : from molecular initiating event (MIE) to Adverse Outcome, i.e. cranio-facial malformation and feeding disruption. (Fig. 1)

## Experimental design

### Exposure plan



### Methods

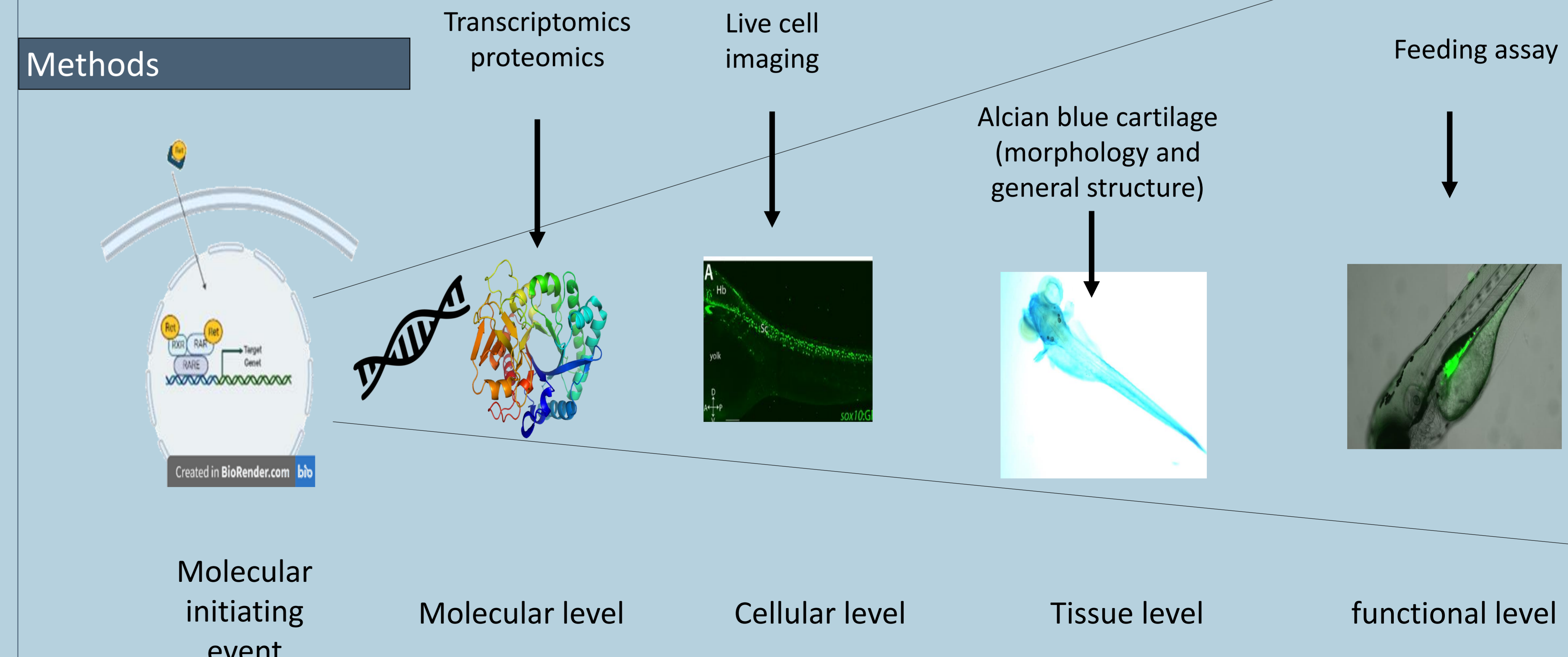


Figure 3. Schematic representation of experimental design

Figure 2. Schematic representation of PRORISK approach