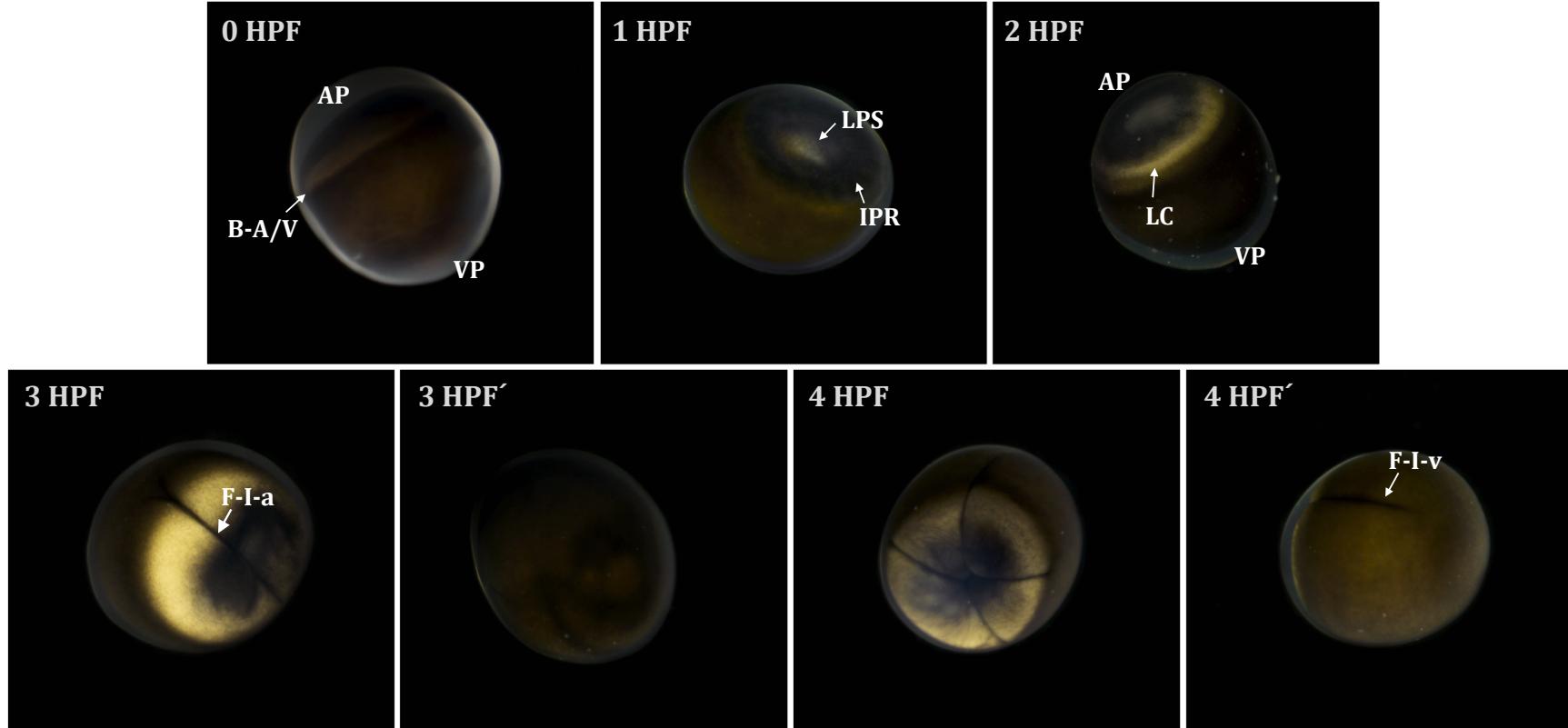


Supplementary Figure S1.

Photographic images for developmental stages of Russian sturgeon (*Acipenser gueldenstaedtii*) embryos, incubated at 19 °C

Early cleavages-I



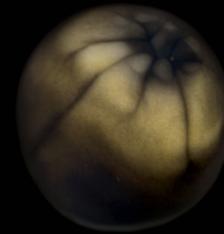
- **AP:** animal pole
- **VP:** vegetal pole
- **B-A/V:** boundary between the animal and vegetal areas
- **LPS:** light polar spot

- **IPR:** intensely pigmented ridge
- **LC:** light crescent
- **F-I-a:** first cleavage furrow at animal hemisphere
- **F-I-v:** first cleavage furrow at vegetal hemisphere

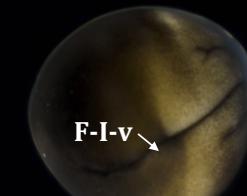
Early cleavages-II

- **F-I-v:** first cleavage furrow at vegetal hemisphere
- **AB:** animal blastomeres
- **VB:** vegetal blastomeres

4.5 HPF



4.5 HPF'



5 HPF (1)



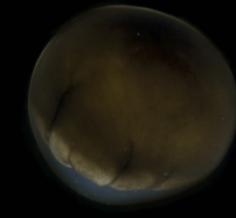
5 HPF (1)'



5 HPF (2)



5 HPF (2)'



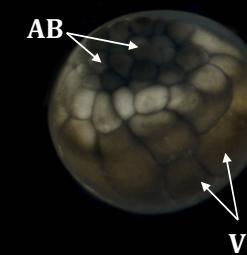
6 HPF



7 HPF (1)



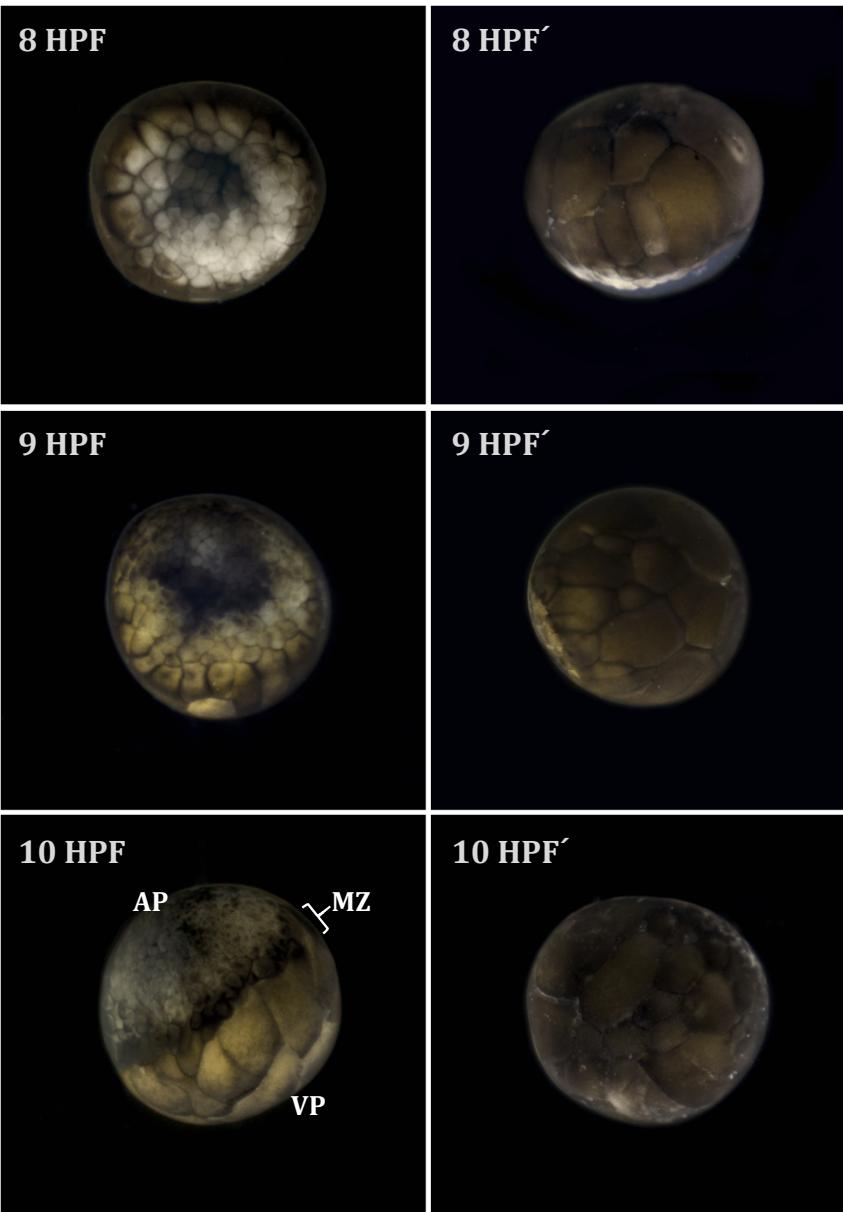
7 HPF (2)



7 HPF (2)'

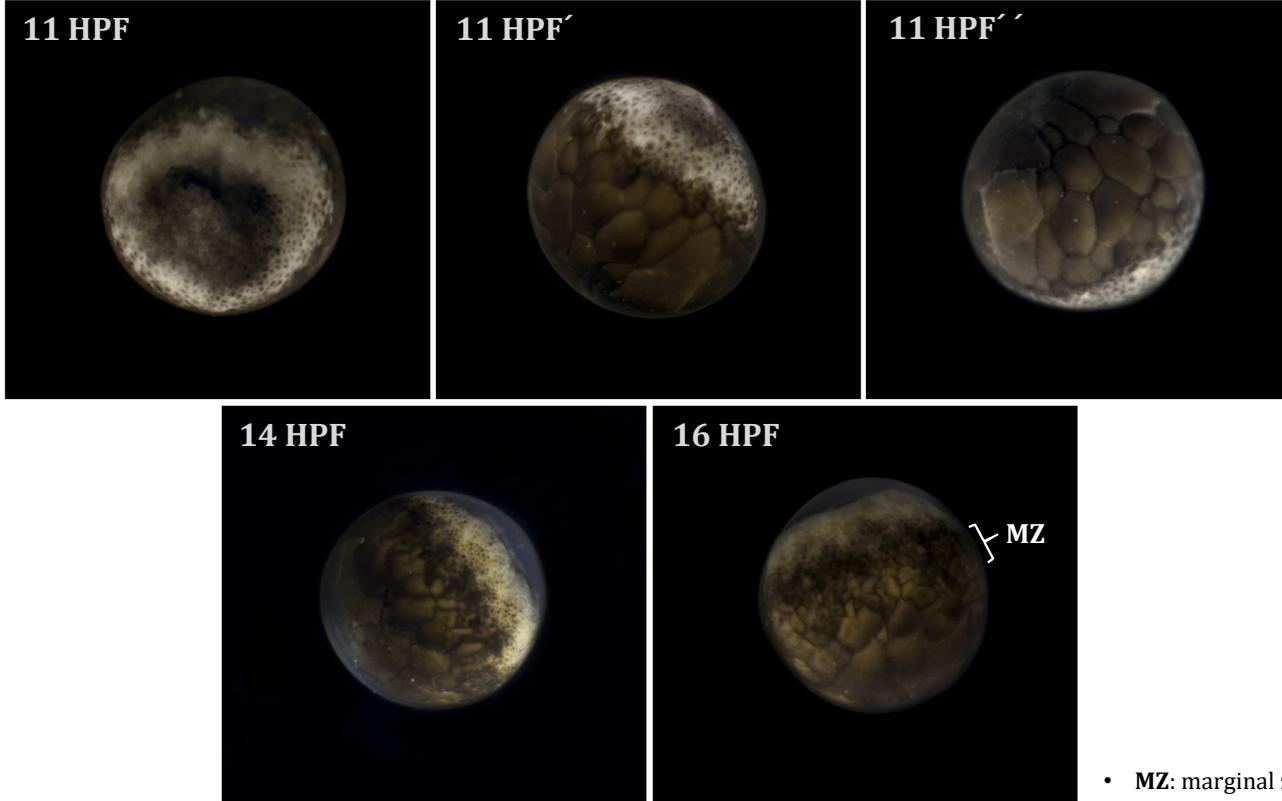


Late phase of cleavages

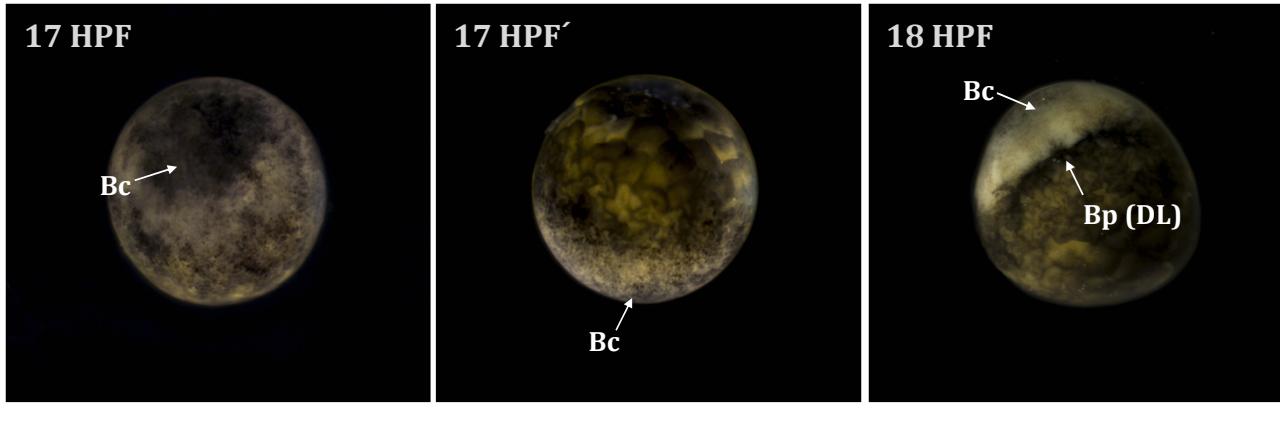


- AP: animal pole
- BP: vegetal pole
- MZ: marginal zone

Early blastula



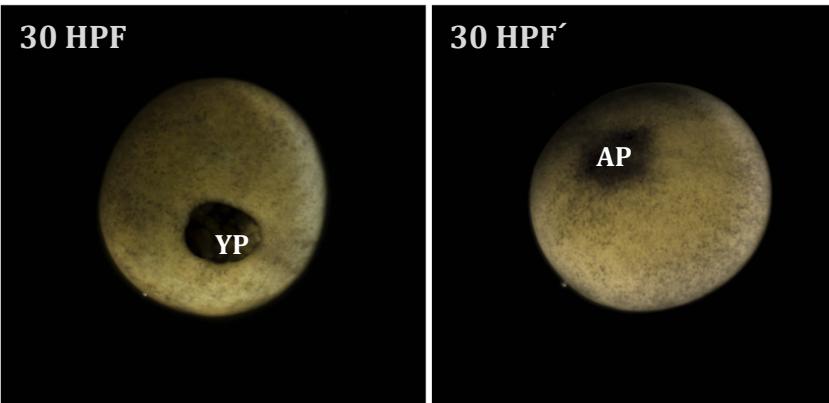
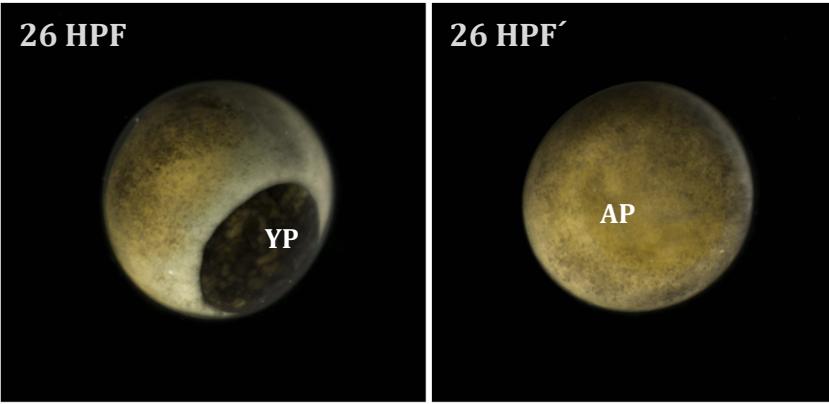
Late blastula to onset of gastrulation



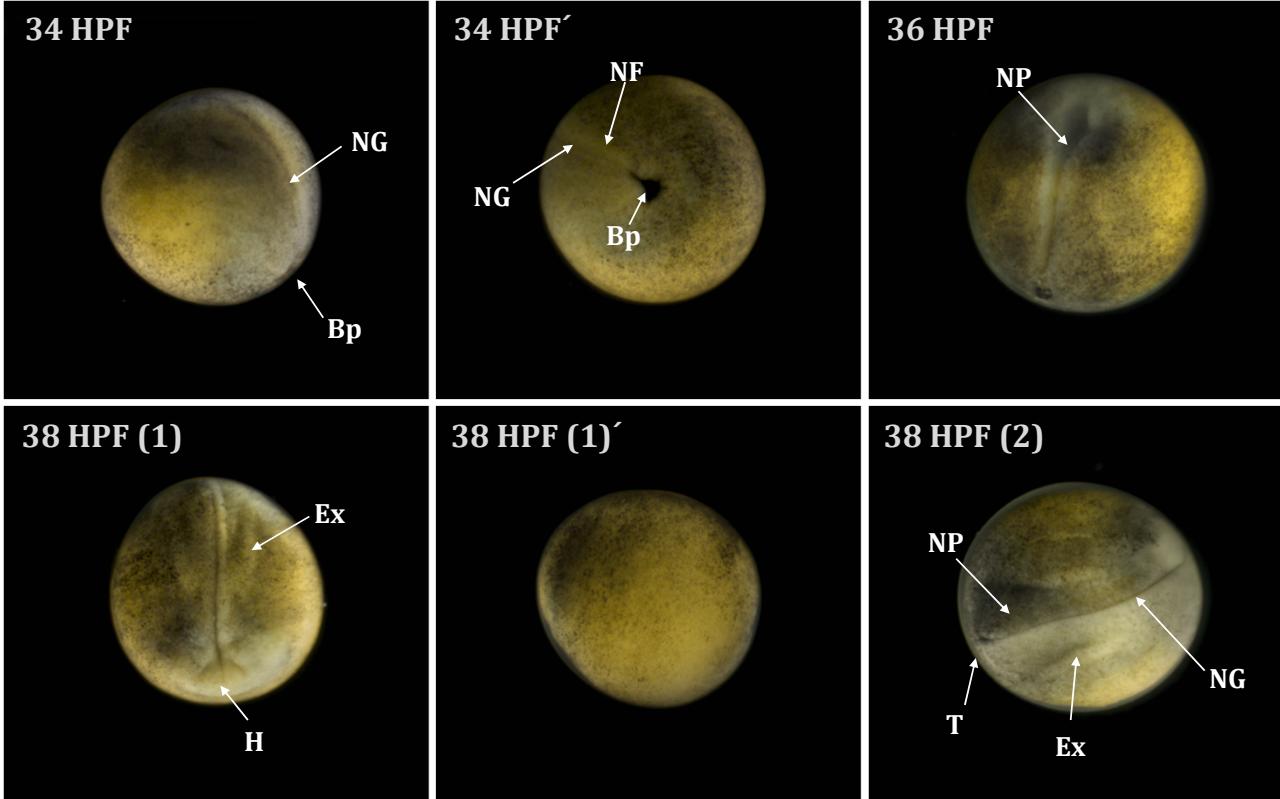
Gastrulation (epiboly cover)



- YP: yolk plug
- AP: animal pole



Early neurulation

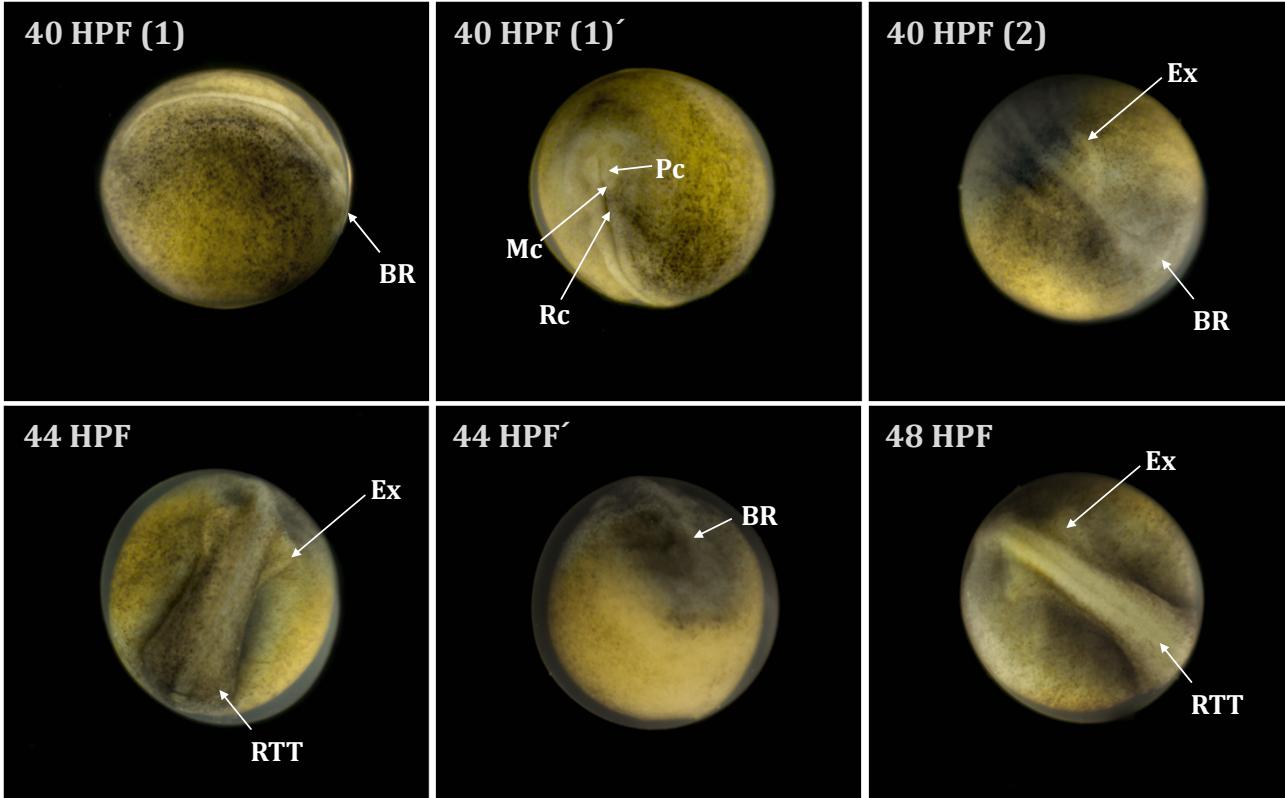


- NG: neural groove
- Bp: blastopore

- NF: neural fold
- NP: neural plate

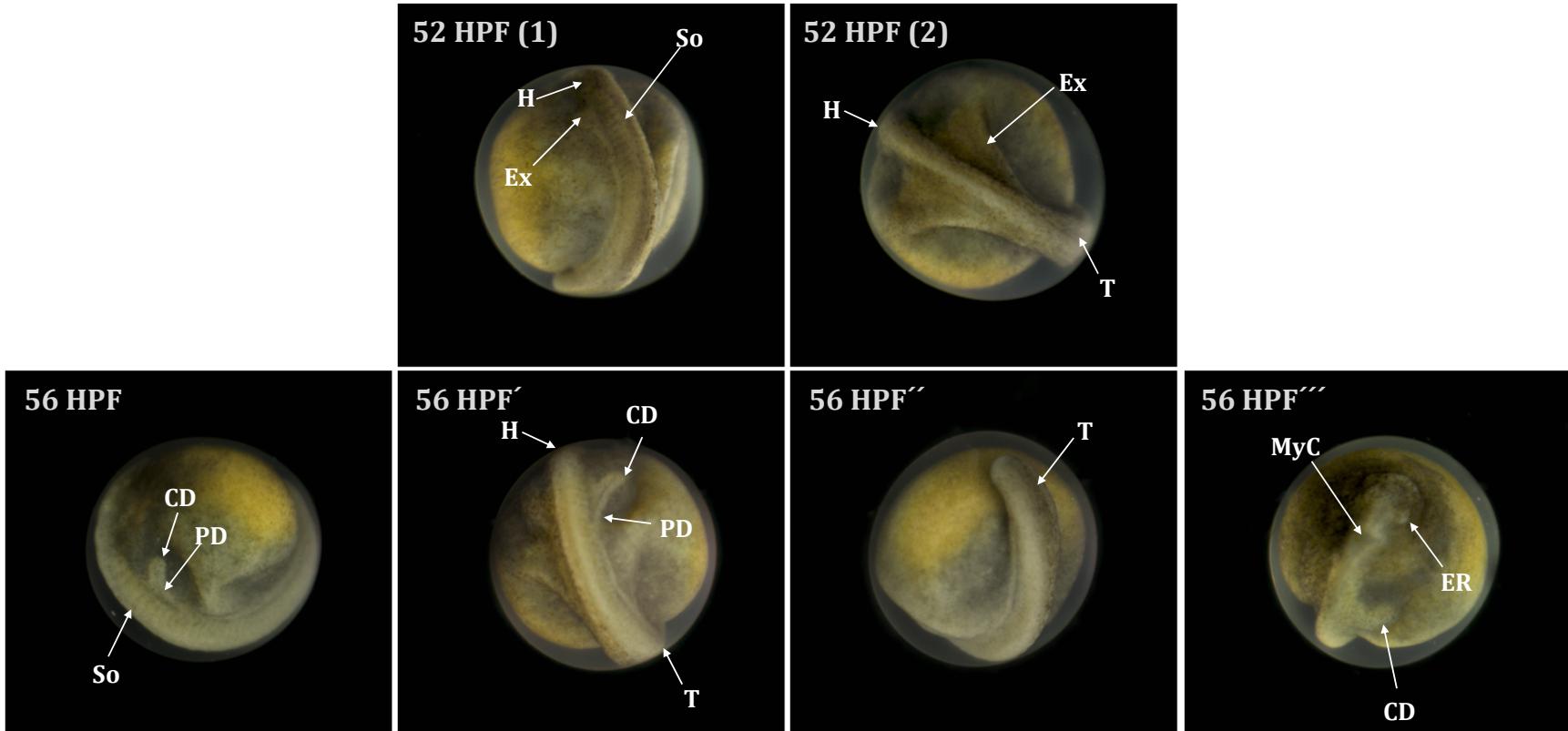
- Ex: rudiment of the excretory system
- H: head region
- T: tail region

Late neurulation



- **Pc:** prosencephalon
- **Mc:** mesencephalon
- **Rc:** rhombencephalon
- **BR:** brain rudiment
- **Ex:** rudiment of the excretory system
- **RTT:** rudiment of the posterior trunk and tail region

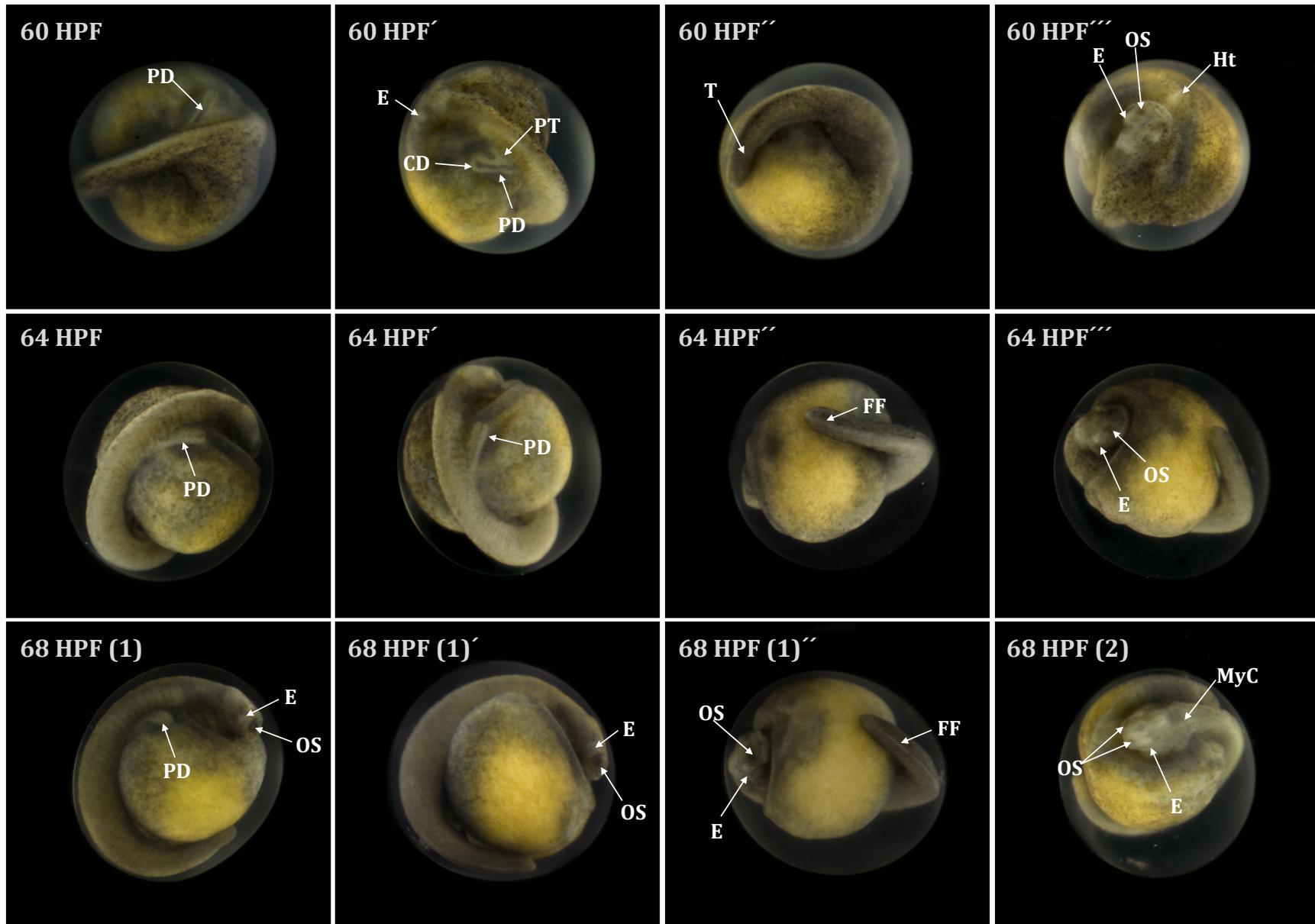
Morphogenesis of organs-I



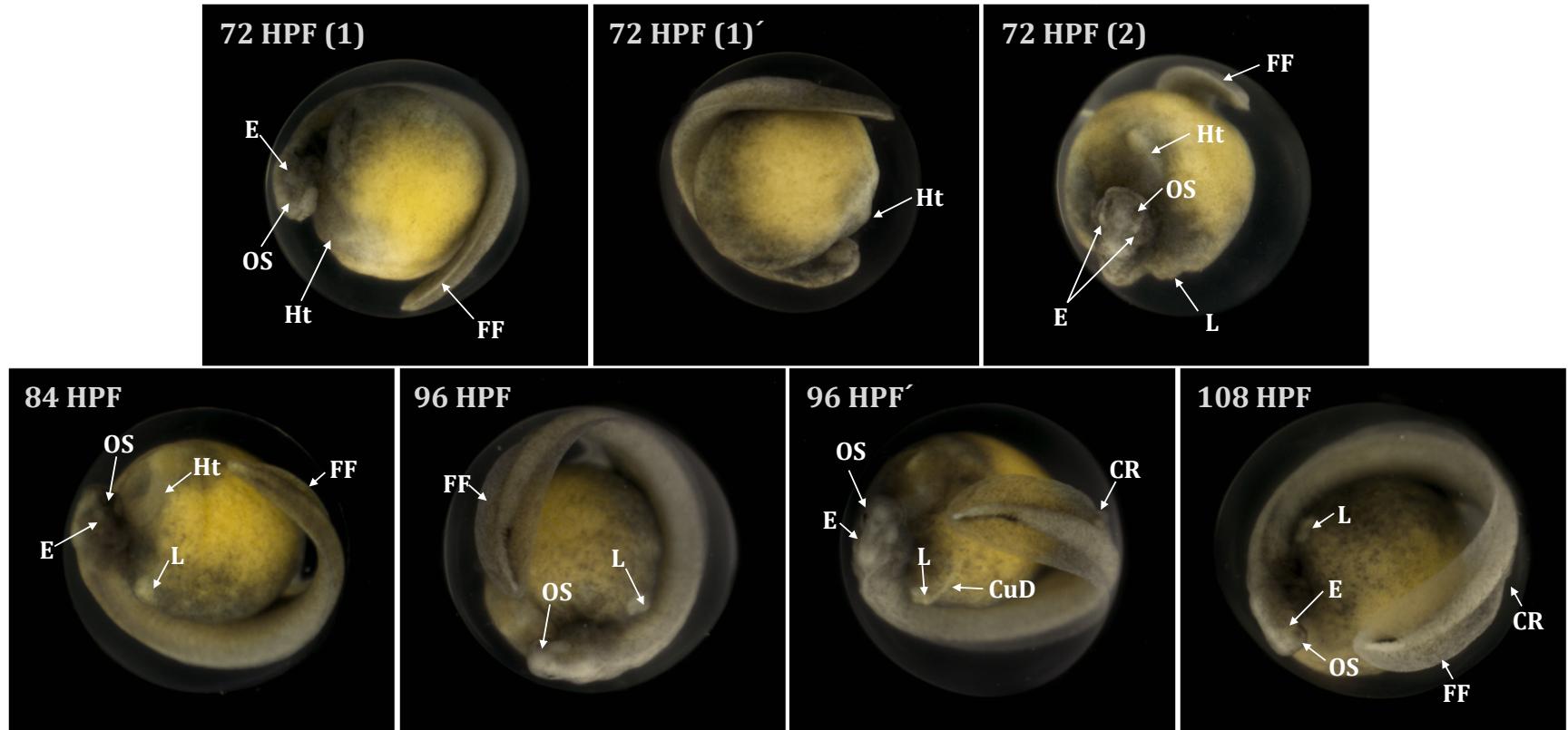
- H: head
- So: somite
- T: tail
- CD: collecting part of the pronephric duct
- PD: pronephric duct
- MyC: myelencephalon cavity
- ER: eye rudiment

Morphogenesis of organs-II

- PD: pronephric duct
- E: eye
- CD: collecting part of the pronephric duct
- PT: pronephric tubules
- T: tail
- OS: olfactory sac
- Ht: heart
- FF: (rudimentary) fin fold
- Myc: myelencephalon cavity



Morphogenesis of organs-III



- E: eye
- OS: olfactory sac
- Ht: heart
- FF: fin fold
- L: loop formed by the anterior part of the pronephric duct
- CuD: duct of Cuvier
- CR: cloaca rudiment

Pre-hatching stage