

Publication list

March 2023

2023

- Harasimov et al., Actin-driven chromosome clustering facilitates fast and complete chromosome capture in mammalian oocytes
Nature Cell Biology
- Olivetta et al., The nuclear to cytoplasmic ratio drives cellularization in the close animal relative *Sphaeroforma arctica*
bioRxiv

2022

- Ozelci et al., Deconstructing body axis morphogenesis in zebrafish embryos using robot-assisted tissue micromanipulation.
Nature Communications
- Ishihara et al., Topological morphogenesis of neuroepithelial organoids.
Nature Physics
- de Medeiros et al., Multiscale light-sheet organoid imaging framework
Nature Communication
- Naganathan et al., Left-right symmetry of zebrafish embryos requires somite surface tension.
Nature
- So et al., Mechanism of spindle pole organization and instability in human oocytes.
Science
- Knoblochova et al., CHK1-CDC25A-CDK1 regulate cell cycle progression in early mouse embryos to protect genome integrity
bioRxiv
- Pelzer et al., Ectopic activation of the polar body extrusion pathway triggers cell fragmentation in preimplantation embryos
bioRxiv

2021

- Yang et al., Cell fate coordinates mechano-osmotic forces in intestinal crypt formation.
Nature cell Biology
- He et al., Lineage recording in human cerebral organoids
Nature Methods
- Mailand et al., Tissue Engineering with Mechanically Induced Solid-Fluid Transitions.
Ad. Materials
- Blengini et al., Aurora kinase A is essential for meiosis in mouse oocytes.
Plos Genetics
- Rohde et al., Cell-autonomous generation of the wave pattern within the vertebrate segmentation clock
bioRxiv

2020

- Rossi et al., Embryonic organoids recapitulate early heart organogenesis.
Cell Stem Cell

2019

- Serra et al., Self-organization and symmetry breaking in intestinal organoids development.
Nature
- Dumortier et al., Fracking and Ostwald ripening position the lumen of the mouse blastocyst.
Science
- Welling et al., Primed Track, high-fidelity lineage tracing in mouse pre-implantation embryos using primed conversion of photoconvertible proteins.
Elife
- Arribat et al., Mitochondria in Embryogenesis: An Organellogenesis Perspective.
Frontiers in Cell and Developmental Biology