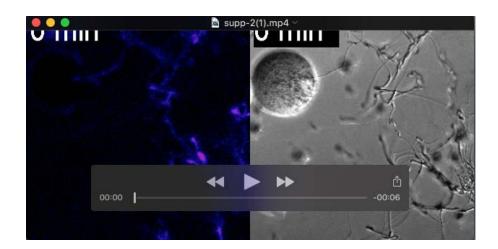
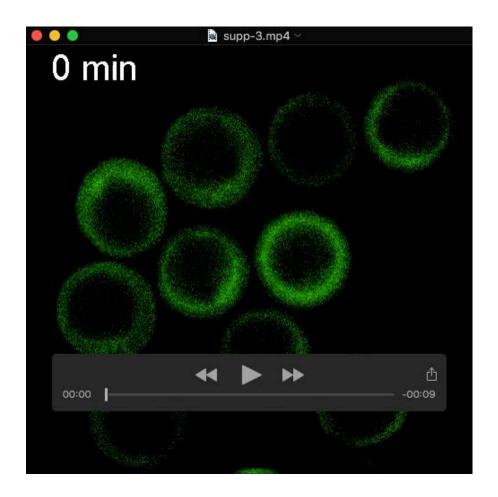


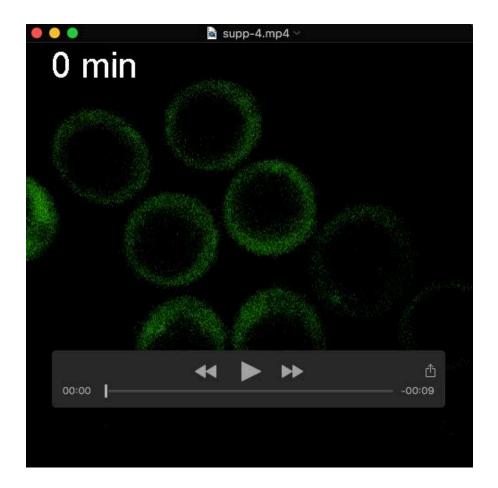
Figure S1. *In vitro* fertilized eggs stained with LCA-FITC. Eggs were inseminated with capacitated spermatozoa at a final concentration of $1-5 \times 10^6$ per ml for 2 hours. After washing, embryos were incubated in CZB medium supplemented with 5 µg/ml LCA-FITC for additional 5 hours. A. 1-cell embryo stained with LCA-FITC (live cell, confocal images); arrow heads indicate polar bodies. B. 1 cell embryo stained with LCA-FITC after fixation (fixed cell, confocal images and Z-projection of 3D reconstruction). Blue, DNA stained with Hoechst 3342. DIC, differential interference contrast.



Movie 1. In vitro fertilization in presence of LCA-FITC: Confocal time lapse (left) and Differential interference contrast (DIC, right) microscopy of IVO oocytes incubated with mouse sperm in presence of fluorescenc lectin LCA-FITC.

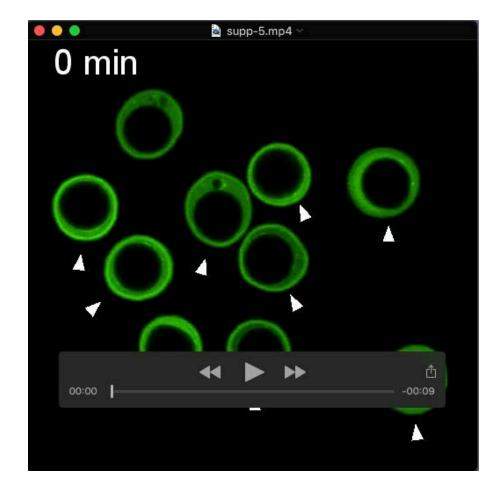


Movie 2. Live imaging of cortical reaction in ovulated oocytes: experimental condition. Epifluorescence time lapse of *in vivo* matured oocytes incubated with SrCl₂ in presence of fluorescent lectin LCA-FITC.

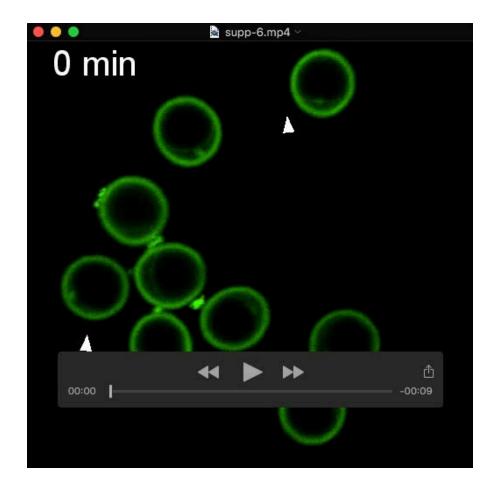


 ${\bf Movie~3.~Live~imaging~of~cortical~reaction~in~ovulated~oocytes:~control~condition.}$

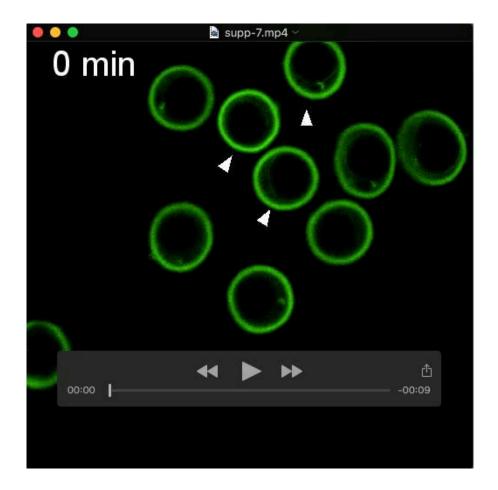
Epifluorescence time lapse of *in vivo* matured oocytes incubated without SrCl₂ in presence of LCA-FITC.



Movie 4. Live imaging of cortical reaction in ovulated oocytes (IVO). Confocal time lapse of IVO oocytes incubated with SrCl₂ and LCA-FITC. Arrowheads indicate responding cells.



Movie 5. Live imaging of cortical reaction in CZB *in vitro* matured oocytes (CZB IVM). Confocal time lapse of CZB IVM oocytes incubated with SrCl₂ and LCA-FITC. Arrowheads indicate responding cells.



Movie 6. Live imaging of cortical reaction in G-IVF *in vitro* matured oocytes (G-IVF IVM). Confocal time lapse of G-IVF IVM oocytes incubated with SrCl₂ and LCA-FITC. Arrowheads indicate responding cells.