

Materials List for

# Capturing Cytoskeleton-Based Agitation of The Mouse Oocyte Nucleus Across Spatial Scales

Gaëlle Letort<sup>1,2</sup>, Philippe Mailly<sup>1</sup>, Adel Al Jord<sup>1,3</sup>, Maria Almonacid<sup>1</sup>

<sup>1</sup>Center for Interdisciplinary Research in Biology (CIRB), Collège de France, CNRS, INSERM, Université PSL <sup>2</sup>Department of Developmental and Stem Cell Biology, Institut Pasteur, Université de Paris Cité, CNRS <sup>3</sup>Centre for Genomic Regulation (CRG), The Barcelona Institute of Science and Technology

### Corresponding Authors

Adel Al Jord  
adel.aljord@crg.eu

Maria Almonacid  
maria-elsa.almonacid@college-de-france.fr

### Citation

Letort, G., Mailly, P., Al Jord, A., Almonacid, M. Capturing Cytoskeleton-Based Agitation of The Mouse Oocyte Nucleus Across Spatial Scales. *J. Vis. Exp.* (2023), e65976, doi:10.3791/65976 (2024).

### Date Published

January 12, 2024

### DOI

10.3791/65976

### URL

jove.com/video/65976

### Materials

| Name                       | Company                             | Catalog Number | Comments                                                     |
|----------------------------|-------------------------------------|----------------|--------------------------------------------------------------|
| Bovine Serum Albumin (BSA) | Sigma                               | A3311          |                                                              |
| CSU-X1-M1 spinning disk    | Yokogawa                            |                |                                                              |
| DMI6000B microscope        | Leica                               |                |                                                              |
| Femtojet microinjector     | Eppendorf                           |                |                                                              |
| Fiji                       |                                     |                |                                                              |
| Filter wheel               | Sutter Instruments Roper Scientific |                |                                                              |
| Fluorodish                 | World Precision Instruments         | FD35-100       |                                                              |
| Metamorph software         | Universal Imaging,                  |                | version 7.7.9.0                                              |
| Mineral oil                | Sigma Aldrich                       | M8410-1L       |                                                              |
| NanoDrop 2000              | Thermo Scientific                   |                |                                                              |
| OF1 and C57BL/6 mice       | Charles River Laboratories          |                |                                                              |
| Poly(A) Tailing kit        | Thermo Fisher                       | AM1350         |                                                              |
| Retiga 3 CCD camera        | QImaging                            |                |                                                              |
| RNAeasy kit                | Qiagen                              | 74104          |                                                              |
| SC35 antibody              | Abcam                               | ab11826        | Nuclear speckle antibody; mouse IgG1 anti-SRSF2/SC35 (1:400) |
| SRSF2-GFP plasmid          | OriGene Technologies                | MG202528       | NM_011358                                                    |
| Stripper Micropipette      | XLAB Solutions                      |                | specialized for oocyte collection                            |
| T3 mMessage mMachine       | Thermo Fisher                       | AM1384         |                                                              |
| T7 mMessage mMachine       | Thermo Fisher                       | AM13344        |                                                              |
| Thermostatic chamber       | Life Imaging Service                |                |                                                              |
| Windows Excel              | Windows                             |                |                                                              |