

Materials List for:

# Chromatin Spread Preparations for the Analysis of Mouse Oocyte Progression from Prophase to Metaphase II

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## Materials

Name	Company	Catalog Number	Comments
10X Phosphate buffered saline (PBS) pH 7.4	Quality Biological	119-069-161	
60 mm x 15 mm petri dishes	Denville	T1106	
35mm x 12mm petri dishes	Denville	T1103	
Fine forceps	VWR	300-050	
Micro dissection scissors	Ted Pella	1340	
Dissecting scissors, sharp tip, 4 1/2"	VWR	82027-578	
Watch glass square 1 5/8	Carolina Biological Supply Company	742300	Autoclave before each use
Sucrose	Sigma	S8501	
Trisodium Citrate Dihydrate	Sigma	S1804	
EDTA	Sigma	E6758	
Trizma Base	Sigma	T1503	
1,4-Dithiothreitol (DTT)	Sigma	646563	Add to hypotonic buffer immediately before use
50x Protease Inhibitor	Roche	11873580001	Add to hypotonic buffer immediately before use
Turberculin syringe with needle (1cc, 27 G x 1/2 in)	Becton, Dickinson (BD)	309623	
Gold seal ultra frost glass slides (25X75mm, 1mm thick)	Thermo	3063-002	
Super PAP pen, large (liquid blocker)	Electron Microscopy Sciences (EMS)	71310	
16% Paraformaldehyde aqueous	Electron Microscopy Sciences (EMS)	15710	
Triton X-100	Sigma	T8787	Detergent in manuscript
Immuno stain moisture chamber	Evergreen	240-9020-Z10	
Coplin jars	Fisher	08-815	
Photo-flo 200	Electron Microscopy Sciences (EMS)	74257	Wetting agent in manuscript
Pregnant mare serum gonadotropin (PMSG)	Sigma	G4877	Store aliquots at -20C
Human chorionic gonadotropin (HCG)	Sigma	C0434	Store aliquots at -20C
PYREX Spot Plates with nine concave cavities	Fisher	13-748B	Autoclave before each use

Glass capillary	Fisher	22260943	For making oocyte collection needles
Brand Parafilm M	Sigma	BR701501	For making oocyte collection needles
Latex rubber tubing (3.2 mm inner diameter x 6.4 mm outer diameter)	Fisher	14-178-5B	For making oocyte collection needles
Latex rubber tubing (6.4 mm inner diameter x 11.1 mm outer diameter)	Fisher	14-178-5D	For making oocyte collection needles
Flexible silicone rubber nosepiece, hard plastic mouthpiece and 15 inches of latex tubing	Sigma	A5177-5EA	For making oocyte collection needles
Mitutoyo micrometer head	Mitutoyo	150-208	For making oocyte collection needles
Syringe 5 mL	BD Biosciences	309646	For making oocyte collection needles
Syringe filter 0.45 µm filter	Corning	431220	For making oocyte collection needles
Glass Pasteur Pipette 5 3/4"	Fisher	13-678-6A	For making oocyte collection needles
83 x 0.5 mm pipette tip	Denville	P3080	For making oocyte collection needles
α-MEM	Invitrogen	11415049	
Waymouth's media	Life Technologies	11220035	
Fetal bovine serum	Fisher	A3160602	
Bovine serum albumin (BSA)	Sigma	A3311	For oocyte culture media
500ml filter units 0.22µm	Denville	F5227	
Hyaluronidase	Sigma	H3506	
Tyrode's solution	Sigma	T1788	Store aliquots at -20C
Horse serum	Sigma	H-1270	For ADB/wash buffer
Bovine serum albumin (BSA)	Sigma	A1470	For ADB/wash buffer
VECTASHIELD antifade mounting medium with DAPI	Vector Labs	H-1200	
Microscope cover slides (22mmx60mm)	Fisher	12-544-G	
Clear nail polish	Amazon	N/A	
<b>Name</b>	<b>Company</b>	<b>Catalog Number</b>	<b>Comments</b>
<b>Microscopes</b>			
SteREO Discovery.V8	Zeiss	495015-0001-000	
Observer Z1	Zeiss		
<b>Name</b>	<b>Company</b>	<b>Catalog Number</b>	<b>Comments</b>
<b>Primary Antibodies</b>			
Mouse anti-MLH1	Life Technologies	MA5-15431	Dilution factor- 1:100
Rabbit anti-SYCP1	Life Technologies	PA1-16763	Dilution factor- 1:1000
Goat anti-SCP3	Santa Cruz	sc-20845	Dilution factor- 1:50
Human anti-centromere protein	Antibodies Incorporated	15-235	Dilution factor- 1:100
Rabbit anti- TOPOII	Abcam	ab109524	Dilution factor- 1:100
Mouse anti-Histone H4 (di methyl K20, tri methyl K20)	Abcam	ab78517	Dilution factor- 1:500
Rabbit anti-Rec8	Courtesy of Dr. Karen Schindler	N/A	Dilution factor- 1:10,000
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<b>Secondary Antibodies</b>			
Donkey anti-goat IgG (H+L) Alexa Fluor 568 conjugate	Thermo-Fisher Scientific	A-11057	Dilution factor- 1:500
Donkey anti-mouse IgG (H+L) Alexa Fluor 488 conjugate	Thermo-Fisher Scientific	A-21202	Dilution factor- 1:500
Donkey anti-rabbit IgG (H+L) Alexa Fluor 647 conjugate	Thermo-Fisher Scientific	A-31573	Dilution factor- 1:500
Goat anti-mouse IgG (H+L) Alexa Fluor 568 conjugate	Thermo-Fisher Scientific	A-11004	Dilution factor- 1:500
Goat anti-Human IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 488	Thermo-Fisher Scientific	A-11013	Dilution factor- 1:500
Goat anti-rabbit IgG (H+L) Alexa Fluor 568 conjugate	Thermo-Fisher Scientific	A-11011	Dilution factor- 1:500