

Materials List for:

Preparation of Meiotic Chromosome Spreads from Mouse Spermatocytes

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Materials

Name	Company	Catalog Number	Comments
Photo-Flo 200	Kodak	1464510	
16% Paraformaldehyde (formaldehyde aqueous solution)	Electron Microscopy Sciences	RT 15710	Dilute 16% solution into 4% working stocks with 1X PBS and freeze aliquots at -20 °C
Teflon printed 3 ring slides	Electron Microscopy Sciences	63418-11	
Premium uncharged frosted end glass slides	Several commercial brands		Clean slides in ethyl or isopropyl alcohol and allow to drip dry prior to use; label slides on frosted end with a permanent marker or pencil depending on subsequent use of slides
Surgical scissors (sharp and blunt tips)	Fine Science Tools	14001-12	Different brand of a similar type will work
Fine tip surgical scissors (sharp tips)	Fine Science Tools	14058-11	Different brand of a similar type will work
Straight fine tip forceps	Fine Science Tools	11050-10	Different brand of a similar type will work
Curved medium tip forceps	Fisher	16100110	Different brand of a similar type will work
Scalpel handle	Fine Science Tools	10003-12	Different brand of a similar type will work
Mouse anti-SYCP3	Abcam	ab97672	Use at 1:300
Anti-centromere protein (derived from human CREST patient serum)	Antibodies Incorporated	15-234-0001	Use at 1:50
Humidified chamber			We use Nunc square culture dishes 500 cm ² /well with moistened paper towels
Widefield microscope with epifluorescence	Leica microsystems		Any standard model
Coplin jars	Several commercial brands		50 ml capacity; 40 mm (1.6 in.) diameter, holds 10 slides (back to back)
Petri dishes	Several commercial brands		100 x 15 mm diameter, polystyrene sterile untreated