

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 |