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Slide Making and Prototype of a Dropper Device for Chromosomal Preparations

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ABSTRACT Slide making is the most critical aspect of good banding preparations. Slide making is best done after the cells have been in fixative at 4ºC overnight. Variables affecting preparation includes relative humidity, room temperature, drying time and number of cells per slide. Increased height is often used to increase spreading. We have designed a simple Dropper device for our slide preparations. This facilitates easy operation and well spread chromosomes are obtained. This device is made of stainless steel with a broad base where a main rod is fixed. Two side rods are fixed with clamps, attached to the main rod. Both can be raised or lowered according to the requirement. The upper one is provided with a pipette-holder where the pipette with the material can be inserted. The lower one is provided with a grooved plate with a ball and a socket to adjust the angle. The slide is pushed gently from the plate lengthwise as the material is dropped from the pipette.We have been using this for our lymphocyte culture slide preparations and we are quite satisfied of its use.