

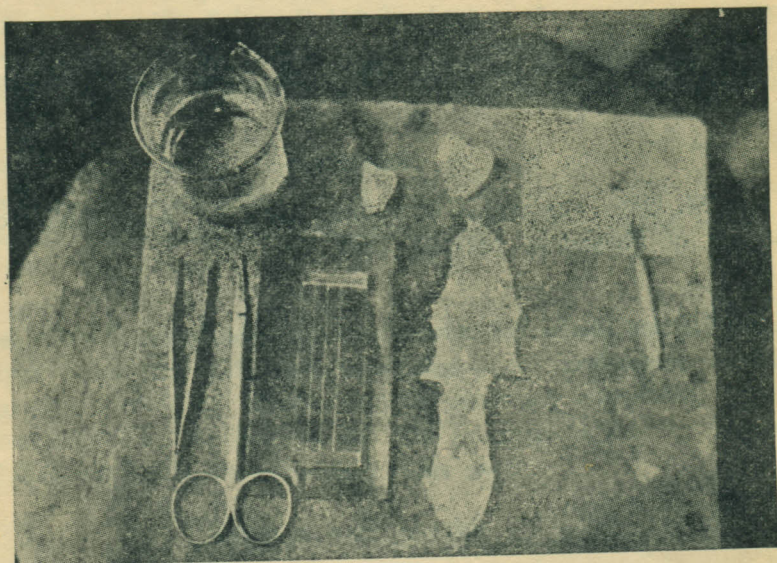
NEW TECHNIQUES & DEVICES

A SIMPLE DEVICE FOR MEASUREMENT OF CILIARY ACTIVITY OF FROG'S OESOPHAGUS

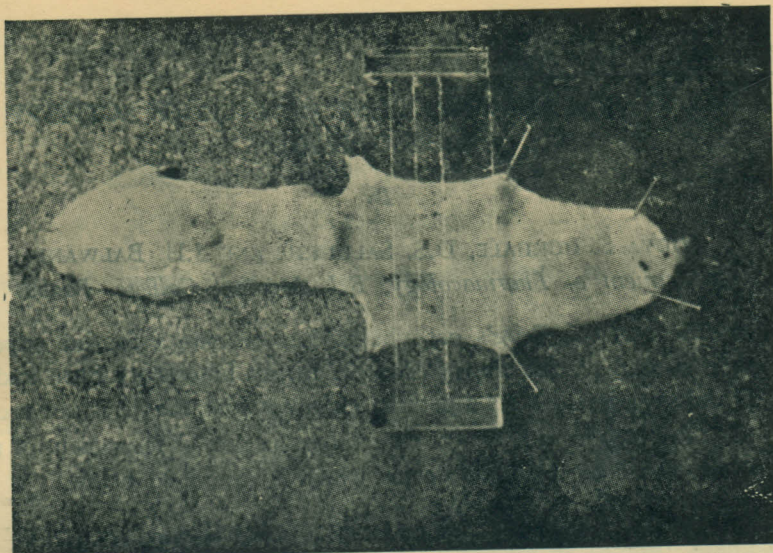
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Ciliary movement of the Frog's oesophagus has become a routine experiment in the undergraduate experimental pharmacology course. In our laboratory Burn and Day's method (1) is adopted for the experiment. As a perspex chamber with the lid is not used a difficulty is encountered in choosing two fixed points to determine the rate of movement of the poppy seed. This difficulty is overcome by a simple device which is described below.



A microscope slide is selected and parallel lines are drawn lengthwise with diamond pencil at an equal distance of 0.5 cm. (Fig. 1 and 2). Two plastic strips of suitable height are fixed with a firm adhesive to the back of the slide. This gives a sufficient height to the platform so that when it is placed on the preparation, the poppy seed can easily pass underneath it without any obstruction. The time taken by the poppy seed to travel in between two fixed points can easily be measured.



ACKNOWLEDGEMENT

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REFERENCE

1. Burn J.H. and M. Day The actino of Tubocurarine and Acetylcholine on ciliary movement—*Journal of Physiology* **141**:520, 1958.