

10. "**Respiration experiments in phlorhizin diabetes,**" with demonstration of apparatus: **GRAHAM LUSK** (with **A. R. MANDEL**.)

An experiment on a diabetic dog showed that whether fasting or fed on meat alone, or on meat and fat, no more fat was burned than in the same dog when he was normal and fasting.

11. "**A demonstration of a modified Eck fistula, with a note on adrenalin glycemia**": **ALFRED N. RICHARDS**.

A method devised by Vosburgh and Richards for establishing communication between the portal vein and the inferior vena cava of the dog was described and demonstrated. In this method two cannulas were employed. They were constructed on the same principle as the one used by Vosburgh and Richards in collecting blood from the hepatic and portal veins without interfering with the normal circulation in those vessels. After suitable incision through the abdominal wall a cannula of that type, 1 cm. long, was inserted into the portal vein about 2 cm. below the entrance of the pancreatico-duodenalis. A second cannula of similar design was introduced into the vena cava at a corresponding point. By connecting the cannulas with a rubber tube, communication was established between the two vessels. On ligating the hepatic arteries and the portal vein at the hilum of the liver, circulation through the liver ceased and the gland was extirpated.

By the successful use of this method Vosburgh and Richards have found that the application of adrenalin to the surface of the pancreas brings about a slight rise in the sugar content of the blood even after extirpation of the liver. Their experiments thus far have covered periods of from two to three hours, no systematic attempts having yet been made to get the animals to survive the operation.

12. "**Aims and achievements in recent experimental cytology**" (review): **GARY N. CALKINS**.

A review of Loeb's, Wilson's and Boveri's experimental researches.