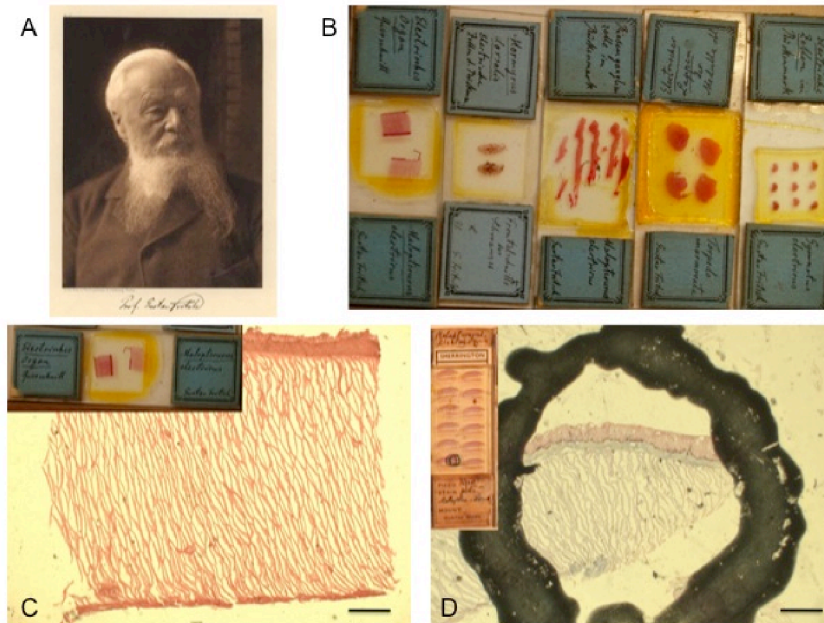


S3 | Sections from Gustav Fritsch in Sherrington's Box.



Fritsch and Hitzig probed the cerebral cortex of a dog to discover that electrical stimulation of different areas of the cerebrum caused involuntary muscular contractions of specific parts of the dog's body¹. Fritsch was also known for his study of electric eels². Sherrington's box contains 11 slides given by Fritsch, one of which has 1891 written on it (B and C). Next to the Fritsch slides there are two Golgi impregnated sections from Sherrington himself on the electric organ of the electric catfish (*Malapterurus electricus*) indicating his own interest in these specialized organs (D).

A: Photograph of Gustav T. Fritsch (1838 – 1927) a pioneer in cortical localization. Fritsch was also known for his ethnographical research in South Africa (1863–68), study of electric eels¹, and archaeological and zoological journeys to Egypt and Anatolia. Reproduced, with permissions, from Wikipedia. http://en.wikipedia.org/wiki/File:GustavTheodor_Fritsch.jpg

B: Photograph of 5 of 11 slides included in Sherrington's histological collection from Gustav Fritsch from 1891 (Tray 16, row 3). These include a slide related to Fritsch's study¹ on the electrical organs of *Gymnotus electricus*.

C: Photomicrograph taken from the electric organ of *Malapterus electricus* (electric catfish) from Gustav Fritsch from a section in the Sherrington Box, University of Oxford. The scale bar represents 500µm.

D: Sherrington's preparation from the electric organ of the catfish. A circle denotes the region of interest, which has been enlarged. Sherrington's own slide was accompanying Fritsch's slides in tray 16 of the Sherrington histological slide box, University of Oxford. The scale bar represents 500µm.

References

1. Fritsch, G. T. & Hitzig, E. Ueber die elektrische Erregbarkeit des Grosshirns. *Archiv für Anatomie, Physiologie und wissenschaftliche Medizin* 300–332 (1870) (in German).
2. Fritsch G. *Vergleichend-anatomische Betrachtung der elektrischen Organe von Gymnotus electricus*. "Comparative anatomical view of the electrical organs of gymnotus electricus (Veit, Leipzig, 1881).