



Medicine



Camillo Golgi

The Nobel Prize in Physiology or Medicine 1906

Biography



Camillo Golgi was born at Corteno near Brescia on July 7, 1843*, the son of a physician. He studied medicine at the University of Pavia under Mantegazza, Bizzozero and Oehl. After graduating in 1865 he continued to work in Pavia at the Hospital of St. Matteo. Golgi himself stated that Bizzozero greatly influenced him and his methods of scientific research; at that time most of his investigations were concerned with the nervous system, i.e. insanity, neurology and the lymphatics of the brain. In 1872 he accepted the post of Chief Medical Officer at the Hospital for the Chronically Sick at Abbiategrosso, and it is believed that in the seclusion of this hospital, in a little kitchen which he had converted into a laboratory, he first started his investigations into the nervous system.

Golgi returned to the University of Pavia as Extraordinary Professor of Histology, went to Siena for a short time, but returned to Pavia and was appointed to the Chair for General Pathology in 1881, in succession to his teacher Bizzozero. He settled down in Pavia for good, and married Donna Lina, a niece of Bizzozero.

Already while working at the Hospital of St. Matteo, Golgi became interested in the investigation of the causes of malaria and he must be credited for having determined the three forms of the parasite and the three types of fever. After prolonged studies he found a way of photographing the most characteristic phases in 1890.

Golgi was a famous teacher, his laboratory was open to anyone anxious to do research. He never actually practised medicine, but directed the Department of General Pathology at St. Matteo Hospital where young doctors were trained. He also founded and directed the Istituto Sieroterapico-Vaccinogeno of the Province of Pavia. Golgi was Rector of Pavia University for a long time and was also made a Senator of the Kingdom of Italy.

He was an old man during the First World War, but assumed the responsibility for a Military Hospital in Pavia, where he created a neuro-pathological and mechano-therapeutical centre for the study and treatment of peripheral nervous lesions and for the rehabilitation of the wounded.

However, the work of greatest importance which Golgi carried out was a revolutionary method of staining individual nerve and cell structures, which is referred to as the «black reaction». This method uses a weak solution of silver nitrate and is particularly valuable in tracing the processes and most delicate ramifications of cells. Golgi himself was extremely modest and reticent about his work and it is not known when exactly he made this invention. All through his life, however, he continued to work on these lines, modifying and improving this technique.

Golgi received the highest honours and awards in recognition of his work. He shared the Nobel Prize for 1906 with [Santiago Ramón y Cajal](#) for their work on the structure of the nervous system. The Historical Museum at the University of Pavia dedicated a hall to Golgi, where more than 80 certificates of honorary degrees, diplomas and awards are exhibited.

Golgi married Donna Lina Aletti, previously mentioned. They had no children of their own, but adopted his niece, now Mrs. Carolina Golgi-Papini in Rome. He died at Pavia, where he had lived all his life, on January 21, 1926.

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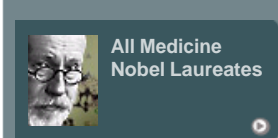
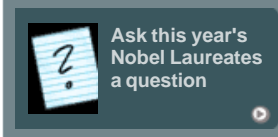
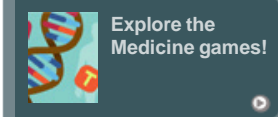
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* Other sources state 1844.

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