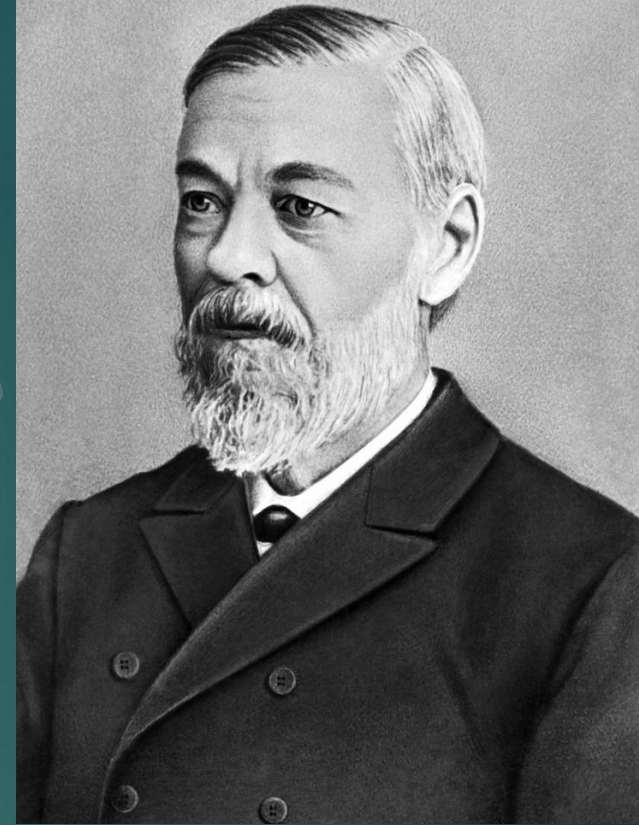


Human Anatomy,
Physiology & Pathology

Biography
of I.M. Sechenov



Ivan Mikhaylovich Sechenov (1829-1905)

a distinguished Russian physiologist, the founder of Russian physiological school, a corresponding and honorary member of the St. Petersburg Academy of Sciences.

Pavlov referred to him as the "Father of Russian physiology and scientific psychology"



Life Background Information

- ❖ Born in 1829 in Simbirsk province in the family of a landowner and his serf
- ❖ Graduated from the Military engineering school in St. Petersburg (1848)
- ❖ Graduated with honors from the medical faculty of the Moscow University with specialty of physician (1856)
- ❖ 1856-1860 got internship in Germany at the laboratories of Carl Ludwig, Herman von Helmholtz, and Ernst Weber

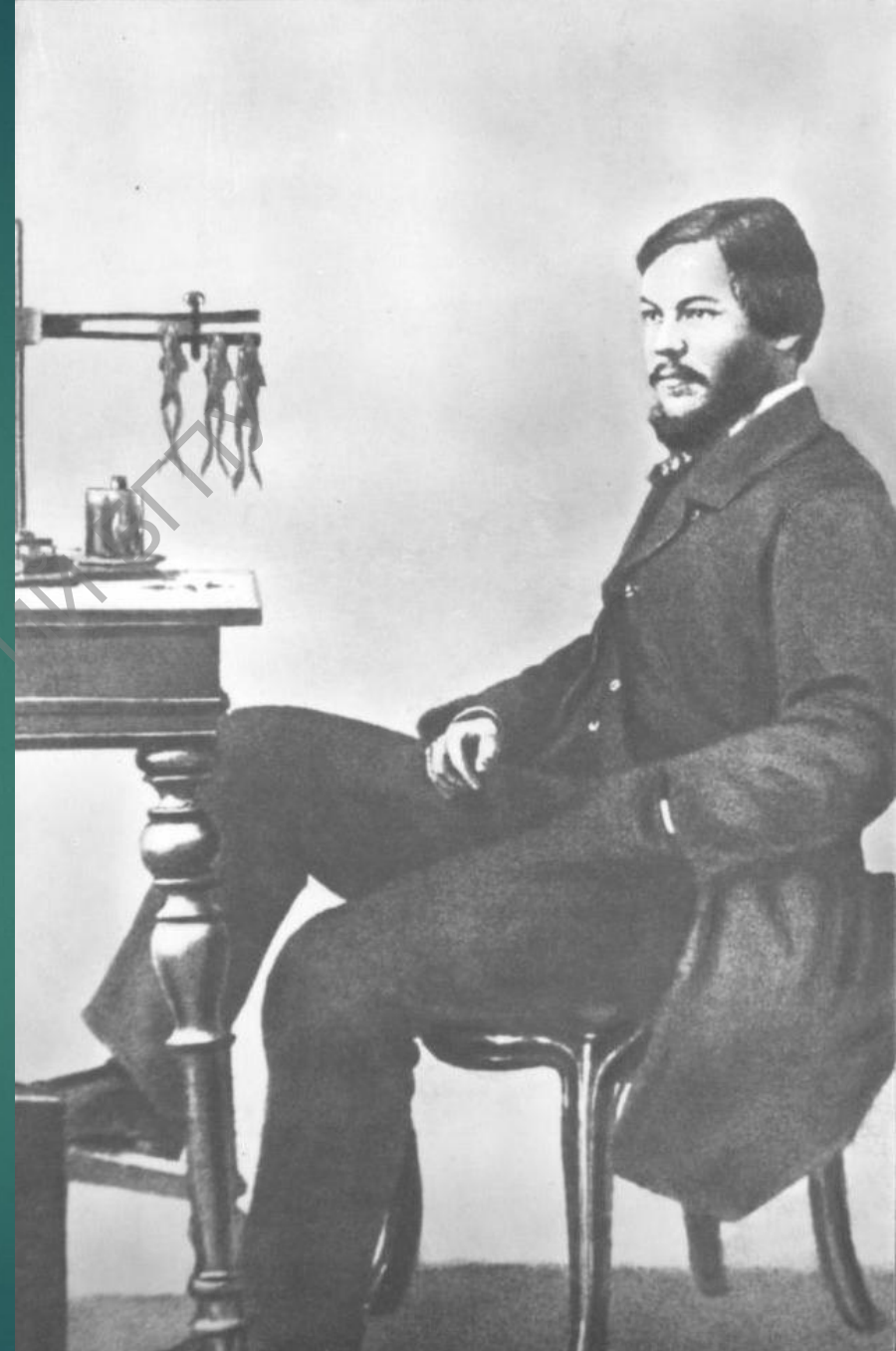
Sechenov
in his youth



Life Background Information

- ❖ 1860-1870 – associate professor of the Department of physiology in the St. Petersburg Military Surgical Academy
- ❖ 1871-1876 – head of the Department of physiology in the Novorossiysk University (Odessa)
- ❖ Since 1876 – professor of physiology in the Moscow University
- ❖ Died in 1905 in Moscow

Sechenov is exploring
the Central inhibition
on the frog



Main scientific achievements of Sechenov

- ❖ Proved the reflex nature of conscious and unconscious reactions, proving that the basis of the psyche are physiological processes that can be studied objectively
- ❖ Discovered the phenomenon of Central inhibition, summation in the nervous system, established the existence of rhythmic bioelectric processes in the central nervous system
- ❖ Created an objective theory of behavior, laid the foundations of the occupational physiology, as well as age, comparative and evolutionary physiology

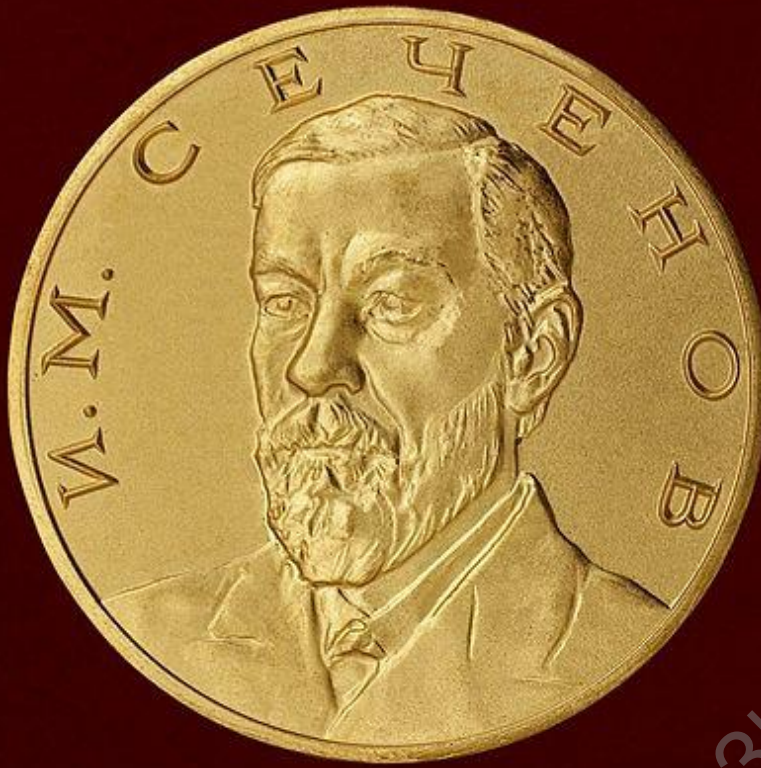
Main works of Sechenov

- ❖ "Brain Reflexes" (1863)
- ❖ "Physiology of the nervous system" (1866)
- ❖ "Physiology of nerve centers" (1891)
- ❖ "Participation of the senses in the work of the hands of the sighted and the blind" (1901)
- ❖ "The subject idea and the reality" (1902)
- ❖ "Notes of the Russian professor of medicine (autobiographical notes)" (1904)

The scientific heritage is presented in "Selected Works of I.M. Sechenov" (in 2 volumes, 1952-1956)

Named after Sechenov

- ❖ The First Moscow State Medical University (*Sechenov University*)
- ❖ The Institute of Evolutionary Physiology and Biochemistry of the Russian Academy of Sciences
- ❖ The Russian Journal of Physiology
- ❖ The village of Sechenovo in the Nizhniy Novgorod region (the current name of native Sechenov's village Tyoplyj Stan)
- ❖ The lane in the center of Moscow where Sechenov lived from 1903 to 1905; more than 60 streets in towns of Russia, Ukraine, Belarus, Kazakhstan
- ❖ A crater on the back side of the Moon (*Sechenov*)
- ❖ Asteroid №5234 (*Sechenov*)
- ❖ Since 1992 once every five years the Russian Academy of Sciences awards the Sechenov gold medal "for outstanding theoretical works in the field of physiology "



The Sechenov gold medal "for outstanding theoretical works in the field of physiology"



**Sechenovskiy lane in Moscow
(the corner of Prechistenka street)**



Sechenov's grave at Novodevichy cemetery
(Moscow)