

Master student of SSU. She specializes in the mathematical modeling of the sleep / wake cycle and the study of the influence of various factors on it. In 2021, new research was presented at the conferences "Actual issues of biological physics and chemistry" and SFM'21. The poster at the SFM'21 took 3rd place in the competition.

Main publications:

Postnov D. E., Merkulova K. O., Postnova S. Desynchrony and synchronisation underpinning sleep–wake cycles //The European Physical Journal Plus. – 2021. – T. 136. – №. 5. – C. 1-19.

Merkulova K. O., Postnov D. E. The dynamical premise for desynchrony between circadian rhythm and the sleep-wake cycle //Saratov Fall Meeting 2020: Computations and Data Analysis: from Molecular Processes to Brain Functions. – International Society for Optics and Photonics, 2021. – T. 11847. – C. 1184708