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Fund "Nauka" Project № 16006 Resume

"Creation of infrastructure for the treatment of socially significant retinal diseases with innovative laser technologies"

Project leader: Prof. Zornitza Zlatarova-Angelova, MD, PhD, DSc

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The goal of the project is to assess the effect of the treatment of socially significant retinal diseases with innovative laser technologies in order to preserve the visual acuity and quality of life of patients by creating an infrastructure for it.

It is intended to purchase a laser with a wavelength of 577 nm and three modes of operation: continuous single pulse, continuous pulse with the application of patterns and micropulse. The laser will be used in patients with macular edema due to diabetic retinopathy, central retinal vein occlusion and central serous chorioretinitis, and will also be used to perform panretinal photocoagulation.

The implementation of this project will help solve the current problem for modern science related to finding the best way to treat macular edema in a number of socially significant eye diseases.

The creation of an infrastructure for the use of this laser for the treatment of retinal diseases and the resulting opportunity for a wide range of research makes this project relevant worldwide.