DEVICE FOR IMAGING OF THE TRANSPARENT OBJECTS

PROBLEM DESCRIPTION

Although scientists are now capable of turning whole organs transparent, without fast and large-scale imaging technique there is a significant difficulty to analyze those specimens and transform this methodology into knowledge. There is a need for a device that permits detailed imaging of the entire transparent bodies or organs and enables high throughput detection of their inner structures and remodeling.

STAGE OF DEVELOPMENT

DISCOVERY

PROTOTYPE

MINIMAL VIABLE PRODUCT

READY FOR SALE

INNOVATION OF THE SOLUTION

Device for imaging of the transparent objects is the first-in-class equipment that creates a stable light-sheet beam over dozens of centimeters, enabling visualization of the entire transparent organs and bodies of laboratory animals. It allows unobstructed imaging of tissue parts characterized by distinct optical density.

THE MOST IMPORTANT ADVANTAGES

User friendliness and small size. Possibility to implement in DIY lab approach. Large scale specimen visualisation – stable light-sheet over dozens of centimetres. Polarized filter for imaging of internal structures of distinct optical density.



PROJECT CORE TEAM

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KEY PUBLICATION

Bozycki L, et al. Whole-body Clearing, Staining and Screening of Calcium Deposits in the Mdx Mouse Model of Duchenne Muscular Dystrophy. Skelet Muscle. 2018 Jul 19;8(1):21.

KEY WORDS



INTELLECTUAL PROPERTY STATUS

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