Large area deposition technologies of multifunctional antibacterial and antiviral nanocoatings



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Project No: 1.1.1.1/21/A/050

Duration: 01.01.2022. – 30.11.2023.

Project Leader: Institute of Solid State Physics, University of Latvia, Dr. habil. Phys. Juris Purans.

Project partners: Sidrabe Vacuum SIA, Dr.Phys. Andris Fedotovs Latvian Biomedical Research and Study Centre (LBMC)

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About project implementation (31.03.2023 – 30.06.2023)

During the past research period of the project No.1.1.1/21/A/050 "Large area deposition technologies of multifunctional antibacterial and antiviral nanocoatings":

- Adaptation of the vacuum sputtering equipment for the magnetron sputtering of yttrium oxyhydride was carried out. The additional necessary maintenance work of the vacuum system also has been carried out.
- Tested the operation of equipment with an atmosphere of a mixture of argon and hydrogen gases, which is necessary for the production of yttrium oxyhydride coatings.
- Preparation of the PET substrate with WO₃ coating to enchance the adhesion of YHO films.