

Ekaterina Korepanova

Date of Birth: 29.10.2002

Nationality: Russian

Gender: Female

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EDUCATION

**Immanuel Kant Baltic Federal University – Biologist
(Bachelor's degree)**

2020 – Present time

WORK EXPERIENCE

**Research and Educational Center “Smart materials
and Biomedical applications”, Kaliningrad
– Laboratory assistant**

July 2022 – Present time

SCIENTIFIC ACTIVITIES

**XXIX International Scientific Conference
of Students, Postgraduates and Young Scientists
"Lomonosov 2022"**

Antipova V.N., Korepanova E.P.

Poster talk: “Effect of plasma treatment on the morpho-mechanical properties of magnetoelectric nanocomposites for biomedical applications”

https://lomonosov-msu.ru/archive/Lomonosov_2022/data/index_2.htm

ChemBioSeasons 2023

Antipova V.N., Korepanova E.P.

Poster talk: “Effect of helium plasma treatment on surface wettability of PVDF-based substrates and adhesion of mesenchymal stem cells”

<https://elibrary.ru/item.asp?edn=wtidhn>



RESEARCH INTERESTS

Stem Cells,
Tissue Engineering and
Regenerative Medicine,
Polymer materials

KEY SKILLS

Working with stem cell
cultures (MMSC) in sterile
conditions,
Immunocytochemical
staining,
Data analysis in ImageJ,
Skill of work with light
microscope

LANGUAGES

English B1

IBCM 2023 International Baltic Conference on Magnetism

Korepanova E.P., Antipova V.N., K. Sobolev, S. Vorontsov, S. Pshenichnikov, K. Levada, V. Rodionova

Oral talk: "Biophysical regulation of cell behavior by PVDF-based magnetoelectric composites"

https://smba.science/wp-content/uploads/2024/01/SCIS2023_Book_of_Abstracts.pdf

(page 16)

Prize: Best oral talk

PUBLICATIONS

1. V. Antipova, A. Omelyanchik, K. Sobolev, S. Pshenichnikov, S. Vorontsov, E. Korepanova, D. Schitz, D. Peddis, L. Panina, K. Levada, V. Rodionova
Enhancing wettability and adhesive properties of PVDF-based substrates through non-thermal helium plasma surface modification, *Polymer*. 290 (2024). doi: [10.1016/j.polymer.2023.126567](https://doi.org/10.1016/j.polymer.2023.126567) (Q1)