

# Karyna Kulakova

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## Education

### Master of Science

Taras Shevchenko National University of Kyiv, Educational and Scientific Center "Institute of Biology and Medicine" 2020-2022  
Kyiv, Ukraine

- Major: Biology
- Specialization: Cytology and Histology
- Current average grade: 95.09/100

### Bachelor of Science

Taras Shevchenko National University of Kyiv, Educational and Scientific Center "Institute of Biology and Medicine" 2016-2020  
Kyiv, Ukraine

- Major: Biology
- Specialization: Cytology and Histology
- Average grade: 94.8/100
- Graduated with Honours

## Research experience

### Master research project

Department of Tumor Monitoring and Therapy Design, Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology 2020 – 2021  
Kyiv, Ukraine

- Title: The effect of hyperinsulinemia on breast cancer cells in a cocultivation system with normal fibroblasts
- Supervisors: Dr. Oleksandra Lykhova, Dr. Vitalii Kalynovskyi
- Part-time

### Bachelor research project

Department of General and Molecular Pathophysiology, Bohomolets Institute of Physiology Mar 2018 - May 2020  
Kyiv, Ukraine

- Title: The effect of PINK1 RNA interference on cardiomyocytes survival under anoxia-reoxygenation
- Supervisors: Prof. Victor Dosenko, Dr. Vitalii Kalynovskyi
- Part-time

### Internship project

Department of Biomedical Engineering, The University of Melbourne May - October 2019  
Melbourne, Australia

- Title: Glycosaminoglycan–extracellular matrix interactions in different cartilage types
- Supervisors: Dr. Kathryn Stok
- Full-time

## Publications

1. Rathnayake, M., Farrugia, B., **Kulakova, K.**, ter Voert, C., van Osch, G. and Stok, K., 2021. Macromolecular Interactions in Cartilage Extracellular Matrix Vary According to the Cartilage Type and Location. *CARTILAGE*, p.194760352110008.

## Work and volunteer experience

### Ukrainian Patent Attorney

Full-time expert

Oct 2021 – current  
Ukraine

- Patent litigation process in the sphere of biology and biotechnology

### National Agency for High Education Quality Assurance

Expert

Nov 2019 - current  
Ukraine

- Verifications of educational programs provided by Universities to upgrade education in Ukraine
- Participated in 5 verification processes, all of them have been accepted

### Vector Vitale

Manager assistant

Jun 2019 - Mar 2020  
Kyiv, Ukraine

- Work with papers of a department
- Theoretical summaries

### Science communication activities

Organizer

2018-2020  
Kyiv, Ukraine

- Organization of 16 [events](#) for 20-30 public listeners about science, technologies, art
- Demonstrator and speaker in the events about natural science for kids and pupils

## Skills

<b>Histology</b>	All staged of preparing histology samples, immunohistochemistry and histochemistry
<b>Cytology</b>	Cell and bacterial culture, immunocytochemistry
<b>Microscopy</b>	Light, fluorescent microscopy
<b>Molecular biology and biochemistry</b>	Gel electrophoresis, ELISA, PCR, DNA\RNA extraction, RNA-interferention, work with plasmid vector
<b>Biophysics</b>	Spectrophotometry, chromatography (ion-exchange, gel filtration), micro-computed tomography
<b>Animals</b>	Mouse and rat models
<b>Languages</b>	Ukrainian (native), Russian (native), English (fluent, IELTS overall score 7.0)
<b>Computer skills</b>	Microsoft Office, OriginPro, Statistica, ImageJ (FIJI), Photoshop, Wolfram Mathematica, MagicPlot
<b>Hobbies</b>	PC-gaming, basketball

## Referees

**Dr. Vitalii Kalynovskyi** Department of cytology, histology and reproductive medicine, Educational and Scientific Center “Institute of Biology and Medicine”, Taras Shevchenko National University of Kyiv, Ukraine; [vitaliikalynovskyi@knu.ua](mailto:vitaliikalynovskyi@knu.ua)

**Prof. Victor E. Dosenko** Bogomoletz Institute of Physiology, Department of General and Molecular Pathophysiology, National Academy of Sciences, Ukraine; +380 (44) 2562481 [dosenko@biph.kiev.ua](mailto:dosenko@biph.kiev.ua)

**Dr. Kathryn Stok** Senior Lecturer in Biomechanics, Biomedical Engineering, The University of Melbourne, Australia; +61 3 8344 9761 [kathryn.stok@unimelb.edu.au](mailto:kathryn.stok@unimelb.edu.au)