

ONA MARIJA KALESNYKAITĖ

EDUCATION

- Present | 2025 • **Turing College**
Data Science & AI/ML 📍 Vilnius, Lietuva
- 2024 • **Hannover Medical School**
Doctor of Natural Sciences 📍 Hannover, Germany

Thesis: Roles of RNP-assembling protein Rbfox1 in *Drosophila* ovaries.
Magna cum laude
- 2019 • **Faculté de Médecine, L'Université Paris-Est Créteil**
M2 Biothérapies Tissulaires, Cellulaires, Géniques 📍 Paris, France

Erasmus Studies
- 2019 • **Life Sciences Center, Vilnius University**
MSc Biochemistry 📍 Vilnius, Lithuania

Thesis: Recombinant Production of Zinc-Containing Metalloprotease Domain
- 2017 • **Faculty of Chemistry, Vilnius University**
BSc Biochemistry 📍 Vilnius, Lithuania

Thesis: Recombinant Human Carbonic Anhydrase VII Protein: Production in *E. coli* and Protein Stability Analysis
- 2012 • **International Baccalaureate, Vilnius Lyceum**
IB Diploma 📍 Vilnius, Lithuania

Extended Essay: Excessive Indulgence into Internet Social Network Sites



CONTACT INFO

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SKILLS

- Data Analysis
Visualization
Python (pandas, Jupyter)
R
SQL
Data Cleaning & Reporting
Writing & Editing
Literature Review
Biological Data
Teamwork
Problem-Solving

RESEARCH EXPERIENCE

- 2024 | 2023 • **Research Scholar**
Mount Desert Island Biological Laboratory 📍 Maine, United States
Continuation of Rbfox1 research

2024 2019	<ul style="list-style-type: none"> ● PhD Candidate Institute of Cell Biochemistry, MHH 📍 Hannover, Germany Investigated the role of Rbfox1 domains in <i>Drosophila melanogaster</i>. <ul style="list-style-type: none"> • Fruit fly handling • Genetic crosses • S2 cell transfection • Immunofluorescence • Confocal microscopy • Genetic recombination • Ovary dissection • Paraffin-embedded tissue sections • R Studio • RNA extraction • RT-qPCR
2019 2016	<ul style="list-style-type: none"> ● Research Internship VU Institute of Biotechnology 📍 Vilnius, Lithuania Recombinant proteins for drug discovery research using calorimetric and thermal shift methods. <ul style="list-style-type: none"> • Recombinant protein production • DNA cloning with RE • E. coli transformation • Optimization of growth conditions • Protein purification using Ni-Sepharose • Thermal shift assay • Isothermal calorimetry titration

💼 PROFESSIONAL EXPERIENCE

2017	<ul style="list-style-type: none"> ● Management in a modern biotechnology company (course) Thermo Fisher Scientific Baltics 📍 Vilnius, Lithuania Introduction to management principles at Thermo Fisher. Included practical assessment tasks, teamwork activities. <ul style="list-style-type: none"> • GMP • GLP • LEAN • Drug discovery • Patent filing • QA • Customer support
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👤 TEACHING EXPERIENCE

2024	<ul style="list-style-type: none"> ● Practical Course: Genetics Mount Desert Island Biological Laboratory 📍 Maine, United States • Harnessing Drosophila Genetics to Model Human Disease, INBRE undergraduate course.
2022	<ul style="list-style-type: none"> ● Practical Course: Histology Institute of Cell Biochemistry, MHH 📍 Hannover, Germany • Graduate course on histology sections and their analysis using confocal microscopy.
2022 2021	<ul style="list-style-type: none"> ● Student Supervision Institute of Cell Biochemistry, MHH 📍 Hannover, Germany • Graduate rotation project: Construction of recombinant Rbfox1 deletion mutants, 2022 • Undergraduate thesis: Analysis of stress-dependent subcellular localisation of Rbfox1 deletion mutants, 2021



CONFERENCES

- 2025 • **EuroSciPy25**
Attendee 📍 Krakow, Poland
- 2024 • **51st Maine Biological and Medical Sciences Symposium**
Selected talk 📍 Bar Harbor, Maine
- 2024 • **The Allied Genetics Conference (TAGC) 2024**
Poster 📍 Washington, D.C.
- 2022 • **Molecular Basis of Life**
Poster 📍 Düsseldorf
- 2022 • **SFB960 Conference RNP Dynamics**
selected talk 📍 Regensburg
- 2022 • **16th Microsymposium on RNA Biology**
Poster 📍 Vienna
- 2022 • **73rd Mosbacher Kolloquium “The World of RNAs – Principles and Applications”**
Poster 📍 Mosbach
- 2021 • **13th GfE School “Stem cells, development and regeneration: the emergence of new tissues”**
Selected talk 📍 Online
- 2021 • **Rencontres Exobiologiques pour Doctorants**
Short Talk 📍 Online
- 2020 • **EMBO Sectoral meeting on RNA and Structural Biology**
Selected Talk 📍 Online