

Curriculum Vitae

General information

Name, Surname	Raimonda Kubiliūtė-Mikalauskienė
Date of birth	26th May 1992
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Education

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| 2016-2021 | PhD in Natural Sciences, Institute of Biosciences, Life Sciences Center, Vilnius University, Vilnius, Lithuania.
<i>Thesis Title:</i> Diagnostic and prognostic DNA methylation biomarkers of renal clear cell carcinoma
<i>Supervisor:</i> Prof. (HP) Sonata Jarmalaitė |
| 2014-2016 | Master of Genetics (<i>Magna Cum Laude</i>), Faculty of Natural Sciences, Vilnius University, Vilnius, Lithuania.
<i>Thesis Title:</i> Genetic and epigenetic studies of doxorubicin-resistant cancer cell lines.
<i>Supervisor:</i> Prof. (HP) Sonata Jarmalaitė |
| 2010-2014 | Bachelor of Biology, Faculty of Natural Sciences, Vytautas Magnus University, Kaunas Lithuania.
<i>Thesis Title:</i> Influence of lipophilic agents on the formation of multidrug resistance in cell cultures.
<i>Supervisor:</i> Prof. (HP) Rimantas Daugelavičius |

Work experience

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| Since 2022 | Researcher fellow and assistant at Institute of Biosciences, Life Sciences Center, Vilnius University, Vilnius, Lithuania. |
| Since 2022 | Researcher fellow at Genetic Diagnostics Laboratory, National Cancer Institute, Vilnius, Lithuania. |
| 2020-2021 | Junior research fellow at Institute of Biosciences, Life Sciences Center, Vilnius University, Vilnius, Lithuania |
| 2020-2021 | COVID-19 Researcher at Genetic Diagnostics Laboratory, National Cancer Institute, Vilnius, Lithuania. |
| 2019-2023 | Researcher at ThermoPharma Baltic, Vilnius, Lithuania. |
| 2019-2022 | Junior researcher fellow at Genetic Diagnostics Laboratory, National Cancer Institute, Vilnius, Lithuania. |
| 2016-2019 | The biologist at Genetic Diagnostics Laboratory, National Cancer Institute, Vilnius, Lithuania. |
| 2015-2017 | Junior researcher fellow at the Faculty of Natural Sciences, Vytautas Magnus University, Kaunas, Lithuania. |

Research projects

Since 2023	"Epigenetic biomarkers for early non-invasive renal cancer detection and treatment personalization" (Biomedicine of the Future fund).
2019-2023	"Development of cancer diagnostic systems" Intellect, Joint science-business projects (grant No. J05 LVPA-K-04-0029)
2017-2020	"Modern technologies to resolve a complex structure of tumor" (grant No. S-MIP-17/54)
2018-2020	"Analysis of immunological, genetic, and epigenetic factors in pathogenesis of autoimmune arthritis" (grant No: S-MIP-17-12)
2015-2018	"Increasing the efficacy of antibacterial and cytostatic agents by enhancing their interaction with cells" (grant No: MIP-040-2015)

Scientific interests and skills

Scientific interests	Molecular genetics and epigenetics of human cancers; molecular biomarkers for non-invasive cancer diagnostics and prognostics; development of cancer cells resistance to therapy.
Laboratory skills	Isolation of DNA, RNA from various types of samples, PCR (Reverse Transcription Quantitative PCR, Methylation-specific quantitative PCR) analysis, transcriptome and methylome analysis by Human Gene expression or DNA methylation microarrays (Agilent technologies); tissue sample preparation for single-cell analysis, using enzymatic-mechanical dissociation; two years experience in working with cell cultures.

Training courses

2014	The course of Laboratory Animal Science at Vilnius University (FELASA C certificate); Vilnius, Lithuania
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Membership

Since 2014	Lithuanian Biochemical Society
Since 2020	European Society for Medical Oncology

Awards

2025	Winner of the Lithuanian Academy of Sciences and the Future Biomedicine Fund Prize for Young Scientists
2021	Professor Kazimieras Pelčaras award for achievements in oncology researches

Teaching activity

Since 2022

Functional Biology of the Cell, Laboratory Methods of Genetic Research, Oncogenetics, Molecular and Genomic Medicine

Patent applications

2021

Kubiliūtė R, Jarmalaite S. Clear cell renal cell carcinoma biomarkers and uses therefor. Assigned Number: PCT/IB2021/052532

Scientific publications

2024

Zvirblyte J, Nainys J, Juzenas S, Goda K, Kubiliute R, Dasevicius D, Kincius M, Ulys A, Jarmalaite S, Mazutis L. Single-cell transcriptional profiling of clear cell renal cell carcinoma reveals a tumor-associated endothelial tip cell phenotype. *Commun Biol.* 2024 Jun 28;7(1):780. <https://doi.org/10.1038/s42003-024-06478-x>

2022

Kubiliute R, Zukauskaitė K, Zalimas A, Ulys A, Sabaliauskaitė R, Bakavicius A, Zelvy's A, Jankevicius F, Jarmalaite S. Clinical significance of novel DNA methylation biomarkers for renal clear cell carcinoma. *J Cancer Res Clin Oncol.* 2021 Oct 23. <https://doi.org/10.1007/s00432-021-03837-7>

2021

Žalimas A, Kubiliūtė R, Žukauskaitė K, Sabaliauskaitė R, Trakymas M, Letautienė S, Kaubrienė EM, Ušinskienė J, Ulys A, Jarmalaitė S. Urine Molecular Biomarkers for Detection and Follow-Up of Small Renal Masses. *Int J Mol Sci.* 2022 Dec 17;23(24):16110. <https://doi.org/10.3390/ijms232416110>

Kubiliute R, Zalimas A, Bakavicius A, Ulys A, Jankevicius F, Jarmalaite S. Clinical significance of ADAMTS19, BMP7, SIM1 and SFRP1 promoter methylation in renal clear cell carcinoma. *Onco Targets Ther.* 2021 Oct 5;14:4979-4990. <https://doi.org/10.2147/OTT.S330341>

Kubiliute R, Jarmalaite S. Epigenetic Biomarkers of Renal Cell Carcinoma for Liquid Biopsy Tests. *Int J Mol Sci.* 2021;22(16):8846; <https://doi.org/10.3390/ijms22168846>

Kubiliute R, Januskeviciene I, Urbanaviciute R, Daniunaite K, Drobnienė M, Ostapenko V, Daugelavicius R, Jarmalaite S. Nongenotoxic ABCB1 activator tetraphenylphosphonium can contribute to doxorubicin resistance in MX-1 breast cancer cell line. *Sci Rep.* 2021;11(1):6556. <https://doi.org/10.1038/s41598-021-86120-6>

2020

Daniunaite K, Sestokaite A, Kubiliute R, Stuopelyte K, Kettunen E, Husgafvel-Pursiainen K, Jarmalaite S. Frequent DNA methylation changes in cancerous and noncancerous lung tissues from smokers with non-small cell lung cancer. *Mutagenesis.* 2020;11:geaa022. <http://doi.org/10.1093/mutage/geaa022>

2016

Kubiliūtė R, Šulskytė I, Daniūnaitė K, Daugelavičius R, Jarmalaitė S. Molecular features of doxorubicin-resistance development in colorectal cancer CX-1 cell line. *Medicina (Kaunas)* 2016;52(5):298-306. <http://doi.org/10.1016/j.medici.2016.09.003>

Presentations at Scientific conferences

- 2024** Jurkėnaitė D, Kubiliūtė R, Masterkovaitė E, Palšytė V, Žalimas A, Jarmalaitė S. Epigenetinių biožymenų inkstų navikų diagnozavimui ir prognozavimui tyrimas. Bioateitis: gamtos ir gyvybės mokslų perspektyvos. Vilnius (Lietuva), 2024, lapkričio 21 d.
- Juozevavičiūtė L, Stepukaitė E, Žalimas A, Šnipaitienė K, Kubiliūtė R. Urinary mirna-based biomarkers for the detection of renal cell carcinoma. The COINS'24. Vilnius (Lietuva). April 15-18 d.
- 2023** Kubiliūtė R, Žalimas A, Žukauskaitė K, Sabaliauskaitė R, Trakymas M, Letautienė S, Kaubrienė E, Ušinskienė J, Ulys A, Jarmalaitė S. Urinary methylated DNA – the Signature for Small Renal Masses Detection and Follow-Up. Life Science Baltic. Vilnius (Lithuania), 2023 September 20-21 d.
- Matekonytė K, Kubiliūtė R, Žalimas A, Ulys A, Jankevičius F, Jarmalaitė S. Epigeneti cmodifi cati ons of genes as biomarkers for renal clear cell carcinoma. The COINS'23. Vilnius (Lietuva). April 24-27 d.
- 2022** Kubiliute R, Zukauskaitė K, Zalimas A, Sabaliauskaite R, Ulys A, Jarmalaite S. Novel urinary methylated DNA biomarkers for kidney cancer detection and prognosis. ESMO „Molecular analysis for precision oncology“. Amsterdamas (Olandija), 2022 spalio 14-16 d.
- Zalimas A, Kubiliute R, Trakymas M, Letautiene S, Zukauskaitė K, Ulys A, Jarmalaite S. Urinary biomarkers for prognosis of histologically confirmed small renal tumors. ESMO „Molecular analysis for precision oncology“. Amsterdamas (Olandija), 2022 spalio 14-16 d.
- Kubiliūtė R, Žukauskaitė K, Žalimas A, Sabaliauskaitė R, Ulys A, Jarmalaitė S. Epigenetiniai biožymenys neinvaziniam inkstų vėžio diagnozavimui ir prognozavimui. Bioateitis: gamtos ir gyvybės mokslų perspektyvos. Vilnius (Lietuva), 2022, lapkričio 24 d.
- 2020** Kubiliūtė R, Žukauskaitė K, Žalimas A, Ulys A, Jankevičius F, Jarmalaitė S. DNA methylation biomarkers of clear cell renal carcinoma. ESMO „Molecular analysis for precision oncology virtual congress“. October 9-10, 2020.
- 2019** Jarmalaite S, Kubiliute R, Nainys J, Zalimas A, Bakavicius A, Ulys A, Jankevicius F, Mazutis L. DNA Methylation Biomarkers of Clear Cell Renal Carcinoma. The 26th Meeting of the EAU Section of Urological Research (ESUR). Porto (Portugal), October 10-12, 2019.
- Kubiliūtė R, Žalimas A, Bakavičius A, Ulys A, Jankevičius F, Jarmalaitė S. Novel DNA Methylation Biomarkers of Clear Cell Renal Carcinoma. EAU 6th Baltic Meeting. Tallinn (Estonia), May 24–25, 2019.
- Šumskaitė A, Kubiliūtė R, Žalimas A, Ulys A, Jankevičius F, Jarmalaitė S. Promoter DNA Methylation Analysis of BMP7, PCDH8 and TFAP2B Genes in Clear Cell Renal Carcinoma. The Coins'19 – 14th international conference of natural and life sciences. Vilnius (Lithuania), February 26-28, 2019

Kubiliūtė R, Žalimas A, Ulys A, Jankevičius F, Jarmalaitė S. DNA Methylation Biomarkers of Clear Cell Renal Carcinoma. The Coins'19 – 14th international conference of natural and life sciences. Vilnius (Lithuania), February 26-28, 2019.

2018

Kubiliūtė R, Žalimas A, Ulys A, Jankevičius F, Jarmalaitė S. Genome-wide DNA methylation profiling in Clear Cell Renal Carcinoma. XV International Conference of the Lithuanian Biochemical Society. Dubingiai (Lithuania). June 27-29, 2018

Kubiliūtė R, Žalimas A, Ulys A, Jankevičius F, Jarmalaitė S. DNA Methylation Profile of Clear Cell Renal Carcinoma. EAU 5th Baltic Meeting. Riga (Latvia), May 25-26, 2018.

Šeštokaite A, Kubiliūtė R, Stuopelytė K, Husgafvel-Pursiainen K, Holmila R, Livia A, Jarmalaitė S. Quantitative DAPK1, and p16 Promoter Methylation Analysis in Non-Small Cell Lung Cancer Patients. The Coins'18 – 13th international conference of natural and life sciences. Vilnius (Lithuania), February 28 – March 2, 2018

2017

Kubiliūtė R, Daniūnaitė K, Žalimas A, Jankevičius F, Jarmalaitė S. Promoter Hypermethylation of Tumor Suppressor Genes in Renal Cell Carcinoma. EAU 4th Baltic Meeting. Vilnius (Lithuania), May 26-27, 2017.

Kubiliūtė R. Chemoresistance Development in Breast MX-1 Cancer Cell Line. The Coins'17 – 12th international conference of natural and life sciences. Vilnius (Lithuania), February 28 – March 2, 2017

2016

Daugelavičius R, Kubiliūtė R, Šulskytė I, Daniūnaitė K, Jarmalaitė S. Development of Multidrug Resistance in MX-1 Cells. 6th Special Meeting ATP-Binding Cassette (ABC) Proteins: From Multidrug Resistance to Genetic Diseases. Innsbruck (Austria), March 5-11, 2016

Kubiliūtė R, Daniūnaitė K, Jarmalaitė S. Epithelial-to-Mesenchymal Transition Contributes to Doxorubicin Resistance in MX-1 Breast Cancer Cell Line. The Coins'16 – 11th International Conference of Natural and Life Sciences. Vilnius (Lithuania), February 29 – March 3, 2016

2015

Kubiliūtė R, Daniūnaitė K, Šulskytė I, Daugelavičius R, Jarmalaitė J. The Alteration of ABCB1 and ABCC1 Expression in Lipophilic Agents Induced Resistant MX-1 and CX-1 Cancer Cell Lines. The Coins'15 – 10th International Conference of Natural and Life Sciences. Vilnius (Lithuania), March 3-6, 2015. [award for best poster presentation]

2014

Kubiliūtė R, Daniūnaitė S, Demidenko R, Jarmalaitė S, Daugelavičius R. Influence of lipophilic agents on the formation of multidrug resistance in cell cultures. XIIIth International Conference of Lithuanian Biochemical Society. Birštonas (Lithuania), June 18-20, 2014.
