





## PERSONAL INFORMATION



## Aurimas Stulpinas

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Sex Male | Date of birth 12/07/1979 | Nationality Lithuanian

## WORK EXPERIENCE

2023 October – Present

**Research associate**

Vilnius University Life Sciences Center, Department of Molecular Cell Biology, Saulėtekio av. 7, LT-10257, Vilnius (Lithuania)

2015 – 2023

**Junior research associate**

Vilnius University Life Sciences Center, Department of Molecular Cell Biology, Saulėtekio av. 7, LT-10257, Vilnius (Lithuania)

2004 – 2015

**Junior research associate**

Institute of Biochemistry, Mokslininku str. 12A, LT-08662 Vilnius (Lithuania)

2000 – 2004

**Laboratory technician**

Institute of Biochemistry, Mokslininku str. 12A, LT-08662 Vilnius (Lithuania)

## EDUCATION AND TRAINING

2017 – 2023

**PhD in Biochemistry**

Vilnius University Life Sciences Center, Department of Molecular Cell Biology, Saulėtekio av. 7, LT-10257, Vilnius (Lithuania)

- Graduation Thesis: Investigation of Protein Kinase MAPK and AKT Crosstalk and Dependencies on Extracellular Contacts in Lung Cancer-Derived Cell Models

2001 – 2003

**Master of Biochemistry**

Vilnius University, Faculty of Chemistry

- Graduation Thesis: Activation of Mitogen-activated Protein Kinases and the Molecules of Apoptosis Pathway during Chemotherapeutic Treatment of Leukemic cell lines HEL and K562 in vitro.

1997 – 2001

**Bachelor of Biochemistry**

Vilnius University, Faculty of Chemistry

## PERSONAL SKILLS

Mother tongue(s) Lithuanian

Other language(s)

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	Listening	Reading	Spoken interaction	Spoken production
English	B2	C1	B2	B2
Russian	C2	B2	C1	B2
German	A1	A2	A1	A1
Polish	B1	A2	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

**Organisational / managerial skills**

Organisational and communication skills gained as a supervisor of bachelor and master undergraduate students. Acquisition, accounting and management/administration of laboratory/construction supplies during implementation of various projects. Cooperation with foreign scientists in writing review articles.

**Job-related skills**

- Cell biology: mammalian cell culture; light and fluorescent microscopy; assessment of viability and toxicity; 2D, 3D and 0D cell cultures and extracellular interactions; stem cell maintenance and differentiation.
- Molecular biology / biochemistry: Western blot; Time-resolved fluorescence resonance energy transfer (TR-FRET)

**Digital competence**

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Independent user

Independent user of MS Office and scientific paper databases (Web of Science, Scopus, PubMed).

**Other skills**

Child-raising (six children), interior/exterior repair/construction works, driving (25 years of experience), writing short stories/essays.

## ADDITIONAL INFORMATION

Scientific interests	Stem cell biology; Cancer biology; Apoptosis; Targeted therapy
Participation in scientific community	Lithuanian Biochemical Society. Lithuanian Stem Cell Research Association.
Scholarships and Awards	2018 – Nominal scholarship of Life Sciences Center for doctoral candidates. 2018-2019 – Promotional scholarship for doctoral candidates financed by Research Council of Lithuania.
Publications (WOS journals)	<ol style="list-style-type: none"><li>1. <b>Stulpinas, Aurimas</b>; Sereika, Matas; Vitkevičienė, Aida; Imbrasaitė, Aušra; Krestnikova, Natalija; Kalvelytė, Audronė Valerija. Crosstalk between protein kinases AKT and ERK1/2 in human lung tumor-derived cell models // <i>Frontiers in oncology: Cancer Molecular Targets and Therapeutics</i>. Lausanne : Frontiers Media SA. ISSN 2234-943X. 2023, vol. 12, art. no. 1045521, p. [1-18]. DOI: <a href="https://doi.org/10.3389/fonc.2022.1045521">10.3389/fonc.2022.1045521</a>.</li><li>2. <b>Stulpinas, Aurimas</b>; Užusienis, Tomas; Imbrasaitė, Aušra; Krestnikova, Natalija; Ungurytė, Aušra; Kalvelytė, Audronė Valerija. Cell-cell and cell-substratum contacts in the regulation of MAPK and Akt signalling: Importance in therapy, biopharmacy and bioproduction // <i>Cellular signalling</i>. New York : Elsevier Science. ISSN 0898-6568. eISSN 1873-3913. 2021, vol. 84, art. no. 110034, p. [1-18]. DOI: <a href="https://doi.org/10.1016/j.cellsig.2021.110034">10.1016/j.cellsig.2021.110034</a>.</li><li>3. Abdelwahid, Eltyeb; <b>Stulpinas, Aurimas</b>; Kalvelytė, Audronė Valerija. Effective agents targeting the mitochondria and apoptosis to protect the heart // <i>Current pharmaceutical design</i>. Sharjah : Bentham Science Publ Ltd. ISSN 1381-6128. 2017, Vol. 23, no 8, p. 1153-1168. DOI: <a href="https://doi.org/10.2174/1381612822666161229150120">10.2174/1381612822666161229150120</a>.</li><li>4. Abdelwahid, Eltyeb; Kalvelytė, Audronė Valerija; <b>Stulpinas, Aurimas</b>; de Carvalho, Katherine Athayde Teixeira; Guarita-Souza, Luiz Cesar; Foldes, Gabor. Stem cell death and survival in heart regeneration and repair // <i>Apoptosis</i>. Dordrecht : Springer. ISSN 1360-8185. eISSN 1573-675X. 2016, first online, p. 1-17. DOI: <a href="https://doi.org/10.1007/s10495-015-1203-4">10.1007/s10495-015-1203-4</a>.</li><li>5. <b>Stulpinas, Aurimas</b>; Imbrasaitė, Aušra; Krestnikova, Natalija; Šarlauskas, Jonas; Čėnas, Narimantas; Kalvelytė, Audronė Valerija. Study of bioreductive anticancer agent RH-1-induced signals leading the wild-type p53-bearing lung cancer A549 cells to apoptosis // <i>Chemical research in toxicology</i>. Washington : ACS Publications. ISSN 0893-228X. eISSN 2168-0485. 2016, Vol. 29, no 1, p. 26-39. DOI: <a href="https://doi.org/10.1021/acs.chemrestox.5b00336">10.1021/acs.chemrestox.5b00336</a>.</li><li>6. Krestnikova N, <b>Stulpinas A</b>, Imbrasaitė A, Sinkeviciute G, Kalvelyte AV. JNK implication in adipocyte-like cell death induced by chemotherapeutic drug cisplatin. <i>The Journal of Toxicological Sciences</i>. 2015 Feb;40(1):21-32. doi: <a href="https://doi.org/10.2131/jts.40.21">10.2131/jts.40.21</a>.</li><li>7. Kalvelytė, Audronė Valerija; Krestnikova, Natalija; <b>Stulpinas, Aurimas</b>; Bukelskienė, Virginija; Bironaitė, Daiva; Baltriukienė, Daiva; Imbrasaitė, Aušra. Long-term muscle-derived cell culture: multipotency and susceptibility to cell death stimuli // <i>Cell biology international</i>. London : Wiley-Blackwell. ISSN 1065-6995. 2013, Vol. 37, iss. 4, p. 292-304. DOI: <a href="https://doi.org/10.1002/cbin.10036">10.1002/cbin.10036</a>.</li><li>8. <b>Stulpinas, Aurimas</b>; Imbrasaitė, Aušra; Kalvelytė, Audronė Valerija. Daunorubicin induces cell death via activation of apoptotic signalling pathway and inactivation of survival pathway in muscle-derived stem cells // <i>Cell biology and toxicology</i>. Dordrecht : Springer Netherlands. ISSN 0742-2091. 2012, vol. 28, no. 2, p. 103-114. DOI: <a href="https://doi.org/10.1007/s10565-011-9210-x">10.1007/s10565-011-9210-x</a>.</li></ol>

## Participation in the scientific projects

1. LVMSF initiated the programme "Stem cell integration, survival and functional capacity in the pathological focus. Preclinical studies", subject of the Institute of Biochemistry (Identification of signalling pathways for survival and death of stem (myogenic) cells in the pathological foci and development of stress-resistant genetically modified cells), technician. Reg. No U-04001. Duration of the project: 2004-2006.
2. LVMSF High-Tech Development Project "Development of models for regeneration of cardiac structures using stem and specialised cells and biological tissues", investigator. No B-07041. Project duration: 2007-2009.
3. LVMSF Priority Research and Experimental Development Areas of Lithuania (Genomics and Biotechnologies for Health and Agriculture) research programme project "Fundamental Research on Mechanisms of Stem Cell Functioning. Cytotherapy 2". The part of the project (Investigation of the signalling mechanisms regulating cell death and survival in differently differentiated adult stem cells), Institute of Biochemistry. No C-07023. Project duration: 2007-2009. Position: Junior research associate.
4. Project of the National Science Programme (Research Council of Lithuania) "Prognostic markers of the action of the stress kinase JNK as a molecular target for therapy", No LIG-10034 (LIG-10/2010). Duration of the project: 2010 - 2011. Position: Junior research associate.
5. EU structural assistance instrument "Support for the research activities of scientists and other researchers (global grant)": "Molecular mechanisms of toxicity and antitumour activity of quinones and polyphenols: enzymatic redox reactions, cytotoxicity, signal transduction and proteomics", No. VP1-3.1-ŠMM-07-K-01-103. Project value 1586661 LTL (1,6 million EUR). Project duration: 2011-2015. Position: Junior research associate.
6. National Integrated Programme "Biotechnology & Biopharmacy" supported by the European Social Fund. No: VP1-3.1-SMM- 08-K01-005. Implementation time limits: 2014-2015. Position: Junior research associate.
7. EU funded Operational project "Development of a patient-specific ex vivo model system consisting of heterogeneous lung cancer cells for the selection of anticancer drugs for personalised treatment" (01-2.2-LMT-K-718-01-0072), budget EUR 0.5 million. Position: Junior researcher, project administrator. Project duration: 2017-2023.

## Conferences

- Baltrūnaitė, Kristina, Kalvelytė, Audronė Valerija, **Stulpinas, Aurimas**, Imbrasaitė, Aušra, Krestnikova, Natalija. „Study of JNK signaling pathway in apoptosis regulation of neuro-differentiated cells“. Abstracts book of the XIIIth international conference of Lithuanian biochemical society, p. 60. Birštonas, June 18-20, 2014.
- Kalvelytė, Audronė Valerija, **Stulpinas, Aurimas**, Krestnikova, Natalija, Imbrasaitė, Aušra, Baltrūnaitė, Kristina. „Differential outcome of JNK inhibition in proliferating and differentiated adult muscle-derived stem cells after chemotherapeutic treatment“. MAP Kinase ISSN 2235-4956 2014, vol. 3, suppl. 1: Life sciences Baltics 2014 Forum: the biochemistry, biology and pathology of MAP kinases II, 10-11 September 2014, Vilnius. p. 10-11.
- Krestnikova, Natalija, Imbrasaitė, Aušra, **Stulpinas, Aurimas**, Baltrūnaitė, Kristina, Kalvelytė, Audronė Valerija. „The role of JNK in cisplatin induced apoptosis of adult muscle stem cell-derived adipocytes“. Abstracts book of the XIIIth international conference of Lithuanian biochemical society, p. 36. Birštonas, June 18-20, 2014.
- **Stulpinas, Aurimas**, Imbrasaitė, Aušra, Krestnikova, Natalija, Užsienis, Tomas, Šarlauskas, Jonas, Čėnas, Narimantas, Miliukienė, Valė, Kalvelytė, Audronė Valerija. „A comparative study of bioreductive agent RH-1-induced signalling pathways in human lung cancer cell line A549“. 50th anniversary of FEBS : Abstracts book of The XIIIth International Conference of Lithuanian Biochemical Society, p. 43. June 18-20, 2014
- **Stulpinas, Aurimas**, Imbrasaitė, Aušra, Krestnikova, Natalija, Šarlauskas, Jonas, Čėnas, Narimantas, Kalvelytė, Audronė Valerija. „Study of bioreductive agent RH1-induced signals leading the wild-type p53-bearing lung cancer A549 cells to apoptosis“. EMBO conference : Cellular signalling and cancer therapy : abstracts / editors D. Höller, K. Koch, Croatia. ISBN 9783000454295 p. 207. 23rd-27th May, 2014.
- Užsienis, Tomas, **Stulpinas, Aurimas**, Krestnikova, Natalija, Imbrasaitė, Aušra, Kalvelytė, Audronė Valerija. „Different involvement of survival kinases in anoikis regulation of cancer and stem cells“. 50th anniversary of FEBS : Abstracts book of The XIIIth International Conference of Lithuanian Biochemical Society, p. 41-42. June 18-20, 2014.
- **Stulpinas Aurimas**, Imbrasaitė Aušra, Čėnas Narimantas, Kalvelytė Audronė Valerija. „Different involvement of MAPKs in apoptosis triggered by different oxidative stress-inducing agents“. 22nd Young Research Fellow Meeting. Biology and Chemistry: a permanent dialogue. Paris (France). February 4-6, 2015.
- Audronė Kalvelytė, Natalija Krestnikova, **Aurimas Stulpinas**, Aušra Imbrasaitė, Daiva Baltrūnaitė, Kristina Baltrūnaitė, Goda Sinkvičiūtė. „Stem cells in toxicology: opposite role of stress kinase JNK in regulation of apoptosis in proliferating and differentiated stem cells after chemotherapeutic treatment“. LKLTA conference „Stem cell research in Lithuania: past, present and future“. Vilnius. August 27, 2015.
- **Aurimas Stulpinas**, Tomas Užsienis, Natalija Krestnikova, Aušra Imbrasaitė, Audronė Kalvelytė. „Differences and similarities in anoikis regulation between cancer and stem cells“. LKLTA conference „Stem cell research in Lithuania: past, present and future“. Vilnius. (Best poster Award). August 27, 2015.
- **Aurimas Stulpinas**, Tomas Užsienis, Natalija Krestnikova, Aušra Imbrasaitė, Audronė V. Kalvelytė. „Cell-cell and cell-substratum contacts in the regulation of the signaling molecules controlling eukaryotic cell functioning: importance in cell therapy, biopharmacy and bioproduction“. Life Sciences Baltics, Vilnius. September 14-15, 2016.
- **Stulpinas A.**, Sereika M., Krestnikova N., Imbrasaitė A., Kalvelytė A.V. „Assessment of anticancer drug impact on survival signaling pathways in primary lung cancer cell lines“. 27th international Conference on Cancer Research and Oncology. Barcelona, Spain. (Best poster Award). December 9-10, 2019.
- „A. V. Kalvelytė, **A. Stulpinas**, T. Užsienis, N. Krestnikova, A. Imbrasaitė. Cell-cell and cell-substratum contacts: impact on MAPK signaling molecules in the regulation of cancer and stem cell functioning“. 27th international Conference on Cancer Research and Oncology. Barcelona, Spain. December 9-10, 2019.
- **Aurimas Stulpinas**, Natalija Krestnikova, Aušra Imbrasaitė, Audronė V. Kalvelytė. „Dependence of JNK signaling pathway molecules on intercellular contacts“. The (Extra)ordinary COINS 2021 virtual conference. 2021-03-30. <https://thecoins.eu/wp-content/uploads/2021/03/The-COINS-2021-Book-of-Abstracts.pdf> p.54
- **Stulpinas, Aurimas**; Tenkutyte, Monika; Imbrasaitė, Aušra; Kalvelytė, Audronė Valerija. „Investigations of stress kinase JNK as a molecular target in the treatment of lung cancer cells“. The COINS 2022: 16th international conference of life sciences, Vilnius. Book of abstracts, p. 118. March 3, 2022.