



Curriculum Vitae

Personal information **Una Riekstina**

Work experience

1. Employer: University of Latvia
 - Start date: 012018
 - Present
 - Position: Professor
 - Activities: Director of the Pharmacy Bachelor study programme at the Faculty of Medicine; Lectures on Human biological medicines, Drug metabolism, Medical microbiology and immunology. Preclinical research projects on aptamers, biosensors, human primary cell cultures, organoids, induced pluripotent stem cells. Supervision of BSc, MSc and PhD student thesis.
 - Country: Latvia
2. Employer: University of Latvia
 - Start date: 062012
 - End date: 012018
 - Position: Associate professor
 - Activities: Lectures in Drug metabolism, Molecular pharmacy, Pharmaceutical cell biology, Medical microbiology and immunology Research on mesenchymal stem cells, nanoparticles, extracellular vesicles Supervision of BSc, MSc and PhD student thesis work
 - Country: Latvia
3. Employer: University of Latvia
 - Start date: 062006
 - End date: 062012
 - Position: Assistant professor
 - Activities: Lectures in Cell biology, Introduction in genetics and molecular biology, drug metabolism Research on skin_derived mesenchymal stem cells, effects of natural products on cell cultures Supervision of BSc and MSc student thesis work
 - Country: Latvia

Education and training

1. Subject:
 - Start date: 031998
 - End date: 052002
 - Qualification: Ph.D.
 - Organisation: Karolinska Institutet
 - Country: Sweden
2. Subject:
 - Start date: 091995
 - End date: 061997
 - Qualification: M.Sc.
 - Organisation: University of Latvia
 - Country: Latvia

Additional information

Publications

SCI publications total 45, Scopus H index 19

Researcher's unique identifier(s), https://orcid.org/0000_0003_2217_7053

1. Pleiko K, Haugas M, Parfejevs V, Pantelejevs T, Parisini E, Teesalu T, Riekstina U. Targeting triple-negative breast cancer cells with a β 1-integrin binding aptamer. *Molecular Therapy - Nucleic Acids*, Vol. 33, 2023, pp. 871-884, <https://doi.org/10.1016/j.omtn.2023.08.015>.
2. Polycaprolactone-MXene Nanofibrous Scaffolds for Tissue Engineering / Kateryna Diedkova, Alexander D. Pogrebnjak, Sergiy Kyrylenko, Kateryna Smyrnova, Vladimir V. Buranich, Pawel Horodek, Pawel Zukowski, Tomasz N. Koltunowicz, Piotr Galaszkiwicz, Una Riekstina, Maksym Pogorielov ...[et al.] // *ACS applied materials & interfaces* Vol. 15, N 11 (2023), p.14033-14047. <https://doi.org/10.1021/acsami.2c22780>
3. Pleiko, K., Põšnograjeva, K., Haugas, M., Paiste, P., Tobi, A., Kurm, K., Riekstina, U., Teesalu, T. In vivo phage display: Identification of organ-specific peptides using deep sequencing and differential profiling across tissues (2021) *Nucleic Acids Research*, 49 (7), pp. E38_E38. DOI: 10.1093/nar/gkaa1279
4. Sjakste, N., Riekstina, U. DNA damage and repair in the differentiation of stem cells and cells of connective cell lineages: A trigger or a complication? (2021) *European Journal of Histochemistry*, 65 (2), art. no. 3236 .
5. Vadims Parfejevs, Krizia Sagini, Arturs Buss, Kristine Sobolevska, Alicia Llorente, Una Riekstina and Arturs Abols. Adult Stem Cell-Derived Extracellular Vesicles in Cancer Treatment: Opportunities and Challenges. *Cells* 2020, 9(5), 1171; <https://doi.org/10.3390/cells9051171>
6. Pleiko K, Saulite L, Parfejevs V, Miculis K, Vjaters E, Riekstina U. Differential binding cell_SELEX method to identify cell-specific aptamers using high-throughput sequencing. *Sci Rep.* 2019 May 31;9(1):8142. doi:

10.1038/s41598_019_44654_w.

6. Popēna I, Ābols A, Saulīte L, Pleiko K, Zandberga E, Jēkabsons K, Endzeliņš E, Llorente A, Linē A, Riekstiņa U. Effect of colorectal cancer_derived extracellular vesicles on the immunophenotype and cytokine secretion profile of monocytes and macrophages. *Cell Commun Signal*. 2018 Apr 24;16(1):17. doi: 10.1186/s12964_018_0229_y.

Projects

1. COST action CA20140 CorEuStem: The European Network for Stem Cell Core Facilities, Management Committee member, 2021-2025, Training and education Working group co-leader.
2. COST action CA21151 - GENERATION OF HUMAN INDUCED PLURIPOTENT STEM CELLS FROM HAPLO-SELECTED CORD BLOOD SAMPLES (HAPLO-IPS), 2022-2026, Management Committee member.
2. Euronanomed III project "Quantitative and storage_stable point_of_care diagnostic device", 2022-2025, Principal investigator, activity leader.
3. Project "Smart Materials, Photonics, Technologies and Engineering Ecosystem", No. VPP-EM-FOTONIKA-2022/1-0001, 2022-2024, Principal investigator, activity leader.
4. Project "State Research programme project in biomedical, medical technologies and pharmaceuticals", No. VPP-EM-BIOMEDICĪNA-2022/1-0001, 2022-2024, Principal investigator, activity leader.
5. Latvian Council of Sciences project "Novel in vitro human pancreatic organoid model to study regeneration and disease", 2020-2021, Principal investigator.

Memberships

Memberships

1. Corresponding member of the Latvian Academy of Sciences (2019-present)
2. Latvian Science Council expert (2006-present) – providing expertise in project evaluation in Basic medical sciences including pharmacy field.
3. Member of board, Pharmacology Society, Latvia (2016-present)– participation and organization of the society meetings
4. Honorary member of the Society of Latvian Pharmacists, 2021

Scientific awards

1. L'OREAL scholarship „For women in science“ in collaboration with UNESCO Latvia National Committee and Latvian Academy of Sciences, 2010
2. Latvian Academy of Sciences Nomination of the top 12 research achievements, 2018
3. Latvian Academy of Sciences Acknowledgement for the research achievements, 2023

Other Relevant Information