

Current project

ERDF project No. 1.1.1.2/VIAA/2/18/249 “Interaction between host *Pyrus communis* and pathogen *Gymnosporangium sabinae* and characterization of population structure for plant resistance breeding” (2018 – 2021)

Projects

National Research Programme - Agricultural Resources for Sustainable Production of Qualitative and Healthy Foods in Latvia (AgroBioRes), project No. 10-4/VPP-7/3 (2015-2017) – project activity leader. Activity dedicated to apple and pear cultivar evaluation for post-harvest management, storage disorder evaluation. Responsible for activity scientific management, planning of experiments, data analysis, preparation of publications.

Project of Latvian Council of Science Nr. 223/2013 „Studies on inheritance and diversity of apple and pear resistance to scab and characterization of races and population diversity of causal organisms – *Venturia inequalis* and *Venturia pyrina*” (2013 - 2016) – researcher. Responsible for pear cultivar scab resistance field evaluation, data analysis, preparation of publications.

Project ‘Development of fruit crop variety assortment, growing technologies and integrated plant protection system for different growing conditions and friendly to environment’ (Nr. 211211/c-120). (2010 – 2014) – researcher. Responsible for pear cultivar testing, growing technology evaluation, evaluation of pear cultivar resistance to European pear rust, data analysis, preparation of publications.

Specification of environment-friendly technologies in fruit and berry plantations in different soil, and climatic conditions (2007 – 2009) - researcher. Responsible for pear variety testing, evaluation, data analysis, preparation of publications.

ERDF project No. 2009/0228/1DP/1.1.1.2.0/09/APIA/VIAA/035 “Scientific capacity building in fruit-growing, forestry and information technology sectors, providing research on environmentally friendly growing strategies, product development and introduction aided by computer technologies”, (2009 – 2012) – researcher. Responsible for pear cultivar scab resistance field evaluation, data analysis, preparation of publications.

Scientific publications

- Stalažs A., Lāce B. (2019). Notes on records of *Trochulus hispidus* (Gastropoda: Hygromiidae) feeding with an exotic *Gymnosporangium sabinae* (Basidiomycota: Pucciniaceae) in Latvia. *Environmental and Experimental Biology*, 17: 5–8.
- Lāce B. (2017). *Gymnosporangium* species - an important issue of plant protection: Review. *Proceedings of the Latvian Academy of Sciences. Section B. Natural, Exact, and Applied Sciences*. <https://www.degruyter.com/view/j/prolas.2017.71.issue-3/prolas-2017-0017/prolas2017-0017.xml>
- Lāce B. (2016). New Pear Hybrids for Growing in Latvia. *Acta Horticulturae*, Vol. 1139, p. 57 – 62.
- Lāce B., Lācis G. (2015). Evaluation of pear (*Pyrus communis* L.) cultivars in Latvia. *Horticultural Science (Prague)*, Vol. 42: p. 107 – 113.
- Lācis G., Lāce B. and Blukmanis M. (2015). Evaluation of the susceptibility of pear cultivars to scab (*Venturia pirina* aderh.). *Acta Hortic.*, Vol. 1099: p. 741 – 747, DOI: 10.17660/
- Lāce B., Bankina B. (2013). Evaluation of European pear rust severity depending on agro-ecological factors. In: *Annual 19th International Scientific Conference proceedings "Research for Rural Development 2013"*, Jelgava, LLU, p. 6-12. Web: http://www2.llu.lv/research_conf/Proceedings/19th_volume1.pdf
- Lāce B., Moročko-Bičevska I. (2013). European pear rust control possibilities based on life cycle of the pathogen. *Integrated protection of fruit crops IOBC-WPRS Bulletin*, Vol. 91, p. 367 – 370.
- Rancāne R., Lāce B., Lācis G. (2012). Distribution and development of European pear rust in Latvia and relationship between severity and yield. "Integrated Plant Protection in Fruit Crops", Subgroup "Pome Fruit Diseases", *IOBC-WPRS Bulletin* Vol. 84, pp. 39-45.
- Prokopova (Lāce) B. (2011). The severity of European pear rust depending on pear cultivars. *Sodininkyste ir darzininkyste*, Vol. 30(2), p.43 – 50.