

List of scientific publications

Gunārs Lācis

Monographs:

1. **Lācis G.**, 2015. Application of biotechnology methods in fruit plant breeding. L. Ikase (Ed.) Fruit growing, LV Augļkopības institūts, Dobele, 100 – 109. lpp. (in Latvian)
2. **Lācis G.**, 2010. Characterisation of the Latvian and Swedish Sweet and Sour Cherry Genetic Resources. Acta Universitatis Agriculturae Sueciae, Doctoral Thesis, No. 2010:89 (<http://diss-epsilon.slu.se:8080/archive/00002393/>)

Publications indexed in Web of Science and/or Scopus databases:

1. **Lācis G.**, Jagtap S., Dubova L., Harbovska T., Udalovs D., Ziediņa L., Alsina I., 2025. Phenotypic Variability of Local Latvian Common Bean (*Phaseolus vulgaris* L.) and Its Position Within European Germplasm. Int. J. Plant Biol., 16, 59. <https://doi.org/10.3390/ijpb16020059>
2. Frercks B., Rugienius R., Mažeikienė I., Vinskiene J., **Lācis G.**, 2024. Allele Mining and Marker Identification for Germplasm Characterization and Breeding in Berries. In: Allele Mining for Genomic Designing of Fruit Crops, 138-190. 10.1201/9781003386490-6
3. Frercks B., Antanyrienė, R., Misiukevičius E., Vinskiene J., Kolytaite A., **Lācis G.**, 2024. Allele Mining and Candidate Gene Identification in Cherries Basis for Crop Improvement. In: Allele Mining for Genomic Designing of Fruit Crops, 191-249. 10.1201/9781003386490-7
4. **Lācis G.**, Kārklina K., Ikase L., 2024. Marker-based identification of potential scab resistance donors in Latvia apple collection. Acta Horticulturae, 1412, 41-48. 10.17660/ActaHortic.2024.1412.6
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6. Kodors S., Sondors M., Apeinans I., Zarembo I., **Lācis G.**, Rubauskis E., Karklina K., 2024. Importance of mosaic augmentation for agricultural image dataset. Agronomy Research, 22(1), 168-179. 10.15159/AR.24.012
7. Kodors S., Zarembo I., **Lācis G.**, Litavniece L., Apeināns I., Sondors M., Pacejs A., 2024. Autonomous Yield Estimation System for Small Commercial Orchards Using UAV and AI. Drones, 8(12), 734. 10.3390/drones8120734
8. Apeinans I., Zarembo I., **Lācis G.**, Litavniece L., 2023. Apple and Pear Scab Expert System. Baltic Journal of Modern Computing, 11(3), 411-419. 10.22364/bjmc.2023.11.3.04
9. Krasnova I., Seglina D., **Lācis G.**, Āboltiņš A., Viškelis J., 2023. The impact of additives on the quality indices of different black chokeberry products, developed using waste-free processing technology. Brazilian Journal of Food Technology, 26: e2023047, 10.1590/1981-6723.04723
10. Kodors S., Sondors M., **Lācis G.**, Rubauskis E., Apeināns I., Zarembo I., 2023. Rapid Prototyping of Pear Detection Neural Network with YOLO Architecture in

- Photographs. Vide. Tehnologija. Resursi - Environment, Technology, Resources, 1, 81-85. 10.17770/etr2023vol1.7293
11. Górnas P., **Lācis G.**, Mišina I., Ikase L. 2023. Tocopherols in cultivated apple *Malus* sp. seeds: composition, variability and specificity. Plants, 12(5), 1169. <https://doi.org/10.3390/plants12051169>
 12. Apeinans I., Zarembo I., **Lācis G.**, Litavniece L. 2023. Apple and pear scab expert system. Baltic Journal of Modern Computing, 11(3), 411-419. <https://doi.org/10.22364/bjmc.2023.11.3.04>
 13. Kodors S., Sondors M., **Lācis G.**, Rubauskis E., Apeināns I., Zarembo I. 2023. Rapid prototyping of pear detection neural network with YOLO architecture in photographs. Environment. Technology. Resources. Rezekne, Latvia, Proceedings of the 14 th International Scientific and Practical Conference, 1, pp. 81–85. <https://doi.org/10.17770/etr2023vol1.7293>
 14. Litavniece L., Kodors S., Dekšne J., **Lācis G.**, Zarembo I., Pacejs A. 2023. Risk analysis for apple orchard survey and monitoring using UAV. Environment. Technology. Resources. Rezekne, Latvia, Proceedings of the 14 th International Scientific and Practical Conference, 1, 116–122. <https://doi.org/10.17770/etr2023vol1.7234>
 15. Zarembo I., Kodors S., Apeināns I., **Lācis G.**, Feldmane D., Rubauskis E. 2023. Digital twin: orchard management using UAV. Environment. Technology. Resources. Rezekne, Latvia, Proceedings of the 14 th International Scientific and Practical Conference, 1, 247–251. <https://doi.org/10.17770/etr2023vol1.7290>
 16. Ikase L., Drudze I., **Lācis G.** 2022. Current achievements of the Latvian apple breeding programme. Proc. Latvian Acad. Sci. Sec. B, 76(4/739), 424–431. DOI: 10.2478/prolas-2022-0066
 17. Kodors S., **Lācis G.**, Moročko-Bičevska I., Zarembo I., Sokolova O., Bartulsons T., Apeināns I., Žukovs V. 2022. Apple scab detection in the early stage of disease using a convolutional neural network. Proc. Latvian Acad. Sci. Sec. B, 76(4/739), 482–487. DOI: 10.2478/prolas-2022-0074
 18. **Lācis G.** 2022. The 4th International Conference “Sustainable Horticulture from Plant to Product: Challenges in Temperate Climate”, 25–26 August 2021. Proc. Latvian Acad. Sci. Sec. B, 76(4/739), 559–560. 10.2478/prolas-2022-0087
 19. **Lācis G.**, Kārklīņa K., Bartulsons T., Stalažs A., Jundzis M., Baļķe I., Ruņģis D., Strautiņa S. 2022. Genetic structure of a *Ribes* genetic resource collection: inter- and intra-specific diversity revealed by chloroplast DNA simple sequence repeats (cpSSRs). Scientia Horticulturae, 304, 111285. 10.1016/j.scienta.2022.111285
 20. **Lācis G.**, Kota-Dombrovska I., Kārklīņa K., Lāce B. 2022. Genetic diversity and relatedness of Latvian *Pyrus* germplasm assessed by a set of SSR markers. Proc. Latvian Acad. Sci. Sec. B, 76(4/739), 438–447. DOI: 10.2478/prolas-2022-0068
 21. Schneps-Schneppe M., **Lācis G.** 2022. On Smart Greenhouse Issues. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 13158 LNCS, 9-21. 10.1007/978-3-030-97777-1_2
 22. Sivicka I., Adamovičs A., Sokolova O., **Lācis G.**, Krivmane B. 2022. Integrated assessment of oregano (*Origanum vulgare* L.) accessions from the *ex situ* collection of genetic resources. Proc. Latvian Acad. Sci. Sec. B, 76(4/739), 455–463. DOI: 10.2478/prolas-2022-0070
 23. Sokolova O., Moročko-Bičevska I., **Lācis G.** 2022. Genetic Diversity of *Venturia inaequalis* in Latvia Revealed by Microsatellite Markers. Pathogens, 11, 10, 1165. 10.3390/pathogens11101165
 24. Zelmene K., Kārklīņa K., Ikase L., **Lācis G.** 2022. Inheritance of Apple (*Malus × domestica* (L.) Borkh) Resistance against Apple Scab (*Venturia inaequalis* (Cooke)

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 26. Barreneche T., de la Concepción M.C., Blouin-Delmas M., Ordidge M., Nybom H., **Lācis G.**, Feldmane D., Sedlak J., Meland M., Kaldmäe H., Kahu K., Békefi Z., Stanivuković S., Đurić G., Höfer M., Galik M., Schüller E., Spornberger A., Sirbu S., Drogoudi P., Agulheiro-Santos A.C., Kodad O., Vokurka A., Lateur M., Fernández F.F., Giovannini D., Quero-García J. 2021. SSR-based analysis of genetic diversity and structure of sweet cherry (*Prunus avium* L.) from 19 countries in Europe. *Plants*, 10 (10), art. no. 1983, DOI: 10.3390/plants10101983
 27. Kārklīņa K., **Lācis G.**, Lāce B. 2021. Differences in leaf morphological parameters of pear (*Pyrus communis* L.) based on their susceptibility to European pear rust caused by *Gymnosporangium sabinae* (Dicks.) Oerst. *Plants*, 10 (5), art. no. 1024, DOI: 10.3390/plants10051024
 28. Kodors S., **Lācis G.**, Sokolova O., Zhukovs V., Apeinans I., Bartulsons T. 2021. Apple scab detection using CNN and transfer learning. *Agronomy Research*, 19 (2), pp. 507-519. DOI: 10.15159/AR.21.045
 29. **Lācis G.**, Kota-Dombrovskā I., Lāce B. 2021. Assessment of pear (*Pyrus communis* L.) genetic diversity using molecular markers linked to pear scab (*Venturia pyrina* Aderh.) resistance. *Acta Horticulturae*, 1327, 57-64. DOI: 10.17660/ActaHortic.2021.1327.7
 30. **Lācis G.**, Kārklīņa K., Kota-Dombrovskā I., Strautiņa S. 2021. Evaluation of blackcurrant (*Ribes nigrum*) germplasm structure by microsatellite-based fingerprinting for the diversification of the breeding material. *Journal of Berry Research*, 11 (3), pp. 497-510. DOI: 10.3233/JBR-210743
 31. Moročko-Bičevska I., Stalažs A., **Lācis G.**, Laugale V., Balke I., Zuļģe N., Strautiņa S. 2021. *Cecidophyopsis* mites and blackcurrant reversion virus on *Ribes* hosts: Current scientific progress and knowledge gaps. *Annals of Applied Biology*, 180 (1), pp. 26-43. DOI: 10.1111/aab.12720
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 33. Radenkovs V., Juhnevica-Radenkova K., Kviesis J., Lazdina D., Valdovska A., Vallejo F., **Lācis G.** 2021. Lignocellulose-degrading enzymes: A biotechnology platform for ferulic acid production from agro-industrial side streams. *Foods*, 10 (12), art. no. 3056, DOI: 10.3390/foods10123056
 34. Gasi F., Sehic J., Grahic J., Hjeltnis S.H., Ordidge M., Benedikova D., Blouin-Delmas M., Drogoudi P., Giovannini D., Hofer M., Kovács S., Kahu K., **Lācis G.**, Lateur M., Toldam-Andersen T.B., Ognjanov V., Nybom H. 2020. Genetic assessment of the pomological classification of plum *Prunus domestica* accessions sampled across Europe. *Genet Resour Crop Evol* 67, 1137–1161. DOI: 10.1007/s10722-020-00901-y
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 36. Mišina I., Sipeņiece E., Rudziņska M., Grygier A., Radzimirskā-Graczyk M., Kaufmane E., Segliņa D., **Lācis G.**, Górnas P. 2020. Associations between oil yield and profile of fatty acids, sterols, squalene, carotenoids, and tocopherols in seed oil of selected

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37. Strautiņa S., **Lācis G.**, Kampuss K. 2020. Phenotypical variability and diversity within *Ribes* genetic resources collection of Latvia. *Acta Hortic.* 1277, 81-88
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 41. **Lācis G.**, Kota-Dombrovska I., Bartulsons T. 2017. Genetic structure of cultivated Latvian sea buckthorn (*Hippophaë rhamnoides* L.) germplasm revealed by molecular markers. *Acta Hortic.* 1172, 205-212. DOI: 10.17660/ActaHortic.2017.1172.39
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 42. **Lācis G.**, Kota-Dombrovska I., Strautiņa S. 2017. Evaluation of red raspberry cultivars used for breeding and commercial growing in the Baltic region. *Proceedings of the Latvian Academy of Sciences. Section B: Natural, Exact and Applied Sciences*, 71(3), 203–210. DOI: 10.1515/prolas-2017-0034
 43. Vēsmiņš G., Ruīsa S., **Lācis G.** 2016. Grape genetic resources and breeding in Latvia. *Acta Hortic.* 1139, 117-122. DOI: 10.17660/ActaHortic.2016.1139.21
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- bumbieru kraupja patosistēmas. Līdzsvarota lauksaimniecība: zinātniski praktiskās konferences raksti. Jelgava: LLU, 104.-108. lpp. (in Latvian)
2. Ruņģis D.E., Gailīte A., Lācis G., Ikase L., Feldmane D., Dēķena D., Grāvīte I., Rancāne S., Vēzis I., Stesele V., Jansons A., Rebāne A., Jermuša G., Skrabule I., Starmkale V., Dziedule L., Kokare A., 2021. Latvijā *in situ* audzēto pārtkā un lauksaimniecībā izmantojamo augu un to savvaļas radnieku ģenētisko resursu potenciāla apzināšana un ievākšana. Līdzsvarota lauksaimniecība: zinātniski praktiskās konferences raksti. Jelgava: LLU, 6.-10. lpp. (in Latvian)
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