

# Algirdas Ivanauskas

## CONTACT INFORMATION

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<https://orcid.org/0000-0002-9192-4318>

## EDUCATION AND ACADEMIC DEGREE

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2014 **Ph.D.**, Biomedical Sciences, Biology, Vilnius University, Nature Research Centre,  
Institute of Botany, Vilnius, Lithuania.

2009 **M.S.**, Biology, Vilnius University, Faculty of Natural Sciences, Vilnius,  
Lithuania.  
Concentrations: Microbiology

2007 **B.S.**, Biology, Vilnius University, Faculty of Natural Sciences, Vilnius,  
Lithuania.  
Concentrations: Molecular biology.

## PROFESSIONAL EXPERIENCE

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2020-now Senior researcher, Nature Research Centre, Laboratory of Plant Pathology,  
Vilnius, Lithuania.

2017-2020 Researcher, Nature Research Centre, Laboratory of Plant Pathology, Vilnius,  
Lithuania.

2018-02-20 – 2018-06-30 Lecturer, Vilnius University, Life Sciences Center, Vilnius, Lithuania.

2014–2017 Researcher, Nature Research Centre, Laboratory of Plant Viruses, Vilnius,  
Lithuania.

2013–2014 Biologist, Nature Research Centre, Laboratory of Plant Viruses, Vilnius,  
Lithuania

2008-2009 Technician, Institute of Botany, Laboratory of Plant Viruses, Vilnius,  
Lithuania.

## RESEARCH INTERESTS

The research of plant pathogenic bacteria – phytoplasmas using molecular biology methods. The elucidation of their biodiversity, genetic features, pathogenicity, insect and plant hosts, impact on their hosts and environment.

## PUBLICATIONS

*Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science“ database (with citation index):*

1. Dėlkus M., Žižytė-Eidetienė M., **Ivanauskas A.**, Valiunas D. 2025. First Report of ‘Candidatus Phytoplasma trifolii’-Related Strain Associated with Vaccinium Reddish Witches’-Broom Disease of European Blueberry in Lithuania. – Plant Disease, in press. <https://doi.org/10.1094/PDIS-11-24-2431-PDN>
2. Wei, W., Shao, J., Zhao, Y., Inaba, J., **Ivanauskas, A.**, Bottner-Parker, K. D., Costanzo, S., Kim, B. M., Flowers, K., & Escobar, J. (2024). iPhyDSDB: Phytoplasma Disease and Symptom Database. *Biology*, 13(9), 657. Q1 <https://doi.org/10.3390/biology13090657>
3. Dėlkus, M., Žižytė-Eidetienė, M., **Ivanauskas, A.**, & Valiunas, D. (2024). First Report of Lingonberry Stunted Yellows Disease of Vaccinium vitis-idaea L. associated with ‘Candidatus Phytoplasma trifolii’-Related Phytoplasma Strain in Lithuania. *Plant disease*, 10.1094/PDIS-02-24-0284-PDN. Advance online publication. <https://doi.org/10.1094/PDIS-02-24-0284-PDN>
4. **Ivanauskas A.**, Inaba J, Zhao Y, Bottner-Parker KD, Wei W. Differential Symptomology, Susceptibility, and Titer Dynamics Manifested by Phytoplasma-Infected Periwinkle and Tomato Plants. *Plants*. 2024; 13(6):787. <https://doi.org/10.3390/plants13060787>
5. Supronienė, S.; Kadžienė, G.; Shamshitov, A.; Veršulienė, A.; Šneideris, D.; **Ivanauskas, A.**; Žvirdauskienė, R. Soil Fungistasis against Fusarium Graminearum under Different tillage Systems. *Plants* 2023, 12, 966. <https://doi.org/10.3390/plants12040966>
6. Inaba J, Shao J, Trivellone V, **Ivanauskas A.**, et al. Guilt by Association: DNA Barcoding-Based Identification of Potential Plant Hosts of Phytoplasmas from Their Insect Carriers. *Phytopathology*. 2023;113(3):413-422. Doi:10.1094/PHYTO-09-22-0323-R
7. **Ivanauskas A.**, Valiunas D., Rimsaite J., Danilov J., Sneideris D., Zizyte-Eidetiene M., and Wei W. New genetically distinct phytoplasmas and insect carriers associated with pine tree disease revealed by a survey in Curonian Spit, Lithuania. *Canadian Journal of Forest Research*. Canadian Journal of Forest Research. 2022; 52(2): 201-208. <https://doi.org/10.1139/cjfr-2021-0152>
8. Wei W, Trivellone V, Dietrich CH, Zhao Y, Bottner-Parker KD, **Ivanauskas A.** Identification of Phytoplasmas Representing Multiple New Genetic Lineages from Phloem-Feeding Leafhoppers Highlights the Diversity of Phytoplasmas and Their Potential Vectors. *Pathogens*. 2021; 10(3):352. <https://doi.org/10.3390/pathogens10030352>
9. Sneideris, D., **Ivanauskas, A.**, Zizyte, M. et al. secA gene suitability for fast and easy identification of Phytoplasmas by RFLP analysis. *Eur J Plant Pathol* (2021). <https://doi.org/10.1007/s10658-021-02262-3>
10. Sneideris D., **Ivanauskas A.**, Prakas P., Butkauskas D., Treikale O., Kadziene G., Rasiukeviciute R., Kelpsiene J., Suproniene S. 2020. Population Structure of Fusarium

- graminearum Isolated from Different Sources in One Area over the Course of Three Years. *Phytopathology*. 110(7):1312-1318. Doi:10.1094/PHYTO-08-19-0298-R
11. Valiunas D., Jomantiene R., **Ivanauskas A.**, Sneideris D., Zizyte-Eidetiene M., Shao J., Zhao Y., Costanzo S., Davis R. E. 2019. Rapid detection and identification of ‘Candidatus *Phytoplasma pini*’-related strains based on genomic markers present in 16S rRNA and *tuf* genes. – *Forest Pathology*, 49, 6, e12553. <https://doi.org/10.1111/efp.12553>. Online ISSN: 1439-0329. Impact factor: 1.434 (2018), Q2.
  12. Suproniene S., Kadziene G., Irzykowski W., Sneideris D., **Ivanauskas A.**, Sakalauskas S., Serbiak P., Svegza P., Kelpsiene J., Pranaitiene S., Jedryczka M. 2019. Asymptomatic weeds are frequently incised by pathogenic species of *Fusarium* in cereal-based crop rotations. *Weed Research* 59, 312– 323. Impact factor: 1.857. <https://doi.org/10.1111/wre.12367>
  13. Suproniene S., Kadziene G., Irzykowski W., Sneideris D., **Ivanauskas A.**, Sakalauskas S., Serbiak P., Svegza P., Auskalniene O., Jedryczka M. 2019. Weed species within cereal crop rotations can serve as alternative hosts for *Fusarium graminearum* causing *Fusarium* head blight of wheat. *Fungal ecology*, 37:30–37. In Press DOI: <https://doi.org/10.1016/j.funeco.2018.10.002> (IF: 3,736).
  14. Sneideris D., **Ivanauskas A.**, Supronienė S., Kadžienė G., Sakalauskas S. 2018. Genetic diversity of *Fusarium graminearum* isolated from weeds. *European Journal of Plant Pathology*, In Press DOI: <https://doi.org/10.1007/s10658-018-1543-3> (IF: 1,466)
  15. Rasiukeviciute N., Suproniene S., Kelpsiene J., Svegza P., Kadziene G., Sneideris D., **Ivanauskas A.**, Treikale O. 2018. Susceptibility of non-cereal crops to *Fusarium graminearum* complex and their role within cereal crop rotation as a source of inoculum for *Fusarium* head blight. *Spanish Journal of Agricultural Research*, 16(4): e1012. In Press DOI: <https://doi.org/10.5424/sjar/2018164-13952> (IF: 0,811).
  16. Valiunas D., **Ivanauskas A.**, Urbanaviciene L., Sneideris D., Kricenaite J., and Jomantiene R. 2017. First Report of a New Disease of Cucumber in Lithuania: Molecular Genetic Characterization of the Associated *Phytoplasma* and Identification of a Possible Insect Vector, *Stenocranus minutus*. *Plant Disease* 101(2).
  17. **Ivanauskas A.**, Urbonaite I., Jomantiene R., Valiunas D., and Davis R. E. 2016. First Report of ‘Candidatus *Phytoplasma asteris*’ Subgroup 16SrI-A Associated with a Disease of Potato (*Solanum tuberosum*) in Lithuania. *Plant Disease* 100:1, 207-207. <http://dx.doi.org/10.1094/PDIS-05-15-0575-PDN>.
  18. Valiunas, D.; Jomantiene, R.; **Ivanauskas, A.**; Urbonaite, I.; Sneideris, D.; Davis, R.E. 2015. Molecular Identification of *Phytoplasmas* Infecting Diseased Pine Trees in the UNESCO-Protected Curonian Spit of Lithuania. *Forests*, 6, 2469-2483.
  19. **Ivanauskas A.**, Valiunas D., Jomantiene R., Picciau L., Davis R. E. 2014. Possible insect vectors of ‘Candidatus *Phytoplasma asteris*’ and ‘Candidatus *Phytoplasma pruni*’-related strains in Lithuania. *Zemdirbyste-Agriculture* 101(3). DOI 10.13080/z-a.2014.101.040
  20. **Ivanauskas A.**, Valiunas D., Jomantiene R., Staniulis J., Alma A., Picciau L., Davis R. E. 2011: First report of potential phytoplasma vectors: *Euscelis incisus* and *Macrosteles sexnotatus* in Lithuania. – *Bulletin of Insectology* 64(S): S131-S132, ISSN 1721-8861. IF 0,460. (5 Year Impact Factor: 0.460).
  21. Jomantiene R., Valiunas D., **Ivanauskas A.**, Urbanaviciene L., Staniulis J., Davis R. E. 2011: Larch is a new host for a group 16SrI, subgroup B phytoplasma in Ukraine.

Bulletin of Insectology 64(S): S101-S102, ISSN 1721-8861. IF 0,460. (5 Year Impact Factor: 0.460).

22. Valiunas D., Jomantiene R., **Ivanauskas A.**, Abraitis R., Staniene G., Zhao Y., Davis R. E., 2009: First report of a new phytoplasma subgroup, 16SrIII-T, associated with decline disease affecting sweet and sour cherry trees in Lithuania. *Plant Disease*, 93(5): 550. ISSN: 0191-2917. IF 2,121.

***Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science“ database (without citation index):***

1. **Ivanauskas, A.**, Zhang, A., Zhao, Y. and Wei, W., 2023. Exploring changes in volatile organic compounds profiles of tomato plants infected with phytoplasmas. *Phytopathogenic Mollicutes*, 13(1), pp.5-6.
2. **Ivanauskas A.**, Rimsaite J, Danilov J, Soderman G, Sneideris D, Zizyte-Eidetiene M, Wei W, Valiunas D. A Survey of Potential Insect Vectors of Mountain Pine Proliferation Decline Phytoplasma in Curonian Spit, Lithuania. *Environmental Sciences Proceedings*. 2021; 3(1):81. <https://doi.org/10.3390/IECF2020-07977>
3. Jomantiene R., **Ivanauskas A.**, Valiunas D., Urbanaviciene L., Sneideris D. 2016. Epidemics of group 16SrI-A phytoplasmas in a garden of Vilnius region in Lithuania. *Bot. Lith.* 22(1): 16-22.
4. **Ivanauskas A.**, Valiunas D., Ivinskis P., Rimšaitė J. 2014. Some data on cicadomorpha and fulgoromorpha (insecta, hemiptera) of Lithuania. *New and Rare for Lithuania Insect Species* 26, 26-30.

**PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS**

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2024-2028	COST action CA23107, „Įrodymų sintezės tinklas žemės ūkio ir maisto sektoriuje“ (Network for Evidence Synthesis in The Agri-Food Sector (EU-NESA)). Management Committee Substitute.
2022-2026	Participant. COST Action CA21134 - Towards zero Pesticide AGRiculture : European Network for sustainability (TOP-AGRI-Network) project Coordinator: Research Council of Lithuania.
2021-2025	Management Committee Substitute. COST Action CA20113 - A sound proteome for a sound body: targeting proteolysis for proteome remodelling (ProteoCure), project Coordinator: Centre national de la recherche scientifique (CNRS), France.
2015-2018	Primary implementer. “Establishment and diversity of a newly emerging cereal pathogen in the agroecosystem under the influence of changing climate and farming practices” (EDNEPA) according to the National Science Program “Sustainability of agricultural, forest and water ecosystems”.
2013-2015	Primary implementer. Research Council of Lithuania funded project, MIP 13287, „Molecular identification of conifer pathogens from UNESCO protected Curonian Spit“.
2011-2012	Primary implementer Research Council of Lithuania funded project, MIP 11070, „Characterization of phospholipases as potential factors of phytoplasma pathogenicity “.

## INTERNSHIP AND TRAINING

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- 2020-02-01 – Visiting scientist at USDA ARS MPPL , Beltsville, 20705, USA  
2024-03-24
- 2010-11-08 – „COST Short Term Scientific Mission to Di.Va.P.R.A.-Entomologia e Zoologia applicate all' Ambiente Carlo Vidano, University of Turin,Turin, Italy. (COST Action FA0807 Integrated  
2010-11-26
- 2025-01-20-24 Introductory Data Analysis in R course
- 2024-12-05 Training course: „EU Funding Training and opportunities for AI: knowledge and practice“.
- 2011 School on bioinformatical analyses of phytoplasma sequences. (COST Action FA0807 Integrated Management of Phytoplasma Epidemics in Different Crop Systems). (July 5 8, 2011).

## PARTICIPATION IN SCIENTIFIC CONFERENCES

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### International scientific conferences:

1. **Ivanauskas, A.**, Zhang, A., Zhao, Y. and Wei, W., 2023. Exploring changes in volatile organic compounds profiles of tomato plants infected with phytoplasmas. *Phytopathogenic Mollicutes*, 13(1), pp.5-6. 5th meeting of the International Phytoplasma Working Group (IPWG), 2023-05-21-25, Sultanate of Oman, Muscat.
2. **A. Ivanauskas**, J. Rimsaite, J. Danilovas, G. Soderman, D. Sneideris, M. Zizyte-eidetiene, W. Wei, D. Valiunas. The 1st International Electronic Conference on Forests - Forests for a Better Future: Sustainability, Innovation, Interdisciplinarity, 15-30 November 2020 (abstract "A survey of potential insect vectors of mountain pine proliferation decline phytoplasma in Curonian Spit, Lithuania" in press).
3. Suproniene S., Kadziene G., Sneideris D., **Ivanauskas A.**, Sakalauskas S., Svegzda P., Kelpsiene J., Pranaitiene S. 2017. Diversity of FHB causing Fusarium species from weeds of non-cereal crops. NJF Seminar 494 // Nordic Baltic Fusarium seminar, March 9 - 10, Riga, Latvia. Book of abstracts, 51.
4. Suproniene S., Kadziene G., Versulienė A., Sneideris D., **Ivanauskas A.**, Kelpsiene J., Rasiukeviciute N. 2017. The influence of soil tillage and crop management in the agroecosystems on soil fungistasis against Fusarium graminearum. 12th EFPP (European Foundation for Plant Pathology) and 10th SFP (French Society for Plant Pathology) Conference „Deepen knowledge in plant pathology for innovative agroecology“, May 29 - June 2, Dunkerque, France. Book of abstracts 105. <https://efpp12sfp10.univ-littoral.fr/wp-content/uploads/2017/07/2.-Book-of-abstracts.pdf>
5. Jomantiene R., Valiunas D., **Ivanauskas A.**, Urbanaviciene L., Staniulis J., Davis R. E. 2011: Larch is a new host for a group 16SrI, subgroup B phytoplasma in Ukraine. Second International Phytoplasma Working Group Meeting. Neustadt/Weinstrasse, Germany, 12-16 September 2011. [http://www.ipwgnet.org/index.php?option=com\\_content&view=article&id=38&Itemid=33](http://www.ipwgnet.org/index.php?option=com_content&view=article&id=38&Itemid=33)
6. **Ivanauskas A.**, Valiunas D., Jomantiene R., Staniulis J., Alma A., Picciau L., Davis R. E. 2011: First report of potential phytoplasma vectors: Euscelis incisus and Macrosteles

- sexnotatus in Lithuania. - Second International Phytoplasmologist Working Group Meeting. Neustadt/Weinstrasse, Germany, 12-16 September 2011. [http://www.ipwgnet.org/index.php?option=com\\_content&view=article&id=38&Itemid=33](http://www.ipwgnet.org/index.php?option=com_content&view=article&id=38&Itemid=33)
7. D. Valiunas, R. Jomantiene, **A. Ivanauskas**, D. Sneideris, J. Staniulis, R.E. Davis. 2010: A possible threat to the timber industry: ‘Candidatus Phytoplasma pini’ in Scots pine (*Pinus sylvestris* L.) in Lithuania. Abstract book of the combined meeting of Work Groups 1-4, COST Action FA0807, Editors A. Bertaccini, A. Lavifia, E. Torres, Current status and perspectives of phytoplasma disease research and management, Sitges, Spain, February 1th and 2nd, 2010. Page 38. ISBN-13: 978-84-692-98916

### National scientific conferences:

1. Dėlkus M., Žižytė-Eidetienė M., **Ivanauskas A.**, Valiūnas D. 2024. Diversity and prevalence of phytoplasmas in Lithuanian berry plants. 17<sup>th</sup> *Conference of Young Scientists "Biofuture: Perspective of Natural and Life Sciences"*. 21 November, Vilnius, Lithuania. Book of Abstracts: 12. <https://gamtostyrimai.lt/wp-content/uploads/2024/11/2024-11-21-konferencijos-BIOATEITIS-pranesimu-tezes.pdf>
2. Dėlkus M., Valiūnas D, Žižytė-Eidetienė M., **Ivanauskas A.** 2023. Fitoplazminių infekcijų uoginiuose augaluose plitimo keliai ir kontrolės būdai. Kaip išvengti pesticidų? – HERBOLOGIJA 2023: Piktžolių ekologija ir kontrolė: programa ir pranešimų santraukos: 27-30. 23 March, Kaunas, Lithuania. ISBN 9786094491160. [https://zua.vdu.lt/wp-content/uploads/2023/03/Herbologu-konferencijos-2023-03-21\\_1-1.pdf](https://zua.vdu.lt/wp-content/uploads/2023/03/Herbologu-konferencijos-2023-03-21_1-1.pdf)
3. **Ivanauskas A.** 2013. Phytoplasmas and their insect vectors in Lithuania. Conference for the young scientists „BIOATEITIS“: perspectives of the nature and life sciences. Vilnius. 2013-12-11. Awarded for the one of the best presentations.

## PARTICIPATION IN THE STUDY PROCESS

### *Supervision of PhD students:*

Natural Sciences (N000). *Biology* (N010)

<b><u>Martynas</u></b>	Topic of PhD thesis: Molecular analysis and impact of	2021-10-01 -
<b><u>Dėlkus</u></b>	unculturable phytoplasmas on endophytic bacterial microbiomes of infected berry plants.	2025-09-31

### *Supervision of bachelor and master students:*

#### **Kotryna Čekuolytė**

B. S.: „Molecular characterization of 16SrI-S and 16SrI-C subgroup phytoplasmas using *rpoB* and *secA* genes as complementary markers.” 2015 – 2017

#### **Tadas Ryška**

B. S.: „Identification and classification of phytoplasmas detected in mountain pine (*Pinus mugo*) and blueberry (*Vaccinium corymbosum*) using genetic markers.” 2016 – 2018

## OTHERS

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Member of Lithuanian Microbiological Society

### Publications for general public in Lithuania:

1. Marija Žižytė-Eidetienė, Martynas Dėlkus, **Algirdas Ivanauskas**, Deividas Valiūnas. 2025. Grėsmė uoginiams augalams ir natūralioms ekosistemoms. Mano ūkis, Augalininkystė, 2025/01: p. 40-41 <https://manoukis.lt/mano-ukis-zurnalas/2025/01/gresme-uoginiams-augalams-ir-naturalioms-ekosistemoms/>
2. Marija Žižytė-Eidetienė, Augustas Mikalauskas, Martynas Dėlkus, **Algirdas Ivanauskas**, Deividas Valiūnas. 2023-07-22. Mėlynių ligos: fitoplazmos. Kas tai? Ūkininko patarėjas. <https://ukininkopatarejas.lt/naujienos/melyniu-ligos-fitoplazmos-kas-tai/>
3. Indrė Urbonaitė, Deividas Valiūnas, **Algirdas Ivanauskas**, Rasa Jomantienė 2012-12-05. Galime netekti tokios Kuršių nerijos, kokią esame įpratę matyti. - Vakarų ekspresas.
4. Indrė Urbonaitė, Deividas Valiūnas, **Algirdas Ivanauskas**, Rasa Jomantienė 2014-07. Fitoplazma – klastinga Kuršių nerijos pušų kenkėja. Mūsų Girios.