

Donatas Sneideris

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

2011 – 2015 PhD in Biomedical sciences, botany (04B). Dissertation theme: „Nepovirus caused plant diseases and genetic variability of virus isolates in Lithuania“. (Vilnius University and Nature Research Centre).
2009 – 2010 Vilnius University, Faculty of Nature Sciences, Microbiology programme, Master's degree in biology.
2004 – 2008 Vilnius University, Faculty of Nature Sciences, Molecular biology programme, Bachelor's degree in biology.

PROFESSIONAL EXPERIENCE

2015 – present Nature Research Centre. Researcher.
2014 – 2015 Nature Research Centre. Biologist.
2011 – 2012 Nature Research Centre. Specialist.
2008 – 2010 Institute of Botany. Senior technician.

RESEARCH INTERESTS

Viral, bacterial, fungal and protozoan pathogen/parasite research. Work with conventionally unculturable microorganisms employing genetic approach (DNA/RNA purification, Polymerase chain reaction (PCR, RT-PCR, nested PCR), Restriction fragment length polymorphism (RFLP), Vector construction and DNA cloning, Bacterial (*E. coli*, *A. tumefaciens*) transformation and gene expression in plants, Nucleotide sequence analysis, Phylogenetic analysis, Population structure analysis (R package - POPPR, GenAlEx) and Transmission electron microscopy (EM, ISEM)).

PUBLICATIONS

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

1. **Sneideris D.**, Stalpes M., Butkauskas D., Prakas P. (2022). A novel RFLP method for identification of morphologically similar avian Sarcocystis species. Parasitology research. 121(7):2161-2166. DOI:10.1007/s00436-022-07553-0
2. Ivanauskas A., Valiunas D., Rimsaite J., Danilov J., **Sneideris D.**, Zizyte-Eidetiene M., Wei W. (2022). 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. 52(1):1-8. DOI:10.1139/cjfr-2021-0152

3. Köster P. C., Renelies-Hamilton J., Dotras L., Llana M., Vinagre-Izquierdo C., Prakas P., **Sneideris D.**, Dashti A., Bailo B., Lanza M., Jiménez-Mejías A., Muñoz-García C., Muadica A. S., González-Barrio D., Rubio J. M., Fuentes I., Ponce-Gordo F., Calero-Bernal R., Carmena D. (2021). Molecular detection and characterization of intestinal and blood parasites in wild chimpanzees (*Pan troglodytes verus*) in Senegal. *Animals*. 11(11):1-23. DOI:10.3390/ani111113291
4. Juozaitytė-Ngugu E., Švažas S., **Sneideris D.**, Rudaitytė-Lukošienė E., Butkauskas D., Prakas P. (2021). The role of birds of the family Corvidae in transmitting *Sarcocystis* protozoan parasites. *Animals*. 11(11):1-11. DOI:10.3390/ani111113258
5. Kelpšienė J., **Sneideris D.**, Burokienė D., Supronienė S. (2021). The presence of pathogenic bacteria *Pseudomonas syringae* in cereals in Lithuania. *Zemdirbyste-Agriculture*. 108(4):291-296. DOI:10.13080/z-a.2021.108.037
6. **Sneideris D.**, Ivanauskas A., Zizyte M., Valiunas D. (2021). *secA* gene suitability for fast and easy identification of Phytoplasmas by RFLP analysis. *European Journal of Plant Pathology*. 160(3):737–743. DOI:10.1007/s10658-021-02262-3
7. Prakas P., Rudaitytė-Lukošienė E., **Sneideris D.**, Butkauskas D. (2021). Invasive American mink (*Neovison vison*) as potential definitive host of *Sarcocystis elongata*, *S. entzerothi*, *S. japonica*, *S. truncata* and *S. silva* using different cervid species as intermediate hosts. *Parasitology Research*. 120(6):2243–2250. DOI:10.1007/s00436-021-07180-1
8. **Sneideris D.**, Ivanauskas A., Prakas P., Butkauskas D., Treikale O., Kadziene G., Rasiukeviciute N., 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
9. Valiunas D., Jomantiene R., Ivanauskas A., **Sneideris D.**, Zizyte-Eidetiene M., Shao J., Yan Z., 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):12553. DOI:10.1111/efp.12553
10. Suproniene S., Kadziene G., Irzykowski W., **Sneideris D.**, Ivanauskas A., Sakalauskas S., Serbiak P., Svezgda P., Kelpsiene J., Pranaitiene S., Jedryczka M. (2019). Asymptomatic weeds are frequently colonized by pathogenic species of *Fusarium* in cereal-based crop rotations. *Weed Research*. 59(4):312-323. DOI:10.1111/wre.12367
11. Suproniene S., Kadziene G., Irzykowski W., **Sneideris D.**, Ivanauskas A., Sakalauskas S., Serbiak P., Svezgda 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. DOI:10.1016/j.funeco.2018.10.002
12. **Sneideris D.**, Ivanauskas A., Suproniene S., Kadziene G., Sakalauskas S. (2019). Genetic diversity of *Fusarium graminearum* isolated from weeds. *European Journal of Plant Pathology*. 153(2):639-643. DOI:10.1007/s10658-018-1543-3
13. Rasiukeviciute N., Suproniene S., Kelpsiene J., Svezgda 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):1012. DOI:10.5424/sjar/2018164-13952
14. Valiunas D., Ivanauskas A., Urbanaviciene L., **Sneideris D.**, Kricenaite J., 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):379. DOI:10.1094/PDIS-09-16-1318-PDN
15. 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. DOI:10.3390/f6072469

16. Urbanaviciene L., **Sneideris D.**, Zizyte M. (2015). Wheat streak mosaic virus detected in winter wheat in Lithuania. *Zemdirbyste-Agriculture*. 102(1):111-114. DOI:10.13080/z-a.2015.102.014
17. **Sneideris D.**, Staniulis J. (2014). Phylogenetic analysis of Lithuanian Tomato black ring virus isolates. *Zemdirbyste-Agriculture*. 101(2):193-198. DOI:10.13080/z-a.2014.101.025
18. **Sneideris D.**, Zizyte M., Zitikaite I., Urbanaviciene L., Staniulis J. (2013). First report of two distinct strains of Pepino mosaic virus infecting tomatoes in greenhouses in Lithuania. *Journal of Plant Pathology*. 95(1):217.
19. Staniulis J., Zitikaite I., Zizyte M., Jackeviciene E., Urbanaviciene L., **Sneideris D.** (2012). Detection and molecular identification of alien viruses of plums, sugar beets and tomatoes. *Zemdirbyste-Agriculture*. 99(1):85-92.
20. **Sneideris D.**, Zitikaite I., Zizyte M., Grigaliunaite B., Staniulis J. (2012). Identification of nepoviruses in tomato (*Lycopersicon esculentum* Mill.). *Zemdirbyste-Agriculture*. 99(2):173-178.

Scientific articles published in conference proceedings, indexed in „Clarivate Analytics Web of Science“ database:

1. 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. The 1st International Electronic Conference on Forests—Forests for a Better Future: Sustainability, Innovation, Interdisciplinarity, Session Forest Genetics, Ecophysiology and Biology. 2020, November 12. Environmental sciences proceedings, 2021, 3(1), 81. DOI:10.3390/IECF2020-07977

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

1. 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. *Botanica*. 22(1):16-22. DOI:10.1515/botlit-2016-0002
2. Zizyte M., **Sneideris D.**, Zitikaite I., Urbanaviciene L., Staniulis J. (2013). Characterization of Two Distinct *Pepino Mosaic Virus* Isolates from Tomato in Lithuania. *Botanica*. 19(1):22-27. DOI:10.2478/botlit-2013-0003

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

2015 – 2018	SIT-05/2015. "Establishment and diversity of a newly emerging cereal pathogen in the agroecosystem due to changing climate and farming practices". Project funded by Lithuanian Research Council via national research programme "Sustainability of agro, forest and water ecosystems".
2010 – 2012	LEK-16/2010. „Genetic variability and spread factors of alien viruses of fruit tree and vegetables“. Project funded by Lithuanian Research Council via national research programme “Climate change and human influence on Lithuanian ecosystems”.
2007 – 2009	LVMSF N-07010. „Detection of phytoplasmas and viroids, and their removal from biotechnology plants“. Project funded by Lithuanian Research Council via research programme “Establishment of biotechnology in Lithuania”.

PARTICIPATION IN SCIENTIFIC CONFERENCES

International scientific conferences:

1. 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. The 1st International Electronic Conference on Forests—Forests for a Better Future: Sustainability, Innovation, Interdisciplinarity, Session Forest Genetics, Ecophysiology and Biology. 2020, November 12. Environmental sciences proceedings, 2021, 3(1), 81. DOI:10.3390/IECF2020-07977
2. Rudaityte-Lukosiene E., Prakas P., Butkauskas D., **Sneideris D.** Identification of Sarcocystis spp. in intestine of American mink using molecular COI analysis. 79th International Scientific Conference of the University of Latvia. Innovative and applied research in biology. 2021, February 5, Riga, Latvia. Book of abstracts 15.
3. Prakas P., Serviene E., Butkauskas D., Strazdaite-Zieliene Z., Rudaityte-Lukosiene E., Juozaityte-Ngugu E., Baranauskaite A., **Sneideris D.**, Siksniete E. Apicoplexa Virtual Meeting, Diagnosis of apicomplexan parasites. 2021, February 18. <http://www.apicowplexa.net/wp-content/uploads/2021/02/Abstracts-February-18-2021.pdf>
4. Prakas P., Juozaityte-Ngugu E., Rudaityte-Lukosiene E., **Sneideris D.**, Butkauskas D. Molecular identification of Sarcocystis species in the intestines of mustelids from Lithuania. Conference of the Scandinavian - Baltic Society for Parasitology. 2021, April 21-23, Vilnius, Lithuania. Book of abstracts: 113.
5. Suproniene S., Kadziene G., Versulienė A., **Sneideris D.**, Ivanauskas A., Kelpsiene J., Rasiukeviciute N. 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“. 2017, May 29 - June 2, Dunkerque, France. Book of abstracts 105.
6. Suproniene S., Kadziene G., **Sneideris D.**, Ivanauskas A., Sakalauskas S., Svegza P., Kelpsiene J., Pranaitiene S. Diversity of FHB causing Fusarium species from weeds of non-cereal crops. NJF Seminar 494, Nordic Baltic Fusarium seminar. 2017, March 9 - 10, Riga, Latvia. Book of abstracts 51.
7. **Sneideris D.**, Staniulis J. A novel plant RNA virus infecting european mountain ash (Sorbus aucuparia) in Lithuania. VII international conference „Bioresources and Viruses“. 2013, September 10 - 13, Ukraine, Kyiv. Book of abstracts 101.
8. **Sneideris D.**, Zitikaite I., Zizytė M., Grigaliunaite B., Staniulis J. Identification of nepoviruses in tomato (Lycopersicon esculentum Mill.). International workshop-seminar „Plant biotechnology advances in agriculture“. 2011, October 27, Kaunas, Lithuania. Book of abstracts 24.
9. Valiunas D., Jomantiene R., Ivanauskas A., **Sneideris D.**, Staniulis J., Davis R. E. A possible threat to the timber industry: ‘Candidatus Phytoplasma pini’ in Scots pine (Pinus sylvestris L.) in Lithuania. COST Action FA0807 “Current status and perspectives of phytoplasma disease research and management”. 2010, February 1 - 2, Sitges, Spain. Book of abstracts 38.

PARTICIPATION IN THE STUDY PROCESS

Supervision of bachelor and master students:

Ieva Senulyte Bachelor thesis: „Development of Phytoplasma protein 2016–2017 expression system“ (Vilnius University, Microbiology and Biotechnology programme).