Curriculum Vitae

Alina Dunich

Personal information

Dunich Alina

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Gender F| Date of Birth 02/11/1983| Citizenship Ukraine

Scientific degree, field	PhD, virology
Academic rank	-
Position	Assistant
Department	Virology
Faculty/ Institute	ESC "Institute of Biology and Medicine"
Part-time position	Researcher

TEACHING:

In the current year	1. Viruses as vector systems (educational level " Master", specialty «Biology» according to the programs of training «Biology») - lectures and practical sessions. 2. Mechanisms of plant resistance to viral infections (educational level "Master", specialty «Biology» - lectures and practical sessions. 3. Architecture of viruses (educational level "Bachelor", specialty «Biology» – lectures 4. Virology laboratory classes (educational level "Bachelor", specialty «Biology»), 4th year of study
In previous years	Virology, bachelor (2nd year), lab work.

SCIENTIFIC AND TEACHING EXPERIENCE

Period	Description
From 09.2021 until now	Assistant, Virology Department, ESC 'Institute of Biology and Medicine'
	Taras Shevchenko National University of Kyiv (64/13, Volodymyrska Street, Kyiv, Ukraine, 01601, http://www.univ.kiev.ua)
	Education/Science
From 03.2021 until now	Researcher, ESC 'Institute of Biology and Medicine', № 21BF036-02
	Taras Shevchenko National University of Kyiv (64/13, Volodymyrska Street, Kyiv, Ukraine, 01601, http://www.univ.kiev.ua)
	Education/Science
From 02.2019 until 03.2021	Junior researcher, ESC 'Institute of Biology and Medicine', №19BF036-03
	Taras Shevchenko National University of Kyiv (64/13, Volodymyrska Street, Kyiv, Ukraine, 01601, http://www.univ.kiev.ua)
	Education/Science
From 03.2013 until 12.2018	Researcher, Scientific laboratory 'Ecology of viruses and diagnostics of viral diseases', №11BF036-02 and 16BF036-02, ESC 'Institute of Biology and Medicine'
	Taras Shevchenko National University of Kyiv (64/13, Volodymyrska Street, Kyiv, Ukraine, 01601, http://www.univ.kiev.ua)

	Education/Science
From 03.2010 until 03.2013	Junior researcher, ESC 'Institute of Biology and Medicine'
	Taras Shevchenko National University of Kyiv (64/13, Volodymyrska Street, Kyiv, Ukraine, 01601, http://www.univ.kiev.ua)
	Education/Science

EDUCATION AND TRAINING

Period	Description
From 10.2006 until 09.2009	PhD studentship, Virology department, faculty of biology, Taras Shevchenko National University of Kyiv PhD in virology (specialty 03.00.06) PhD thesis: 'Biological properties of viruses infecting medicinal plants'.
From 09.2000 until 06.2006	Studentship at Biology Faculty of Taras Shevchenko National University of Kyiv Qualification – MS in biology, virologist, teacher of biology

PERSONAL SKILLS AND COMPETENCES

Item	Level (description)
Native language	Ukrainian
Foreign languages	English, Russian
Social/Communication Competences	Communication skills were obtained when working as the researcher at the department of Virology, ESC 'Institute of Biology and Medicine', Taras Shevchenko National University of Kyiv
Organizational/ manager competences	Supervisor of student's research works.
Computer Skills	Good knowledge of: Windows XP, Vista, Windows 7, Linux. Good knowledge of MS Office tools (Excel, Word, Outlook), web browers (Opera, Internet Explorer, Mozilla Firefox, Chrome,) and e-mail applications (Outlook Express); text and graphic editors (Word, WordPad, PowerPoint, Paint, Excel, Photoshop, Picasa). Programs DNA-Star, MEGA, Bioedit, SDT.
Methodological and Technical Expertise	Methods: biotesting, extraction of viruses from plant material, transmission electron microscopy, spectrophotometry, ELISA, gel electrophoresis of nucleic acids and proteins, PCR, RT-PCR, phylogenetic analysis.
Professional Interests	Viral diseases of cereals, legumes and medicinal crops, the effect of phytoviral infection on the content of biologically active substances in medicinal plants, diagnostics of plant viruses, phylogeny and origin of plant viruses, resistance and mechanisms of plant protection against viruses, measures to prevent viral infections.

ADDITIONAL INFORMATION

Item	(titles of publications, presentations, projects, conferences, seminars, awards and prizes, membership in academies, professional and scientific associations, etc.)

Selected publications	Міщенко Л.Т., Дуніч А.А., Дащенко А.В., Поліщук В.П. Вірусні хвороби лікарських рослин. – К.: Фітосоціоцентр, 2015. – 320 с. Mishchenko L., Dunich A., Dashchenko A., Bondus R. Molecular characterization of cucumber mosaic virus infecting *Echinacea purpurea* in Ukraine // Archives of Phytopathology and Plant Protection. - 2021. https://doi.org/10.1080/03235408.2021.1899378 Mishchenko L., Dunich A., Molodchenkova O., Hlushchenko L. First report of cherry leaf roll virus from *Sambucus nigra* in Ukraine. Journal of Plant Pathology. -2021. - https://doi.org/10.1007/s42161-021-00884-4 Mishchenko L., Dunich, A., Smertenko A., Dashchenko A., Sovinska R., Korotieieva H. First report of bean yellow mosaic virus infecting *Gladiolus* sp. in Ukraine. Journal of Plant Pathology. - 2020. –Vol. 102. – P. 923–924. Dunich A., Mishchenko L., Dashchenko A. PVY^{N-Wi} isolate from tomato plants in Ukraine // Archives of Phytopathology and Plant Protection. – 2020. –Vol.53, Is.3-4. – P. 112-126. Pryvedeniuk N., Hlushchenko L., Mishchenko I., Dunich A., Mishchenko L. New approaches in growing technology of *Valeriana officinalis* l. under the conditions of climate change// Agriculture and Forestry. – 2020. – Vol 64 (4). – P. 19-28. Совінська Р., Дуніч А, Міщенко Л. Ураженість рослин гладіолусів вірусом жовтої мозаїки квасолі, вірусом огіркової мозаїки та вірусом кільцевої плямистості тютюну на території деяких північних і центральних областей України // Вісник Київського національного університету імені Тараса Шевченка. Біологія. – 2020. – Т.81 №2, С. 36- 42. Совінська Р.С., Міщенко Л.Т., Дуніч А.А. Віруси, що уражують гладіолуси (*Gladiolus hybridus*), та їх шкідливий вплив на сільськогосподарські культури // Карантин і захист рослин. – 2020. - №10-12 (263). – С. 12-18. DOI: https://doi.org/10.36495/2312-0614.2020.10-12.12-18 Mishchenko L. T., Dunich A. A., Skrypkina I. Ya., Kozub N. O. Phylogenetic analysis of two Ukrainian isolates of *Wheat streak mosaic virus* // Biopolymers and Cell. –2019. –Vol. 35. N 1. –P 64–77. Mishchenko, I., Dashchenko, A., Dunich A., Mishchenko L. Influence of abiotic and biotic factors on productivity of transgenic soybean and molecular properties of disease pathogen // Agriculture & Forestry. – 2019. – 65(4). – 15-25. Молодченкова О. О., Міщенко Л. Т., Дуніч А. А., Рищакова О. В., Безкровна Л. Я., Фанін Я. С. Вплив вірусної інфекції на біохімічні протекторні реакції рослин пшениці // ScienceRise.Біологічні науки. – 2019. - №5-6(20-21). – С. 9-15. Mishchenko L., Dunich A., Taran O., Dashchenko A., Polischuk V., Kondratyuk O. Phylogenetic relationships of two Ukrainian tomato isolates of potato virus M and genetic variability analysis of its population // Acta Virologica. – 2018. - Vol.62, No.2. – P. 214-219. doi:10.4149/av_2018_214 Mishchenko L. T., Dunich A. A., Shcherbatenko I. S. Phylogenetic analysis of Ukrainian seed-transmitted isolate of *Soybean mosaic virus* // Biopolymers and Cell. - 2018. - Vol. 34(3). - P 229–238. Mishchenko, L. T., Dunich, A. A., Mishchenko, I. A., Petrenkova, V. P., & Mukha, T. I. (2018). Monitoring of economically important wheat viruses under weather conditions change in Ukraine and investigation of seed transmission of *Wheat streak mosaic virus* // Bulgarian Journal of Agricultural Science. – 2018. – 24(4). – P. 660–669. Mishchenko L.T., Dunich A.A., Dikova B., Mishchenko I.A., Glushchenko L.A. Effective use of organic farming' elements in medicinal plants cultivation - the way to increase plants resistance against viruses on the example of purple coneflower // Bulgarian Journal of Agricultural Science. – 2018. – 24(5). – P. 844-853. Mishchenko L., Dunich A., Mishchenko I., Molodchenkova O. Molecular and biological properties of *Soybean mosaic virus* and its influence on the yield and quality of soybean under climate change conditions // Agriculture & Forestry. -2018. –Vol. 64 Issue 4. – P. 39-47. Міщенко Л.Т., Дуніч А.А., Будзанівська І.Г., Міщенко І.А. Вірусні інфекції пшениці озимої і сої та їх вплив на урожайність культур за умов змін клімату // Вісник Київського Університету ім. Тараса Шевченка. Сер. Біологія. – 2018. - Т.75, №1. – С. 11-21. Міщенко Л.Т., Дуніч А.А., Дащенко А.В., Молодченкова О.О., Кондратюк О.А Вплив вірусу мозаїки сої на урожайність трансгенної сої та дослідження його молекулярно-генетичних властивостей // Наукові доповіді Національного університету біоресурсів і природокористування України [Електронний ресурс]. – 2018. - № 2 (72).– С. 1-11. Міщенко Л.Т., Дуніч А.А., Кандаурова К.Ф., Кондратюк О.А. Насіннєва передача вірусів рослин: основи, принципи та методика її визначення // Карантин і захист рослин. – 2018. - № 1-2 (246). – С. 9-14. Dikova B., Mishchenko L., Mishchenko I., Dunich A., Glushenko L. Approaches of introducing the principles about the biological (organic) agriculture on *Echinacea purpurea* for control of viral diseases // New knowledge Journal of science. - 2018. – Vol.7, № 2. – P. 197-208. Dikova B., Mishchenko L., Dunich A., Dashchenko A. *Tomato spotted wilt virus* on giant hyssop and common valerian in Ukraine and Bulgaria // Bulgarian Journal of Agricultural Sciences. – 2016. – Vol. 22, № 3. – P. 108–113. Dunich A., Mishchenko L. Purple coneflower viruses: species diversity and harmfulness // Biopolymers and Cell. – 2015. – Т.31, №1. – С. 15–28.

Projects	№ 21BF036-02 ‘Virological management of dangerous plant diseases as a component of biosafety of Ukraine’ Grant CRDF Global, USA, № FSA3-19-65504-0-1 «Reducing impact of pathogens on yield: development of diagnostics for early stages of plant diseases» (responsible investigator) № 19DP036-02 (M/135-2019 MES of Ukraine) and № 20DP036-03 (M/83-2020 MES of Ukraine) ‘Reducing impact of pathogens on yield: development of diagnostics for early stages of plant diseases’(responsible investigator) № 16BF036-02 ‘Molecular typing and mechanisms of evolutionary adaptation of viruses of cultural and wild-growing flora of Ukraine’ № 11BF036-02 ‘Biodiversity conservation and comprehensive study of strategies for adaptation of phyto-, zoo- and virobiota of Ukraine with the use of bioinformation technologies’
Conferences	XII International Scientific Agriculture Symposium "Agrosym 2021", Jahorina, Bosnia and Herzegovina, October 7-10, 2021 5th Symposium on EuroAsian Biodiversity (SEAB-2021), 1-3 July 2021, Turkey 43rd COSPAR Scientific Assembly 2021, 28 January – 4 February 2021, Sydney, Australia XI International Scientific Agriculture Symposium "Agrosym 2020", Jahorina, Bosnia and Herzegovina, October 8-9, 2020 II International agricultural, biological & Life science conference, 1-3 September, 2020, Edirne, Turkey 9th International Conference ‘Bioresourcesand Viruses’, 9-11 September 2019, Kyiv, Ukraine X International Agriculture Symposium "AGROSYM 2019", 3-6 October 2019, Jahorina, Bosnia and Herzegovina
Awards	Taras Shevchenko Award, Taras Shevchenko National University of Kyiv (for the monograph ‘Viral diseases of medicinal plants’), authors Mishchenko L.T., Dunich A.A., Dashchenko A.V., Polischuk V.P.
Membership	S.M. Vynogradsky Society of Microbiologists of Ukraine Ukrainian Association of Virologists
Scopus and Web of Science profiles	Author ID Scopus: 55773267000 Author ID Web of Science: AAU-7332-2021