

Katerina Bandjo Oreshkovikj, PhD

Senior research associate
UKIM Institute of Agriculture Skopje
Department of Plant Protection
16-ta Makedonska brigada, No 3A, 1000 Skopje
Tel: +389 2 3230910
Fax: +389 2 3114283
e-mail: kbandzo@yahoo.com

Academic qualifications**2015. – PhD**

UKIM Faculty of Agricultural Sciences and Food Skopje
Molecular characterization of CMV, AAMV and PVY on pepper cultivated on open fields in R. Macedonia

2010. – M. Sc.

UKIM Faculty of Agricultural Sciences and Food Skopje
European cherry fruit fly (*Rhagoletis cerasi* L.) and influence of some characteristics of cherry varieties on the percentage of infested fruits

2007. – B. Sc.

UKIM Faculty of Agricultural Sciences and Food Skopje

Training and research experience**2022.**

Plant Health Surveys, European Commission on Better Training for Safer Food, Nice, France

2012.

Integrated Pest Management, Agricultural Research Organization ARO and Ministry of Agriculture and Rural Development, Centre for International Agricultural Development Cooperation, CINADCO, Tel Aviv, Israel

2008.

Entomology Course 2008, Koppert, Rotterdam, the Netherlands

2006.

Citrus diseases caused by restricted prokaryotes (CDRP), CIHEAM-MAIB, Mediterranean Agricultural Institute, Bari, Italy

Employment and work experience
<p>2011. – now UKIM Institute of Agriculture Skopje</p> <p>2009. – 2011. UKIM Faculty of Agricultural Sciences and Food Skopje</p> <p>2007. – 2009. UKIM Institute of Agriculture Skopje</p>
Research interests
<ul style="list-style-type: none"> - Plant virus diseases - Biology and ecology of pests and diseases - Integrated pest management
Teaching
<p>2022. – now Program Organic and biodynamic plant production</p> <ul style="list-style-type: none"> - Plant protection in organic and biodynamic production - Climatic variability and vulnerability of organic production - Quarantine diseases and pests in organic production <p>2011. – 2014. Teaching activities on the subject of Biochemistry on the department of Biochemistry and genetic engineering on UKIM Faculty of Agricultural Sciences and Food Skopje</p> <p>2009. – 2010. Teaching activities on the group of subjects on Entomology on the department of Plant protection on UKIM Faculty of Agricultural Sciences and Food Skopje</p>
Other professional activities
<p>2021. – 2026. Member of the expert commission in approving phytopharmaceutical products</p> <p>2017. – now Member of the Plant protection association of R. Macedonia</p> <p>2014.</p>

Participation in the workshop “On-farm behaviour of *Rhagoletis cerasi* and *Drosophila suzukii* and its modelling for enhancement of IPM”, held in Warsaw, Poland, organized by the FP7 REGPOT “Warsaw Plant Health Initiative” Project

2014.

Member of the Editorial board of the scientific conference “Challenges in modern agricultural production” organized by the Agricultural institute – Skopje, 11.12.2014, Skopje

2014.

Member of the Conference secretary of the scientific conference “Challenges in modern agricultural production” organized by the Agricultural institute – Skopje, 11.12.2014, Skopje

2012. – 2014.

Member of the commission for plant health. Ministry of agriculture, forestry and water economy

Scientific and applicative projects

Weed vegetation as a plant host and source of viral diseases in pepper, University Ss. Cyril and Methodius, 2024

Determining the health status of 10 autochthonous pepper varieties from the Gene Bank, regeneration of the seed material and evaluation of the yield components, Institute of Agriculture, 2023

Study on the socio-economic condition of the youth in the rural areas in Macedonia, University Ss. Cyril and Methodius, 2023

EIT Smart farming - future of the agriculture and rural development, European Institute of Innovation and Technology, 2022

Mead as an innovative product in beekeeping and wine production, Gazi baba, 2022

Content of copper in vineyards from the Tikvesh region, University Ss. Cyril and Methodius, 2022

Creating enabling environments for enhanced climate resilience in agriculture, FAO, 2021-2022

EIT Food Start-Up Awareness Event, European Institute of Innovation and Technology, 2021

Antioxidant activity of fruits of indigenous varieties and populations of fruits, vegetables and grapes, University Ss. Cyril and Methodius, 2021

Preparing a Country Programme Strategy for the Operational Phase 7 (OP7) 2018-2022 of the GEF, SGP GRANTS Project – MKD/SGP/OP6/Y5/CORE/CPS/2019/01, 2019

Influence of the ampelotechnic measures on grape and wine quality of the Vranec variety, University Ss. Cyril

and Methodius, 2019

Yield and quality characteristics on new rice varieties (*Oryza sativa* L.), registered in Republic of Macedonia, University Ss. Cyril and Methodius, 2018

Characterization of the autochthonous varieties of pomegranate in R. Macedonia, University "Ss. Cyril and Methodius", 2017

Preparing a Country Programme Strategy for the Operational Phase 6 (OP6) 2014-2018 of the GEF, Global Environmental facility (GEF) Small Grants Programme (SGP) in collaboration with United Nations Development Programme (UNDP), 2015-2016

Biological pest control in green houses in the vegetable production, University "Ss. Cyril and Methodius", 2016

Introduction of new foreign rice varieties in the rice production in Republic of Macedonia, University "Ss. Cyril and Methodius", 2015

Development of the rice production and quality in Republic of Macedonia, TIKA, 2013-2014

COST Action FA1104 – Sustainable production of high-quality cherries for the European market, European union, 2012-2015

Seed dressing (Planterbox treatment) with *Trichoderma* sp.: Effect on yield in wheat, Koppert B.V., Rotterdam, Netherlands, 2012-2013 – applicative project

Seed dressing (Planterbox treatment) with *Trichoderma* sp.: Effect on yield in corn, Koppert B.V., Rotterdam, Netherlands, 2013 – applicative project

Use of modern DNA methods in improvement of the plant production and protection of the agrobiodiversity in Republic of Macedonia, Ministry for agriculture, forestry and water management, 2012

Scientific publications

[1] Bandjo Oreshkovikj, K., Kuzmanovska, B., Rusevski, R., Control effects of various fungicides against powdery mildew of grapevine, *XII International Symposium on Agricultural Sciences "AgroReS 2023" (Book of abstracts)*, University of Banja Luka, Faculty of Agriculture, 24-26.V.2023 Trebinje, Bosnia and Herzegovina, 166 (2023).

[2] Bandjo Oreshkovikj, K., Rusevski, R., Kuzmanovska, B., Biocontrol of *Uncinula necator* – the cause of powdery mildew of grapevine with the use of *Bacillus pumilus*, *IV International Symposium for Agriculture and Food - ISAF 2022 (Book of abstracts)*, Faculty for Agricultural sciences and food - Skopje, 12-14.X.2022 Ohrid, 94 (2022).

- [3] Bandjo Oreshkovikj, K., Rusevski, R., Kuzmanovska, B., Control of *Botrytis cinerea* with the use of penthiopyrad, a novel active ingredient, *IV International Symposium for Agriculture and Food - ISAF 2022 (Book of abstracts)*, Faculty for Agricultural sciences and food - Skopje, 12-14.X.2022 Ohrid, 95 (2022).
- [4] Bandjo Oreshkovikj, K., Rusevski, R., Kuzmanovska, B., Control of *Plasmopara viticola* with the novel class of fungicides, *XII International Symposium on Agricultural Sciences "AgroReS 2023" (Book of abstracts)*, University of Banja Luka, Faculty of Agriculture, 24-26.V.2023 Trebinje, Bosnia and Herzegovina, 167 (2023).
- [5] Bandjo Oreshkovikj, K., Rusevski, R., Kuzmanovska, B., Jankulovska, M., Popovski, Z., Molecular detection and identification of Alfalfa mosaic virus (AMV) on pepper cultivated in open fields in R. Macedonia, *Genetika*, **49**, 1047-1057 (2017).
- [6] Bandjo Oreshkovikj, K., Rusevski, R., Kuzmanovska, B., Jankulovska, M., Popovski, Z., Occurrence of plant viruses on pepper cultivated in open fields in R. Macedonia and partial characterization of cucumber mosaic virus isolates, *Journal of Plant Pathology*, **100**, 485-491 (2018).
- [7] Bandjo Oreshkovikj, K., Rusevski, R., Kuzmanovska, B., Jankulovska, M., Sotirovski, K., Risteski, M., Serological screening of viruses on pepper cultivated in open fields in North Macedonia, *VIII Congress on Plant Protection (Book of abstracts)*, Plant Protection Society of Serbia, 25-29.XI.2019 Zlatibor, Serbia, 161 (2019).
- [8] Bandzo, K., Popovska, M., Bandzo, S., Influence of ripening time, fruit firmness and fruit's skin colour of cherry varieties on the infestation percentage by *Rhagoletis cerasi* (Book of proceedings), *XVI Conference of biotechnology with international participation*, 4-5.V.2011 Čačak, Serbia, 435-440 (2011).
- [9] Bandzo, K., Popovska, M., Bandzo, S., Influence of the time of first fruit color change and the duration of fruit ripening of cherry varieties on the infestation by *R. cerasi*, *Agro-knowledge Journal*, **13**, 39-46 (2012).
- [10] Bandzo, K., Popovska, M., Bandzo, S., Flight dynamics of *Rhagoletis cerasi* L. and influence of adult abundance on the infestation of the cherry varieties, *Journal of Mountain Agriculture on the Balkans*, **16**, 1049-1060 (2013).
- [11] Bandzo, K., Rusevski, R., Kuzmanovska, B., Bandzo, S., Miskoska Milevska, E., Popovski, Z., Serological approach in the detection of viruses on pepper plants cultivated on open fields in the Republic of Macedonia, *Scientific conference "Challenges in modern agricultural production" (Proceedings)*, Institute of Agriculture - Skopje, 168-173 (2015).
- [12] Bandzo Oreshkovikj, K., Popovski, Z., Rusevski, R., Kuzmanovska, B., Jankulovska, M., Use of RT-PCR techniques in detection of viruses of pepper in Republic of Macedonia, *3rd International Symposium for*

agriculture and food - ISAF 2017, Journal of Agricultural, Food and Environmental Sciences, 18-20.X.2017 Ohrid, 103-109 (2017).

[13] Bandzo Oreshkovikj, K., Rusevski, R., Kuzmanovska, B., CMV, AMV, PVY: Dynamics of virus antigen accumulation in single and mixed infections, *3rd International Symposium for agriculture and food - ISAF 2017, Journal of Agricultural, Food and Environmental Sciences*, 18-20.X.2017 Ohrid, 96-102 (2017).

[14] Drvoshanova, B., Bandzo Oreshkovikj, K., Poposka, H., Sustainable cultivation practices for mitigation of climate change on pepper (*Capsicum annuum* L.) crop, *Journal of Agricultural, Food and Environmental Sciences*, **77**, 9-15 (2023).

[15] Drvoshanova, B., Ibushoska, A., Bandjo Oreshkovikj, K., Poposka, H., Increasing climate resilience in pepper seed production through *Trichoderma harzianum* and soil fertilizer treatments in North Macedonia, *XII International symposium of agricultural sciences - AgroRes 2023 (Book of abstracts)*, Faculty of agriculture - Banja Luka, 24-26.V.2023 Trebinje, Bosnia and Herzegovina, 192 (2023).

[16] Jancheva, R., Rusevski, R., Kuzmanovska, B., Bandzo, K., Sotirovski, K., Risteski, M., Control of *Uncinula necator* (Schwe.) Burrill in grapevine by using the fungicides from the Annex I List, *Bulgarian Journal of Agricultural Science*, **20**, 1175-1181 (2014).

[17] Kuzmanovska, B., Petkovski, E., Rusevski, R., Jankulovska, M., Arsov, T., Bandzo, K., The effects of biological and chemical control of *Venturia inaequalis* – the cause of apple scab in Prespa region, *2nd International Symposium for Agriculture and Food (Book of abstracts)*, 7-9.X.2015 Ohrid, 93 (2015).

[18] Kuzmanovska, B., Rusevski, R., Bandzo Oreshkovikj, K., Jankulovska, M., Biological control of Botrytis bunch rot of grapes in the Republic of Macedonia, *3rd International Symposium for agriculture and food - ISAF 2017, Journal of Agricultural, Food and Environmental Sciences*, 18-20.X.2017 Ohrid, 72-76 (2017).

[19] Kuzmanovska, B., Rusevski, R., Bandzo Oreshkovikj, K., Jankulovska, M., *Trichoderma atroviride* and *Bacillus subtilis* – effective biocontrol agents of *Plasmopara viticola*, *IV International Symposium for Agriculture and Food - ISAF 2022 (Book of abstracts)*, Faculty for Agricultural sciences and food - Skopje, 12-14.X.2022 Ohrid, 91 (2022).

[20] Kuzmanovska, B., Rusevski, R., Bandzo Oreshkovikj, K., Jankulovska, M., *Bacillus* spp. – a potent biological control agents against downy mildew of grapevine, *Journal of Agricultural, Food and Environmental Sciences*, **77**, 26-32 (2023).

[21] Kuzmanovska, B., Rusevski, R., Jankuloski, Lj., Jankulovska, M., Ivic, D., Bandzo, K., Phenotypic and

- genetic characterization of *Botrytis cinerea* isolates from tomato, *Genetika*, **44**, 633-647 (2012).
- [22] Kuzmanovska, B., Rusevski, R., Jankulovska, M., Bandjo Oreshkovikj, K., Antagonistic activity of *Trichoderma asperellum* and *Trichoderma harzianum* against genetically diverse *Botrytis cinerea* isolates, *Chilean Journal of Agricultural Research*, **78**, 391-399 (2018).
- [23] Miskoska - Milevska, E., Popovski, Z., Dimitrievska, B., Bandzo, K., DNA microsatellite analysis for tomato genetic differentiation, *Genetika*, **47**, 1123-1130 (2015).
- [24] Miskoska - Milevska, E., Popovski, Z., Dimitrievska, B., Bandzo, K., Porcu, K., Determination of genetic diversity among different tomato varieties using SSR markers, *Acta Agriculturae Serbica*, **XVI**, 9-17 (2011).
- [25] Petkovski, E., Rusevski, R., Kuzmanovska, B., Jankulovska, M., Bandzo Oreshkovic, K., Genetics of virulence and resistance to *Venturia inaequalis* (Cooke. (G. Winter)) for different apple varieties, *3rd International Symposium for agriculture and food (Book of abstracts)*, Faculty for Agricultural sciences and food - Skopje, 18-20.X.2017 Ohrid, 379 (2017).
- [26] Poposka, H., Mukaetov, D., Cvetkovic, J., Andreevski, M., Tasevska, G. M., Bandjo, O. K., Nedelkovski, D., Gjoljevska, M. R., Copper monitoring in vineyard soils of the Tikvesh region, North Macedonia, *Agro-knowledge Journal*, **23**, 183-197 (2022).
- [27] Popovski, Z., Dimitrievska, B., Miskoska - Milevska, E., Porcu, K., Bandzo, K., Electrophoretic determination of female specific protein in Koi carp as a tool for gender identification: technique comparison, *International Symposium for agriculture and food (Proceedings)*, Faculty for Agricultural sciences and food - Skopje, 691-695 (2013).
- [28] Popovski, Z., Tanaskovska, B., Porcu, K., Miskoska - Milevska, E., Bandzo, K., Nestorovski, T., Review on the application of marker assisted selection in animal breeding in the Republic of Macedonia in the last 50 years, *VII international symposium of livestock production (Book of abstracts)*, Institute of animal sciences - Skopje, 14-16.IX.2017 Skopje, 16-17 (2017).
- [29] Rusevski, R., Bandzo, K., Kuzmanovska, B., Sotirovski, K., Risteski, M., Occurrence, distribution and dynamics of virus antigen accumulation in pepper cultivation on open fields in Republic of Macedonia during 2008-2009, *African Journal of Agricultural Research*, **8** 3836-3841 (2013).
- [30] Rusevski, R., Bandzo, K., Kuzmanovska, B., Sotirovski, K., Risteski, M., Tanaskovik, V., Occurrence, distribution and dynamics of virus antigen accumulation in pepper cultivation on open fields in R. Macedonia during 2008-2009, *International symposium for agriculture and food (Book of abstracts)*, 12-14.XII.2012

Skopje, 244 (2012).

[31] Rusevski, R., Bandzo, K., Kuzmanovska, B., Stanoevska, M., Virus status of pepper plants cultivated on open fields, *XVI Conference of biotechnology with international participation (Proceedings)*, Čačak, Srbija, 429-434 (2011).

[32] Rusevski, R., Kuzmanovska, B., Bandjo Oreshkovikj, K., Biocontrol of *Botrytis cinerea* – the cause of gray mold disease with the use of beneficial fungus, *IV International Symposium for Agriculture and Food - ISAF 2022 (Book of abstracts)*, Faculty for Agricultural sciences and food - Skopje, 12-14.X.2022 Ohrid, 97 (2022).

[33] Rusevski, R., Kuzmanovska, B., Bandjo Oreshkovikj, K., Biological control of *Uncinula necator* – the cause of powdery mildew of grapevine, *IV International Symposium for Agriculture and Food - ISAF 2022 (Book of abstracts)*, Faculty for Agricultural sciences and food - Skopje, 12-14.X.2022 Ohrid, 98 (2022).

[34] Rusevski, R., Kuzmanovska, B., Bandzo, K., Bandzo, S., Opportunities in controlling of *Plasmopara viticola* – downy mildew of grape vine with novel fungicides, *Scientific conference "Challenges in modern agricultural production" (Proceedings)*, Institute of Agriculture - Skopje, 137-141 (2015).

[35] Rusevski, R., Kuzmanovska, B., Bandzo, K., Risteski, M., Sotirovski, K., Tospoviruses in the Republic of Macedonia during 1996-2010, occurrence and distribution, *Bulgarian Journal of Agricultural Science*, **19**, 544-549 (2013).

[36] Rusevski, R., Kuzmanovska, B., Bandzo, K., Sotirovski, K., Risteski, M., Biological and chemical control of gray mold disease (*Botrytis cinerea*) of tomato grown under plastic tunnels, *2nd International Symposium for agriculture and food (Proceedings)* Faculty for Agricultural sciences and food - Skopje, 7-9.X.2015 Ohrid, 329-332 (2016).

[37] Rusevski, R., Kuzmanovska, B., Petkovski, E., Bandzo Oreshkovikj, K., Biological control of *Venturia inaequalis* – the cause of apple scab in apple, *3rd International Symposium for agriculture and food - ISAF 2017 (Proceedings)*, Faculty of Agricultural Sciences and Food - Skopje, 18-20.X.2017 Ohrid, 16-18 (2017).

[38] Rusevski, R., Kuzmanovska, B., Petkovski, E., Bandzo Oreshkovikj, K., New opportunities for chemical control of *Venturia inaequalis* and *Podospaera leucotricha* in apple orchards in Macedonia, *3rd International Symposium for agriculture and food - ISAF 2017 (Proceedings)*, Faculty for Agricultural Sciences and Food - Skopje, 18-20.X.2017 Ohrid, 12-15 (2017).

[39] Selamovska, A., Gjamovski, V., Korunovska, B., Taseska-Gjorgijevski, M., Beleski, K., Nedelkovski, D.,

Bandjo Oreshkovikj, K., Djoljevska-Milenkovska, R., Rajchin, V., Comparative research on antioxidant content in the fruits of select indigenous varieties of fruit species, grapes and vegetables, *Contributions; Section of Natural, Mathematical and Biotechnical Sciences, MASA*, **42-43**, 45-52 (2021-2022).

[40] Selamovska, A., Gjamovski, V., Taseska-Gjorgijevski, M., Nedelkovski, D., Bandjo Oreshkovikj, K., Content of some antioxidants in the fruits of autochthonous apple varieties, *XXVI International Eco-Conference 2022 and XII Safe food (Proceedings)*, Novi Sad, Serbia, 199-206 (2022).

[41] Selamovska, A., Gjamovski, V., Taseska-Gjorgijevski, M., Nedelkovski, D., Bandjo Oreshkovikj, K., Korunovska, B., Djoljevska-Milenkovska, R., Comparative studies of the content of antioxidants in fruits of some autochthonous cherry varieties, *Journal of agriculture and plant sciences (JAPS)*, **20**, 33-40 (2022).

[42] Selamovska, A., Gjamovski, V., Taseska-Gjorgijevski, M., Nedelkovski, D., Beleski, K., Bandjo Oreshkovikj, K., Milanov, G., Korunovska, B., A comparative study of the content of some antioxidants in the fruits of autochthonous pomegranate varieties, *Agro-knowledge journal*, **23**, 221-228 (2022).

[43] Кузмановска, Б., Русевски, Р., Банџо, К., Ристески, М., Биолошка контрола на *Pythium spp.* во расад од пиперка со *Trichoderma harzianum* T 22, *Заштита на растенија*, **XXIII**, 29-33 (2012).

[44] Поповски, З., Танасковска, Б., Мискоска - Милевска, Е., Несторовски, Т., Порчу, К., Банџо - Орешковиќ, К., Светозаревиќ, М., Саити, З., Вик, М., Примена на молекуларни алатки во сточарството, земјоделството, контролата на храна и во агробiodиверзитетот во Република Македонија, *ПРИЛОЗИ, Одделение за природно-математички и биотехнички науки, МАНУ*, **38**, 165-184 (2017).

[45] Ристески, М., Русевски, Р., Кузмановска, Б., Банџо, К., Сотировски, К., Костов, К., Идентификација на причинителот на венење и на сушење на јаболковите насади во преспанскиот регион, *Заштита на растенија*, **XXIII**, 53-58 (2012).

[46] Русевски, Р., Банџо, К., Кузмановска, Б., Ѓамовски, В., Вирусен статус на пиперката во Кочанско во 2008, *Заштита на растенија*, **XX**, 84-88 (2009).

[47] Русевски, Р., Банџо, К., Кузмановска, Б., Станоевска, М., Вирусен статус на пиперката одгледувана на отворено во Р. Македонија, во 2009 г., *Заштита на растенија*, **XXI**, 44-50 (2010).

[48] Русевски, Р., Кузмановска, Б., Банџо, К., Петровски, П., Производство на индустриска пиперка – ризици и решенија, *Заштита на растенија*, **XXII**, 37-43 (2011).

[49] Русевски, Р., Кузмановска, Б., Банџо, К., Ристески, М., Контрола на *Pythium spp.* кај домотот и пиперката со употреба на нови фунгицидни активни материи, *Заштита на растенија*, **XXIII**, 47-52

(2012).

[50] Русевски, Р., Кузмановска, Б., Банџо, К., Ристески, М., Уништување на *Uncinula necator* – причинител на пепелница на лозата со примена на активната материја proquinazid, *Заштита на растенија*, **XXIII**, 41-45 (2012).

[51] Русевски, Р., Кузмановска, Б., Банџо, К., Ристески, М., Можности за уништување на *Pseudoperonospora cubensis* и *Phytophthora infestans* со нови фунгициди, *Заштита на растенија*, **XXIV**, 119-125 (2013).

[52] Русевски, Р., Христов, П., Ѓамовски, В., Банџо, К., Grapevine fanleaf perovirus: вирус на инфективна дегенерација на виновата лоза, ново жариште во Македонија, потекло и штетност, *Заштита на растенија*, **XIX**, 64-69 (2008).