

Milena Taseska-Gjorgjijevski, PhD

Senior scientific advisor/Associate professor

UKIM Institute of Agriculture Skopje

Department of viticulture and enology

16 Makedonska brigada 3A, 1000 Skopje

Tel: +389 2 3230910

Fax: +389 2 3114283

e-mail: milenataseska2005@yahoo.com m.taseska@zeminst.edu.mk;

Academic qualifications**2014. – Ph.D.**

UKIM Faculty of Natural Sciences, Institute of Chemistry - Skopje

Methods for determination of trace elements in minerals and salts by spectroscopic and radiochemical techniques

2009. – M. Sc.

UKIM Faculty of Natural Sciences, Institute of Chemistry - Skopje

Methods for determination of trace elements in minerals and salts of copper, iron and manganese by neutron activation analysis and atomic absorption spectrometry

2004. – B.Sc.

UKIM Faculty of Natural Sciences, Institute of Chemistry - Skopje

Training and research experience

Study visit:

Jozef Stefan Institute, Ljubljana, Slovenia (nov.-dec. 2005, sep.-dec. 2006, oct. 2007, mar. 2010, jun.-jul. 2017)

Babes-Bolyai University, Kluj, Napoka, Romania (jul.2005)

Faculti of Chemistry "Kliment Ohridski", Sofia, Bugaria (maj 2009)

Faculty of natural sciences, Novi Sad, Serbia (sep. 2010)

Development of methods for the determination of some parameters in wine and alcoholic beverages by classical and instrumental techniques

Teaching

Program ENOLOGY

Analysis of wine and strong alcoholic beverages
Chemistry of the wine
Technology of wine
Applied enology.

Other professional activities

2022 - present. Head at Department of viticulture and enology. UKIM Institute of agriculture, Skopje.
2013 – present. Head of the Laboratory for analysis of wine and alcoholic beverages. UKIM Institute of agriculture, Skopje.
2009-present. Consultant for MKS EN ISO/IEC 17025 for accreditation of testing laboratories

Scientific and applicative projects

2022-2023. Research of the socio-economic position of young people in rural areas in North Macedonia. UKIM Institute of Agriculture
2022-2023. Revitalization and commercialization of the indigenous wine variety Staushina (*Vitis vinifera* L.), UKIM Institute of Agriculture.
2021-2022. The antioxidant activity of fruits of some indigenous varieties of fruits species, vegetables and grapes. UKIM.
2021-2022. Copper monitoring in vineyard soils of the Tikvesh region, North Macedonia. UKIM.
2019-2020. Influence of ampelotechnical measures on the quality of grapes and wine from the Vranec variety, UKIM.
2019-2020. Germination researching at samples of different types of agricultural crops from gen bank after determining long term conversation, UKIM.
2017-2018. Methods for pre separation and determination of trace elements in some minerals and other inorganic substances, Bilateral project Macedonia-Slovenia, Skopje-Ljubljana.
2017-2018. Characterization of autochthonous varieties pomegranate from Macedonia, UKIM.
2008-2009. Teaching and learning bioanalysis, CEEPUS (Central European Exchange Program for University Studies), CII-HU-0010-03-0809.
2007-2008. Elemental composition of minerals from Macedonia, Bilateral project Macedonia-Slovenia, Skopje-Ljubljana.
2006-2007. Silicate minerals from Macedonia, mineralogical characterization, Bilateral project Macedonia- Croatia, Skopje-Zagreb
2005-2006. Chemical composition of minerals from Macedonia, Bilateral project Macedonia-Slovenia, Skopje-Ljubljana.

Scientific publications

[1] Dzoljevska-Milenkovska, R., Milanov, G., Taseska-Gjorgjijevski, M., Nedelkovski, D., Beleski, K., Korunoska, B., Chemical

composition of wine received from the newly introduced variety Rebo (*Vitis vinifera* L.), *XII International Symposium on Agricultural Sciences (Book of abstracts)*, Trebinje, Bosnia and Herzegovina 168 (2023).

[2] Jaćimović, R., Taseska-Gjorgjievski, M., Stafilov, T., Jovanovski, G., Makreski, P., Application of k_0 -instrumental neutron activation analysis for determination of major and trace elements in some manganese minerals, *Geologica Macedonica*, **32**, 157-162 (2018).

[3] Jaćimović, R., Stafilov, T., Stibilj, V., Taseska, M., Makreski, P., Application of k_0 -method of neutron activation analysis for determination of trace elements in various mineral samples: a review, *Macedonian journal of chemistry and chemical engineering*, **34**, 169-179 (2015).

[4] Jaćimović, R., Taseska, M., Stibilj, V., Makreski, P., Stafilov, T., Jovanovski, G., Element composition of some copper minerals from the Republic of Macedonia, *Geologica Macedonica*, **21**, 87-91 (2007).

[5] Korunoska, B., Bozinovic, Z., Sarafimovska, A., Prculovski, Z., Nedelkovski, D., Taseska-Gjorgjievski, M., Ampelographical characteristics and genotypic variability in autochthonous cultivars red and black valandovo drenok grown in R. Macedonia, Book of proceedings of the International scientific conference „Challenges in modern agricultural production“, 11.12.2014 Skopje, 70-75, (2014).

[6] Korunoska, B., Bozinovic, Z., Serafimovska, A., Prculovski, Z., Nedelkovski, D., Taseska-Gjorgjievski, M., Ampelographical characteristics and genotypic variability in autochthonous cultivars Red and Black Valandovo drenok grown in R. Macedonia, *Scientific conference "Challenges in modern agricultural production" (Proceedings)*, Skopje, (2014).

[7] Korunoska, B., Milanov, G., Nedelkovski, D., Sarafimovska, A., Taseska-Gjorgjievski, M., Dzolevska, R., Description of the morphological and technological characteristics of the plant goji berry, *3rd International symposium for agriculture and food - ISAF*, Ohrid, 135-137 (2017).

[8] Korunoska, B., Milanov, G., Taseska-Gjorgjievski, M., Nedelkovski, D., Trišeska, H., Džoljevska-Milenkovska, R., Rajčin, V., Reduction of the content of heavy metals in white wines of the Italian Riesling variety by certain treatments used in RN Macedonia, *XII International Symposium on Agricultural Sciences (Book of abstracts)*, Trebinje, Bosnia and Herzegovina, 165 (2023).

[9] Korunoska, B., Taseska-Gjorgjievski, M., Beleski, K., Nedelkovski, D., Djolevska-Milenkovska, R., Examination of wine from the variety Pinot noir and application of clearing treatments to reduce the content of heavy metals, *16th Serbian congress of fruit and grapevine producers, with international participation*, Vrdnik, Serbia, 284-285 (2022).

[10] Korunoska, B., Taseska-Gjorgjievski, M., Nedelkovski, D., Beleski, K., Gjoljevska Milenkovska, R., Milanov, G., Rajcin, V., Examination of the content of some antioxidant substances in some autochthonous grapevine varieties (*Vitis vinifera* L.) in RN

Macedonia, *Journal of Agricultural, Food and Environmental Sciences*, **75**, 19-27 (2021).

[11] Markovski, A., Popovska, M., Gjamovski, V., Taseska-Gjorgjijevski, M., Nedelkovski, D., Investigation of organoleptic characteristics of pomegranate (*Punica granatum* L.) varieties, *Journal of Agricultural, Food and Environmental Sciences*, **76**, 1-9 (2022).

[12] Milanov, G., Nedelkovski, D., Taseski-Gjorgjijevski, M., Timing of inoculation with selected wine bacteria on the kinetics of malolactic fermentation and sensory properties of Vranec wine from Tikvesh wine region, *Journal of Agricultural, Food and Environmental Sciences*, **73**, 1-6 (2019).

[13] Naumov, P., Pejov, L., Jovanovski, G., Stafilov, T., Taseska, M., Stojanovska, E., Unilateral exclusion of Jahn-Teller-inactive $d^5 \text{Mn}(\text{H}_2\text{O})_4(\text{C}_7\text{H}_4\text{NO}_3\text{S})_2^{2+}$ guests by strongly distorted host $d^9 \text{Cu}(\text{H}_2\text{O})_4(\text{C}_7\text{H}_4\text{N}_3\text{S})_2^{2+}$ lattice, *Crystal growth & Design*, **8**, 1319-1326 (2008).

[14] Nedelkovski, D., Beleski, K., Serafimovska, A., Boskov, K., Milanov, G., Taseska-Gjorgjijevski, M., Korunoska, B., Influence of yeast strain on Stanushina chemical composition and sensory analysis, *IV International Symposium and XX Scientific-Professional Conference of Agronomists (Book of abstracts)* Bijeljina, Bosnia and Herzegovina, 137 (2015).

[15] Nedelkovski, D., Serafimovska, A., Milanov, G., Beleski, K., Taseska-Gjorgjijevski, M., Influence of wine storage conditions and wine aging on the dynamics of antocyanins decrease in the Vranec wine variety, *Yearbook of the Institute of Agriculture - Skopje*, **XXVIII/XXIX**, 148-156 (2012).

[16] Petrushevski, V. M., Taseska, M., Demonstrations as a tool for ironing-out misconceptions. 1: On the catalytic reduction of potassium permanganate solution with atomic hydrogen, *Bulletin of the chemists and technologists of Macedonia*, **23**, 47-51 (2004).

[17] Petruševski, V. M., Taseska, M., Monković, M., Reaction of copper with fuming nitric acid: a novel lecture experiment in passivation, *Chemical educator*, **10**, 208-210 (2005).

[18] Petruševski, V. M., Taseska, M., Monković, M., Demonstrations as a tool for ironing-out misconceptions: 2. can a strong acid be displaced by a weak one?, *The chemical education journal* **9**, (2006).

[19] Poposka, H., Mukaetov, D., Cvetkovic, J., Andreevski, M., Tasevska, T. M., Bandjo Oreskovic, K., Nedelkovski, D., Gjoljevska, M. R., Copper monitoring in vineyard soils of the Tikvesh region, North Macedonia, *Agro-knowledge Journal*, **23**, 183-197 (2022).

[20] Poposka, H., Mukaetov, D., Nedelkovski, D., Taseska Gjorgjijevski, M., Effect of foliar calcium and nitrogen treatments on yield and fruit quality of table grapes cv. 'Cardinal', *Agro-knowledge Journal*, **24**, 91-104 (2023).

[21] Selamovska, A., Gjamovski, V., Korunoska, B., Taseska-Gjorgjijevski, 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**, 1-2 (2021).

[22] Selamovska, A., Gjamovski, V., Taseska-Gjorgjijevski, M., Nedelkovski, D., Bandjo-Oreshkovikj, K., Content of some antioxidants in the fruits of autochthonous apple varieties, *Safe food*, 199-208 (2022).

[23] Selamovska, A., Gjamovski, V., Taseska-Gjorgjijevski, M., Nedelkovski, D., Bandjo-Oreshkovikj, K., Korunoska, 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).

[24] Selamovska, A., Gjamovski, V., Taseska-Gjorgjijevski, M., Nedelkovski, D., Beleski, K., Milanov, G., Korunoska, B., Comparative studies of the content of some antioxidants in the fruits of autochthonous pomegranate varieties, *Agro-knowledge Journal*, **23**, 221-228 (2022).

[25] Selamovska, A., Taseska-Gjorgjijevski, M., Markovski, A., Korunoska, B., Chemical composition of some autochthonous fruit species from Macedonia, *Journal of Agriculture and Plant Sciences*, **21**, 63-70 (2023).

[26] Serafimovska, A., Korunoska, B., Milanov, G., Taseska Gjorgjijevski, M., Nedelkovski, D., Polyphenol composition of wine from the variety Cabernet sauvignon, *Bulgarian Chemical Communications*, **54**, 291-294 (2022).

[27] Serafimovska, A., Taseska-Gjorgjijevski, M., Nedelkovski, D., Korunoska, B., Ilić-Popova, S., Boškov, K., Influence of climate conditions on polyphenolic composition of wine from Cabernet sauvignon variety, *2nd International Symposium for Agriculture and Food (Book of abstracts)*, Ohrid, (2015).

[28] Serafimovska, A., Taseska-Gjorgjijevski, M., Nedelkovski, D., Milanov, G., Korunoska, B., Decreasing of the content of heavy metals in white wine chardonnay by using different treatments, *IV International Symposium and XX Scientific-Professional Conference of Agronomists of Republic of Srpska (Book of abstracts)*, Bijeljina, Bosnia and Herzegovina, 131 (2015).

[29] Taseska, G. M., Nedekovski, D., Dzoljevska, M. R., Poposka, H., Determination of some parameters in wine produced from clone and population of Vranec variety vines, *Journal of agricultural, food and environmental sciences*, **76**, 46-51 (2022).

[30] Taseska, M., Jaćimović, R., Stibilj, V., Stafilov, T., Makreski, P., Jovanovski, G., Is copper removal by electrolysis from copper minerals appropriate method for determination of trace elements?, *Nuclear instruments and methods in physics research, Section A*, 449-452 (2010).

[31] Taseska, M., Jaćimović, R., Stibilj, V., Stafilov, T., Makreski, P., Jovanovski, G., Determination of trace elements in some copper minerals by k_0 neutron activation analysis, *Applied radiation and isotopes*, **70**, 35-39 (2012).

[32] Taseska, M., Karadjova, I., Stafilov, T., Determination of trace elements in manganese salts after preliminary matrix

separation, *Eurasian journal of analytical chemistry*, **3**, 1-9 (2008).

[33] Taseska, M., Makreski, P., Stibilj, V., Jacimović, R., Stafilov, T., Is extraction of Fe from iron based reference materials an appropriate method for determination of trace elements?, *Radiochimica acta*, **100**, 57-63 (2012).

[34] Taseska, M., Makreski, P., Stibilj, V., Jaćimović, R., Stafilov, T., Determination of trace elements in hematite's iron reference material JSS-804-1 using k_0 -INAA, *Geologica Macedonica*, **22**, 43-48 (2008).

[35] Taseska, M., Makreski, P., Stibilj, V., Jaćimović, R., Stafilov, T., G., J., Determination of trace elements in chalcopyrite (CuFeS_2) by k_0 -instrumental neutron activation analysis after matrix elements removal, *Macedonian journal of chemistry and chemical engineering*, **27**, 141-147 (2008).

[36] Taseska, M., Stafilov, T., Bačeva, K., Determination of trace elements in some arsenic minerals by atomic emission spectrometry with inductively coupled plasma after matrix removal, *International journal of pure and applied chemistry*, **9**, 47-55 (2014).

[37] Taseska, M., Stafilov, T., Makreski, P., Jovanovski, G., Determination of trace elements in some copper minerals by atomic absorption spectrometry, *Annals of chemistry*, **16**, 43-46 (2005).

[38] Taseska, M., Stafilov, T., Makreski, P., Jaćimović, R., Stibilj, V., Jovanovski, G., Liquid-liquid extraction and determination of trace elements in iron minerals by atomic absorption spectrometry, *Geologica Macedonica*, **20**, 33-38 (2006).

[39] Taseska-Gjorgijevski, M., Nedelkovski, D., Dzoljevska-Milenkovska, R., Milanov, G., Beleski, K., Korunoska, B., Rajčin, V., Content and correlation of organic compounds in some autochthonous grapevine varieties (*Vitis vinifera* L.), *XII International Symposium on Agricultural Sciences (Book of abstracts)*, Trebinje, Bosnia and Herzegovina 164 (2023).

[40] Неделковски, Д., Серафимовска, А., Миланов, Г., Белески, К., Тасеска-Ѓорѓијевски, М., Влијание на условите за чување на виното и староста врз динамиката на опаѓање на антоцијаните во виното од сорта вранец, *Годишен зборник на земјоделски институт - Скопје*, **XXVIII/XXIX** 145-154 (2012).