

Prof. Goran Milanov

Full Professor

UKIM Institute of Agriculture Skopje

Department of viticulture and enology

16 Makedonska brigada n 3a, 1000 Skopje

Тел: +389 2 3230910

Факс:+389 2 3114283

Mob:070 279316

e-mail: milanovg@yahoo.com

Academic qualifications

2004 Ph.D. – Faculty of Agriculture – Skopje,

Influence of grape variety and technological treatments on the grape brandy quality

1996 MSc - Faculty of Agriculture – Beldgrade,

Ampelographic investigations as a basis for classification and evaluation of technological values of red wine varieties in Macedonian conditions

1992 Degree - Faculty of Agriculture – Skopje,

Training and research experience

2000. Study visit - Tempus – phare programme “ Functional food Gent, Belgium,

2001. Study visit - Toulouse “ France, **2001**

2005. Study visit - Individual mobility grant – Tempus „Analysis of Flavour volatiles of * Macedonian brandies by solid phase microextraction,, (paper work journal of chromatography) 2005

2006. Study visit - National Vineyard Monitoring and Management System, Phase I, (Project funded by the European Union) Asti, Northern Italy,

2008. Oenology Training and Consulting for Improving Oak Aging Technology of Macedonian Wineries , Agbiz 2014. Fruit varieties regulations, DUS testing of stone fruit varieties, INRA/GEVES, CPVO, Avignon, July, France.

Workshops....

Research interests

Novel vinification techniques

Chemical and physical analysis of wine and alcohol

Applied microbiology in winemaking
wine & spirit sensory evaluation

Teaching

Program Enology

- Applied enology
- Technology of wine
- Technology of strong alcoholic beverages
- Sensory analysis

Other professional activities

Member of the comity, Ministry of agriculture, forestry and water suplay:for implementation of EU regulatives in Macedonia (wine and viticulture)

Member of comity for national programme for agriculture and rural development 2007 2013

Development education skills of farmers, program and project preparation, program and project implementation, evaluation and monitoring, project design, organizing training and conferences,

Member of National Degustation Commission, member of the Association of grape and wine

Consulting HASSP standards implementation in wineries

Cellar master at the experimental winery at the department of enology 1997 to 2004

Scientific and applicative projects

2004-2006 MOH Production and technological characteristics of some introduced varieties and clones of grapes and determine wine quality.

2010-2013 MOH J. Cvetkovic., **G. Milanov.**, K. Beleski., A. Sarafimovska „Characterization and determination of the geographical origin of macedonian wine using chemical and stable isotope methods,

2011-2013 V. Maras., G. Milanov., N. Perovic., D. Raicevic., R Di Stefano., M Bogicevic Naucno istrazivacki projekat „, ecophysiological and molecular aspects of synthesis and polymerization of flavanols in Vranac and Cabernet Sauvignon grapes, their influence on wine quality,

2011 Project on UKIM., Effects of terroir on technological characteristics of Vranec variety,, Beleski K., Cvetkovic J., Milanov G., Sarafimovska A.,Mukaetov D., Andreevski M., Nedelkovski D., Taseska M., Popovska H

2013 The project co-funded by the European Union - Twinning Project MK/07/IB/SO/05 Project Title: "Support to the capacity

building of the Centre for Adult Education and development of programmes for adult education"

2013 Project „Promotion of Artisan brandy production as a first step in its branding,, Team lider Prof. D-r Goran Milanov.,Msc Kiril Cekorov., Ing Kiril Trajkov., Ministry of economy

2019 UKIM Impact of ampelotechnical measures on the quality of grapes and wine from the vranec variety,

2019 МЗШВ Carrying out research as a basis for the preparation of the national strategy for viticulture and winemaking for the period 2020-2025,

2021-2022. The antioxidant activity of fruits of some indigenous varieties of fruits species, vegetables and grapes. UKIM.

2022-2023. Revitalization and commercialization of the indigenous wine variety Staushina (*Vitis vinifera* L.), UKIM Institute of Agriculture.

Научни публикации

[1] Doneva-Sapcevska, D., Dimitriovski, A., Bojadziev, T., Milanov, G., Vojnoski, B., Free and potentially volatile monoterpenes in grape varieties from the Republic of Macedonia, *Bulletin of the chemists and technologists of Macedonia*, **25**, 51-56 (2006).

[2] Dzoljevska-Milenkovska, R., Milanov, G., Taseska-Gjorgijevski, 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).

[3] Ivanova, V., Milanov, G., Serafimovska, A., Vojnoski, B., Beleski, K., Stefova, M., Stafilov, T., HPLC determination of organic acids in Macedonian wines, *XX Congress of chemists and tecnologists of Macedonia*, Ohrid, (2008).

[4] Ivanova, V., Milanov, G., Vojnoski, B., Stefova, M., Stafilov, T., Optimization of spectrophotometric methods and determination of phenolic compounds in Macedonian wines and grapes, *Euroanalysis XIV*, Antwerpen, Belgium, (2007).

[5] Korunoska, B., Milanov, G., Nedelkovski, D., Sarafimovska, A., Taseska-Gjorgijevski, 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).

[6] Korunoska, B., Milanov, G., Taseska-Gjorgijevski, M., Nedelkovski, D., Trišeska, H., Dzoljevska-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).

[7] Korunoska, B., Taseska-Gjorgijevski, 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 (2017).

[8] Korunovska, B., Milanov, G., Velkoski, V., Nedelkovski, D., Innovative technologies in the production of wine and other fermented beverages for consumption intended in different regions of the world markets, *ICEIRD 2018 (Book of abstract)*, Doha, Qatar, (2018).

[9] Kostadinovic, S., Winterhalter, P., Tolle, S., Stefova, M., Ivanova, V., Milanov, G., Direct-immersion solid phase microextraction - gas chromatography/mass spectrometry for isolation of volatile compounds from Temjanika/Muscat white wines, *12th International Flavor Conference*, (2009).

[10] Krstevska, S., Milanov, G., Beleski, K., Impact of alternative oak types on wine aging and their sensory properties on syrah wine, *Poljoprivreda-juce, danas i sutra*, (2012).

[11] Milanov, G., Ampelografska ispitivanja kao osnov za razvrstavanje i ocenu tehnološke vrednosti crnih vinskih sorti u uslovima Makedonije, *Magisterski trud*, Beograd, (1996).

[12] Milanov, G., Beleski, K., Cvetkovic, J., Nedelkovski, D., Influence of grape cultivars and technological treatments on quality of grape brandies, *I International symposium and XVII Scientific conference of agronomist of Republic of Srpska (Book of abstracts)*, Trebinje, Bosnia and Herzegovina, (2012).

[13] Milanov, G., Beleski, K., Cvetković, J., Nedelkovski, D., Uticaj sorte grožđa i tehnoloških postupaka na kvalitet groždanih rakija, *Agroznanje*, **15**, 425-438 (2014).

[14] Milanov, G., Beleski, K., Nedelkovski, D., Ristov, G., Efekti različitog opterećenja vinove loze i dužina maceracije na polifenolni sastav vina od sorte Vranac, *Agroznanje*, **15**, 319-328 (2014).

[15] Milanov, G., Krieger-Weber, S., Silvano, A., Dumont, A., Nedelkovski, D., Timing of inoculation with selected wine bacteria on the kinetics of malolactic fermentation and sensory properties of syrah wines from the Republic of north Macedonia, *Contributions; Section of Natural, Mathematical and Biotechnical Sciences, MASA*, **41**, 25-33 (2020).

[16] 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, JAFES*, **73**, 1-6 (2019).

[17] Nedelkovski, D., Beleski, K., Boskov, K., Korunoska, B., Milanov, G., Studying the content of starch correlated with resistance to low winter temperatures in some grapevine varieties, *Agroznanje*, **13**, 681-686 (2012).

[18] Nedelkovski, D., Beleski, K., Boškov, K., Korunovska, B., Milanov, G., Studying the content of starch correlated with resistance to low winter temperatures in some grapevine varieties, *Agro-knowledge Journal*, **13**, 681-686 (2012).

[19] Nedelkovski, D., Beleski, K., Milanov, G., Gjamovski, V., Korunoska, B., Improving the fruit quality of Crimson seedless

(*Vitis vinifera* L.) using vine trunk girdling and GA3 as an agrotechnical tool *VIII International symposium on agriculture sciences AgroRes 2019 (Proceedings)*, Trebinje, Bosnia and Herzegovina, 26-32 (2019).

[20] Nedelkovski, D., Beleski, K., Milanov, G., Roychev, V., Dimovska, V., Potential and possibilities of Rebo - New grapevine variety (*Vitis vinifera* L.) in growing conditions in Republic of North Macedonia, *Journal of agriculture and plant sciences - JAPS*, **17**, 135-140 (2019).

[21] Nedelkovski, D., Beleski, K., Roychev, V., Milanov, G., Potential winter buds fertility of the vine variety Rebo, *VIII International symposium on agricultural sciences AgroReS 2019 (Proceedings)*, Trebinje, Bosnia and Herzegovina, 60-68 (2019).

[22] 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).

[23] Nedelkovski, D., Dimitrov, D., Beleski, K., Milanov, G., Korunoska, B., Trajanovska, F., Djolevska Milenkovska, R., Aroma compounds in wines from Macedonian autochthonous variety Stanusina, *Journal of mountain agriculture of the Balkans*, **20**, 128-138 (2017).

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

[25] Saltirova, L., Nedelkovski, D., Boskov, K., Milanov, G., Beleski, K., Agrobiological and technological characteristic of some table interspecies variety growing in Skopje vineyard area
Ist International symposium and XVII Scientific conference of agronomist of Republic of Srpska (Book of abstracts), Trebinje, Bosnia and Herzegovina, (2012).

[26] 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*, **20**, 33-40 (2022).

[27] 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).

[28] 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).

- [29] Serafimovska, A., Taseska-Gjorgjievski, 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).
- [30] Taseska-Gjorgjievski, 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).
- [31] Veličkovska, S. K., Tolle, S., Goek, R., Milanov, G., Winterhalter, P., Effect of Enzyme Treatment on Volatile Profile of White and Red Wines from Macedonia by using HS-SPME-GC/MS, in: *Nutrition, Functional and Sensory Properties of Foods*, 40-56 (2013).
- [32] Бошков, С., Божиновиќ, З., Војноски, Б., Јефимова, В., Серафимовска, А., Бошков, К., Миланов, Г., Производни и технолошки карактеристики на сортата кавадарка, одгледувана во условите на Тивешкото виногорје, *Лозарство и винарство*, (1996).
- [33] Бошков, С., Војноски, Б., Јевтимова, В., Димовска, В., Белески, К., Марковска, Б., Бошков, К., Миланов, Г., *Унапредување на производството и квалитетот на грозје и вино кај индивидуалните производители во Р. Македонија (брошура)*, Светска банка, Скопје, р. 40 (1999).
- [34] Бошков, С., Војноски, Б., Јефимова, В., Бошков, К., Миланов, Г., Серафимовска, А., Можности за проширување на сортиментот со сорти за производство на врвни и квалитетни црвени вина, *Годишен зборник на Земјоделскиот институт - Скопје*, **15**, (1995).
- [35] Бошков, С., Војноски, Б., Јефимова, В., Серафимовска, А., Бошков, К., Миланов, Г., Белески, К., Принос и квалитет грозја и вина код сорте мерло гајене у условима Скопског виногорја, *XI-то Советовање виноградара и винара Србије (Зборник научних и стручних радова) Пољопривреда*, 383-385 (1996).
- [36] Бошков, С., Јефимова, В., Војноски, Б., Бошков, К., Миланов, Г., Серафимовска, А., Принос и квалитет на грозјето и виното кај некои перспективни бели сорти винова лоза одгледувани во кумановско виногорје, *Годишен зборник на Земјоделскиот институт - Скопје*, **15**, (1995).
- [37] Војноски, Б., Божиновиќ, З., Бошков, К., Илиќ-Попова, С., Серафимовска, А., Миланов, Г., Влијание на агроколошките услови врз хемискиот состав и квалитетот на виното од сортата шардоне, *I Македонски симпозиум по лозарство и винарство со меѓународно учество (Зборник на научни трудови)*, 123-128 (1998).
- [38] Војноски, Б., Божиновиќ, З., Марковска, С., Миланов, Г., Квантитативна анализа на некои етри и виши алкохоли

во виното и нивното влијание врз вкусот на виното, *Годишен зборник на Земјоделскиот институт - Скопје*, **15**, (1995).

[39] Војноски, Б., Серафимовска, А., Миланов, Г., Димовска, В., Белески, К., Лозарството и винарството во Република Македонија - Состојби и трендови, *Јубилеен годишен зборник на Земјоделскиот институт - Скопје*, **XXVI/XXVII**, 75-79 (2009).

[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 Земјоделскиот институт - Скопје*, **XXVIII/XXIX** 145-154 (2012).

[41] Петков, М., Божиновиќ, З., Миланов, Г., Војноски, Б., Влијание на технолошките постапки врз квалитетните особини на лозовите ракии, *I Македонски симпозиум по лозарство и винарство со меѓународно учество (Зборник на научни трудови)*, (1998).

[42] Серафимовска, А., Војноски, Б., Миланов, Г., Марковска, С., Влијание на селектираниот вински квасец врз квалитетот на виното шардоне, *I Македонски симпозиум по лозарство и винарство со меѓународно учество (Зборник на научни трудови)*, 129-133 (1998).