

PERSONAL INFORMATION

Ljubica Karakashova



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Sex Female | Date of birth 26/07/1961 | Nationality Macedonian

WORK EXPERIENCE

From 2013 to present

Full Professor in scientific field of Food engineering, Fruits and vegetables processing

Department for fruit and vegetable processing, Food institute, Faculty of agricultural science and food, "Ss. Cyril and Methodius" University in Skopje, North Macedonia. <http://www.fznh.ukim.edu.mk/>

Active participation in the teaching of the first, second and third cycle studies, in accordance with the existing teaching programs. Participation in the preparation of new methods for theoretical and laboratory exercises for certain topics in relation to the technology of production and control of the processing of fruits and vegetables, as well as cooperation with certain companies from the food industry, exchange of experiences, giving practical advice, consultations in the field on Food processing, food quality and safety.

From 2009 to 2013

Associate professor in scientific field of Food engineering, Fruits and vegetables processing

Department for fruit and vegetable processing, Food institute, Faculty of agricultural science and food, "Ss. Cyril and Methodius" University in Skopje, North Macedonia. <http://www.fznh.ukim.edu.mk/>

From 2004 to 2009

Assistant professor in scientific field of Food engineering, Fruits and vegetables processing

Department for fruit and vegetable processing, Food institute, Faculty of agricultural science and food, "Ss. Cyril and Methodius" University in Skopje, North Macedonia. <http://www.fznh.ukim.edu.mk/>

From 1997 to 2004

Assistant in scientific field of Food engineering, Fruits and vegetables processing

Department for fruit and vegetable processing, Faculty of agricultural science and food, "Ss. Cyril and Methodius" University in Skopje, North Macedonia. <http://www.fznh.ukim.edu.mk/>

From 1989 to 1997

Junior Assistant

Department for fruit and vegetable processing, Faculty of agricultural science and food, "Ss. Cyril and Methodius" University in Skopje, North Macedonia. <http://www.fznh.ukim.edu.mk/>

From 1986 to 1989

Agronomist,
AD "Lozar" - Veles

EDUCATION AND TRAINING

2003

Diploma of PhD in agricultural sciences

Department for fruit and vegetable processing, Food institute, Faculty of agricultural science and food, "Ss. Cyril and Methodius" University in Skopje, Republic of Macedonia.

1996

Diploma of Master of Agricultural Sciences

Faculty of agricultural science and food, "Ss. Cyril and Methodius" University in Skopje, Republic of Macedonia.

- 1985 **Bachelor of Science, Diploma of graduate Agricultural engineer, viticulture and fruit growing**
Faculty of agricultural science and food, "Ss. Cyril and Methodius" University in Skopje, Republic of Macedonia.
- Other trainings
- 2011 • Training for trainers in subjects: Food Safety System, Modified Atmosphere Packaging: Science & Technology for Food Applications, organized by Economic Chamber of Macedonia and Flemish Government from Belgium.
- 2008 • Training Course for internationalization of companies from food processing industry, organized by the Italian Ministry of Economic Development.
- 2008 • Final course for HACCP implementer, with active participation in implementing the system in several production plants.
- 1999 • Advanced training, in subject of fruit and vegetables solar drying in Erevan, Armenia.

PERSONAL SKILLS

Mother tongue(s) Macedonian

Other language(s)

English
Languages from the former
Yugoslav countries
Russian

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B1	B1	A2	A2	A2
C1	C1	C1	C1	C1
B1	B1	B1	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

Communication skills Possession of excellent communication skills

Organisational / managerial skills • Excellent organizational skills, ready for teamwork. Organizing lectures, organizing and conducting field activities with students, performing trainings, laboratory exercises, mentoring in conducting scientific research theses and projects, etc.
• Head of the Food Institute, from 2021 to 2024

Job-related skills • Excellent command and application of appropriate educational skills. Long-term experience in determining the moment of harvest for raw fruit and vegetables intended for drying in solar chamber, beam and other types of dryers, as well as in the application of appropriate methods and treatments of the raw material to preserve quality properties. Special skills for the use of alternative sources of energy (solar energy) and their application in the process of drying in solar dryers raw materials from fruits, vegetables and other raw materials of plant origin, both cultivated and wild fruit flora. Excellent knowledge of the raw materials necessary for the food processing industry. Knowledge of raw materials, fresh fruits and vegetables and their processing methods. Knowledge and excellent command of quality control processes in the food sector and performing audits in accordance with applicable procedures and regulations.

Digital competence Computer skills, Microsoft Office (Word, Excel and PowerPoint), Internet (e-mail and web)

Other skills • Mentor of graduation thesis, member of commission for evaluation or defense of graduation thesis, mentor of master's thesis, member of commission for evaluation or defense of master's thesis, mentor of doctoral dissertation, mentoring for performing a one-month mandatory internship.
• Professional trainings in the field of expertise

Driving licence B

ADDITIONAL INFORMATION

Publications

1. Durmishi Namik, Xhabiri Gafur, Ferati Ismail, Alija Durim, **Karakasova Ljubica**, Stamatovska Viktorija, Lazova Borisova Iliana (2023) Monitoring of some parameters of quality and microbiological safety in drinking water, International journal of Food Technology and Nutrition, vol. 6, no. 11/12, 2023, UDC: 628.1.033:579.67(497.7)
2. **Karakasova Ljubica**, Babanovska-Milenkovska Frosina, Mladenova Jelena, Velkoska-Markovska Lenche, Durmishi Namik, Bogdanovska Vesna (2023) Quality properties of solar dried goji berries (*Lycium barbarum*), International journal of Food Technology and Nutrition, vol. 6, no. 11/12, 2023, UDC: 664.854:582.926.2(497.7)
3. Durmishi Namik, Xhabiri Gafur, Ferati Ismail, Alija Durim, **Karakasova Ljubica**, Stamatovska Viktorija, Lazova Borisova Iliana (2023) Monitoring of some parameters of quality and microbiological safety in drinking water, International journal of Food Technology and Nutrition, vol. 6, no. 11/12, 2023, UDC: 628.1.033:579.67(497.7)
4. **Karakasova Ljubica**, Babanovska-Milenkovska Frosina, Mladenova Jelena, Velkoska-Markovska Lenche, Durmishi Namik, Bogdanovska Vesna (2023) Quality properties of solar dried goji berries (*Lycium barbarum*), International journal of Food Technology and Nutrition, vol. 6, no. 11/12, 2023, UDC: 664.854:582.926.2(497.7)
5. Jankulovska, M S., Sokolovska, V., Velkoska-Markovska, L., Bogevska, Z., **Karakasova, Lj.**, Manasievska, S., Miskovska-Milevska, E., Babanovska-Milenkovska, F., Markoski, M. (2023): Extraction and spectrophotometric quantification of total polyphenolic content in onion. Agriculture and Forestry, 69 (2): 217-226. doi:10.17707/AgricultForest.69.2.17;
6. Frosina Babanovska-Milenkovska, Dragan Gjorgjev, **Ljubica Karakasova**, Biljana Culeva (2022) Artificial sweeteners in various food products - quantification and intake assessment, Journal of Agricultural, Food and Environmental Sciences Vol 76 No 4 (2022) 52-64;
7. Frosina Babanovska-Milenkovska, **Ljubica Karakasova**, Marina Stefova, Biljana Culeva, Shenaj Skenderoska, Hussein G. Daood (2022) Quantification of carotenoids in some varieties of red peppers (*Capsicum annum* L.) And their processed products, Journal of Agricultural, Food and Environmental Sciences Vol 76 No 6 (2022) 43-56;
8. **Ljubica Karakashova**, Vesna Bogdanovska, Martin Stojanov, Frosina Babanovska Milenkovska, Lenche Velkoska-Markovska, Viktorija Stamatovska, Namik Durmishi (2022) Total anthocyanins in fresh fruit and compote of "oblacinska" sour cherry (*Prunus cerasus* L.), Journal of Agricultural, Food and Environmental Sciences Vol 76 No 3 (2022) 25-30;
9. Namik Durmishi, Iamail Ferati, Gafur Xhabiri, **Ljubica Karakasova**, Viktorija Stamatovska, Qendrim Ramadani (2022) Influence of technological processes on nutritional parameters in natural fruit juice (apples, raspberries, strawberries and cherries) Vol 76 No 6 (2022) 38-42;
10. **Ljubica Karakashova**, Frosina Babanovska-Milenkovska, Jelena Mladenova, Lence Velkoska-Markovska, Viktorija Stamatovska, Namik Durmishi (2022) Comparison of quality properties of fresh and solar dried goji berries (*Lycium barbarum*), XXVI International eco-conference 2022, XII Safe food, 21nd – 23th September 2022, Novi Sad, Serbia, Publisher Ecological movement of Novi Sad, Proceeding p.207-2015;
11. **Karakashova Ljubica**, Babanovska-Milenkovska Frosina, Mladenova Jelena (2020) Solarno sušenje godži bobice (*Lycium barbarum*, IX Naučno – stručni skup Preduzetništvo, inženjerstvo i menadžment, PIM9, Zrenjanin, R. Srbija
12. **Karakashova Ljubica**, Babanovska-Milenkovska Frosina, Kavrakova Daniela (2020). Uticaj procesa zamrzavanja na nutritivne karakteristike dve sorte šljiva IX Naučno – stručni skup Preduzetništvo-inženjerstvo-menadžment, PIM9, Zrenjanin, R. Srbija
13. **Karakashova Lj.**, Babanovska – Milenkovska F., Durmishi N., Stamatovska V., Chuleva B., Skenderoska Sh., (2019), Comparison on quality properties of different fresh and fermented cabbage, oral presentation, International congress on Natural, health sciences and Technology, University of Tetovo, North Macedonia. Book of Abstracts, page 571-572.
14. **Karakashova Lj.**, Babanovska-Milenkovska F., Stamatovska V., (2019), Quality properties of solar dried aronia, oral presentation, VIII Naučno – stručni skup sa međunarodnim učešćem, Preduzetništvo-inženjerstvo-menadžment, na temu „Cirkularna ekonomija – prilika za održivi razvoj“, Zbornik radova, edicija 8 Zbornici, Visoka tehnička škola strukovnih studija, Zrenjanin, Srbija, 20.4.2019, page 239-246.
15. **Karakashova Lj.**, Stefanovska E., Babanovska-Milenkovska F., Stamatovska V., Durmishi N. & Culeva B., (2019) Comparing the quality properties of fresh and dried apple fruit - varieties pinova and red delicious. Journal of Agricultural, Food and Environmental Sciences, 71(1), 36- 45. ISSN 2545-4315
16. Stamatovska V., Nakov Gj. & **Karakasova Lj.** (2019) Sensory evaluation and overall acceptance of raspberry jam with different sweeteners, Sessions Schedule & Abstracts, 58-th annual scientific conference of Angel Kanchev University of Ruse and Union of Scientists – Ruse Conference with international interest, Razgrad, Bulgaria, page 430
17. Stamatovska V., Nakov G, **Karakasova Lj.**, Babanovska-Milenkovska F, Kalevska T., Jankuloska V., (2018) Change of anthocyanins content during production of jam from different

- species of fruit, Croatian Society of Food Technologists, Biotechnologists and Nutritionists, Croatia, page 17-21 ISSN 2584-5292
18. **Karakashova Lj.**, Josifovski Z., Babanovska-Milenkovska F., Stamatovska V., Durmishi N., (2018) *Comparison of quality properties of certain varieties of fresh and frozen green beans*, XXII International Eco-Conference, sept. 2018, Safe food, Novi Sad, Serbia, Proceedings, page 260-267.
 19. **Karakashova Lj.**, Josifovski Z., Babanovska-Milenkovska F., Stamatovska V., Durmishi, (2018) *Impact of solar drying on nutritional properties of certain varieties of green beans*, International Journal of Food Technology and Nutrition, Vol.1, No. 1-2, 2018, page 9-13.
 20. Namik Durmishi, Ismail Ferati, Gafur Xhabiri, **Ljubica Karakasova (2018)** Control of Some Quality And Safety Parameters At Natural Apple Juice In Different Packaging. 4th International Congress On Natural And Engineering Sciences. 009-12 Bodrum.
 21. Stamatovska V., Nakov G, **Karakasova Lj**, Babanovska-Milenkovska F, Kalevska T., Jankuloska V., (2018) *Change of anthocyanins content during production of jam from different species of fruit*. 9th International Congress of Food Technologists, Biotechnologists and Nutritionists, Published by: Croatian Society of Food Technologists, Biotechnologists and Nutritionists, Zagreb, Croatia, page 17-21
 22. Babanovska-Milenkovska F., **Karakasova Lj.**, Culeva C., Stamatovska V., Durmishi N., (2018). *Determination of vitamins as additives for fortification of refreshing soft drinks*, 3rd International Symposium for Agricultural and Food, 18-20 October, Ohrid, R. Macedonia, International scientific Journal of agricultural, food and environmental sciences, Vol. 72, No.1, April 2018, page 45-51
 23. Babanovska-Milenkovska F., **Karakasova Lj.**, Stojanova M., Culeva B., Murkovic M., 2017. *Changes of nutritional properties of three variants peppers by processing of pickled red peppers*, 3rd International Symposium for Agricultural and Food, 18-20 October, Ohrid, R. Macedonia. International scientific Journal of agricultural, food and environmental sciences, Vol. 72, No.1, April 2018, page 52-58.
 24. Stamatovska V., **Karakasova Lj.**, Babanovska-Milenkovska F., Nakov G., Durmishi N., (2017), *Production and characterization of plum jams with different sweetener*. Conference on Food Quality and Safety, Health and Nutrition -NUTROCON 2016, Skopje, Macedonia, Journal of Hygienic Engineering and Design No. 19, page 67-77.
 25. Durmishi, Namik; **Karakasova, Ljubica**; Babanovska-Milenkovska, Frosina; and Kongoli, Renata, "Control some quality parameters of the natural juice of blueberry with different fruit content" (2017). *UBT International Conference*. 173.
 26. **Karakashova Lj.**, Babanovska - Milenkovska F., Chuleva B., Nakova S. (2016), *Nutritional properties of two hybrids of dried and fresh cabbage*. The 6st Congress of Pharmacy in Macedonia, Ohrid, Macedonia, Macedonian pharmaceutical bulletin, 62, page 329 – 330.
 27. Babanovska-Milenkovska F., **Karakasova Lj.**, Petanovska-Ilievska B., Manasievska-Simic S., Miskoska-Milevska E., Velkoska-Markovska L., Jankuloska M.S. (2016), *Change in the quality properties of two different pepper varieties in fresh and dried condition*. Journal of International Scientific Publications Agriculture & Food, Burgas, Bulgaria, 4, page 250-259.
 28. **Karakasova Lj.**, Babanovska-Milenkovska F., Stojanova M., Karakasov B., (2014), *Comparison of Qualities Properties of Fresh, Frozen and Solar Drying Chokeberry Fruits*, 25th International Scientific- Expert Congress on Agriculture and Food Industry – Izmir, Turkey, Proceeding Book, page 137-140.
 29. **Karakasova Lj.**, Stefanovska E., Solakova V., Babanovska-Milenkovska F., Stojanova M. (2015), *Comparison of the nutritional composition of fresh and dried fruits of several apple varieties*. 2nd International Symposium for Agriculture and Food, Ohrid, 1, Book of proceedings, page 355-362.
 30. Stamatovska V., **Karakashova Lj.**, Babanovska-Milenkovska F., Delchev N., Nakov Gj., Necinova Lj., (2013) *The quality characteristics of plum jams made with different sweeteners*, „Food Science, Engineering and Technology” scientific works, vol. LX, 17-19 October, Plovdiv, Proceeding Book page 689-693.
 31. **Karakasova Lj.**, Babanovska-Milenkovska F., Lazov M., Karakasov B., Stojanova M., (2013) *Quality properties of solar dried persimmon (Diospyros kaki)*, Conference in Food Quality and Safety and Hygienic Engineering and Design, 19-20 September, Macedonia, Journal of Hygienic Engineering and Design, Vol.4, Original scientific paper, UDC 664.854, page 54-59.
 32. **Karakasova Lj.**, Babanovska-Milenkovska F., Hussein G. D., Manasievska-Simic S., (2013), *Impact of freezing on nutritional composition in different varieties of red peppers*, International symposium for agriculture and food, Skopje, 12-14 December 2012. Volume II, page 835-847.
 33. **Karakasova Lj.**, Milenkovski L., Babanovska-Milenkovska F., (2013), *Comparison of quality and nutritional composition of green and black table olives*, International symposium for agriculture and food, Skopje, 12-14 December 2012. Volume II, page 856-864.

34. **Karakashova Lj.**, Stamatovska V., Babanovska-Milenkovska F., (2013), The quality properties of raspberry jams with different sweeteners, International symposium for agriculture and food, Skopje, 12-14 December 2012. Volume II, page 848-855.
35. **Karakasova Lj.**, Durmishi N., Babanovska-Milenkovska F., Culeva B., (2011), Effects of some technological treatments of quality and safety of apple concentrate, EHEDG World Congress on Hygienic Engineering and Design, Ohrid, Macedonia, 22-24 Sept., Journal of Hygienic Engineering and Design, Original scientific paper, UDC664.656:634.11]:577.164.2, page 122-125.
36. **Karakasova Lj.**, Babanovska-Milenkovska F., Isaeva S., Culeva B., Durmishi N., (2011), Changes in chemical composition of spicy peppers in controlled production of powder peppers, EHEDG World Congress on Hygienic Engineering and Design, Ohrid, Macedonia, 22-24 Sept.2011 Journal of Hygienic Engineering and Design, Original scientific paper, UDC 664.62-492.2, page 255-260.
37. **Karakashova Lj.**, Babanovska-Milenkovska F., Ristovska I., Shumanova S., Shependieva M., Trajchov I., (2011), The influence of ripening conditions on banana quality, III Postharvest Symposium, Postharvest storage of vegetables and fruits in western Balkan countries, Sombor, Serbia , 19 and 20. Sept., усна презентација, The Serbian Journal of Agricultural Sciences, (Novi Sad, Vol.61, special, 2012), ISSN: 0350 – 1205, page. 170-178.
38. **Karakasova Lj.**, Babanovska-Milenkovska F., Milenkovski L., Durmishi N., (2011), Production of concentrated grape juice from variety Smederevka, First International conference of agriculture, food and environment (ICAFF), Korca, Albania, 27-28 May, Proceeding Book, page 305-311.
39. Durmishi N., Ferati I., **Karakasova Lj.**, Babanovska-Milenkovska F., Kongoli R., (2011), Change of some parameters in the apple concentrate storage in constant temperature, First International conference of agriculture, food and environment (ICAFF), Korca, Albania, 27-28 May, Proceeding Book, page 312-316.
40. **Karakasova Lj.**, Babanovska-Milenkovska F., Isaeva S., Stojanovska M., (2011), Comparison of quality of dried peppers obtained with three types of dryers, XVI Conference on biotechnology (with International participation) 04-05 March, 2011, Cacak, Serbia, Vol. 16 (18), page 539-544.
41. Boškov K., Vukosavljević V., Božinović Z., Hristov P., Beleski K., **Karakasova Lj.**, Babanovska-Milenkovska F., Čulina L., (2011), Effect of gibberellic acid GA3 on technological properties of Smederevka, Chaouch Blanc and Italia grape vine varieties, 14-18 February, 46th Croatian and 6th International Symposium on Agriculture, Proceeding Book, page 924-926.
42. **Karakasova Lj.**, Babanovska-Milenkovska F., Durmishi N., Ferati I., Pollozhani H. (2010), Technology of drying mushrooms, International Symposium, Biodiversity, Conservation and Economic sustainable use for Rural Development, Tirana, 22 October, Proceeding Book, page 268-271.
43. **Karakasova Lj.**, Babanovska-Milenkovska F., Isaeva S., Mehmeti H., Durmishi N., (2010), Traditional way of producing ajvar, The 1st International symposium on "traditional foods from Adriatic to Caucasus", 15-17 April, Tekirdag, Turkey, Proceeding Book, page 1091-1093.
44. **Kararašova Lj.**, Bogdanovska-Mirčevska V., Mehmeti H. , Durmishi N., Chemical composition of fresh and traditionally dried tomatoes in the sun, The 1st International symposium on "traditional foods from Adriatic to Caucasus", Tekirdag /Turkey, 15-17 April 2010, page 1094-1097.
45. **Lj. Karakasova**, A. Stefanoski, V. Rafajlovska, J. Klopceska, Technological characteristics of some apple cultivars, International Society for Horticultural Science (ISHS), Acta Horticulturae 825, April, 2009, page 559-564
46. Jankovic M., Karakashova LJ. Stevanović S., Storage of table grapes in cold storage using different methods of sulphurization, collection of papers and presentations from the second consultation and workshop: "Storage of fresh vegetables, fruits and grapes is an important component of the export potential", Strumica, 2009, p. . 87-91.
47. Jankovic M., Karakashova LJ. Stevanović S., Storage of table grapes in cold storage using a controlled atmosphere, collection of papers and presentations from the Second Consultation and Workshop: "Storage of fresh vegetables, fruits and grapes is an important component of the export potential", Strumica, 2009, p. 92-97.**Karakasova Ljubica**, Rafajlovska Vesna, Klopceska Jana, Stefanoski Aleksandar, 2007., Technological characteristics of some apple sorts, 1st Balkan Symposium of fruit growing, Plovdiv, Bulgaria, 15-17 November, 141.
48. **Karakasova Ljubica**, Rafajlovska Vesna, Anatanovski Aleksandar, Ristovski Boris. 2007., Pomological and technological characteristics of solar dried apricot cultivars. Proceeding of 5 th International Congress on Food Tehnology, Thessaloniki. Grece, Volume 3, 143-147.
49. **Karakashova Ljubica**, Jordanova Katica, 2007, Ajvar production technology, Jubilee annual collection of the Faculty of Agricultural Sciences and Food, Skopje, vol. 52, p. 85-103.
50. **Karakashova Ljubica**, 2006, Delicate product - stuffed pepper with full-fat curd from cow's and goat's milk, Annual Proceedings of the Faculty of Agricultural Sciences and Food, Skopje, vol. 51, p. 55-64.

51. **Karakashova Ljubica**, Stojanova Daniela, 2006, Solar drying of different varieties of peppers, Annual Proceedings of the Faculty of Agricultural Sciences and Food, Skopje, vol. 51, p. 41-54.
52. Kiprijanovski Marjan, **Karakashova Ljubica**, Gjorgi Popovski, 2006. Aronia (Aronia melanocarpa)-Perspective fruit crop for cultivation in the Republic of Macedonia, Proceedings XXXI meeting "Faculty-economy", Faculty of Agricultural Sciences and Food, Skopje, 87- 97.
53. **Karakashova Ljubica**, Gjoshevski Dragan, 2004, Storage, storage and economic effects in the process of production and storage of apples, Brochure, Group for development of the apple subsector, Skopje 95.
54. Jordanovski Josif, Sivakov Lazar, **Karakashova Ljubica**. 2002. Macedonian solar dryer for industrial production, Proceedings, XXVII meeting "Faculty-economics", Faculty of Agriculture, Skopje, 43-51.
55. Jordanovski Josif, Sivakov Lazar, **Karakashova Ljubica**. 2002. Macedonian solar dryer individual users, Proceedings, XXVII meeting "Faculty-economics", Faculty of Agriculture, Skopje, 33-42.
56. **Karakashova Ljubica**, Sivakov Lazar. 2002, Quality properties of the raw material and solar-dried plums, First Horticulture Symposium, Faculty of Agriculture, Skopje, 601-607.
57. **Karakashova Ljubica**, Sivakov Lazar, Ristevski Boris. 2001. Solar drying of plums., Macedonian Agricultural Show, Skopje, vol. 48, no. 1-2.
58. **Karakashova Ljubica**, Sivakov Lazar, 2001, Quality properties of the raw material and solar-dried apricots, Proceedings, XXVI meeting "Faculty-economics", Faculty of Agriculture, Skopje, 105-115.
59. Sivakov Lazar, Ristevski Boris, **Karakashova Ljubica**, 2000, Possibilities for solar drying of fruit in the Republic of Macedonia, Proceedings XXV, "Faculty-economics" meeting, Faculty of Agriculture, Skopje, 103-119.
60. **Karakashova Ljubica**, Sivakov Lazar, Ristevski Boris. 1999, Solar drying of fruit, Proceedings XXIV meeting "Faculty-economics", Faculty of Agriculture, Skopje, vol. 7, 217-221.
61. Ristevski Boris, Sivakov Lazar, Kolecevski Petko, Georgiev Dimitar, Kiprianovski Marjan, **Karakashova Ljubica**, Popovski Bojan, 1998, Proposed assortment for stone fruit, Proceedings, XXIII meeting "Faculty-Economics", Faculty of Agriculture, Skopje, vol. 6, 115-127.
62. Sivakov Lazar, Ristevski Boris, **Karakashova Ljubica**, 1997. Possibilities for drying fruits and vegetables in the Republic of Macedonia, Tribina, Skopje, 2356-57, 8-9.
63. **Karakashova Ljubica**, Sivakov Lazar, 1997, Organoleptic characteristics of mushy fruits from different varieties of apricots, Jubilee Annual Proceedings of the Faculty of Agriculture, Skopje, vol. 42, 143-148.
64. Sivakov Lazar, Popovski Bojan, **Karakashova Ljubica**. 1997. Possibilities for pear processing, Proceedings XXII meeting "Faculty-economics", Faculty of Agriculture, Skopje, vol. 5, 127-136.
65. 61. Ristevski Boris, Kolecevski Petko, Sivakov Lazar, Georgiev Dimitar, Kiprianovski Marjan, **Karakashova Ljubica**. 1997, State and perspective of the pear in Macedonia, Proceedings, XXII meeting "Faculty-economics", Faculty of Agriculture, Skopje, vol. 5, 103-109.
66. Sivakov Lazar, **Karakashova Ljubica**, Ivanovski Zdenko, 1995, Influence of the degree of ripeness on the chemical composition of tomatoes and concentrate, Proceedings, Symposium with international participation "New technologies in gardening and floriculture", Ohrid, vol. 1, 279-284.
67. Sivakov Lazar, **Karakasova Ljubica**, Ivanovski Zdenko. 1995, Uticaj stepena zrelosti paradajza na bojene materije paradajz koncetrata iz fabrike za prerađu voća i povrća "Makedonija" Negotino. III-će Međunarodno savetovanje prehranbene industrije Jugoslavije, Beograd
68. Sivakov Lazar, **Karakashova Ljubica**, Georgiev Dimitar, 1994. Changes in the consistency of pears stored in a refrigerator, G Annual Proceedings of the Faculty of Agriculture, Skopje, XXXIX, 133-142.
69. Georgiev Dimitar, Sivakov Lazar, **Karakashova Ljubica**, 1994. Organoleptic characteristics of compotes from janki, Yearbook of the Faculty of Agriculture, Skopje, XXXIX, 163-169.
70. Ristevski Boris, Sivakov Lazar, **Karakashova Ljubica**. 1993 Pomological and technological characteristics of the apricot in Mariovo, Annual Proceedings of the Faculty of Agriculture, Skopje, XXX, 7-12.
71. Sivakov Lazar, Ristevski Boris, **Karakashova Ljubica**. 1993. Pomological and technological characteristics of some Russian varieties of almonds in Macedonian conditions, Annual Proceedings of the Faculty of Agriculture, Skopje, XXXVIII, 137-145

Publications in scientific and educational activity

1. Author of the text "Solar drying of apricots in Macedonia", published in the magazine "My Country", June, 2011.
2. **Ljubica Karakashova**, Frosina Babanovska-Milenkovska (2019), Production of non-alcoholic beverages, Work diary, internal script, Faculty of Agricultural Sciences and Food, UKIM, Skopje.
3. Author of the internal script Stabilization of food, for the second cycle of studies, FZNH, Skopje, 2013;
4. Author of internal script Sensory properties of food, FZNH, Skopje, 2013,
5. Practicum on Processing Fruit and Vegetable, reviewed and approved by the NNS of the Faculty of Agricultural Sciences and Food, Skopje, in press, UKIM (2012). **Ljubica Karakashova**, Frosina Babanovska-Milenkovska, review in Bulletin no. 1032 p. 111, 31.5.2012 and in Bulletin no. 1033 p. 280, 15.6.2012
6. Author of internal script Standardization of agricultural products, FZNH, Skopje, 2010;
7. Author of internal script Processing of fruits, FZNH, Skopje, 2010;
8. Author of internal script Processing of vegetables, FZNH, Skopje, 2009;
9. Author of internal script - Fruit and vegetable processing workshop, FZNH, Skopje, 2009;
10. Author of internal script Workshop on fruit and vegetable processing, FZNH, Skopje, 2009;
11. Author of internal script Production of non-alcoholic beverages, FZNH, Skopje, 2008;

Presentations Oral presentations at conferences and symposium

- **Karakashova Lj.**, Babanovska-Milenkovska F., Velkoska-Markovska L, Durmishi N (2024) Awareness of usage the artificial sweeteners in food by different population in North Macedonia, International Congress on natural health sciences and technology, 4-th International Conference of Food Technology and Nutrition, 15 – 17 May, 2024, Tetova, North Macedonia, oral presentation;
- **Ljubica Karakashova**, Frosina Babanovska-Milenkovska, Jelena Mladenova, Lenche Velkoska-Markovska, Namik Durmishi, Vesna Bogdanovska (2023) Quality properties of solar dried goji berries (*Lycium barbarum*), International Congress on natural, health sciences and technology, University of Tetova , North Macedonia, May 17-19, 2023, oral presentation;
- Jankulovska M.S., Sokolovska V., Velkoska-Makovska L., Borgevska Z., **Karakasova Lj.**, Manasievska-Simikj S., Miskoska-Milevska E., Babanovska-Milenkovska F., Markoski M. (2021) Determination of Total Polyphenols and Flavonoids in Different Populations of Onions, 3rd World Conference on sustainable life sciences (e-conference) 19-21 October 2021, oral presentation;
- **Karakashova Lj.**, Babanovska-Milenkovska F., Stamatovska V. (2019) Quality properties of solar dried aronia, VIII Naučno – expert skup sa international učešćem. Visoka tehnička škola strukovnih studija, Zrenjanin, Srbija, oral presentation;
- **Karakashova Lj.**, Babanovska – Milenkovska F., Durmishi N., Stamatovska V., Chuleva B., Skenderoska Sh., (2019), Comparison on quality properties of different fresh and fermented cabbage, oral presentation, International congress on Natural, health sciences and technology, University of Tetovo, North Macedonia, oral presentation

Poster presentations at conferences and symposium

- Velkoska-Markovska Lenche, Jankulovska Mirjana S., Andonova Sunchica, Karakashova Ljubica, Babanovska-Milenkovska Frosina (2023) RP-HPLC method for simultaneous determination of some food additives in beverages, poster presentation, 26th Congress od SCTM with International participation, 20-23 September 2023 in Ohrid, N. Macedonia
- Frosina Babanovska-Milenkovska, Dragan Gjorgjev, **Ljubica Karakasova**, Biljana Culeva (2022) Artificial sweeteners in various food products - quantification and intake assessment, 4th International Symposium for Agriculture and Food, Faculty of Agricultural Sciences and Food-Skopje, Ss. Cyril and Methodius University in Skopje, North Macedonia, 12-14 October 2022, Ohrid, North Macedonia, poster presentation;
- Frosina Babanovska-Milenkovska, **Ljubica Karakasova**, Marina Stefova, Biljana Culeva, Shenaj Skenderoska, Hussein G. Daoud (2022) Quantification of carotenoids in some varieties of red peppers (*Capsicum annum* L.) And their processed products, 4th International Symposium for Agriculture and Food, Faculty of Agricultural Sciences and Food-Skopje, Ss. Cyril and Methodius University in Skopje, North Macedonia, 12-14 October 2022, Ohrid, North Macedonia, poster presentation;
- **Karakashova Lj.**, Stefanovska E., Babanovska-Milenkovska F., Stamatovska V., Durmishi N. & Culeva B., (2019) Comparing the quality properties of fresh and dried apple fruit - varieties pinova and red delicious. 3rd International Symposium for Agricultural and Food, 18-20 October, Ohrid, Republic of Macedonia, poster presentation;
- Babanovska-Milenkovska F., **Karakasova Lj.**, Culeva C., Stamatovska V., Durmishi N., (2018). Determination of vitamins as additives for fortification of refreshing soft drinks, 3rd

International Symposium for Agricultural and Food, 18-20 October, Ohrid, R. Macedonia, poster presentation;

- Babanovska-Milenkovska F., **Karakasova Lj.**, Stojanova M., Culeva B., Murkovic M., 2017. Changes of nutritional properties of three variants peppers by processing of pickled red peppers, 3rd International Symposium for Agricultural and Food, 18- 20 October, Ohrid, Republic of Macedonia, poster presentation
- **Karakashova Lj.**, Josifovski Z., Babanovska-Milenkovska F., Stamatovska V., Durmishi, (2018) Comparison of quality properties of certain varieties of fresh and frozen green beans, XXII International Eco-Conference, sept. 2018, Safe food, Novi Sad, Serbia, poster presentation

Participation in the delivery of lectures

1. Participation in lectures on "Organizational development and development of a rural development network for sustainable models of food security at the local rural level" held by the Rural Development Network of the Republic of Macedonia in Pehcevo, August 4 and 5, 2021.
2. Lecture on the topic: "Using free solar energy in solar dryers", as part of the Healthy Food, Healthy Youth project, held on 21.03.2013, "Pance Arsovski" Secondary School, Skopje
3. Lecture on the topic "Traditional food", as part of a seminar on the topic "Traditional knowledge and practices for sustainability for the use and protection of wild and cultivated plant diversity in Eastern Macedonia and Western Bulgaria" according to the Project "Traditional knowledge for sustainability - a cross -border network for utilization and protection of wild and cultivated plant diversity of East Macedonia and South-West Bulgaria" funded by IPA CBC, program number 2007CB16IPO007-2011-101, held on January 11, 12, 13, 2013, in Probishtip.
4. Lecture on "Solar drying of fruits and vegetables", at the seminar AgriBisforum, held on 11 and 12. 04. 2012, at the Faculty of Agricultural Sciences and Food, organized by AISEK; Skopje, a student organization with an international platform.
5. Participation in lectures on the topic "Processing of fruits and vegetables", as part of a summer academic course on Traditional Food and Drinks from the Land of the Sun, organized by BEST (Board of European Students in Technology), Skopje, July, 2012.
6. Participation in lectures on "Solar drying of different varieties of pepper" held in accordance with the Counseling Program (workshop for the production of peppers for processing, 2009, Strumica
7. Participation in lectures on "Guidelines and control for the production of packaged/processed pear and apple products" held by MAASP in Pehčevo and Gostivar, 2006.

Projects Participant in a national scientific research project

1. Participant in a national project entitled: "Determination of total polyphenol content and analysis of antioxidant activity of onion extracts". A scientific-research project financed by the integrative functions of the University "St. Cyril and Methodius" in Skopje, R. North Macedonia (2020/2021)
2. Participant in a national project under the title: "Development and validation of an analytical method for the simultaneous determination of preservatives, sweeteners and caffeine in soft drinks". Scientific research project to support the development of laboratory resources, supported by the Ministry of Education and Science, R . North Macedonia, (1.10.2021 – 31.10.2023).
3. 2015 - Participant in a national scientific project under the title: Change in the content of carotenoids in pepper (*Capsicum annum*) industrial (Kurtovo kapia) and spice (horgosh) during drying, approved by UKIM 2015, Decision no. 02-108/11 of January 30, 2015, Skopje.
4. Participant in a pilot project entitled "Drying of agricultural products with energy from solar radiation", under the leadership of CeProSARD: "Promotion of sustainable farming and energy practices in communities of the Republic of Macedonia, 2009
5. Participant in a national scientific project under the title: "Indigenous gene pool of pears in R. Macedonia", reported to the Ministry of Education, Culture and Sports, according to the Program for Financial Support in Agriculture for 2010, certified under no. 07-3891, dated May 17, 2010.
6. Participant in a national scientific project under the title: "Study of the autochthonous gene pool of pears in R. Macedonia", reported to the Ministry of Agriculture, according to the Program for Financial Support in Agriculture for 2009.
7. "Don't be a fossil, use the sun", organized by the Macedonian Environmentalist Movement, and financed by the Ministry of Environment and Spatial Planning of the Republic of Macedonia.

8. Comparative investigations of some berry fruits in Republic of Macedonia and Republic of Croatia, 2006-2008, financed by Ministry of Education and Science of R. Macedonia;
9. Solar drying of fruit (2002-2004), financed by the Ministry of Education and Science of R. Macedonia;

Manager in the implementation of the following projects:

- a. Advisory package plum in the field of agriculture, Pehcevo, financed by MAASP, Skopje, 2006;
- b. Advisory package apple in the field of agriculture, Gostivar, financed by MAASP, Skopje, 2006;
- c. New product development- Stuffed peppers with cream cheese, 2004, Land O, Lakes, Inc./ Macedonia
- d. New product development - Sun dried tomato in olive oil, 2004, Land O, Lakes, Inc./ Macedonia.

Participant in an international scientific project

- 2012 – 2013 – participant in the international project "Sector Marketing Plan for the Export of Processed Fruits and Vegetables", USAID AgBiz Program, CBI-Ministry of Foreign Affairs of the Netherlands and Invest Macedonia.
- Participant in the international scientific Tempus project, under the title: "Improvement and Establishment of Biotechnology in Higher Education", Tempus IV, ETF-JP-00295-2008, 2009-2011
- Participant in an international scientific project, under the guidance of NATO (NATO), Advanced Training Course "Food Safety and Security-Rapid detection methods, policy making and emergency response", held in Belgrade, Serbia, 2009.

Conferences

- **Karakashova Lj.**, Babanovska-Milenkovska F., Velkoska-Markovska L., Durmishi N (2024) Awareness of usage the artificial sweeteners in food by different population in North Macedonia, International Congress on natural health sciences and technology, 4-th International Conference of Food Technology and Nutrition, 15 – 17 May, 2024, Tetova, North Macedonia;
- Velkoska-Markovska Lenche, Jankulovska Mirjana S., Andonova Sunchica, **Karakashova Ljubica**, Babanovska-Milenkovska Frosina (2023) RP-HPLC method for simultaneous determination of some food additives in beverages, poster presentation, 26th Congress of SCTM with International participation, 20-23 September 2023 in Ohrid, N. Macedonia
- **Ljubica Karakashova**, Frosina Babanovska-Milenkovska, Jelena Mladenova, Lenche Velkoska-Markovska, **Namik Durmishi**, Vesna Bogdanovska (2023) Quality properties of solar dried goji berries (*Lycium barbarum*), International Congress on natural, health sciences and technology, University of Tetova, North Macedonia, 17-19 May, 2023, oral presentation;
- **Ljubica Karakashova**, Frosina Babanovska-Milenkovska, Jelena Mladenova, Lenche Velkoska-Markovska, Viktorija Stamatovska, Namik Durmishi (2022) Comparison of quality properties of fresh and solar dried *goji berries* (*Lycium barbarum*), XXVI International eco-conference 2022, XII Safe food, 21st – 23rd September 2022, Novi Sad, Serbia;
- Jankulovska M.S., Sokolovska V., Velkoska-Makovska L., Borgevska Z., **Karakasova Lj.**, Manasievska-Simikj S., Miskoska-Milevska E., Babanovska-Milenkovska F., Markoski M. (2021) Determination of Total Polyphenols and Flavonoids in Different Populations of Onions, 3rd World Conference on sustainable life sciences (e-conference) 19-21 October 2021;
- Stamatovska V., Nakov G, **Karakasova Lj**, Babanovska-Milenkovska F, Kalevska T., Jankuloska V., (2018) Change of anthocyanins content during production of jam from different species of fruit, Proceedings 9th International congress of Food Technologists, Biotechnologists and Nutritionists, Croatian Society of Food Technologists, Biotechnologists and Nutritionists, Croatia;
- **Karakashova Lj.**, Josifovski Z., Babanovska-Milenkovska F., Stamatovska V., Durmishi N., Comparison of quality properties of certain varieties of fresh and frozen green beans, XXII International Eco-Conference, sept. 2018, Safe food, Novi Sad, Serbia;
- Babanovska-Milenkovska F., **Karakasova Lj**, Gorgev D., Durmishi N., Xhabiri G., (2010), Verification of an analytical method for determining some artificial sweeteners used in the food industry, 1st International Congress on Food Technology, 03-06 November, Antalya, Turkey;

- **Karakasova Lj.**, Babanovska-Milenkovska F., Durmishi N., Mehmeti H., (2010), Processing technology of ajvar, lutenica and guvec, 1st International Congress on Food Technology, 03-06 November, Antalya, Turkey.
- **Karakasova Lj.**, Babanovska-Milenkovska F., Durmishi N., Mehmeti H., Processing technology of ajvar, lutenica and guvec, 1st International Congress on Food Technology, 03-06 November, 2010, Antalya, Turkey.
- Bogdanovska-Mirchevska V., **Karakashova Lj.**, Ristovska N., Examination of the chemical composition of fresh and solar-dried individual varieties of tomatoes, Book of abstracts, VIII Congress of pure and applied chemistry of students from Macedonia, with international participation, 2009, pp. 54-55
- **Karakasova Ljubica**, Rafajlovska Vesna, Anatanovski Aleksandar, Ristovski Boris. 2007., Pomological and technological characteristics of solar dried apricot cultivars. Proceeding of 5 th International Congress on Food Tehnology, Thessaloniki. Grece, Volume 3, 143-147.

Seminars

- 2022 – 2023 Participation is a series of workshops on the topic of the Smart Agriculture Strategy, from the area: smart agriculture and food industry with products with higher added value.
- 2012 - Workshop attendance - Workshop for Food Safety in Practice for the Region of South-East Europe, held on November 29 and 30, 2012, in Budva, as an international conference on food safety, a project organized by Balkan Net , Skopje, with the financial support of the Michel Institut (GIZ), and the partners Institute for Public Health, Skopje, Macedonia and the Chamber of Commerce of Serbia.
- 2012 - Attendance at a workshop - Workshop for Food Safety for the Region of South-East Europe, held on May 17 and 18, 2012, in Skopje, as an international conference on food safety, a project organized by Balkan Net, Skopje, with the financial support of Michel Institut (GIZ), and partners Institute of Public Health, Skopje, Macedonia and Chamber of Commerce of Serbia.
- 2012 – Active participation in a series of workshops (5 – held in the period from September 2012 to March 2013, for the Sectoral Marketing Plan for Export of Processed Fruits and Vegetables, held in Skopje and Strumica. The workshops were organized by Makedonij Export and Invest Macedonia, sponsored by USAID, AgBiz Program.

Memberships

- Member of the evaluation committee of the 50th jubilee state competition of young technicians and naturalists from the Republic of Macedonia, in the area of Agrotechnics, Probishtip, 2013;
- Chairman of the evaluation committee of the 49th state competition of young researchers from the Republic of Macedonia, in the area of Agrotechnics, Shtip, 2013;
- Chairman of the evaluation committee of the state competition of young researchers from the Republic of Macedonia, in the area of Agrotechnics, Probishtip and Skopje, 2014;
- Member of the working group for defining priority agricultural and food products for the protection of geographical and traditional names, Decision no. 08-10.2013, Ministry of Education and Culture.
- Member of the expert commission for the implementation of the procedure for registering protective marks of origin - "Valandovo white winter" - Ministry of Interior, Decision no. 11-11023/2, 18.12.2012.
- Member of the expert commission for the implementation of the procedure for registering protective marks of origin - "Ohrit cherry" - Ministry of Education, Culture, Sports, Science and Technology, Decision no. 11-11022/2, 18.12.2012.
- Coordinator of the study program Food Quality and Safety, Institute of Food, second cycle of studies from 2010/2011.
- Member of the committee for publishing activity.
- Member of the faculty committee for the second cycle of studies at FZNH from 2010/2011.
- Head of the Department of Fruit and Vegetable Processing since 2009.
- Member of the Program Board of the VIII Naučno – vočni skup sa učesniho učeščem, Preduzetništvo-inženjerstvo-menadžment, Visoka tehnička škola strukovnih studija, Zrenjanin, 20.4.2019, Serbia.
- Member of a working group for the drafting of a national Rulebook in the Food and Veterinary Agency, 2019-2020.

- Member of the working group for defining priority agricultural and food products for the protection of geographical and traditional names, Decision no. 08-10.2013, Ministry of Education and Culture.
- Member of the expert commission for the implementation of the procedure for registering protective marks of origin - "Valandovo white winter" - Ministry of Interior, Decision no. 11-11023/2, 18.12.2012.
- Member of the expert commission for the implementation of the procedure for registering protective marks of origin - "Ohrid cherry" - Ministry of Education, Culture, Sports, Science and Technology, Decision no. 11-11022/2, 18.12.2012.
- Coordinator of the study program Food Quality and Safety, Institute of Food, second cycle of studies from 2010/2011.
- Member of the committee for publishing activity.
- Member of the faculty committee for the second cycle of studies at FZNH from 2010/2011

Additional activities:

- National consultant in UNDP from 2022 to present
- A lecturer of the second cycle of studies, at the Institute of Economics, UKIM, Skopje, Macedonia, in the field of Agribusiness, subject: Quality and standardization, (summer semester) 2009.
- Participation on performed lectures on topics: Shelf life and packaging food by modified atmosphere; Food texture: what is it? Why is it important?, by prof. Dr. Johan Claes, Katholieke Hogeschool Kempen, Kempen University Collage, Geel, Belgium, at the Faculty of Agricultural Sciences and Food, Skopje, 2011
- Reviewer of a development-research project proposal under the title ("Development and implementation of measures for cleaner production in the fodder production industry"), reported to the Ministry of Education and Science, 2010;
- Reviewer of a development-research project proposal under the title ("Obtaining essential oils from *Thymus vulgaris* L., *Juniperus communis* L. and *Evernia Prunastri* (L) Ach using steam distillation"), reported to the Ministry of Education and Science, 2010;
- Reviewer of a proposal for a development-research project under the title ("Effects of toasting and extrusion on improving the nutritional value of rapeseed meal"), reported to the Ministry of Education and Science, 2010;
- Preparation and reporting of a national project proposal for the financing of projects in the field of crop and livestock production and general measures from the Program for Financial Support in Agriculture for 2010, at the Ministry of Agriculture, under the title: Application of solar drying for the processing of fruits and vegetables. carrier.
- Preparation and reporting of a proposal for a national project for the allocation of funds for the financing of the annual programs for scientific and research activity of the Public Scientific Institutions for 2010, at the Ministry of Education and Culture, under the title: Quality control of raw materials of plant origin, semi-processed and final products, carrier.
- Active cooperation with producers and processors of fruits and vegetables and with several associations from the field of agriculture and the food sector, where he has conducted several expert lectures.
- Active participation in professional and application activities, participation in the preparation of reports for several production plants.
- In 2008, participation in the program for market, advisory and commercial advice and services in the IFAD project, with successful performances of lectures and trainings on solar drying of fruits and vegetables for individual agricultural producers.
- Participates in the drafting of the Rulebook on the method of performing inspection supervision certification of import, export and internal market of fresh fruits and vegetables at the Ministry of Health of R. Macedonia.
- The president of the "Association for production, processing and standardization (of fruits and vegetables) of the Republic of Macedonia".
- Active participation in the work of governmental and non-governmental organizations operating in the field of agriculture and the food sector.
- As a manager or team member, participation in the implementation of several scientific research projects in the field of processing and fruit growing, financed by governmental, non-governmental and foreign institutions.
- Head of the Department of Fruit and Vegetable Processing since 2009
- Preparation and reporting of a national project proposal for the distribution of funds for financing and implementation of programs, projects and other environmental activities for 2013, under the title: Solar drying of fruits, vegetables, medicinal and aromatic plants.

- Preparation and reporting of a national project proposal for the distribution of funds for financing and implementation of programs, projects and other environmental activities for 2013, under the title: Utilization of alternative energy sources with the application of solar dryers.
- Preparation and reporting of a proposal for a national project for the sophistication of a development-research project at the Ministry of Education and Culture, under the title: Determination of the conditions for packaging olives using a modified atmosphere.