

## PERSONAL INFORMATION

### VALENTINA PAVLOVA



**University St. Kliment Ohridski Bitola, Republic of North Macedonia**

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<https://ttfv.uklo.edu.mk/about-the-faculty/basic-information/professors/?lang=en>

Gender **female** | Date of birth **7<sup>th</sup> Jun 1975** | Nationality **Macedonian**

## WORK EXPERIENCE

- 2019 - present**    **Professor, Prof. Dr. sc**  
 University St. Kliment Ohridski Bitola (UKLO), Republic of North Macedonia  
 Faculty of Technology and Technical Sciences, Veles
- 2014 - 2019**    **Associate Professor, Assoc. Prof. Dr. sc**  
 University St. Kliment Ohridski Bitola, Republic of North Macedonia  
 Faculty of Technology and Technical Sciences, Veles
- 2009 - 2014**    **Assistant Professor, Asst. Prof. Dr. sc**  
 University St. Kliment Ohridski Bitola, Republic of North Macedonia  
 Faculty of Technology and Technical Sciences, Veles
- 2005 - 2009**    **Teacher Assistant**  
 Ss. Cyril and Methodius University in Skopje (UKIM), R. North Macedonia  
 Faculty of Natural Sciences and Mathematics, Institute of Chemistry
- 2002- 2005**    **Young Teacher Assistant**  
 Ss. Cyril and Methodius University in Skopje, R. North Macedonia  
 Faculty of Natural Sciences and Mathematics, Institute of Chemistry

## SIGNIFICANT ACTIVITIES

- May 2013-Jun 2018**    **Dean**  
 University St. Kliment Ohridski Bitola, Republic of North Macedonia  
 Faculty of Technology and Technical Sciences, Veles
- February-May 2013**    **Acting Dean**  
 University St. Kliment Ohridski Bitola, Republic of North Macedonia  
 Faculty of Technology and Technical Sciences, Veles

- 2013-2018** **Member of Rector Board** at  
University St. Kliment Ohridski Bitola, Republic of North Macedonia
- 2012-2013** **Coordinator of master studies**  
for Quality Management and Food Safety  
Faculty of Technology and Technical sciences, Veles
- 2011-2014** **Coordinator of ERASMUS** Life-long Learning for Faculty of Technology and  
Technical sciences, Veles
- 2011-2013** **Member of University Senate** at University St. Kliment Ohridski Bitola,  
Republic of North Macedonia
- 2010-2012** **Vice-Dean of Science** at Faculty of Technology and Technical sciences, Veles

## EDUCATION

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- 2014- 2015** **Post-Doctorate Research** in Food Technology and Nutrition, ATEI  
Thessaloniki, Greece  
Study of rheological properties of frozen and fresh dough systems  
using squeeze flow technique under lubricated conditions
- 2005- 2007** **Doctor** of Science (Ph. D.) in Chemistry EQF level 8  
Ss. Cyril and Methodius University in Skopje, R. North Macedonia  
Faculty of Natural Sciences and Mathematics, Institute of Chemistry  
Thesis Title: Determination of some psychostimulative drugs in forensic samples  
and different drinks using High-performance liquid chromatography
- 2001- 2005** **Master** of Science (M. Sc.) in Chemistry EQF level 7  
Ss. Cyril and Methodius University in Skopje, R. North Macedonia  
Faculty of Natural Sciences and Mathematics, Institute of Chemistry  
Thesis Title: Development and application of High-performance liquid  
chromatographic and Voltammetric methods for determination of cocaine and  
benzoylecgonine
- 1994 - 1999** **Graduate Engineer** of Chemistry (B. Sc.) EQF level 6  
Ss. Cyril and Methodius University in Skopje, R. North Macedonia  
Faculty of Natural Sciences and Mathematics, Institute of Chemistry  
Thesis Title: Development of Square-wave and Cyclic voltammetric method for  
determination of vanadium

## TRAINING

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**2019** WBAA SKILL TRAINING **PROJECT MANAGEMENT**, European Commission & Western Balkans Alumni Association, Belgrade, Serbia, 31 May-1 June 2019.

**2017** TRAINING IN **EVIDENCE BASE FOR RISK ASSESSMENT**, Training courses on aspects of food safety risk assessment for the experts from the Pre-accession countries (Albania, Bosnia and Herzegovina, FYR of Macedonia, Montenegro, Serbia, Kosovo and Turkey), European Food Safety Authority, Sarajevo, Bosnia and Herzegovina, 21-22 June 2017.

**2017** EHEDG **Basic Course on Hygienic Engineering and Design**, Consulting and Training Centre KEY, Skopje, Macedonia, 10 October 2017.

**2017** TRAINING IN **EXPOSURE ASSESSMENT**, Training courses on aspects of food safety risk assessment for the experts from the Pre-accession countries (Albania, Bosnia and Herzegovina, FYR of Macedonia, Montenegro, Serbia, Kosovo and Turkey), European Food Safety Authority, Belgrade, Serbia, 26-27 October 2017.

## PERSONAL SKILLS

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**Mother tongue(s)** **Macedonian**

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
<b>English</b>	C1	C1	B2	B2	C1
<b>Serbian/ Croatian</b>	C1	C2	C1	C1	C2
<b>German</b>	B1	B2	A1	A1	A2
<b>Bulgarian</b>	B1	B2	B1	B1	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

**Communication skills** • Good communication skills gained through the academic and professional experience as professor, researcher, chemistry engineer and nutritionist

**Organisational/ managerial skills** • good organizational/managerial skills gained through the experience as Dean, Vice-Dean, and participation on project activities

**Computer skills** • Excellent computer skills, Microsoft Office

## PROFESSIONAL INTERESTS

- Analytical chemistry** • Physical and chemical properties of food, drugs
- Biochemistry** • Biochemical analysis of components in blood, urine
- Sensory analysis** • Experimental design and statistical analysis
- Nutrition** • Nutrition of athletes, elderly, children, women
- Antioxidants** • Vitamins, minerals, plant antioxidants, supplements
- Electrochemistry** • Voltammetric methods (Square Wave Voltammetry)

## TEACHING EXPERIENCE

### 1. Laboratory and Theoretical Exercises

- Analytical chemistry, General chemistry for biologists and Instrumental chemistry  
**(Institute of Chemistry & Biology, Faculty of Natural Sciences and Mathematics-UKIM, Skopje, Macedonia)**
- Analytical chemistry for ecologists  
**(Faculty of Machine Engineering-UKIM, Skopje, Macedonia)**
- Medicinal chemistry  
**(Faculty of Medicine-UKIM, Skopje, Macedonia)**
- Medicinal chemistry for dentists  
**(Faculty of Dentistry-UKIM, Skopje, Macedonia)**
- Chromatography and Trace analysis (master studies of chemistry-UKIM, Skopje, Macedonia)
- Chemistry  
**(Private Gymnasium NOVA, Skopje, Macedonia)**

### 2. Teaching subjects

- Analytical chemistry, Biochemistry, Biochemistry 1, Biochemistry 2, Introduction in technology of cosmetically and pharmaceutical products, Antioxidants, vitamins and minerals, Nutrition of athletes, women and elderly, Food science 1, Sensory analysis of food, Medical laboratory research  
**(bachelor studies,**
  - **Faculty of Technology and Technical Science, Veles;**
  - **High Medical School-Bitola,**
  - **Faculty of Veterinary, Bitola)**
- Methods in scientific and research work with biostatistics; Sensory analysis of food; Nutritive aspects of components of food, New, organic and functional food; Bioactive components in food  
**(master studies, Faculty of Technology and Technical Science, Veles-UKLO, Bitola, Macedonia)**
- Scientific-research methods in food technology and nutrition, data analysis and biostatistics; Biochemistry of important food components; Oxidants and antioxidants (natural and synthetic); Herbal medicines, medicinal herbs and honey; Novel and functional food; Food Chemistry; Modern instrumental methods, analysis techniques and sensory analysis of food  
**(doctoral studies-Innovative technologies and nutrition, Faculty of Technology and Technical Science, Veles-UKLO, Bitola, Macedonia)**

## ADDITIONAL INFORMATION

- Publications (last 5)**
1. T. Blazevska, M. Menkinoska, **V. Pavlova**, V. Stamatovska, G. Cilev, S. Stojanovski, N. Dimovska, Microbiological characteristics and hygienic-sanitary aspect of the water from Black River in the Pelagonija region-North Macedonia. *Bulgarian Journal of Soil Science Agrochemistry and Ecology*. pp. 15-20 (2021).
  2. **V. Pavlova**, B. Bogdanova Popov, V. Karapetkovska Hristova, S. K. Mustafa, A. A. Oyouni, M. R. Ajma, M. A. Ahmad, O. Alzahrani, A. A. Elsayed, M. A. Shariati, Chemical characterization of VARUMIN (1 and 2) oral solutions as potential therapeutic beverages, *International Journal of Pharmaceutical Research*, **12** (2), 4453-4460 (2020). IF=0.67
  3. N. Ilievska, **V. Pavlova**, J. Ilievska, V. Kirovska, M. Pavlovska, Review paper on the effects of antibiotic use in agricultural animals on the human health and formation of food born antibiotic resistant microorganisms, *Journal of Hygienic Engineering and Design*, **27**, 22-26 (2019). ISSN 1857-8489 SCOPUS.
  4. N. Ilievska, **V. Pavlova**, V. Kirovska, J. Ilievska, M. Pavlovska, Nutritional and health benefits of inulin as functional food and prebiotic, *Journal of Hygienic Engineering and Design*, **27**, 45-48 (2019). ISSN 1857-8489 SCOPUS.
  5. N. Ilievska, **V. Pavlova**, The benefits of nutrition and supplementation treatment for chronic non-communicable diseases with alpha lipoic acid, *Journal of Hygienic Engineering and Design*, **17**, 24-27 (2016) ISSN 1857-8489 SCOPUS

### BOOKS/ Book Chapters

1. Petrovska-Jovanović S., Trajkovska V., **Pavlova V. (2006): Quantitative analytical chemistry-Practicum** [Квантитативна аналитичка хемија-Практикум]. 1<sup>st</sup> Edition. Skopje, Macedonia, Faculty of Natural Sciences and Mathematics. 320 pp. ISBN: 9989-668-54-X  
Petrovska-Jovanović S., Trajkovska V., **Pavlova V. (2009): Quantitative analytical chemistry-Practicum** [Квантитативна аналитичка хемија-Практикум]. 2<sup>nd</sup> supplemented Edition. Skopje, Faculty of Natural Sciences and Mathematics. 320 pp. ISBN: 9989-668-54-X
2. **Pavlova V. (2017). Cocaine and benzoylecgonine determination using HPLC and SWV methods**, LAP LAMBERT Academic Publishing, Beau Bassin, 104 pp. ISBN: 978-620-2-09411-5
3. Kakurinov V., **Pavlova V.**, Ilievska N. (2021). **Food, nutrition, and health in Macedonia**. In: Gostin A-I., Bogueva D., Kakurinov V., (Eds.), Nutritional and Health Aspects of Food in the Balkans, Elsevier, Netherlands, pp. 143-165.

- PROJECTS**
1. **Development of HPLC methods for determination pesticides from wine samples** (Ministry of sciences of Macedonia), 2000-2003.
  2. **Study of redox reactions of uraciles with modern volammetric methods** (Ministry of sciences of Macedonia), 2000-2003.
  3. **Development and application of chromatographic and voltammetric methods for determination of drugs - group of cocaine and amphetamine** (Ministry of sciences of Macedonia and Croatia), 2005-2006.
  4. **Development of methods for determination of chemical forms of toxic and escential elements in food products and environmental examples** (Ministry of sciences of Macedonia and Bulgaria), 2005-2007.
  5. **TEMPUS project**, Reforms and upgrade of chemistry undergraduate studies in Macedonia, 2007-2009.
  6. **Bioaccumulation of perfluorinated compounds-the last big chemical affair of the 20<sup>th</sup> century**, (Ministry of sciences of Macedonia), 2010-2012.
  7. **TEMPUS project**, FOODLINKS, Improving academia-industry links in food safety and quality (158714-TEMPUS-ES-TEMPUS-JPHES), 2010-2013.
  8. **TEMPUS project**, STREW, (TEMPUS building capacity for structural reform in higher education of Western Balkan countries), 2010-2013.
  9. **BASILEUS IV**, Balkans academic scheme for the internationalisation of learning in cooperation with EU universities, Erasmus Mundus Action 2 Lot 6-Western Balkans region, 2012-2016.
  10. **Mothers approve**, Droga Kolinska, Member of Atlanic group, Zagreb, Croatia, 2013.
  11. **BASILEUS V**, Balkans academic scheme for the internationalisation of learning in cooperation with EU universities, Erasmus Mundus Action 2 проект Lot 7-Western Balkans region, 2013-2017.
  12. **BALKAN MED project**, Benefit as you save (BAS,) Interreg V-B, Balkan Mediterranean project, 2017-2020.
  13. **Twining project**, Developing cooperation between higher education institutions, the private sectors and relevant public bodies. MK 13 IPA SO 01 16 R, 2017.
  14. **Healthy meal for every child**, Vanila Fud, Skopje, Macedonia, October 2017-June 2018.
  15. **With better nutrition of children to better health and well-being**, Centre for Regional Policy Research and Cooperation (Studiorum), supported by the Office of UNICEF in Skopje, February-March 2018.
  16. **Healthy meal for every child, new trends in school kitchens**, Vanila Fud, Skopje, Macedonia, July 2018-May 2019.

**MEMBERSHIP  
/AWARDS  
/Consultancy**

- **Member of scientific societies and organisations:** European Hygienic Engineering and Design Group, Macedonian Scientific Society, Society of Chemists and Technologists of Macedonia, Western Balkans Alumni Association.
- **Member of International Scientific Committee:** Conference on Food Quality and Safety, Health and Nutrition NUTRICON, and NUTRICON Congress 2014-2022; Hygienic Design festival, 2015; Workshop on food science, technology and nutrition, “Innovative technologies for advanced food processing and nutrition towards better health” 2015; Scientific Satellite Symposium-„Euro Global Summit & Medicare Expo on Weight Loss“ 2015; First Black Sea Association of Food science and Technology-B-Fost Congress, 2016; 6th International Congress on Food Technology, 2017; 3<sup>rd</sup> International Conference on Rheology and Modeling of Materials, 2017.
- **Member of National Scientific and Organizing Committee:** Fifth Congress of Pure and Applied Chemistry for Students of Macedonia, 2003; High School Competition in the Field of Analytical Chemistry, Organic Chemistry, Inorganic chemistry 2003, 2016-2018; Primary School Competition in the Field of Applied Chemistry, 2003-2006; Sixth Congress of Pure and Applied Chemistry for Students of Macedonia, 2005.

**AWARDS**

1. D. Iloska, S. Cekovska, V. Koloska, **V. Pavlova**, P. Cornets, Effect of the type of proteinuria on the four methods for the determination of total proteins, 33 Primatijada (sport-scientific competition), Zlatar, Serbia, 2006 (**1<sup>st</sup> place** in the category - **biochemistry**).
2. A. Razmovska, S. Markovska, **V. Pavlova**, Application of a derivative reagent for determining psychostimulative drugs in forensic samples, 34 Primatijada (sport-scientific competition), Struga, Macedonia, 2007 (**2<sup>nd</sup> place** in the category - **chemistry**).
3. A. Ivanović, Z. Dekov, **V. Pavlova**, Development, validation and application of HPLC/DAD method for determination of MDA, MDMA, MDAE and MBB, 34 Primatijada (sport and scientific competition), Struga, Macedonia, 2007 (**4<sup>th</sup> place** in the category - chemistry).
4. V. Spasovska, S. Todorova, **V. Pavlova**, Determination of phytochemicals in Varumin 1 and Varumin 2 and their application in anticancer therapy, 35 Primatijada (sport-scientific competition), Chanj, Montenegro, 2008 (**2<sup>nd</sup> place** in the category - **biochemistry**).
5. M. Mladenovska, **V. Pavlova**, Analysis of the ancient drinks: coffee, cocoa and tea with High-efficiency liquid chromatography, 35 Primatijada (sport-scientific competition), Chanj, Montenegro, 2008 (3<sup>rd</sup> place in the category - **biochemistry**).
6. V. Spasovska, **V. Pavlova**, Determination of cocaine and benzoecronine in seized material with Square-wave voltmetry, 36 Primatijada (sport-scientific competition), Ohrid, Macedonia, 2009. (**1<sup>st</sup> place** in the category - **analytical chemistry**).
7. M. Mladenovska, **V. Pavlova**, Determination of amphetamine, methamphetamine and caffeine in forensic samples using the HPLC method, 36 Primatijada (sport-scientific competition), Ohrid, Macedonia, 2009 (**3<sup>rd</sup> place** in the category - **analytical chemistry**).
8. A. Saveski, V. Stamatovska, **V. Pavlova**, M. Srbinoska, Red Fruits as a source of anthocyanidins with antioxidant action, 2013 (**1<sup>st</sup> award for research work for 2013, University St. Kliment Ohridski Bitola Macedonia**).

9. **V. Pavlova - scholarship for academic staff** in the frame of Basileus IV project, Erasmus Mundus Action 2 Lot 6-Western Balkans region at Department of Food Technology and Nutrition, Alexander Technological Educational Institute of Thessaloniki (ATEI), Thessaloniki, Greece, January-February 2014.
  10. **V. Pavlova - scholarship for post-doctorate fellow** in the frame of Basileus V project, Erasmus Mundus Action 2 Lot 7-Western Balkans region at Department of Food Technology and Nutrition, ATEI, Thessaloniki, Greece, December 2014-May 2015.
  11. **V. Pavlova**, N. Ilievska, M. Menkinoska, T. Blazhevaska, Nutrition strategies and physical activity of elderly in nursing homes and association of pensioners, *9<sup>th</sup> International Scientific and Professional Conference WITH FOOD TO HEALTH*, Osijek, Croatia, 13 October 2016. **(the best poster presentation)**
  12. **V. Pavlova** - TRAINING IN EVIDENCE BASE FOR RISK ASSESSMENT, Training courses on aspects of food safety risk assessment for the experts from the Pre-accession countries (Albania, Bosnia and Herzegovina, FYR of Macedonia, Montenegro, Serbia, Kosovo and Turkey), CONTRACT NUMBER-NP/EFSA/AFSCO/2017/01, European Food Safety Authority, Sarajevo, Bosnia and Herzegovina, 21-22 June 2017.
  13. **V. Pavlova** - EHEDG Basic Course on Hygienic Engineering and Design, Consulting and Training Centre KEY, Skopje, Macedonia, 10 October 2017.
  14. **V. Pavlova** - TRAINING IN EXPOSURE ASSESSMENT, Training courses on aspects of food safety risk assessment for the experts from the Pre-accession countries (Albania, Bosnia and Herzegovina, FYR of Macedonia, Montenegro, Serbia, Kosovo and Turkey), CONTRACT NUMBER-NP/EFSA/AFSCO/2017/01, European Food Safety Authority, Belgrade, Serbia, 26-27 October 2017.
  15. **V. Pavlova** - participation on 1<sup>st</sup> General Assembly-WBBA, organized by the Western Balkans Alumni Association & European Commission, Tirana, Albania, 14-16 March 2019.
- **EXPERT CONSULTANT:**  
VANILA FUD, Skopje, Macedonia (2017-today)  
ZITO LUKS AD Skopje, Macedonia (2018-2019)
  - **INDEPENDENT EXTERNAL EXPERT** on COST Open Call OC-2018-2, COST Association Brussels, Belgium, 2019
  - **REVIEWER** of six International Journals:
    - Food and Public Health,
    - American Journal of Biochemistry,
    - Resources and Environment,
    - International Journal of Food Science and Nutrition Engineering,
    - Current Research in Nutrition and Food Science Journal,
    - Horizons.
  - **PARTICIPATION** of more than 200 diploma works, 17 master works and 2 doctoral dissertations as mentor and as member of commission (for a period of 17 years, 2004-2021).