

CURRICULUM VITAE

PERSONAL INFORMATION

Name	Zorica ARSOVA-SARAFINOVSKA
Address(es)	ul. Nikola Trimpare br. 31/1-3, Skopje-Centar, 1000 Skopje, Republic of Macedonia
Telephone(s)	office: (+389-2) 312 50 44 (ext. 106); mobile: (+389-70) 337 572 home: (+389-2) 324 55 79
Fax(es)	(+389-2) 322 33 54
E-mail	zarsova2002@yahoo.co.uk; z.arsova@iph.mk
Nationality	Republic of Macedonia
Date of birth	Jun 3, 1966

EXPERTISE

- Development and validation of analytical methods for compliance testing in pharmaceuticals, food and beverages, cosmetics, personal care and household products, agricultural products and products of animal origin (identification and assay of active substances, related substances and degradation products) using techniques of high performance liquid chromatography (HPLC), UV/VIS spectrophotometry, gas chromatography (GC/FID); physical and chemical testing, potentiometric determination of pH; gravimetric techniques, titrimetry, refractometry, polarimetry etc...;
- Applications of UV/VIS spectroscopy and high performance liquid chromatography (HPLC) in biochemistry
- Technical Assessor/Expert in the assessment of the implementation of the standard ISO/IEC 17025 (Chapter 5);
- Advisory services to the Ministry of Health on the preparation of the implementation regulations (by-laws).
- Quality assessment of chemical-pharmaceutical and biological documentation of medicinal products in the procedure for granting marketing authorizations, for the renewal of the MA, and applications of variations;
- Reviewer for Scientific Publications: Human & Experimental Toxicology; Journal of Liquid Chromatography & Related Technologies; Archives of Public Health; Balkan Journal of Medical Genetics; Macedonian Journal of Chemistry and Chemical Engineering

WORK EXPERIENCE

- | | |
|--|--|
| • Dates (from – to) | 1989 – 1990 |
| • Name and address of employer | Macedonian Academy of Sciences and Arts, Skopje, Republic of Macedonia |
| • Type of business or sector | Research Centre for Genetic Engineering and Biotechnology |
| • Occupation or position held | Researcher |
| • Main activities and responsibilities | Human genetics, Biochemistry, Molecular biology (routine analyses, participation in the scientific projects) |
| • Dates (from – to) | 1993 – 2007 |
| • Name and address of employer | Republic Institute for Health Protection, Skopje, Republic of Macedonia |
| • Type of business or sector | Department for Quality Control of Medicines |
| • Occupation or position held | Analyst |
| • Main activities and responsibilities | Quality control of medicines |

- Dates (from – to) 2002 – 2005
- Name and address of employer Gulhane Military Medical Academy, Etlik, Ankara, Turkey
 - Type of business or sector Department of Pharmaceutical Sciences
 - Occupation or position held Researcher
 - Main activities and responsibilities Biochemistry, Pharmaceutical Toxicology (routine analyses, method development and validation, participation in the scientific projects)
- Dates (from – to) 2007 – present
- Name and address of employer Institute of Public Health, Skopje, Republic of Macedonia
 - Type of business or sector Department for Quality Control of Medicines
 - Occupation or position held Head of the Chemical - Pharmaceutical Section
 - Main activities and responsibilities Supervisor of the laboratory for the quality control of medicines
- Dates (from – to) 2008 - present
- Name and address of employer Institute of Accreditation of the Republic of Macedonia
 - Type of business or sector Sector for accreditation of testing laboratories
 - Occupation or position held Technical Assessor, Expert for ISO/IEC 17025
 - Main activities and responsibilities Technical assessment in the process of accreditation of testing laboratories according to the standard ISO/IEC 17025 (Chapter 5)
- Dates (from – to) 2009 - present
- Name and address of employer Institute of Public Health, Skopje, Republic of Macedonia
 - Type of business or sector Laboratory Reference Centre
 - Occupation or position held Head of the Laboratory Reference Centre
 - Main activities and responsibilities Management and coordination of the laboratory work
- Dates (from – to) 2011 - present
- Name and address of employer Faculty of Pharmacy, “Ss. Cyril and Methodius” University, Skopje, Republic of Macedonia
 - Type of business or sector Pharmaceutical Regulatory Compliance
 - Occupation or position held Prominent Expert
 - Main activities and responsibilities Invited speaker at the postgraduate studies
- Dates (from – to) 2010 - present
- Name and address of employer Faculty of Medicine, “Goce Delcev” University, Stip, Republic of Macedonia
 - Type of business or sector Analytical control of medicines
 - Occupation or position held Assistant Professor
 - Main activities and responsibilities Assistant Professor in the subjects: Quality control of medicines; Phytopharmacy
Phytochemistry

EDUCATION

- Dates (from – to) 1984 - 1988
- Name and type of organization providing education and training Faculty of Pharmacy, “Ss. Cyril and Methodius” University, Skopje, Republic of Macedonia
- Principal subjects/occupational skills covered Pharmaceutical chemistry; Analytical Chemistry; Pharmaceutical Technology; Toxicological Chemistry; Phytopharmacy, Pharmacognosy; Quality Control of Medicines etc...

<ul style="list-style-type: none"> • Title of qualification awarded • Level in national classification (if appropriate) 	B.Sc., Pharmacy /
<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organization providing education and training • Principal subjects/occupational skills covered 	1996 - 2001 Faculty of Pharmacy, “Ss. Cyril and Methodius” University, Skopje, Republic of Macedonia Courses: Drug Metabolism and Interactions, Pharmaceutical Toxicology; Therapeutic Drug Monitoring, Biochemistry Thesis: Influence of macrolide antibacterial roxithromycin on cytochrome P450 enzyme systems by monitoring theophylline serum concentrations in patients with asthma
<ul style="list-style-type: none"> • Title of qualification awarded • Level in national classification (if appropriate) 	M.Sc., Pharmacy /
<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organization providing education and training • Principal subjects/occupational skills covered 	2001 - 2006 Faculty of Pharmacy, “Ss. Cyril and Methodius” University, Skopje, Republic of Macedonia, 2006 Quality Control of Medicines
<ul style="list-style-type: none"> • Title of qualification awarded • Level in national classification (if appropriate) 	Specialist (Quality Control of Medicines) /
<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organization providing education and training • Principal subjects/occupational skills covered 	2005 - 2008 Faculty of Pharmacy, “Ss. Cyril and Methodius” University, Skopje, Republic of Macedonia Courses: Toxicology, Molecular biology, Human genetics, Biochemistry Dissertation: Oxidative stress, oxidative DNA damage and genetic polymorphism of antioxidant enzymes in prostate cancer
<ul style="list-style-type: none"> • Title of qualification awarded • Level in national classification (if appropriate) 	Ph.D., Pharmacy /

TRAININGS

<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organization providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded 	12.02.-02.03.2007; 26-30.03.2007 CARDS Twinning Project between Macedonia and Hungary and the Netherlands (FYROM –2003–IB–JH–01), Skopje, Macedonia, Budapest, Hungary Combating Drugs-Related Criminal Activities - Analysis of seized drugs; Analysis drugs in biological samples Certificate of attendance
<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organization providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded 	30.05-01.06.2007 Global Certification Services Ltd. Bulgaria Basic Training Course EN ISO/IEC 17025 Certificate of attendance
<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organization providing education and training 	29.09.2007 Farmahem DOOEL Skopje, Macedonia with DSP Chromatography, Serbia and Agilent Technologies

<ul style="list-style-type: none"> • Principal subjects/occupational skills covered 	<p>New developments in sample throughput for purity and assay determination using electronic pressure control and capillary flow technology on Agilent 7890 GC; New perspectives for fast HPLC using two micron packing material, broader pressure, flow and temperature range of analytical equipment on Agilent 1200RR system</p>
<ul style="list-style-type: none"> • Title of qualification awarded 	<p>Certificate of attendance</p>
<ul style="list-style-type: none"> • Dates (from – to) 	<p>11-15.02.2008</p>
<ul style="list-style-type: none"> • Name and type of organization providing education and training 	<p>Institute of Accreditation of the Republic of Macedonia (IARM)</p>
<ul style="list-style-type: none"> • Principal subjects/occupational skills covered 	<p>Assessor Training Course (ISO/IEC 17025, ISO/IEC 17020, EN 45011)</p>
<ul style="list-style-type: none"> • Title of qualification awarded 	<p>Certificate of attendance</p>
<ul style="list-style-type: none"> • Dates (from – to) 	<p>22-24.11.2010</p>
<ul style="list-style-type: none"> • Name and type of organization providing education and training 	<p>European Medicines Agency, London, UK</p>
<ul style="list-style-type: none"> • Principal subjects/occupational skills covered 	<p>IPT - Joint Meeting Committee of Human Medical Products / Committee of Veterinary Medical Products Quality Working Party</p>
<ul style="list-style-type: none"> • Title of qualification awarded 	<p>/</p>
<ul style="list-style-type: none"> • Dates (from – to) 	<p>29-30.11.2010</p>
<ul style="list-style-type: none"> • Name and type of organization providing education and training 	<p>European Medicines Agency</p>
<ul style="list-style-type: none"> • Principal subjects/occupational skills covered 	<p>Human and Veterinary Pharmaceuticals' Regulation -Towards EU Accession: Serbia's Regulatory Challenges, Expectations and Opportunities', in Belgrade, Serbia</p>
<ul style="list-style-type: none"> • Title of qualification awarded 	<p>Certificate of attendance</p>
<ul style="list-style-type: none"> • Dates (from – to) 	<p>14-17.12. 2010</p>
<ul style="list-style-type: none"> • Name and type of organization providing education and training 	<p>WHO Regional Office for Europe jointly with WHO Headquarters, Lion</p>
<ul style="list-style-type: none"> • Principal subjects/occupational skills covered 	<p>Laboratory quality management system training (ISO 15189 Medical laboratories)</p>
<ul style="list-style-type: none"> • Title of qualification awarded 	<p>Certificate of attendance</p>
<ul style="list-style-type: none"> • Dates (from – to) 	<p>07-08.02.2011</p>
<ul style="list-style-type: none"> • Name and type of organization providing education and training 	<p>PTB International Technical Cooperation; Trainer: Dr. Michael Scheutwinkel</p>
<ul style="list-style-type: none"> • Principal subjects/occupational skills covered 	<p>Validation of analytical methods, uncertainty calculation and other metrological issues (reference materials, quality control) in chemical testing</p>
<ul style="list-style-type: none"> • Title of qualification awarded 	<p>Certificate of attendance</p>
<ul style="list-style-type: none"> • Dates (from – to) 	<p>28-30.03.2011</p>
<ul style="list-style-type: none"> • Name and type of organization providing education and training 	<p>EU funded project for Technical Assistance for Capacity Building of the Institute of Accreditation; Trainer: Mr. Dirk Strube;</p>
<ul style="list-style-type: none"> • Principal subjects/occupational skills covered 	<p>Training on conduct of internal audits and management reviews according to ISO/IEC 17011 and ISO/IEC 19011</p>
<ul style="list-style-type: none"> • Title of qualification awarded 	<p>Certificate of attendance</p>
<ul style="list-style-type: none"> • Dates (from – to) 	<p>11.05.2011</p>
<ul style="list-style-type: none"> • Name and type of organization providing education and training 	<p>TAIEX (Technical Assistance Information Exchange Instrument), European Commission – DG Enlargement in cooperation with the Ministry of Health of the Republic of Macedonia</p>
<ul style="list-style-type: none"> • Principal subjects/occupational skills covered 	<p>Workshop on performance criteria and validation procedures of analytical methods used in controls of foodstuffs</p>

• Title of qualification awarded	/
• Dates (from – to)	26-28.09.2011
• Name and type of organization providing education and training	EC – Joint Research Center, Ispra, Italy
• Principal subjects/occupational skills covered	Workshop on Science Communication for Public Debate
• Title of qualification awarded	Certificate of attendance
• Dates (from – to)	27-28.10.2011
• Name and type of organization providing education and training	TAIEX (Technical Assistance Information Exchange Instrument), European Commission – DG Enlargement in cooperation with the Ministry of Health of the Republic of Macedonia
• Principal subjects/occupational skills covered	Multi-country workshop on improving evidence in health and data collection
• Title of qualification awarded	/
• Dates (from – to)	20.12.2011
• Name and type of organization providing education and training	Institute of Accreditation of the Republic of Macedonia (IARM)
• Principal subjects/occupational skills covered	Training for technical assessors - Analysis of the calibration certificates; role of the assessors in the procedure for assessment; inter-laboratory comparisons and PT schemes; traceability; grading of nonconformities.
• Title of qualification awarded	Certificate of attendance
• Dates (from – to)	22-23.03.2012
• Name and type of organization providing education and training	European Directorate for the Quality of Medicines&Healthcare
• Principal subjects/occupational skills covered	International Conference on the Certification Procedure "1992-2012: 20 Years of Experience"
• Title of qualification awarded	Certificate of attendance
• Dates (from – to)	23-25.10.2012
• Name and type of organization providing education and training	European Commission, DG Joint Research Centre, Institute for Reference Material and Measurements, JRC, Geel, Belgium
• Principal subjects/occupational skills covered	E&I Workshop: Training of new trainers for knowledge transfer regarding metrological aspects of ISO-17025
• Title of qualification awarded	Certificate of attendance
• Dates (from – to)	06-07.11.2012
• Name and type of organization providing education and training	European Commission, DG Joint Research Centre, Institute for Health and Consumer Protection, Chemical Assessment and Testing Unit, European Reference Laboratory for food contact materials, Ispra, Italy
• Principal subjects/occupational skills covered	E&I Workshop: EU legislation and testing for the chemical safety of food contact materials
• Title of qualification awarded	Certificate of attendance
• Dates (from – to)	27-28.03.2013
• Name and type of organization providing education and training	TAIEX (Technical Assistance Information Exchange Instrument), European Commission in cooperation with the Ministry of Health of the Republic of Macedonia
• Principal subjects/occupational skills covered	Workshop on new synthetic drugs: identification and health effects
• Title of qualification awarded	/
• Dates (from – to)	18-22.03.2013

<ul style="list-style-type: none"> • Name and type of organization providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded 	<p>TAIEX (Technical Assistance Information Exchange Instrument), European Commission in cooperation with the Public Health Department- Public Health, Laboratory of Alicante, Spain</p> <p>Study Visit on Building skills on the analysis of glycol and formaldehyde according EU regulation</p>
<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organization providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded 	<p>22-26.04.2013</p> <p>TAIEX (Technical Assistance Information Exchange Instrument), European Commission in cooperation with the National Center for Food, Spanish Agency for Food Safety and Nutrition, Madrid, Spain</p> <p>Study Visit on the Analysis and Monitoring of Mycotoxins</p> <p>/</p>
<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organization providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded 	<p>07.06.2013</p> <p>Institute of Accreditation of the Republic of Macedonia (IARM)</p> <p>Training for leading assessors according Standards MKC EN ISO/IEC 17025:2006 and MKC EN ISO/IEC 17020:2006</p> <p>Certificate of attendance</p>
<ul style="list-style-type: none"> • Dates (from – to) • Name and type of organization providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded 	<p>18 – 20.06.2013</p> <p>TAIEX (Technical Assistance Information Exchange Instrument), European Commission in cooperation with the Dutch Food and Consumer Product safety Authority, Groningen, The Netherlands</p> <p>Study visit on monitoring of phthalates</p> <p>/</p>

ADDITIONAL INFORMATION

Awards and Honors:

- Best Graduated Student of the Year at “Ss. Cyril and Methodius” University (1989)
- Winner of the BALKAN AWARD for The Best Clinical Laboratory Research Project sponsored by Biosystems, Spain (2009)

Professional Associations or Memberships:

- The Pharmaceutical Chamber of Macedonia, Member
- Macedonian Pharmaceutical Association, Member
- Institute of Accreditation of the Republic of Macedonia, Accredited Assessor, Expert
- Macedonian Society of Medical Biochemists, Member
- Macedonian Society of Biochemistry and Molecular Biology, Member

Participation in Projects:

- EU CARDS Twinning Project “Combating Drug Related Criminal Activities” FYROM –2003–IB–JH–01 CARDS Twinning Project between Macedonia and Hungary and the Netherlands (05/2006 - 09/2007), Study Visit – Component 5, 25-30 March 2007, Budapest, Hungary
- Oxidative stress, DNA damage and genetic variants in prostate cancer Joint Research Project, TUBITAK, Turkey and Ministry of Education and Science of the Republic of Macedonia (2006 – 2008)

LANGUAGES

MOTHER TONGUE

Macedonian

Other language(s)
Self-assessment
European level (*)

English

Bulgarian

Croatian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
(C2)	Proficient user	(C2)	Proficient user	(C2)	Proficient user	(C2)	Proficient user	(C2)	Proficient user
(C2)	Proficient user	(C2)	Proficient user	(C2)	Proficient user	(C2)	Proficient user	(C2)	Proficient user
(C2)	Proficient user	(C2)	Proficient user	(C2)	Proficient user	(C2)	Proficient user	(C2)	Proficient user

(*) [*Common European Framework of Reference for Languages*](#)

ANNEXES

PUBLICATIONS

Scientific Publications:

1. Aydin A, Arsova-Sarafinovska Z, Sayal A, Eken A, Erdem O, Erten K, Dimovski AJ. Oxidative stress and antioxidant status in non-metastatic prostate cancer and benign prostate hyperplasia. *Clinical Biochemistry* 39(2):176-9, 2006. Impact factor: 2,9; cited: 67.
2. Arsova-Sarafinovska Z, Aydin A, Sayal A, Eken A, Erdem O, Savaser A, Erten K, Ozgok Y, Dimovski A. Rapid and Simple Determination of Plasma and Erythrocyte MDA Levels in Prostate Cancer Patients by a Validated HPLC Method. *Journal of Liquid Chromatography & Related Technologies*, 30: 2435–2444, 2007. Impact factor: 1,0.
3. Arsova-Sarafinovska Z, Matevska N, Eken A, Petrovski D, Dzikova S, Georgiev V, Sikole A, Aydin A, Dimovski AJ. Glutathione Peroxidase 1 (GPX1) Genetic Polymorphism, Erythrocyte GPX Activity and Prostate Cancer Risk. *International Urology and Nephrology* 2008 Jun 19. Impact factor: 1,0; cited: 13.
4. Arsova-Sarafinovska Z, Matevska N, Petrovski D, Banev S, Dzikova S, Georgiev V, Sikole A, Sayal A, Aydin A, Suturkova L, Dimovski AJ. Manganese superoxide dismutase (MnSOD) genetic polymorphism is associated with risk of early-onset prostate cancer. *Cell Biochemistry and Function* 26(7):771-7, 2008. Impact factor: 1,6; cited: 12.
5. Zorica Arsova-Sarafinovska, Liljana Ugrinova, Katerina Starkoska, Dragan Djordjev, Aneta Dimitrovska. Determination of Ethinylestradiol and Levonorgestrel in Oral Contraceptives with HPLC methods with UV detection and UV/Fluorescence detection. *Makedonski farmaceutski bilten*. 2008.
6. Arsova-Sarafinovska Z, Eken A, Matevska N, Erdem O, Sayal A, Savaser A, Banev S, Petrovski D, Dzikova S, Georgiev V, Sikole A, Ozgok Y, Suturkova L, Dimovski AJ, Aydin A. Increased oxidative/nitrosative stress and decreased antioxidant enzyme activities in prostate cancer. *Clin Biochem*. 2009 May 22. Impact factor: 2,9; cited: 27.
7. Arsova-Sarafinovska Z, Pollozhani A, Dimitrovska A. Determination of ethinylestradiol and drospirenone in oral contraceptives with HPLC method with UV and fluorescence detection. *Archives of Public Health*. 1 (1): 2009.
8. Mustafa Z, Memeti S, Kendrovski V, Arsova-Sarafinovska Z, Ameti A, Poposka Z, Recica V. World Health Organization – WHO Regional Office for Europe. *Archives of Public Health*. 1 (2): 29-33, 2010.
9. Mustafa Z, Memeti S, Arsova-Sarafinovska Z, Ameti A, Poposka Z. Harmonization Of Pharmacopoeias. *Archives of Public Health*. 1 (2): 43-47, 2010.
10. Erdem O, Eken A, Akay C, Arsova-Sarafinovska Z, Matevska N, Suturkova L, Erten K, Ozgok Y, Dimovski A, Sayal A, Aydin A. Association of GPX1 polymorphism, GPX activity and prostate cancer risk. *Hum Exp Toxicol*. 2012 Jan; 31(1):24-31. Impact factor: 1.3.
11. Poposka Z, Shishovska M, Arsova-Sarafinovska Z, Doneva D, Starkoska K, Mustafa Z. Performance evaluation of different HPLC columns in sildenafil and tadalafil analysis. *European Journal of Pharmaceutical Sciences*. Volume 44, Supplement 1, Pages 1-204 (24 September 2011) 4th BBBB - Bled International Conference on Pharmaceutical Sciences; New Trends in Drug Discovery, Delivery Systems and Laboratory Diagnostics Bled, Slovenia 29 September–1 October 2011. Impact factor: 3.665.
12. Ameti A, Slavkovska J, Arsova-Sarafinovska Z, Starkoska K. A simple isocratic RP-HPLC method for quality control of oseltamivir capsules. *Macedonian of Chemistry and Chemical Engineering*). 01/2012; 31(2):205–215. Impact factor: 1,08.
13. Eken A, Erdem O, Arsova-Sarafinovska Z, Akay C, Sayal A, Matevska N, Suturkova L, Erten K, Ozgok Y, Dimovski A, Aydin A. Association between gene polymorphism of manganese superoxide dismutase and prostate cancer risk. *Journal of Biochemical and Molecular Toxicology* 2013 Mar;27(3):213-8. Impact factor: 1,38.

Short Communications:

1. Arsova-Sarafinovska Z., Gjorcev A., Gruev T. Effect of Roxithromycin on serum theophylline concentrations. *Macedonian Pharmaceutical Bulletin*, 49 (1,2), 129-130 (2003) PP 41, Skopje, Macedonia.
2. Arsova-Sarafinovska Z. Influence of macrolide antibacterial roxithromycin on cytochrome P450 enzyme systems by monitoring theophylline serum concentrations in patients with asthma and other chronic obstructive pulmonary diseases. Scientific Meeting in the Department of Toxicology, Gulhane Military Medical Academy, Etlik, Ankara, June 2003. Turkey
3. Arsova-Sarafinovska Z. Validation of Analytical Procedures. Scientific Meeting in the Department of Toxicology, Gulhane Military Medical Academy, Etlik., Ankara, February 2004. Turkey
4. Arsova-Sarafinovska Z. Aydin A., Sayal A., Erdem O., Eken A., Dimovski A., Ozkok Y. Oxidative stress and antioxidant status in prostate cancer and benign prostatic hyperplasia. *Toxicology Letters* 158 (Suppl. 1) S174-175 (2005) P14-06, Krakow, Poland.
5. Arsova-Sarafinovska Z. Aydin A., Sayal A., Erdem O., Eken A., Dimovski A., Erten K. Nitric oxide levels and lipid peroxidation in the circulation of patients with benign prostatic hyperplasia and prostate cancer. *Toxicology Letters* 158 (Suppl. 1) S174-175 (2005) P14-07, Krakow, Poland.
6. Arsova-Sarafinovska Z., Matevska N., Despotovska S., Petrovski D., Georgiev V., Sikole A, Dimovski A.J Genetic Polymorphism of Manganese Superoxide Dismutase (MnSOD) and Prostate Cancer Susceptibility. *Macedonian Pharmaceutical Bulletin*, 53 (1,2), 162-163 (2007) PP 74, Skopje, Macedonia.
7. Arsova-Sarafinovska Z., Matevska N., Despotovska S., Petrovski D., Dzirkova S., Banev S., Georgiev V., Sikole A, Dimovski A.J. Prostate Cancer Risk and Glutathione Peroxidase 1 Codon 198 Variant. *Macedonian Pharmaceutical Bulletin*, 53 (1,2), 166-167 (2007) PP 76, Skopje, Macedonia.
8. Arsova-Sarafinovska Z., Ugrinova L., Starkoska K., Djordjev D., Dimitrovska A. HPLC method with UV and fluorescence detection for determination of ethinylestradiol and drospirenone in oral contraceptive tablets. *Macedonian Pharmaceutical Bulletin*, 53 (1,2), 244-245 (2007) PP 121, Skopje, Macedonia.
9. Eken A, Aydin A, Sayal A, Erdem O, Arsova-Sarafinovska Z, Dimovski A, Savaser A, Ozgok Y, Erten K. Evaluation of plasma nitrite/nitrate levels in prostate cancer, benign prostatic hyperplasia patients and healthy individuals. *Abstracts / Toxicology Letters* 180S (2008) S32–S246, Rhodes, Greece.
10. Sayal A, Aydin A, Savaser A, Erdem O, Eken A, Arsova-Sarafinovska Z, Dimovski A, Ozgok Y, Erten K. Evaluation of plasma 8-OHdG levels in prostate cancer, benign prostatic hyperplasia patients and healthy individuals. *Abstracts /Toxicology Letters* 180S (2008) S32–S246, Rhodes, Greece.
11. Shishovska M., Trajkovska V., Arsova-Sarafinovska Z., Starkoska K., Atanasovska S. HPLC/DAD Determination of Permethrin Residues in Wine. *Bicongress 20th Congress of the Society of Chemists and Technologists of Republic of Macedonia*, 2008, Ohrid, Macedonia.
12. Arsova-Sarafinovska Z, Starkoska K. Systems for Quality Assurance/Quality Control of the Medicines in the Republic of Macedonia. Initiative for the availability of basic medicines. *Basic Seminar. Open Society Institute Macedonia*, 2009, Skopje, Macedonia.
13. Pollozhani A., Arsova-Sarafinovska Z. Department for Quality Control of Medicines (Main Tasks and Activities). Oral Presentation. *International Symposium, Regional Regulatory Network*. 2009, Prishtina.
14. Arsova-Sarafinovska Z. Oxidative stress in prostate cancer. *Scientific Meeting on Macedonian Society of Human Genetics and Biochemistry*. May 2009, Skopje, Macedonia
15. Eken A, Erdem O, Arsova-Sarafinovska Z, Matevska N, Savaser A, Sayal A, Dimovski A, Ozkok Y, Aydin A. Association of manganese superoxide dismutase (MnSOD) gene polymorphism and prostate cancer risk. *Toxicology Letters*, Volume 189, Supplement 1, 13 September 2009, Pages S131-S132, Dresden, Germany.
16. Aydin A., Eken A, Erdem O, Arsova-Sarafinovska Z, Sayal A, Savaser A, Dimovski A, Ozkok Y, Erten K. Glutathione peroxidase 1 (GPX1) genetic polymorphism, erythrocyte GPX activity, and prostate cancer risk. *Toxicology Letters*, Volume 189, Supplement 1, 13 September 2009, Pages S132, Dresden, Germany.
17. Arsova-Sarafinovska Z. Oxidative stress, oxidative DNA damage and genetic polymorphisms of antioxidant enzymes in prostate cancer. *17th Meeting of Balkan Clinical Laboratory Federation*. September 2009, Ohrid, Macedonia.
18. Arsova-Sarafinovska Z. Accreditation of medical laboratories: Compliance with ISO 15189:2003. *Balkan Journal of Clinical Laboratory*, Volume XVII, Supplement 1, September 2009, Pages 70-71, Ohrid, Macedonia.
19. Poposka Z, Shishovska M, Arsova-Sarafinovska Z. Validated HPLC method for quantification of Tadalafil in pharmaceutical formulations and human serum. *Balkan Journal of Clinical Laboratory*, Volume XVII, Supplement 1, September 2009, Page 154, Ohrid, Macedonia.
20. Arsova-Sarafinovska Z. Oxidative stress. *Scientific Meeting on University Clinic of Nephrology*, October 2009, Skopje, Macedonia.
21. Dimovski A, Arsova-Sarafinovska Z. Natural Antioxidants in the prevention and treatment of cancer. *1st Conference on natural antioxidants, medical use*. 25 June 2010, Faculty of Pharmacy, “Ss. Cyril and Methodius” University, Skopje, Macedonia.
22. Shishovska M, Starkoska K, Arsova-Sarafinovska Z, Ameti A, Malenkov I.. HPLC method for determination of Tribulus terrestris L. in tablets. *XXI Congress of Chemists and Technologists of Macedonia (with international participation)*. 23 – 26 September 2010, Ohrid, Republic of Macedonia.
23. A. Eken, O. Erdem, Z. Arsova-Sarafinovska, A. Savaser, A. Sayal, A. Dimovski, Y. Özgök and A. Aydın.

-
- Increased oxidative/nitrosative stress and decreased antioxidant enzyme activities in prostate cancer. Toxicology Letters, Volume 196, Supplement 1, 17 July 2010, Page S176. Abstracts of the XII International Congress of Toxicology, Barcelona, Spain.
24. Slavkovska J, Shishovska M, Doneva D, Arsova –Sarafinovska Z, Starkoska K. Determination of Ferulic acid with RP-HPLC method in oral solution containing extract of *Ferula assafoetida* L. and *Viscum album* L. Macedonian Pharmaceutical Bulletin, 57 (suppl), 2011, Skopje, Macedonia.
 25. Nastova B, Atanasovska S, Doneva D, Arsova–Sarafinovska Z. Determination of all-rac-alpha-tocopherol and all-rac-alpha-tocopheryl acetate (synthetic vitamin E) in cosmetic preparations. Macedonian Pharmaceutical Bulletin, 57 (suppl), 2011, Skopje, Macedonia.
 26. Poposka Z, Shishovska M, Starkoska K, Arsova–Sarafinovska Z. Validated HPLC method for determination of sildenafil in pharmaceutical dosage forms. Macedonian Pharmaceutical Bulletin, 57 (suppl), 2011, Skopje, Macedonia.
 27. Aceva R, Blazevska T, Malinkov I, Darkovska-Serafimovska Marija, Gjorgjev A, Arsova-Sarafinovska Z. A study of the interaction of roxithromycin with theophylline in asthma patients. 35th International Medical Scientific Congress for Medical Students and Young Doctors. 10 -13 May, 2012, Ohrid, Macedonia
 28. Arsova-Sarafinovska Z, Doneva D, Tanturovski Z, Sisovska M, Karamiha O, Poposka Z, Ameti A, Mustafa Z, Starkoska S. Determination of Formaldehyde in Commercially Available Baby Shampoos and Skin Care Cosmetics by a Validated HPLC Method. Scientific Meeting at the Faculty of Medicine, “Goce Delcev” University, Stip, Republic of Macedonia, 21.12.2012
 29. Ameti A, Poposka Z, Memeti S, Shishovska M, Mustafa Z, Starkoska K, Arsova-Sarafinovska Z. HPLC Analysis of nine corticosteroids in “natural creams” for atopic eczema. 5th BBBB Conference, Athens, Greece, 26-28 September 2013 (accepted)
 30. Poposka Z, Memeti S, Shishovska M, Mustafa Z, Starkoska K, Arsova-Sarafinovska Z. Identification of Counterfeit medicines for erectile dysfunction by validated RP-HPLC method. 5th BBBB Conference, Athens, Greece, 26-28 September 2013 (accepted)
 31. Darkovska-Serafimovska M, Arsova-Sarafinovska Z, Balkanov T, Gjorgoski I, Ugresic N, E. Janevik-Ivanovska E. Determination of Tirofiban in serum using liquid chromatography with UV detection. 5th BBBB Conference, Athens, Greece, 26-28 September 2013 (accepted)