

PERSONAL INFORMATION

Galina Dimitrova Nikolova



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 **Replace with type of IM service** Replace with messaging account(s)

Sex Female | **Date of birth** 30/06/1975 | **Nationality** Bulgarian

ORCID iD: <https://orcid.org/0000-0003-2112-5753>

WORK EXPERIENCE

Replace with dates
(from - to)

from 2019 – currently: Associate Professor of Chemistry at the Department of Medical Chemistry and Biochemistry, Medical faculty, Trakia University, Stara Zagora

from 2016 - until 2019: Head Assistant in Chemistry at the Department of Medical Chemistry and Biochemistry, Medical faculty, Trakia University, Stara Zagora

from 2004 to 2016: Assistant Professor of Chemistry, Department of Medical Chemistry and Biochemistry, Medical faculty, Trakia University Stara Zagora

Main activities and responsibilities in the department:

Associate Professor of Chemistry at the Faculty of Medicine, Trakia University, Stara Zagora

Conducts:

1. Lecture course in "Medical Chemistry" - a compulsory course for students majoring in "Medicine", "Medical Laboratory Assistant", "Pharmacy"
2. Lecture course in "Medical Chemistry" - compulsory course for students majoring in "Medicine", English language training
3. Lecture course for students "Chemistry and ecology" - a compulsory discipline for students majoring in "Social Activities" part-time.
4. Practical exercises in "Medical Chemistry" - a compulsory subject for students majoring in "Medicine", "Medical Laboratory Assistant".
5. Practical exercises in "Bioorganic Chemistry" - a compulsory course for students majoring in "Medical Rehabilitation and Occupational Therapy",
6. Practical exercises on "Chemistry and ecology" compulsory discipline for students majoring in "Social activities" - regular training.
7. Practical exercises in "Physiologically active substances" - an elective course for students majoring in medicine.
8. Practical exercises in "Medical Chemistry" for students majoring in "Medicine" - compulsory course and "Physiologically active substances" - an elective course for students majoring in medicine - English language training.

EDUCATION AND TRAINING

Replace with dates
(from - to)

ACQUIRED QUALIFICATION

2012-2014 PhD, Defended dissertation on the topic: "Protective effect of synthetic and natural antioxidants against oxidative stress caused by Parkinson's disease and its therapy" Medical Faculty, Thracian University of Stara Zagora, Bulgaria
2004-2009 Master's degree in English language, University of Plovdiv, "Paisii Hilendarski" Plovdiv
1995-2000 Sofia University " St. Kliment Ohridski University Of Sofia ", Faculty of Biology, Master's degree, Biology and Chemistry

Replace with
European
Qualification
Framework
(or other)
level if
relevant

DEGREES AND TITLES

Master degree 2009 Master's degree in English language, University of Plovdiv, "Paisii Hilendarski" Plovdiv

Master degree - 2000 - Sofia University, Sofia , Master's degree, Biology

Doctor - 2014 - Faculty of Medicine, Trakia University

PERSONAL SKILLS

Mother tongue(s) Bulgaria

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C	C	C	C	C
	Replace with name of language certificate. Enter level if known.				
Russian	C	C	C	C	C
	Replace with name of language certificate. Enter level if known.				

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

Communication skills

- Excellent communication skills and work in a multicultural environment, acquired during specializations (6) and participation in international scientific forums abroad and in Bulgaria.
- ▪ Joint successful work with and supporting the scientific work of many colleagues from different departments, faculties and universities in Bulgaria and abroad

Organisational / managerial skills

- leadership (currently responsible for a team of 4 people)

Computer skills

- good command of Microsoft Office™ tools
- Statistical package of programs: STATISTICA v 8 (1984-2007, StatSoft, Inc.)
- Adobe photoshop CS6
- CorelDraw Graphics Suite X7Paint

ADDITIONAL INFORMATION

Publications	▪ Author and co-author of 60 papers referred in Scopus and Web of science
Presentations	▪ Co-author of 1 textbook in English (ISBN: 978-954-338-120-3)
Projects	▪ Co-author of 1 textbook in Bulgarian (ISBN: 978-954-338-121-0)
Conferences	
Seminars	IMPACT FACTOR
Honours and awards	▪ Impact factor from publications: 68
Memberships	▪ Impact factor from abstracts of scientific forums: 78
References	▪ citations 450
	▪ h index 9

MANAGEMENT OF RESEARCH PROJECTS

- Head of 3 completed and 1 active research projects at the Medical Faculty, Trakia University.

PARTICIPATION IN WORKING TEAMS OF RESEARCH PROJECTS

- Member of the working team of 1 project at the Scientific Research Fund of Bulgaria (2017-2022)
- Member of the working team in the National Research Program at the Ministry of Education and Science: "Reproductive biotechnologies in animal husbandry in Bulgaria - NNP REPROBIOTECH" – 2019-2021
- Member of the working teams of 3 international projects (2015; 2009) - completed
- Member of the working team for 1 project at OPHRD "Human Resources Development" 2007-2013 completed
- Member of working groups of 16 projects funded by the Medical Faculty and the Faculty of Veterinary Medicine, Trakia University
- Member of working groups of 2 structural projects funded by the Trakia University.

MEMBERSHIP IN SCIENTIFIC ORGANIZATIONS

I am a member in:

1. Union of Scientists in Bulgaria - Stara Zagora branch - since 2015.
2. EPR Society, Sofia, Bulgaria since 2013
- 3.

SPECIALIZATIONS ABROAD BY INTERNATIONAL PROGRAMS:

2014 –19.10 to 25.10.2014 under the program "Erasmus +" at the Faculty of Medicine, Thracian University, Edirne, Republic of Turkey

2015 - 02. 07 to 26. 08. 2015 INMAS - Institute of nuclear medicine and allied sciences, Delhi, India in the project (EU FP7 Project PIRSES_GA 2012-31-316067).

2015 - 16.11. To 20.11.2015 under the program "Erasmus +" in the Faculty of Medicine, "Namuk Kemal", Tekirda, Republic of Turkey

2016 - 14 to 18. 11.2016 under the program "Erasmus +" at the University of Medicine and Pharmacy, Cluj-Napoca, Romania

2017 - 22 to 28.10.2017 under the program "Erasmus +" at the Faculty of Medicine, Thracian University, Edirne, Republic of Turkey

2018 - 12 to 15. 11 2018 under the program "Erasmus +" at the Faculty of Medicine, Gotse Delchev University, Shtip, Macedonia (Appendices 3)

POSTGRADUATE SPECIALIZATIONS AND COURSES IN BULGARIA:

2023 Postgraduate specialization in "Gas and Liquid Chromatography", Faculty of Chemistry, Plovdiv University "Paisii Hilendarski" Plovdiv

2022 Seminar on the topic: "Facilitate your scientific activity with Science Direct and Scopus databases. Quality full-text and scientometric information from Elsevier" Medical Faculty, Thracian University, Stara Zagora

2022 Professional qualification on the topic: "Pharmacological supervision. Safe pharmacotherapy in the post-marketing period - "2 days

2021 Professional qualification from a one-day course for additional training on the topic: "Protection and welfare of experimental animals used for scientific or educational purposes" Faculty of Veterinary Medicine, Thracian University, Stara Zagora.

2021 Course on the topic: "Preparation of the dissertation of the doctoral student" lecturer Assoc. Prof. Zhivko Zhelev, Faculty of Medicine, Thracian University, Stara Zagora

2021 Course on the topic: "Polymeric biomaterials from renewable sources Part II" in the memory of the project under OPHRD "Human Resources Development" 2007-2013, 3 days, lecturers Assoc. Prof. Olya Stoilova, PhD, Assoc. Prof. Dilyana Paneva, PhD - Institute of polymers, BAS, Sofia

AREAS OF SCIENTIFIC INTEREST:

1. The role of oxidative stress, free radicals and antioxidant protection in socially significant diseases and their therapies.
2. Use of Electron Paramagnetic Resonance (EPR) to detect toxic oxygen species (ROS): $\cdot O_2^-$, $\cdot OH$ and H_2O_2 .
3. Investigation of the antioxidant activity of synthetic and natural antioxidants, their use as protectors in therapy in experimental animal models.
4. Study of the mechanisms of oxidative stress in the pathogenesis, progression and therapy of malignant and other diseases.
5. Determination of oxidative stress indicators: levels of ROS / RNS, end products of oxidation of lipids, proteins and nucleic acids, and antioxidant enzymes (SOD, CAT and GPx). Study the role of these indicators in the prognosis of the disease and in reducing the toxic side effects of the applied therapy.

EXPERIMENTAL EXPERIENCE:

- Spectrophotometric methods for determination of the products of lipid peroxidation, antioxidant capacity, activities of antioxidant and other enzymes in biological fluids and tissues.
- ELISA methods for final oxidation products
- EPR methods
- Gas chromatography methods for detection of alcohol in blood

PAPERS REFERRED IN SCOPUS AND WEB OF SCIENCE 2021

1. Georgieva E, Ananiev J, Yovchev Y, Arabadzhiev G, Abrashev H, Abrasheva D, Petkova-Parlapanska K, Karamalakova Y, Nikolova G. COVID-19 complications: Oxidative stress, inflammation, and mitochondrial and endothelial dysfunction. Intern J Molec Sci., 24 14876, 2023 (WoS; IF= 5.6; Q1)
2. Goycheva P, Petkova-Parlapanska K, Georgieva E, Karamalakova Y, Nikolova G. Biomarkers of Oxidative Stress in Diabetes Mellitus with Diabetic Nephropathy Complications. Intern J Molec Sci., 24, 13541, 2023 (WoS; IF= 5.6; Q1)
3. Ivanova D, Nikolova G, Karamalakova Y, Semkova S, Marutsova V, Yaneva Z. Water-soluble alkali lignin as a natural radical scavenger and anticancer alternative. Intern J Molec Sci., 24, 12705, 2023 (WoS; IF= 5.6; Q1)
4. Georgieva E, Atanasov V, Kostandieva R, Tsoneva V, Mitev M, Arabadzhiev G, Karamalakova Y, Nikolova G. Direct Application of 3-Maleimido-PROXYL for Proving Hypoalbuminemia in Cases of SARS-CoV-2 Infection: The Potential Diagnostic Method of Determining Albumin Instability and Oxidized Protein Level in

- Severe COVID-19. Intern J Molec Sci., 24, 5807, 2023 (WoS; IF= 5.6; Q1).
5. Georgiev, T., Nikolova, G., Dyakova, V., Karamalakova, Y., Georgieva, E., Ananiev, J., ... & Hadzhibozheva, P. Vitamin E and silymarin reduce oxidative tissue damage during gentamycin-induced nephrotoxicity. *Pharmaceuticals*, 16(10), 1365,2023. (WoS; IF= 4.6; Q2).
 6. Georgieva E, Karamalakova Y, Arabadzhiev G, Atanasov V, Kostandieva R, Mitev M, Tsoneva V, Yovchev Y, Nikolova G. Site-Directed Spin Labeling EPR Spectroscopy for Determination Albumin Structural Damage and Hypoalbuminemia in Critical COVID -19 Antioxidants. 11(12):2311, 2022 (WoS, IF7.67; Q1)
 7. Nikolova G, Ananiev J, Ivanov V, Petkova-Parlapanska K, Georgieva E, Karamalakova Y. The Azadirachta indica (Neem) seed oil reduced chronic redox-homeostasis imbalance in a mice experimental model on Ochratoxine A-Induced Hepatotoxicity Antioxidants 2022, 11(9), 1678; (WoS, IF:7.67; Q1)
 8. Georgieva E, Benkova K, Vlaeva N, Karamalakova Y, Miteva R, Abrashev H, Nikolova G. Is Illicit Substance Use Gender-Specific? The Basic Points of Mental and Health Disorders. *Toxics*, 10(7),344,2022 (WoS, IF2022:4.472; Q2)
 9. Karamalakova Y, Stefanov I, Georgieva E, Nikolova G. Pulmonary Protein Oxidation and Oxidative Stress Modulation by Lemna minor L. in Progressive Bleomycin-Induced Idiopathic Pulmonary Fibrosis. *Antioxidants*, 11(3), 523, 2022 (WoS, IF2022:7.67; Q1).
 10. Yaneva Z, Simeonov E, Rusenova N, Ivanova D, Nikolova G, Karamalakova Y, Beev G. Flavonoids extraction kinetics, antimicrobial activity and radical scavenging potential of Bulgarian woundwort (*Solidago virgaurea* L.). *Separations*, 9(2), 27, 2022 (WoS,IF: 3.344; Q2).
 11. Georgieva, E., Karamalakova, Y., Miteva, R., Abrashev, H., Nikolova, G. Oxidative stress and cocaine intoxication as start points in the pathology of cocaine-induced cardiotoxicity. *Toxics*, 9(12), 317, 2021. (WoS; IF= 4.472; Q1)
 12. Nenova R, Ilieva Y, Penchev P, Vasilev N, Fasulkov I, Nikolova G, Karamalakova Y, Gadjeva V. Pregnancy Rates Associated with Oxidative Stress after Estrus Synchronization of Bulgarian Murrah Buffaloes in Breeding and Non-Breeding Season, *J Buff Sci*, 12, 2023 38 (Scopus; SJR= 0.230; Q3)
 13. Karamalakova Y, Slavova-Kazakova A , Momchilova S, Karsheva M, Diankov S , Nikolova G. The gamma irradiation effect on the antioxidant and lipid oxidation activity of almond (*prunus dulcis* L.) Oil. *JCTM*, 58 2023, (Scopus; SJR= 0.196; Q3)
 14. Nikolova G, Karamalakova Y, Oblakova M, Gadjeva V, Vasilev N. Role of oxidative Stress biomarkers in the assessment of metabolic status in the Ruminant. *Journal of Hygienic Engineering and Design*, 41, UDC, 2022 (Scopus; SJR= 0.168; Q4).
 15. Oblakova M, Nikolova G. Hristakieva P, Mincheva N, Ivanova I, Karamalakova Y, Gadjeva, V. Influence of some dry herbs as a dietary supplement on productivity, natural humoral immunity and oxidative status in broiler turkeys. *Bulg J Agric Sci*, 28(4), 2022. (Scopus, SJR: 0.22, Q3)
 16. Oblakova, M., Nikolova, G., Mincheva, N., Hristakieva, P., Ivanova, I., Kramalakova, Y., Gadjeva, V. Influence of some herbal essential oils on productivity, natural humoral immunity and oxidative status in broiler turkeys. *Journal of Hygienic Engineering and Design*, 183-193, 2021 (Scopus; SJR= 0.168; Q4).

List of citations in *Web of Science u Scopus (last 3 years)*

1. Fernández-de-Las-Peñas, C., Raveendran, A. V., Giordano, R., & Arendt-Nielsen, L. Long COVID or Post-COVID-19 Condition: Past, Present and Future Research Directions. *Microorganisms*, **2023**, 11(12), 2959, (IF₂₀₂₂= 4,5)
2. Pavlidou, E, Papadopoulou, S., Antasouras, G., Vorvolakos, T., Alexatou, O., Tsourouflis, G., Giaginis, C. Association of COVID-19 Infection with Sociodemographic, Anthropometric and Lifestyle Factors: A Cross-Sectional Study in an Older Adults' Population Aged over 65 Years Old. *Diseases* **2023**, 11, 165, (IF₂₀₂₂= 3,7)
3. Kom, Y. D., Karthiyayini, R. Evaluation of anticancer potential of methanolic leaf and flower extracts of *Rhododendron arboreum* Sm in AGS gastric adenocarcinoma cell line. *Medicinal Plants-International Journal of Phytomedicines and Related Industries* **2023**, 15(4), 776-783, (IF₂₀₂₂= 3.484)
4. Kubiak, J., Kloc, M. Coronavirus disease pathophysiology: biomarkers, potential new remedies, comorbidities, long COVID-19, post pandemic epidemiological surveillance. *IJMS*, **2023**, 24(15), 12236,

(IF= 5.6)

5. Sakib, R., Caruso, F., Belli, S., & Rossi, M. Azadiradione, a Component of Neem Oil, Behaves as a Superoxide Dismutase Mimic When Scavenging the Superoxide Radical, as Shown Using DFT and Hydrodynamic Voltammetry. *Biomedicines* **2023**, 11(11), 3091, (IF₂₀₂₂= 4.7)
6. Gao, C., Liu, C., Wei, Y., Wang, Q., Ni, X., Wu, S., ... & Hao, Z. The acute oral toxicity test of ethanol extract of salt-processed Psoraleae Fructus and its acute hepatotoxicity and nephrotoxicity risk assessment. *Journal of Ethnopharmacology* **2023**, 309, 116334, (IF₂₀₂₂= 5.4)
7. Jin, M, He, B, Cai, X, Lei, Z., & Sun, T. Research progress of nanoparticle targeting delivery systems in bacterial infections. *Colloids and Surfaces B: Biointerfaces* **2023**, 113444, (IF₂₀₂₂= 5.8)
8. Turkina, A, Maevskaya M., harkova M., Ivashkin B. The role of albumin replacement therapy in the treatment of hepatic encephalopathy in patients with liver cirrhosis,
9. Amirkhosravi, A., Heidari, M. R., Karami-Mohajeri, S., Torshabi, M., Mandegary, A., & Mehrabani, M. Losartan enhances the suppressive effect of pirfenidone on the bleomycin-induced epithelial-mesenchymal transition and oxidative stress in A549 cell line. *Iran J Bas Med Sci* **2023**, 26(8), 972, (IF₂₀₂₂= 2.532)
10. Wei, Y., Sun, L., Liu, C., & Li, L. Naringin regulates endoplasmic reticulum stress and mitophagy through the ATF3/PINK1 signaling axis to alleviate pulmonary fibrosis. *Naunyn-Schmiedeberg's Archives of Pharmacology* **2023**, 1-15, (IF₂₀₂₂= 3.2)
11. Almashhedy, L. A., Fadhil, H. A., Alsaman, A. R. S., Al-Kawaz, H. S., Alta'ee, A. H., Al-Hassnawi, A. T., ... & Hadwan, M. H. Low levels of peroxiredoxins are associated with high iron content and lipid peroxidation in seminal plasma from asthenozoospermic infertile men. *Endocrine and Metabolic Science* **2023**, 12, 100137, (IF₂₀₂₂= 1.33)
12. Peruch, M., Giacomello, E., Radaelli, D., Concato, M., Addobbati, R., Fluca, A. L., D'Errico, S. Subcellular Effectors of Cocaine Cardiotoxicity: All Roads Lead to Mitochondria—A Systematic Review of the Literature. *IJMS*, **2023**, 24(19), 14517, (IF₂₀₂₂= 5.6)
13. Li, L., Lin, L., Wen, B., Zhao, P. C., Liu, D. S., Pang, G. M., ... & Lu, C. Promising Natural Medicines for the Treatment of High-Altitude Illness. *High Altitude Medicine & Biology* **2023**, 24(3), 175-185, (IF₂₀₂₂= 2.1)
14. Jovanović, M., & Brvar, M. Toksični učinki kokaina na srčnožilni sistem in obravnava bolnikov z bolečino v prsih zaradi zlorabe kokaina. *Slovenian Medical Journal* **2023**, 92(3-4), 163-172, <https://doi.org/10.6016/ZdravVestn.3352>, (IF₂₀₂₂= 0.128)
15. Patane, F. G., Maria Maglitta, A. N., Esposito, M., Cocimano, G., Di Nunno, N., Salerno, M., & Sessa, F. Toxicological advancements in cocaine detection: a review. *Current Medicinal Chemistry* **2023**, 30(32), 3616-3629, <https://doi.org/10.2174/0929867330666221026160346>, (IF₂₀₂₂= 4.1)
16. Hassan, F., Khan, A. U., Zaidi, S. Z. U. H., Niazi, M. K., & Ismail, M. A. In Vitro Antioxidant and Inhibitory Study of Picrorhiza kurroa (Kutki), Syzygium aromaticum (Loung), Lawsonia inermis (Henna), Rheum emodi (Revand Chini), Curcuma longa (Haladi) Against Lipid Per-Oxidation in Mice Brain and Liver. *Dose-Response* **2023**. 21(4), (IF₂₀₂₂= 2.7)
17. Shahzadi, S., Ijaz, M. U., Imran, M., Naz, H., Muzammil, S., Abbas, R. Z., ... & Hussain, R. Study on the effects of casticin against gentamicin-induced dysregulation of oxidative stress, mitochondria and serum chemistry in rats. *Journal of Animal Plant Sciences* **2023**, 33(5), 1087-1097, (IF₂₀₂₂= 4.1)
18. Grenier, A., Morissette, M. C., Rochette, P. J., & Pouliot, R. Toxic interaction between solar radiation and cigarette smoke on primary human keratinocytes. *Photochemistry and Photobiology* **2023**, 99(5), 1258-1268, <https://doi.org/10.1111/php.13768>, (IF₂₀₂₂= 3.3)
19. Jin, J., Fan, Y. J., Nguyen, T. V., Yu, Z. N., Song, C. H., Lee, S. Y., ... & Chai, O. H. Fallopia japonica Root Extract Ameliorates Ovalbumin-Induced Airway Inflammation in a CARAS Mouse Model by Modulating the IL-33/TSLP/NF-κB Signaling Pathway. *International Journal of Molecular Sciences* **2023**, 24(15), 12514, <https://doi.org/10.3390/ijms241512514>, (IF₂₀₂₂= 5.6)
20. Pinelli, R., Ferrucci, M., Biagioni, F., Berti, C., Bumah, V. V., Busceti, C. L., ... & Fornai, F. Autophagy Activation Promoted by Pulses of Light and Phytochemicals Counteracting Oxidative Stress during Age-Related Macular Degeneration. *Antioxidants*, **2023**, 12(6), 1183, (IF₂₀₂₂= 7.0)
21. Bardelčíková, A., Šoltys, J., & Mojžiš, J. Oxidative Stress, Inflammation and Colorectal Cancer: An Overview. *Antioxidants* **2023**, 12(4), 901, (IF₂₀₂₂= 7.0)

22. Loo, C. Y., Traini, D., Young, P. M., Parumasivam, T., & Lee, W. H. Pulmonary delivery of curcumin and quercetin nanoparticles for lung cancer–Part 1: Aerosol performance characterization. *Journal of Drug Delivery Science and Technology* **2023**, 104646, (IF₂₀₂₂= 5.0)
23. Semkova, S., Nikolova, B., Tsoneva, I., Antov, G., Ivanova, D., Angelov, A., ... & Bakalova, R. Redox-mediated Anticancer Activity of Anti-parasitic Drug Fenbendazole in Triple-negative Breast Cancer Cells. *Anticancer Research* **2023**, 43(3), 1207-1212, , (IF₂₀₂₂= 2.435)
24. Wang, J., Yang, S., Li, H., Shen, H., Lu, X., Li, X., & Chen, G. Downregulation of mitochondrial calcium uptake family 3 attenuates secondary brain injury after intracerebral hemorrhage in rats. *Experimental Neurology* **2023**, 361, 114302, (IF₂₀₂₂= 5.3)