

A Field Detector for Genotoxicity from CBRN and Explosive Devices
SPS MYP G5266



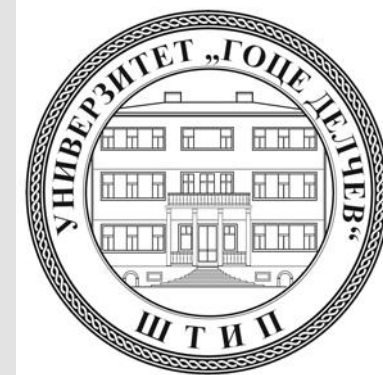
*This project
is supported by:*

The NATO Science for Peace
and Security Programme

FINAL MEETING

27.11.2020, Zoom

Prof. Tatjana Ruskovska



Organizational part



- Extraordinary support from the Rector of Goce Delcev University, Prof. Blazo Boev
 - Administrative support from the Rector's office
- Support from the management of the Faculty of Medical Sciences, Goce Delcev University
- Extraordinary support and guidance from Prof. George Miloshev

Organizational part

- The experiments and trainings were conducted in the Laboratory of Biochemistry at the Faculty of Medical Sciences



Second training course, Stip – 12-16. 05. 2019



Workshop for the School for Doctoral Studies (PhD program) at the Faculty of Medical Sciences, Goce Delcev University, Stip – 06.12.2019

Scientific part

Students' theses, in the range of Master degree

- 1. Natasa Kicukova. "Genotoxicity and cytotoxicity of capsaicin on blood cells".
Mentor – Viktorija Maksimova. The thesis is successfully defended.
- 2. Boris Roglev. "Antigenotoxic effects of polyphenols – evidence from human intervention studies with use of the Comet Assay".
Mentor – Prof. Tatjana Ruskovska. The thesis is successfully defended.
 - Ruskovska T, Roglev B, Kondeva M, Milev M. "Protective effects of nutritional polyphenols on DNA damage, assessed with the Comet assay". Systematic literature review, registered in PROSPERO.
https://www.crd.york.ac.uk/prospero/display_record.php?RecordID=162357
 - We expect to submit the paper in 2021/22.
- 3. Marinela Angeleska. Mentor – Prof. Tatjana Ruskovska. The thesis is in preparation.
- 4. Monika Spasova. Mentor – Prof. Tatjana Ruskovska. The thesis is in preparation.

Scientific part

Presentations at scientific conferences

- 1. Milev, Misko and Maksimova, Viktorija and Ruskovska, Tatjana (2020) *Determination of genotoxic effect of capsaicin on human peripheral blood mononuclear cells with Comet assay*.
 - In: Nutraceuticals in balancing redox status in ageing and age-related diseases, NutRedOx COST Action CA16112, 02-03 March 2020, Belgrade.
 - <http://eprints.ugd.edu.mk/24465/>
- 2. Ruskovska, Tatjana (2019) *Method of single cell electrophoresis – research opportunities*.
 - In: Second congress of students of general medicine, 09-10 May 2019, Stip, Republic of North Macedonia.
 - <http://eprints.ugd.edu.mk/23384/>
 - A workshop was also organized within the Congress.
- 3. Kichukova, Natasa and Milev, Mishko and Janeva, Milkica and Maksimova, Viktorija and Ruskovska, Tatjana (2019) *Optimization of silver staining method in single cell gel electrophoresis (Comet assay)*.
 - In: Second congress of students of general medicine, 09-10 May 2019, Stip, Republic of North Macedonia.
 - <http://eprints.ugd.edu.mk/22101/>

Scientific part

Scientific papers

- Milev M, Maksimova V, Janeva M, Ruskovska T. *Critical points in Comet assay silver staining procedure.*
 - Macedonian Pharmaceutical Bulletin, 66 (Suppl 1) 29 - 30 (2020).
 - DOI: [10.33320/maced.pharm.bull.2020.66.03.014](https://doi.org/10.33320/maced.pharm.bull.2020.66.03.014)
- Milev M, Angeleska M, Georgieva M, Maksimova V, Janeva M, Miloshev G, Ruskovska T. *Vitamins E and C exert protective roles in hydrogen peroxide induced oxidative DNA damage in human peripheral blood mononuclear cells.*
 - Under submission

Achievements

- Application and optimization of the Comet Assay with silver staining
- Organization of two meetings of co-Directors within our NATO Project
- Organization of the Second Training Course within our NATO Project, at the Faculty of Medical Sciences, Goce Delcev University, Stip
- Organization of three workshops
 - The workshop within the Second congress of students of general medicine, 09-10 May 2019, Faculty of Medical Sciences, Goce Delcev University, Stip
 - **Two** workshops for the School for Doctoral Studies (PhD program) at the Faculty of Medical Sciences, Goce Delcev University, Stip



Соопштенија

Известување за работилница на трет циклус на студии

Работилницата ќе се одржи на 11.12.2020 год. со почеток во 13:00 часот на платформата Microsoft Teams.

Работилницата е поддржана од НАТО проектот со наслов: „Теренски детектор за генотоксичност од хемиски, биолошки, радиолошки, нуклеарни и експлозивни направи“.

Работилницата ќе се одржи на англиски јазик.

Времетраење на работилницата – 5 часа.

Сите заинтересирани за учество на работилницата да се пријават кај проф. д-р Татјана Рушковска (tatjana.ruskovska@ugd.edu.mk).

Title: “Integrative bioinformatic analysis of multi-omics data in biomedical sciences”

Dr. Dragan Milenkovic

Université Clermont Auvergne, INRAE, UNH, F-63000 Clermont-Ferrand, France

Department of Internal Medicine, Division of Cardiovascular Medicine, School of Medicine, University of California Davis, Davis, California, 95616, United States of America

Dr. Tatjana Ruskovska

Faculty of Medical Sciences, Goce Delcev University, Stip

Lectures:

1. **Dragan Milenkovic:** *Use of multi-omics and bioinformatics in biomedical sciences – introductory course*
2. **Tatjana Ruskovska:** *Integrative bioinformatics for molecular meta-analyses*


Школа за докторски студии

- За Школата
- Студиски програми и ментори
- Конкурс за трет циклус
- Соопштенија
- Документи
- Контакти



Gaining hands-on experience on the Comet assay, Second congress of students of general medicine, Stip, 9-10 May 2019.

GOCE DELCEV UNIVERSITY, STIP
FACULTY OF MEDICAL SCIENCES
SECOND CONGRESS OF STUDENTS OF GENERAL MEDICINE



AWARDS THE
CERTIFICATE
TO

FOR ATTENDING TO THE WORKSHOP
COMET ASSAY – THEORETICAL AND PRACTICAL ASPECTS
Supported by the NATO Project SPS MYP G5266

Stip, 9-10. May. 2019

10 May 2019, Stip
Republic of North Macedonia

Prof. Tatjana Ruskovska
NATO Project SPS MYP G5266 PPD



This project is supported by: The NATO Science for Peace and Security Programme



SPS MYP
G5266



*Institute of Molecular Biology
"Roumen Tsanev"*



АТЛАНТИЧЕСКИЯТ КЛУБ В БЪЛГАРИЯ
THE ATLANTIC CLUB OF BULGARIA

