

GENERAL INFORMATION

1. NAME OF THE CENTER AND LOCATION	
	<i>ReproBioMed Medical Center, Sofia 1618, Ovcha kupel, 28, Boicho Ognianov street</i>
2. TYPE OF THE RESEARCH INFRASTRUCTURE AND/OR SCIENTIFIC EXPERTISE	
Identify the type of the RI, equipment/facilities/ specific research, and in particular linked to COVID-19:	Scientific equipment for biomedical and pharmaceutical research & development: 3 Real-time PCR machines, 2 conventional PCRs, 1 NGS (MiSeq, Illumina) KEY WORDS: Expertise in molecular genetics, virology testing, RNA extraction, Real-time PCR, NGS.
3. TYPE OF THE RESEARCH	
Provide information on the research carried on or planned in regard with COVID-19 and other viruses	1. Subject (population) immune status screening against SARS-Cov-2 – IgM/IgG; 2. Subject upper respiratory tract testing for SARS-Cov-2 RNA (Multiplex RNA Real-time PCR); 3. Testing of seminal plasma in COVID-19 patients for presence of SARS-Cov-2 RNA (Multiplex RNA Real-time PCR);
4. WEBSITE	
Provide the internet address:	URL: www.reprobiomed.eu Facebook: https://www.facebook.com/McReproBioMed/
5. BACKGROUND, PUBLICATIONS AND OPEN DATA REPOSITORY	
leading research team AND Scientific publications of the research group on the topics of related to coronaviruses research results;	Elena Marinova, M.sci., Radko Sotirov, M.Sci, Dr Gueorgui Nikolov, MD, PhD No publications yet. Number of made samples by Multiplex RNA Real-time PCR - 35 – 1 positive

link to open data repository

- Tsvetkov, V. et al., Effect of plasma activated medium and water on replication and extracellular virions of HSV-1, 2020, Plasma medicine, in press, 10.1615/PlasmaMed.2020033626.
- Chayrov R., E. Stylos, M. Chatziathanasiadou, K. Chuchkov, A. Tencheva, A. Kostagianni, T. Milkova, A. Angelova, A. Galabov, S. Shishkov, D. Todorov, A. Tzakos, I. Stankova. 2018. Tailoring acyclovir prodrugs with enhanced antiviral activity: rational design, synthesis, human plasma stability and in vitro evaluation. Amino Acids. DOI: 10.1007/s00726-018-2590-y.
- Shishkova K., I. Tsekov, R. Popov, S. Shishkov, Z. Kalvathev. 2014. PCR Systems for Detection of Novel Elusive Human Pathogens Torque Teno Viruses (TTVs) in Bulgaria. Compt. Rend. l'Acad. Bulg. Sci., 67 (8):1175-1186.
- Zahmanov, G., K. Alipieva, P. Denev, D. Todorov, A. Hinkov, S. Shishkov, S. Simova, M.I. Georgiev. 2015. Flavonoid glycosides profiling in dwarf elder fruits (*Sambucus ebulus* L.) and evaluation of their antioxidant and anti-herpes simplex activities. Industrial Crops and Products, 63: 58–64.
- E. Haladjova, S. Halacheva, D. Momekova, V. Moskova-Doumanova, T. Topouzova-Hristova, K. Mladenova, J. Doumanov, M. Petrova, S. Rangelov. Polyplex Particles Based on Comb-Like Polyethylenimine/Poly(2-ethyl-2-oxazoline) Copolymers: Relating Biological Performance with Morphology and Structure. Macromol. Biosci. 2018, 1700349. <https://doi.org/10.1002/mabi.201700349>
- Radostina Kalinova, Jordan A. Doumanov, Kirilka Mladenova, Dushica Janevska, Milena Georgieva, George Miloshev, Tanya Topouzova-Hristova, and Ivaylo Dimitrov. Rational Design of Polypeptide-Based Block Copolymer for Nonviral Gene Delivery, Chemistry Select 2017, 2, 12006 – 12013; DOI: 10.1002/slct.201702403
- Haladjova, E., Kyulavska, M., Doumanov, J., Topouzova-Hristova, T., Petrov, P. Polymeric vehicles for transport and delivery of DNA via cationic micelle template method. Colloid Polym Sci (2017). <https://doi.org/10.1007/s00396-017-4193-7>

6. COORDINATOR

Full name of the coordinator organization;

Elena Vasileva Marinova

Contact person;

Elena Vasileva Marinova

elena.marinova@yahoo.com

7. POSSIBLE PARTNERS

Indicate the partner organizations

Sofia University “St. Kliment Ohridski”, Faculty of Biology

Contact person;

Prof. Rossitza Konakchieva, Dr. Habil.

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Development of pre-clinical in-vitro models of relevant cell lines like A549 to study viral-host interactions

8. IMPLEMENTED AND RUNNING PROJECTS

Projects related to virology, vaccines, infection diseases ...

Establishment of the Office for Technology Transfer in the Field of Molecular Genetics, ReproBioMed Medical Center; Funded by the EC, Operational program “Competitiveness of Bulgarian Economy” (2007-2013) – implemented.

Associate partner in the Research Infrastructure Cell Technologies in Biomedicine (INFRAACT) of the National Roadmap for RI 2017-2023

URL: <http://www.alliancecelltechnologies.eu/en/organizations>