Projects 2020

Project	Start	Expected end	Investigator	Main expected outcome
Gama2_DoFillip_3_2020	04/2020	9/2021	Dominik Filipp	Human antibodies suitable for determination of PTHrP in human serum/plasma, specifically a hybridoma producing monoclonal antibodies that could be used in a particular sandwich ELISA assay. The assay could be used in diagnosis of hidden cancers and other diseases.
Gama2_PaUtekal_3_2020	04/2020	3/2022	Pavol Utekal	Innovative methodology enhancing the performance of the RASL assay for RNA quantification and related RNA analysis (e.g., RNA-based assays) using the results of analyses of the involvement of trehalose and/or 1,2-propanediol and/or thermoresistant DNA ligases.
Gama2_PaDraber_3_2020	04/2020	12/2021	Pavel Dráber	Panels of well-characterized antibodies against GCP3 and GCP5 proteins and a new kit for a highly sensitive ELISA assay for determination of gamma-tubulin in the sera of cancer patients.
Gama2_DoFilipp_4_2020_COVID	07/2020	12/2021	Dominik Filipp	Chimeric antibodies against SARS-CoV-2 suitable for use as positive controls in different variants of tests for SARS-CoV-2 in human serum/plasma, or antibodies usable directly in a specific test currently developed by several companies in the Czech Republic, where they could also serve as a calibration tool for the test sensitivity.
Gama2_Redchenko_4_2020_COVID	06/2020	04/2022	Oleksii Redchenko	DNA aptamers for fast, efficient and sensitive analysis of SARS CoV 2, usable in a new generation of tests.
Gama2_Hejnar_6_2020	07/2020	12/2022	Jiří Hejnar	Technology, or a prototype of a genetically sterile line of hens, i.e., an organism easily usable in research as well as in preparation of new GMO chicken lines.
Gama2_LuStepanek_3_2020	07/2020	12/2022	Luděk Štěpánek	Validated technology, or utility model, patent and/or prototype of a new type of microscopy adapter for correlative microscopy.