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LIST OF PROJECTS ON THE DEPARTMENT OF BIOLOGY:

National scientific projects:

1. "Genetic and regulatory factors in reproduction and health protection of domestic animals". (Project No. 1209, funded by the Republic Ministry of Science, 1990-1995);
2. "Investigations of etiopatogenesis, genetical and ecological factors with target to improve health protection and to increase productive – reproductive characteristics of animals and health propriety of animal food" (Project No. 12M18, funded by the Republic Ministry of Science, 1995-2000);
3. "Biomonitoring in function of preserving of indigenous animals races, health protection of domestic animal and ecosystems" (Project No. TSI-358, funded by the Federal Ministry for Development, Science and Environment, 1994-2000);
4. "Genetic and ecological investigations of honey bees in relation to disease resistance and production of ecologically safe food" (Project No. 1870, funded by the Republic Ministry for Science, Technologies and Development, 2002-2005), leader Prof. Dr Zoran Stanimirovic;
5. "Evaluation of cytogenetic effects of some hormones, cytostatics and antibiotics" (Project No. 1873, funded by the Republic Ministry of Science, Technologies and Development, 2002-2005), leader Prof. Dr Ninoslav Djelic;
6. "Development of technologies and new products of nonconvention animal production" (Project No. 0541, funded by the Republic Ministry for Science, Technologies and Development, 2002-2005);
7. "Development of beekeeping based on selection of new domestic stocks of queen and selection of honey bee colonies more resistant on diseases of adult honey bees and honey bee brood" funded by the Ministry of Agriculture, Water management and Forestry, within Programme of Husbandry Development (2003-2004), leader Prof. Dr Zoran Stanimirovic;
8. "Ecophysiological and genetic investigations of domestic animals and bees for the purpose of increasing reproductive traits and disease resistance" (Project No. 143022, funded by the by Republic Ministry of Science and Environmental Protection, 2006-2010), leader Prof. Dr Zoran Stanimirovic;

9. "Evaluation of the effects of hormones and cytostatics using cytogenetic analysis and the Comet assay", Project No. 143018, funded by the by Republic Ministry of Science and Environmental Protection, 2006-2010), leader Prof. Dr Ninoslav Djelic;
10. "Introduction of molecular-genetic markers for parentage confirmation and performance testing in cattle selection and improvement" (Project No. 20011, funded by Republic Ministry for Science and Technological Development, 2008-2010), leader Prof. Dr Zoran Stanimirovic;
11. "Molecular genetic and ecophysiological researches on the protection of autochthonous animal resources, sustaining domestic animals' welfare, health and reproduction, and safe food production" (Project No. III46002, funded by Republic Ministry for Science and Technological Development, 2011-2015), leader Prof. Dr Zoran Stanimirovic;
12. "Aberrations of the cell cycle and influence of the oxidative stress on neurodegenerative processes and malignant transformation of the cell" (Project No. 173034, funded by Republic Ministry for Science and Technological Development, 2011-2015), leader Prof. Dr Ninoslav Djelic.
13. "Investigation of the causes and consequences of the disappearance of deer game in central Serbia, the definition of areas suitable for reintroduction and measures for improving the reintroduction process - Phase I" (Project funded by Ministry of Agriculture and Environmental Protection, 2016-2017) leader Prof. Dr Dragan Gacic.
14. "European Brown Hair Syndrome and *Lepus europaeus* population decrease in Republic of Serbia". Project financed by Ministry of Agriculture, Forestry and Water Management, 2019.

International scientific projects:

15. "Safe Varroa control method for both conventional and organic beekeeping" ("Turvallinen varroapunkin torjuntamenetelmä tavanomaiseen ja luonnonmukaiseen mehiläistarhaukseen"), in Finnish, led by Dr. Kamran Fakhimzadeh, University of Helsinki, Mikkeli Institute for Rural Research and Training, Mikkeli – Finland, 2004-2006.
16. "Investigations of honeybee behavior in disease resistance, organic beekeeping and production of medication and alternative medications based on bee products and medicinal herbs". Bilateral Project between Serbia and Macedonia funded by the Serbian and Macedonian Ministries for Science, Technologies and Development, 2005-2006, leaders Prof. Dr Zoran Stanimirovic & Prof. Dr Miso Hristovski, 2005-2006.
17. "Influence of microcystines, oestrogens and thyroid hormones on cytogenetic changes and DNA damage in cultured human lymphocytes and HepG2 cells", bilateral Project between Slovenia and Serbia funded by the Serbian and Slovenian Ministries for Science, Technologies and Development, 2005-2006, leaders Prof. Dr Ninoslav Djelic & Dr Metka Filipič.

18. "Cell cycle aberrations and oxidative stress in age related neurodegenerative diseases: The role of food antioxidants", Bilateral Project between Italy and Serbia, 2013-2015, co-leaders Prof. Dr Biljana Spremo-Potparević & Prof. Dr Maurizio Battino.
19. COST Action FA1201 "Epigenetics and Periconception Environment (EPICONCEPT)", Management Committee (MC) Member [FA1201 RS] Prof. Dr Jevrosima Stevanovic.
20. COST Action CA 15132 „The Comet assay as a human biomonitoring tool (hCOMET)", Management Committee (MC) Member [CA 15132] Prof. Dr Ninoslav Đelić.
21. "Oxidative stress and DNA damage in lymphocytes from normal, obese, prediabetic and diabetic persons exposed to adrenaline and thyroxine in vitro", Bilateral Project between Serbia and Germany, 2016-2017, co-leaders Prof. Dr Ninoslav Đelić & Prof. Dr Helga Stopper.
22. "Immune response of honey bees treated with pesticides in larval stage and subsequently infected with microsporidium *Nosema ceranae*", Bilateral Project between Italy and Serbia, 2016-2017, co-leaders Prof. Dr Jevrosima Stevanović & Dr Ivanka Cizelj.
23. Research Project funded by the International Atomic Energy Agency (IAEA) entitled 'Animal Identification, Pedigree, Exterior and Performance Data Recording in Selected Holstein-Friesian (HF) Cattle Population in Serbia Used for Future Genetic Selection under AI Programmes' (Research Contract 20774), which forms part of the IAEA Coordinated Research Project D31028, entitled 'Application of Nuclear and Genomic Tools to Enable for the Selection of Animals with Enhanced Productivity Traits'.
24. ERASMUS + ART-REM, Curricula Development in the Fields of Reproductive Biology/Assisted Reproductive Technologies and Regenerative Medicine in Serbia, Project No. 586181-EPP-1-2017-1-RS-EPPKA2-CBHE-JP, funded by the Erasmus+ Programme of the European Union, 2017-2019.
25. Research Project funded by the International Atomic Energy Agency (IAEA) entitled "Assessment of *Aedes aegypti* WB2-BR Line Vector Competence against Zika virus" (RFQ n.28879-MN), 2017.
26. ZIKAlliance – Research project funded by European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N.734548 entitled "Evaluation of vector competence for ZIKA virus among Swiss population of invasive mosquito *Aedes japonicus*, 2017-2018.

Innovation projects

1. "The development of a new service: molecular genetic determination of sex alleles in drones and the assessment of queen genotypes of the bee *Apis mellifera*" (principal investigator Prof. Dr Zoran Stanimirović); the Serbian Innovation Fund granted an Innovation voucher No 121 intended for use by GOLDEN BEE DOO company (Belgrade, Serbia), 2018.

2. “Testing, optimization and developing a new formulation (product) for ecological combat against the honey bee mite *Varroa destructor*” (principal investigator Assist. Uroš Glavinić); the Serbian Innovation Fund granted an Innovation voucher No 134 intended for use by EVROTOM DOO company (Ruma, Serbia), 2018.
3. “The optimization and use of the method of beta-casein determination in cattle – A2A2 milk” (principal investigator Assist. Marko Ristanić); the Serbian Innovation Fund granted an Innovation voucher No 157 intended for use by VETERINARY CLINIC SVRLJIG (Svrljig, Serbia), 2018.
4. “The clinical investigation into the efficacy of phytogenic additive Patente Herba® Plus in the control of porcine proliferative enteropathy” (principal investigator Assist. Vladimir Drašković); the Serbian Innovation Fund granted an Innovation voucher No 138 intended for use by EDUFarm DOO company (Crvenka, Serbia), 2018.
5. “Testing various doses of herbal hormones and investigation into their influence on the condition and survival of bees” (principal investigator Prof. dr Jevrosima Stevanović); the Serbian Innovation Fund granted an Innovation voucher No 220 intended for use by AGROUNIK DOO (Belgrade, Serbia), 2018-2019.
6. “Screening mastitis in cows caused by *Prototheca zopfii* – Introduction and verification of molecular genetic method of diagnosis of prototheca infection and determination of prototheca genotypes with the aim of suggesting best treatment” (principal investigator Assist. Marko Ristanić); the Serbian Innovation Fund granted an Innovation voucher No 242 intended for use by NAŠ VETERINAR DOO (Mionica, Serbia), 2018-2019.
7. “Influence of Tonus (bread made without flour) consumption on the decrease in DNA damages in people suffering from various stages of diabetes” (principal investigator prof. dr Ninoslav Djelic); the Serbian Innovation Fund granted an Innovation voucher No 248 intended for use by TRIVIT DOO (Bečej, Serbia), 2018-2019.
8. “Verification of technique of prenatal foetal determination with the use of molecular genetic analyses of circulating cell-free foetal DNA – cffDNA” (principal investigator Assist. Uroš Glavinić); the Serbian Innovation Fund granted an Innovation voucher No 257 intended for use by ZOOTEHNIK 010 DOO (Pirot, Serbia), 2018-2019.
9. “Investigation into the biological efficacy of hard paraffin briquette baits and soft bates” (principal investigator Vladimir Drašković), the Serbian Innovation Fund granted an Innovation voucher No 223 intended for use by VISAN DOO (Beograd-Zemun, Serbia), 2018-2019.
10. “The optimisation and use of molecular genetic method of fast diagnostics of swine dysentery” (principal investigator Marko Ristanić); the Serbian Innovation Fund granted an Innovation voucher No 369 intended for use by LUSA VET DOO (Bogatić, Serbia), 2019.
11. “The assessment of the protective effect of B+ supplement in honey bees infected with *Nosema*” (principal investigator Nemanja Jovanović); the Serbian Innovation Fund granted an Innovation voucher No 371 intended for use by BEE STING DOO (Beograd, Serbia), 2019.

12. “The influence of *Agaricus brasiliensis* fungus extracts on the survival and gene expression in bees infected with *Nosema ceranae*” (principal investigator Uroš Glavinić); the Serbian Innovation Fund granted an Innovation voucher No 366 intended for use by EKOFUNGI doo (Padinska Skela, Beograd, Serbia), 2019.
13. „Testing the effects of various doses of *Agaricus bisporus* mushroom extract on the condition and survival of bees“ (principal investigator Milan Rajković); the Serbian Innovation Fund granted an Innovation voucher No 382 intended for use by DINA PEČURKA DOO (Padinska Skela, Beograd, Serbia), 2019.
14. „Optimization and introduction of PCR-RFLP method for differential diagnosis of *Babesia* species in dogs“ (principal investigator Marko Ristanić); the Serbian Innovation Fund granted an Innovation voucher No 587, intended for use by VETERINARSKA STANICA ĐURA-VET doo (Leskovac, Serbia), 2019-2020.
15. „Optimization and use of the molecular genetic method for precise diagnostics of proliferative enteropathy“ (principal investigator Nemanja Jovanović); the Serbian Innovation Fund granted an Innovation voucher No 589, intended for use by VETERINARSKA STANICA PROFIVET doo (Kanjiža, Serbia), 2019-2020.
16. „Optimization of the molecular genetic method of fast diagnostics of porcine reproductive and respiratory syndrome” (principal investigator Milan Rajković); the Serbian Innovation Fund granted an Innovation voucher No 590, intended for use by EVROLEK doo (Šabac, Serbia) 2019-2020.
17. „Optimization of the molecular genetic method for diagnostics of American foulbrood causative agents and *Nosema* in wax“ (principal investigator Nemanja Jovanović); The Serbian Innovation Fund granted an Innovation voucher No 735, intended for use by ARC INTERNATIONAL doo, Beograd, Serbia), 2020-2021.
18. “Testing of the protective effects of thymol in *Nosema ceranae* infection level regulation in honey bees” (principal investigator Marko Ristanić); The Serbian Innovation Fund granted an Innovation voucher No 739, intended for use by VETING doo (Beograd, Serbia), 2020-2021.

Commercial projects

1. Project funded by the Public Enterprise for Forest Management "Srbijasume" Serbia "Feasibility Study for raising the apiary of 1000 hives in a nature park „Golija“, in period Sept 1 - Dec 1, 2012.
2. Project funded by SAVE Foundation, Schneebergstr. 17, CH-9000 St.Gallen, Switzerland, under the UN-FAO Funding Strategy for the Global Plan of Action for Animal Genetic Resource “DNA Extraction BushaLive Project“, BL-DNA-01, in period Apr 15 – Nov. 15, 2013.
3. Project funded by the European Union (EU General Budget) and the Austrian Development Agency “Training plan Danube Honey House, assessment demo plots and start-up package“, Ref: 6526-00/2011/Grant24-04, in period May 5 – Sept 5, 2014.

Belgrade, June 9, 2021.

Head
of the Department of Biology
Prof. dr Zoran Stanimirović