

RESEARCH CENTER FOR STUDIES OF FOOD QUALITY AND AGRICULTURAL PRODUCTS

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CENTER FOR ADVANCED PRECLINICAL RESEARCH

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Infrastructure direct public Link: <https://erris.gov.ro/CAPRes>

The Center for Advanced Preclinical Research (CAPRes) at the USAMV Bucharest addresses both fundamental and applied research in the biomedical field. Located in the Faculty of Veterinary Medicine campus, the Center collaborates with the Veterinary Medicine Faculty's Clinic, which has a modern Clinical Laboratory, which offers specialized services, such as health assessment and monitorization, anesthesia, surgical interventions and treatments, euthanasia and sample prelevation from experimental animals. The Center's core facility, located in the Preclinical Sciences building, has an infrastructure suited for histological and immunochemical analysis, proteomics, transcriptomics, toxicology and pharmacodynamic studies. An important part of the laboratory's activities is based on in vitro studies. The research at CAPRes is directed toward the study and biological effects of advanced glycation end products (AGEs), and their involvement in human and animal pathologies and the development of biocompatible materials with potential biomedical applications. The researchers at the CAPRes have expertise in obtaining, purifying and characterization of AGEs. Aside from the characterization of the biological impact of AGEs exposure, an important part of our portfolio is the characterization of biomaterial-cell/tissue interaction, used to assess biocompatibility and efficacy of such materials. Of major interest are the modulation of extracellular matrix, immune response and oxidative stress signaling pathways and biomarker levels by AGEs or biomaterials exposure.

Research focus

Engineer biomaterials for improved efficacy and biocompatibility for use in biomedical applications
Evaluate therapeutic efficacy of new drugs in animal models
Develop efficacious drug-biomaterial combination therapies
Discover and validate efficient biomarkers for the characterization of drug-biomaterials and target tissue dynamic systems
Generate hypothesis for clinical research

ITALIAN-ROMANIAN CENTER OF COMPARATIVE ONCOLOGY

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The center was founded in 2007 at the Faculty of Veterinary Medicine at the initiative of Prof. Nicolae Manolescu in Bucharest - Romania and Prof. Angelo Ferrari in Genoa-Italy. This center is led by Mrs. Dr. Emilia Balint. This center operates under the scientific coordination of the Mediterranean Forum of Comparative Oncology and the National Forum of Comparative Oncology. The reason why we created this center is that it manages to ensure a smooth and high Italian-Romanian cooperation in the field of comparative oncology. The activity is developed both in scientific research and in current therapy for the oncological diseases in pets (dogs and cats). In the Italian-Romanian Center of Comparative Oncology we perform special laboratory investigations within the research projects. One of the most important activities in our field of work is ultrasound guided puncture that can be executed both in the liver and spleen.

LABORATORY OF PHARMACEUTICAL BIOTECHNOLOGY

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Infrastructure direct public Link: <https://erris.gov.ro/Pharmbiotech>

ANIMAL INFECTIOUS DISEASE - RESEARCH AND TRAINING LABORATORY

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+ 2200C , gas chromatograph mass spectrometer Agilent Technologies - 7890 GC System a - 5975C VLMSD with Triple - Axis Detector, climate chamber FEUTRON -400C ... + 1000C with relative air humidity control, equipment for determining water vapor permeability for packaging materials - LYSSY L80- 5000, colony counter COLONYSTAR with accessories, and Soxhlet Gerhardt equipment. The laboratory of Food Biotechnologies of the Faculty of Biotechnology is well equipped with state of the art equipment that ensures the smooth conduct of research activities in research projects and is the place where are being performed microbiological analysis, physical and chemical determinations for quality assessment of food products. Also there are performed molecular biology and biochemistry analysis over different food products. In addition to the usual equipment, the laboratory has equipment for conducting experiments that require analytical measurements or to monitor food quality, such as: HPLC – WATERS, model ALLIANCE quaternary system, auto sampler, UV-VIS detector which can determine two wavelengths simultaneously using a MILLENIUM soft, laminar flow hood BSC – EN BIOHAZARD with vertical flow, ultrapure water machine MILLIPORE, model SIMPLICITY185 with Ion exchange filters, UV lamp, , resistivity 18,2 M, COT 5ppb, 0,5l/min flow, HELIOS ALPHA UV-VIS spectrophotometer with a double beam system Peltier used for thermostatic analysis, 6 vats carousel with the possibility of being mounted to a computer, Hettich UNIVERSAL 320 R centrifuge - 7,000 rpm, with a thermostat, angular rotor, centrifuge for 50 ml volume, precision analytical balance ADAMS 0.0001 / 0.00001 g, internal calibration and the possibility of coupling it to computer, Interscience Stomacher Bag Mixer shaker with bags and accessories, oven with electronic regulation MEMMERT 5

LABORATORY OF APPLIED MICROBIOLOGY

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Infrastructure direct public Link: <https://erris.gov.ro/LABORATORY-OF-APPLIED-MICROB>

The laboratory equipment is suited to applied microbiology research and services: autoclaves, incubators +/- refrigeration, lyophilizer, bioreactor, laminar hood, shaking incubator, thermocycler, UV-transilluminator, spectrophotometer, pulsed field electrophoresis, sample bagmixer

GENETIC AND GENETIC ENGINEERING LABORATORY

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Infrastructure direct public Link: <https://erris.gov.ro/LABORATORY-OF-INFORMATICS-BTH>

The Laboratory of Informatics is an academic laboratory within the University of Agronomical Sciences and Veterinary Medicine of Bucharest, Faculty of Biotechnologies, that encompasses Computer Science, along with aspects of Applied Informatics in Biotechnologies field: Engineering, Bioinformatics and Biostatistics. It consists of 3 academic staff. We have over 250 undergraduates studying for Computer Science and Applied Informatics in Biotechnologies.

LABORATORY OF CONTROL AND FOOD EXPERTISE

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It is a specialised laboratory for assessment of food integrity, freshness and sanitation. These determinations can be applied in the laboratory to: meat and meat products, milk and milk products, fish and fish products, honey and honey products, eggs and egg products.

INTERDISCIPLINARY LABORATORY FOR HEAVY METALS TRANSPORT AND ACCUMULATION IN THE FOOD CHAIN AND MODELING

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