

Europe

	University name	Departments	Specialization	Subjects
Austria	University of Veterinary Medicine Vienna https://www.vetmeduni.ac.at/en/laboratory-animal-science/biomodels-austria/	Institute of Laboratory Animal Science, Department for Biomedical Sciences	Mice	Generation, breeding, phenotyping, and archival of genetically modified mouse models in the framework of biomedical research projects, transgenesis and assisted reproduction in laboratory mice.
Belarus	Vitebsk State Academy of Veterinary Medicine https://www.vsavm.by/en/about-the-academy/faculties/biotechnological-faculty/ https://www.vsavm.by/en/about-the-academy/faculties/faculty-of-veterinary-medicine/ https://www.vsavm.by/en/about-the-academy/scientific-activity/	Biotechnological Faculty: the Department of Genetics and Breeding of Farm Animals; the Department of Nutrition of Farm Animals; the Department of Specialized Animal Husbandry; the Department of Production Technology and Mechanization in Animal Husbandry; the Department of Feeds Production; the Department of Veterinary Sanitation and Expertise; Faculty of Veterinary Medicine: the Department of Farm Animal Anatomy; the Department of Zoology; the Department of Normal and Pathological Physiology; the Department of Microbiology and Virology; the Department of Animal Hygiene; the Department of Pathological Anatomy and Histology; the Department of Clinical Diagnostics; the Department of Pharmacology and Toxicology; the Department of Obstetrics, Gynecology and Biotechnics of Animal Reproduction; the Department of Internal Non-infectious Diseases; the Department of General, Specialized and Operative Surgery; the Department of Parasitology and Invasive Diseases of Animals; the Department of Epizootiology and Infectious Diseases of Animals; the Department of Diseases of Small Animals and Birds.	Cattle, calves, swine, sheep, small animals, avian, fish, bees	Animal diseases and developing measures to eliminate them. The research is carried out to improve breeding and productive animal qualities, to develop modern livestock production technologies in compliance with international requirements, and to render the scientific support for the educational process. Gynecology, biotechnology of animal reproduction, veterinary bacteriology and virology, veterinary biochemistry, veterinary toxicology, swine diseases, small animals diseases, avian diseases, fish and bees diseases and animal husbandry.
Belgium	Ghent University https://www.ugent.be/en	Laboratory for Animal Nutrition and Animal Product Quality Faculty of Bioscience Engineering, Faculty of Sciences, Faculty of Veterinary Medicine	Ruminants, pigs, broilers	Ruminant nutrition and microbial metabolism, monogastric nutrition (Research of our group is in close collaboration with the Department of Applied Biosciences and focuses on the digestive physiology in monogastric farm animals with emphasis on piglets and broilers. They aim at understanding the feed - gut interaction to improve nutrient efficiency, animal performances and gut health). Research of their group emphasizes on meat and carcass quality in farm animals to advance knowledge towards improved composition, quality and value of meat and carcasses.
Belgium	University of Liège https://www.uliege.be/cms/c_8699436/fr/uliege https://www.gigalfg.uliege.be/cms/c_4761101/en/gigalfg-about-us	Faculty of Veterinary Medicine, Department of equine and companion animal clinical sciences, Department of Functional Science. Laboratory of Functional Genetics	Dogs, cats, cows equines (horses and donkeys) and exotic animals (including reptiles, birds, ferrets, rodents, rabbits, mice)	The Faculty's researchers focused on issues related to the improvement of animal production, infectious diseases (some of which, such as rabies, are particularly important in a public health context), the safety of the food chain, infectious diseases, food safety, animal production, translational veterinary medicine, modeling and aquaculture. Molecular biology research. Study of the pathophysiological, histopathological and transcriptomic mechanisms responsible for the onset and persistence of chronic inflammatory respiratory diseases in horses. Development of new therapeutic and preventive approaches in the treatment of horse growth. Development of cellular therapies for the treatment of chronic mastitis in dairy cows. Research in exercise physiology in horses. Physiology of effort and training in sport horses. Determination of the transcriptomic and genomic factors determining the performance and the under-performance in the sport horse. Effect of effort and training on the horse's innate immunity. Genetically modify/mutate genes in mice and to analyze the effects of these mutations on the development and function of the whole organism. From these studies, they are establishing basic principles of physiology and basic mechanisms of disease pathogenesis in animal and man, as well as defining new targets for innovative therapies and diagnosis. In particular, the laboratory focuses on genes implicated in the control of inositol phosphates and phosphoinositides metabolism and signaling.
Bosnia i Herzegovina	University of Sarajevo https://www.unsa.ba/en	Faculty of Agriculture and Food Science Faculty of Science Faculty of Veterinary Medicine Institute of Genetic Engineering and Biotechnology	Simmental cows, chamois, pramenka sheep, horses (Bosnian mountain horse), red deer (Cervus elaphus L.), holstein breed bulls, Holstein, Simmental and Brown Swiss cattle, pet rabbit, dogs, broilers, pigs, Culicoides (Diptera: Ceratopogonidae)goats, rats, turkeys (Meleagris gallopavo), mute swans (Cygnus olor), herzegovinian donkey	Endocrinology, genetics, molecular biology, animal production, dairy science, animal nutrition, epidemiology, animal health, zoonoses, veterinary physiology, genetic diversity, animal science, animal reproduction.

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Bulgaria	<p>Trakia University http://uni-sz.bg/engl/</p>	<p>Faculty of Agriculture</p> <p>Departments:</p> <p>Department of Animal husbandry – Non-ruminants and other animals</p> <p>Department of Animal husbandry – Ruminants and Dairy farming</p> <p>Department of Applied Ecology and Animal Hygiene</p> <p>Department of Biology and Aquaculture</p> <p>Department of Genetics, Breeding and Reproduction</p> <p>Department of Morphology, Physiology and Nutrition</p> <p>Faculty of Veterinary Medicine</p> <p>Departments:</p> <p>Obstetrics, Reproduction and Reproductive Disorders</p> <p>Veterinary Anatomy, Histology and Embryology</p> <p>Veterinary Microbiology, Infectious and Parasitic Diseases</p> <p>Veterinary Surgery</p> <p>Internal Noninfectious Diseases</p> <p>General and Clinical Pathology</p> <p>General Livestock Breeding</p> <p>Pharmacology, Physiology of the Animals and Physiological Chemistry</p> <p>Hygiene, Technology and Control of Food Products of Animal Origin, Veterinary Legislation and Management</p>	<p>Ruminants, sheep, goats, dairy farming, pigs, horses, bees, birds, poultry, waterfowl, turkey, domestic canary bird (<i>Serinus canarius</i>), rabbits, <i>Bombyx mori</i>, small animals (dogs, cats)</p>	<p>Physiology, genetics, breeding, reproduction, animal husbandry, animal hygiene, aquaculture, morphology, nutrition, anatomy, biology, physiology and morphological characteristics of the honey bee, technologies for growing, breeding and productivity of bee colony, selection, breeding, growing and storage of bee queens, economy, organization and management in beekeeping, protecting bees from enemies, applying stimulating substances and pollen substitutes when feeding the bee colony, bees and their products, as indicators for the pollution of the environment, fattening and slaughter qualities of pigs, use of market information to decrease the price risk in pig farming, technologies for raising pigs for breeding and meat, feeding of pigs, opportunities for improvement of the diet and quality of pork meat. Anatomy, physiology and biology of farm bird species, poultry breeding and genetics, incubation and biological control, poultry feeding, farm birds breeding and rearing technologies, poultry production quality, .</p> <p>Rabbit farming and feeding, biology of the breeding of rabbit and game animals, game animals farming, biology and ecology of game animals, biology and ecology of the feathered game animals, raised in voliere – feeding, egg laying, incubation – hatching, survival of offsprings. Breeding and selection of <i>Bombyx mori</i>, including the creation of new lines, breeds and hybrids, stimulating the productivity of the <i>B. mori</i> through influence with physics factors (gamma, laser and infrared rays), feeding of the <i>B. mori</i>, using artificial food and non-traditional sources (<i>M. nigra</i>), effect of the ecologic conditions during the separate states of their growing,</p> <p>Animal hygiene requirements for the production systems in the animal husbandry, protection and humane treatment towards animals, management of the actions during natural disasters in the agricultural sector, labor occupational safety and hygiene in companies in the agricultural sector, collection, storage and usage of manure from animal farms, studies on the role of selenium for prevention of nonspecific depression in the productive and reproductive qualities of different animals.</p> <p>Studies on the biogeochemical ecology of selenium and fluorine, biogeochemical mapping of the microelements selenium and fluorine in Bulgaria, study of the processes in the digestive tract of ruminant animals in relation to the age, rations, defaunation, the use of enzyme preparations and drugs, study of the opportunities for increasing the microbial synthesis in the reticulorumen of ruminant animals, basic patterns of animal behavior in different living conditions, sheep nutrition, sheep and goat farming, breeding and raising cattle, cattle and buffalo farming, selection and reproduction of buffalos, selection in dairy cattle breeding, management of the production and selection in the beef cattle farming.</p> <p>Cytogenetics of animals, mutagenic factors and assessment of their influence, radiation genetics, genetic foundations of inbreeding and hybridization in animal science, molecular genetics and DNA analysis, DNA markers and their application in the selection and breeding of livestock animals, preserving the genetic resources in animal science, biotechnology of breeding and reproductive endocrinology, assisted reproductive technologies, technology and organization of artificial insemination in animals.</p> <p>Development of intensive technologies for growing hydrobionts, ecological assessment of aquafarms, market information and decrease of the price risk in aqua production, economic analysis of fishing farm, ecological assessment of fishing farms, organic aquaculture, helminthology, entomology, ecology. Reproductive physiology and pathology in small animals, reproduction and reproductive pathology in cows and mares, feline reproduction; pseudopregnancy; newborn diseases; resuscitation; canine and feline contraception, Morphology of the digestive system in the domestic canary bird (<i>Serinus canarius</i>) and other exotic birds.</p>

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Croatia	<p>University of Zagreb</p> <p>http://www.unizg.hr/homepage/</p>	<p>Faculty of Agriculture</p> <p>Faculty of Food Technology and Biotechnology</p> <p>Faculty of Science</p> <p>Faculty of Veterinary Medicine</p>	<p>Small animals (dogs - Pekingese dogs, cats), bottlenose dolphins (<i>Tursiops truncatus</i>), sheep, Croatian Spotted goat (<i>Capra hircus</i>), rabbits, geese, brown bear (<i>Ursus arctos</i>), cockatiel (<i>Nymphicus hollandicus</i>), poultry, Balkan snow vole (<i>Dinaromys bogdanovi</i>), four-lined snakes (<i>Elaphe quatuorlineata</i>), olm (<i>Proteus anguinus</i>), freshwater turtles (<i>Trachemys</i> sp.), spiny-tailed lizards (<i>Uromastyx</i> SP.), acertid lizard species <i>Podarcis siculus</i> and <i>Podarcis melisellensis</i>, honey bees, Cladonotin (Caelifera: Tetrigidae), Croatian wild boar (<i>Sus scrofa</i>), golden jackal (<i>Canis aureus</i>), Grey Wolf (<i>Canis lupus</i> L.), Posavina and Croatian Coldblood horse, Lacaune ewes, fishes: grass carp (<i>Ctenopharyngodon idellus</i>), North African catfish (<i>Clarias gariepinus</i>), loggerhead sea turtles (<i>Caretta caretta</i>), sharks, rats</p>	<p>Animal genetics, animal physiology, animal and veterinary anatomy, biodiversity, ecology and evolution, systematics, marine ecology, genetic diversity, insect taxonomy, ornithology, ichthyology, behavioral testing, genomics, epigenetics, zoology, ecophysiology, entomology, malacology.</p>
Czech Republic	<p>Institute of Physiology (IPHYS) of the Czech Academy of Sciences (CAS)</p> <p>https://www.fgu.cas.cz/en/</p>	<p>The Laboratory of Adipose Tissue Biology, Laboratory of Biological Rhythms, Laboratory of Cellular and Molecular Neuroendocrinology, Laboratory of Epithelial Physiology, Laboratory of Genetics of Model Diseases, Laboratory of Membrane Transport, Laboratory of Molecular Neurobiology, Laboratory of Neurophysiology of Memory, Laboratory of Pain Research</p>	<p>Rodents (rats, mice)</p>	<p>The fundamental knowledge on metabolism and heart and brain function, thus paving the way to novel diagnostic and therapeutic procedures required to tackle serious medical conditions in humans. These chiefly include stroke, ischemic heart disease, diabetes, inherited metabolic disorders and neurodegenerative diseases such as Alzheimer's or epilepsy. Scientific laboratories are currently grouped according to their research interests:</p> <p>NEUROSCIENCE Neuroscientific research covers a broad spectrum of problems ranging from the mechanisms of neurotransmitter release and actions of transmitters on their receptors to integrative functions of the central nervous system, such as memory, regulation of circadian rhythms and pathophysiological mechanisms of epilepsies.</p> <p>CARDIOVASCULAR PHYSIOLOGY Research concerning the physiology and pathophysiology of the cardiovascular system focuses on the developmental aspects of cardiac contractile function, experimental hypertension and renovascular physiology. Special attention is being paid to the role of proteins and cell membranes.</p> <p>METABOLISM Research of metabolism covers problems related to cell metabolism, functions of mitochondria, membrane transport and signal transduction are investigated at both the cellular and intercellular level.</p> <p>The Laboratory of Adipose Tissue Biology (Laboratory) is studying physiological regulations of metabolisms and their disturbances in obesity and associated diseases (i.e. Metabolic syndrome).</p> <p>endogenous time-keeping system, circadian clock of mammals, including humans. The system temporally regulates rhythmic processes in our body so that they take place at the proper time of day and are optimally synchronized relative to each other.</p> <p>The Laboratory investigates signaling pathways at the cellular and molecular levels, determines the manner in which hormones and neurotransmitters utilize calcium and cyclic nucleotides as intracellular messengers, and characterizes channels involved in electrical activity, calcium signaling, and release of hormones and neurotransmitters. research is focused on biology, physiology and pathophysiology of the intestine and cellular and molecular mechanisms of corticosteroid regulations.</p> <p>To achieve the aims: <i>Effect of psychosocial stress on HPA axis regulation</i></p> <ul style="list-style-type: none"> • <i>Effect of inflammation on local metabolism of glucocorticoids in neuroendocrine regulatory pathways and secondary lymphoid organs</i> • <i>Role of internal time-keeping system in pathogenesis of colorectal cancer associated with inflammatory bowel disease</i> • <i>Effect of gut microbiota on neuroendocrine regulatory pathways during stress</i> • <i>Regulation of intestinal transport</i> • <i>Metabolic syndrome is a cluster of several risk factors for type 2 diabetes and cardiovascular disease, including obesity, hypertension, insulin resistance, and dyslipidemia. The main research interest of Laboratory is to study mechanisms of pain and to explore new possibilities of pain treatment, especially in chronic states.</i>

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	<p>Research Institute of Animal Breeding Institute of Animal Science (IAS) Prague</p> <p>https://vuzv.cz/en/</p>	<p>Departments:</p> <p>Biology of Reproduction</p> <p>Cattle Breeding</p> <p>Ethology</p> <p>Genetics and Breeding of Farm Animals</p> <p>Genetic Resources</p> <p>Livestock Technology and Management</p> <p>Nutrition and Feeding of Farm Animals</p> <p>Nutritional Physiology and Animal Product Quality</p> <p>Pig Breeding</p>	<p>Cattle, small ruminant, fallow deer (Dama dama), horses, pigs, mice, Xenopus laevis, broilers, rabbits</p>	<p>New approaches for the preservation of endangered livestock populations, leptin Promoter Region Genotype Frequencies and its Variability in the Czech Fleckvieh Cattle, differences between production population and genetic resources, investigation of genetic diversity of indigenous cattle populations in Czech Republic, addressing the problem of the occurrence of bacterial, protozoan and viral zoonotic agents in small ruminant breeds, bisphenols as recent endocrine disruptor endangering human reproduction.</p> <p>Supplementation on first antler growth in fallow deer (Dama dama), Elimination of risk factors for dairy cow health and reproduction using systems of automatic measurement and collection of data, Research of dairy cattle breeding methods with the goal to improve disease resistance using genomic approach, systemic health data collecting, family-type pig rearing with insemination of lactating sows, technical and biological tools and procedures to prevent the African swine fever in population of free-ranging wild boar in the Czech Republic, behavioral Factors Affecting Reproduction in Domestic Horses: Sociobiological Approach.</p> <p>In Animal Genetics - Approaches and Limitations, quality and safety meat of chicken fed with insect meal, limited feed intake and pasture, a new variety of wheat PEXESO with increased content of carotenoids is tested in poultry in IAS, dietary inclusion of lupine bran for fattening rabbits, effect of probiotic Clostridium butyricum CBM 588 on microbiota and growth performance of broiler chickens, knowledge gained from genetics and other scientific branches to selection and hybridization programs in main categories of farm animals (milk and meat cattle, pigs, poultry, horses). The most important activity is development of methods of breeding value prediction (both, genetic and genomic) for individuals and populations, evaluation of performance testing data, verification of new selection criteria and detection of their genetic causality, construction of selection indexes, gainful functions and bioeconomic models for economic evaluation of single traits, single proceedings in breeding, yield types and goals, optimalization of selection and hybridization programs and simulation of genetic processes in animal populations, development of methods of preservation of genetic variability of endangered animal, genetic resources and populations, association of TLR gene variants in a Czech Red Pied cattle population with reproductive traits.</p>
	<p>University of Veterinary and Pharmaceutical Sciences Brno</p> <p>https://www2.vfu.cz/homepage-en.html</p>	<p>Faculty of Veterinary Medicine</p> <p>Faculty of Veretinary Hygiene and Ecology</p>	<p>Dogs, cats, horses, cattle and small ruminants, swine, poultry, fish, bees and exotic animals</p>	<p>Basic fields, animal breeding, animal nutrition, livestock breeding and animal hygiene, protection of animals and welfare; preclinical fields, mainly anatomy, histology and embryology, physiology, pathological anatomy, pathological physiology, microbiology, immunology, parasitology, genetics, pharmacology, toxicology and epizootology; clinical fields, mainly diseases of dogs, cats, horses, cattle and small ruminants, swine, poultry, fish, bees and exotic animals, infectious diseases, legal and veterinary public health, food hygiene and professional education, wide spectrum of veterinary medicine, strongly oriented towards diagnostics, therapy and prevention of diseases of various types of animals.</p>
Denmark	<p>Royal Veterinary and Agricultural University</p> <p>https://akut.ku.dk/english/</p>	<p>Core Facility for Transgenic Mice</p>	<p>Transgenic mice</p>	<p>Analyses of defined mutations in specific genes are crucial to understanding the in vivo function of molecules expressed during development, in cell and tissue maintenance and repair processes, and in various diseases such as cancer, multiple sclerosis, or viral infection.</p>
Estonia	<p>Estonian University of Life Sciences</p> <p>https://www.emu.ee/en/</p>	<p>Institute of Agricultural and Environmental Sciences</p> <p>Institute of Veterinary Medicine and Animal Sciences</p>	<p>Sheep, ewes, free-ranging moose (<i>Alces alces</i>), beef cattle, pigs, cats</p>	<p>Veterinary medicine, aquaculture, animal science, and meat and dairy technology, with special emphasis on the capability and flexibility of modern teaching and research activities to respond to the needs of the agricultural and food industry. animal nutrition, animal production, including aquaculture, animal genetics and breeding, reproductive biology, biotechnology, normal and pathological morphology, animal health, infectious and invasive diseases, therapy, food hygiene, food technology, and other subject areas related to animal science and veterinary medicine.</p>
Finland	<p>University of Helsinki</p> <p>https://www.helsinki.fi/en</p>	<p>the Faculty of Biological and Environmental Sciences</p> <p>Faculty of Veterinary Medicine</p>	<p>Mice, rats</p>	<p>Animal well-being, sustainable use of natural resources and mitigation of harmful environmental impact are guiding us in developing animal production for future food security. Animal phenotype and genotype analyses are utilizing Big Data methodology. Their research is focused on 1) animal product quality and environmental footprint, 2) feed preservation and alternative feed sources, 3) nutrition physiology and well-being of farm animals, 4) selection programmes and 5) utilization of genomic information, Their five focus areas reflect the strategic divisions and the long-standing research interests of our PI's. Research projects can be found under following focus areas 1) animal product quality and environmental footprint, 2) feed preservation and alternative feed sources, 3) nutrition physiology and well-being of farm animals, 4) selection programmes and 5) utilization of genomic information.</p>

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France	Institute of Animal Breeding http://en.france-genetique-elevage.org/		Dairy cattle, goat, sheep, beef	Dairy cattle, goat, sheep, beef breed, genetics. genetic progress in livestock professions : Cattle, sheep and goat identification ; artificial insemination of cattle ; Parentage certification of cattle ; Performance recording of cattle ; Genetic evaluation of cattle
	Nantes-Atlantic National College of Veterinary Medicine, Food Science and Engineering (former National Veterinary School of Nantes) https://www.oniris-nantes.fr/	BIOEPAR - Unit of Biology, Epidemiology and Risk Analysis in Animal Health Unit of Animal Physiopathology and Functional Pharmacology Unit of Dermatology, Parasitology of Carnivores and Horses Mycology Unit of Farm Animal Medicine Unit of Histology and Veterinary Pathology Unit of Nutrition and Endocrinology (N&E) Unit of Reproduction Pathology and Biotechnologies Unit of Zootechnics and Economics Department of Biology, Pathology and Food Sciences Department of Control of Animal Health and Public Health Department of Farm Animal Health and Public Health	Cattle (dairy cattle), calves, pigs, goats, small animals (cats, dogs - Beagle dogs), poultry, small rodents	Animal physiology, reproductive endocrinology, neurophysiology, bovine tuberculosis, animal production, animal parasitology, veterinary parasitology, zoonoses, animal anatomy, veterinary anatomy, zoology, reproduction, animal nutrition. Modeling Tuberculosis Dynamics, Detection and Control in Cattle Herds, Levers to reduce antibiotic use in French beef farming, A large outbreak of bovine botulism possibly linked to a massive contamination of grass silage by type D/C Clostridium botulinum spores on a farm with dairy and poultry operations,
	National Centre of Agricultural Research (INRA) https://www.inrae.fr/		Cattle, Drosophila	Research topics lie at the crossroads between agriculture, food, and the environment. Animal feed tables provide essential information used to calculate rations and assess production levels given an established ration. Animal pain: identifying, understanding and minimising pain in farm animals, Quality of foods of animal origin based on production and processing conditions, Analyses of dairy cow behaviour on farms that use automatic milking machines show that cows “work”, make decisions, and take initiatives that can make a farmer’s life easier or harder.
	National Veterinary School of Lyon http://www.vetagro-sup.fr/	Department of Agriculture and Spaces The Department of Animals , Recreation and Sport	Small animals (cats, dogs), horses, sheep, cattle	Animal science, veterinary medicine animal, breeding animal, genetics, parasitology, animal production, pathological anatomy, histology, surgery of animals and equines, internal medicine - medical pathology of animals and equines, reproduction.
Germany	Bavarian State Research Center for Agriculture (LfL)	Institute for Agricultural Engineering and Animal Husbandry Institute for Animal Breeding Institute for Animal Nutrition and Feed Management Institute for Fisheries	Small animals (dogs), fishes, poultry, sheep (Scottish Blackface sheep, British Texel sheep), cattle, Fleckvieh (German Simmental) bulls, Indian muntjac, and Chinese muntjac, chickens, mice, Bavarian fattening pigs, broilers, goats	<p>The Bavarian animal breeding supports local breeds and a close connection between farmers and organizational structures. In order to meet the challenges of globalization the Bavarian breeding strategy uses simultaneously innovative and sustainable methods to improve genetics. The main target in animal nutrition is an adequate supply with energy, nutrients, minerals and trace elements. This leads to healthy, and highly productive livestock farming. The benefit is safe and high-quality food production which has a low impact on our environment and guarantees competitive animal husbandry. Inland fisheries in the Federal State of Bavaria includes river and lake fisheries as well as aquaculture production. The sustainable management of natural and man-made waterbodies is carried out in accordance to the state’s fisheries legislation, which aims at conserving the abundance of species and providing for stable and well-adapted fish-populations. Based on this, aquatic systems can provide stable natural yields for business and recreational purposes in the long run. In specifically adapted production systems a wide array of species is produced for either direct human consumption or stocking of (natural) water bodies (aquatic systems). Special attention is paid to aspects of breeding and larval rearing of endangered species. Efficient production systems are the basis for a competitive and sustainable agriculture in Bavaria. This is generally true for all types of agriculture, either for food production, feed management or renewable energy. The institute is involved in modern and efficient systems for crop production and animal husbandry which provide safe and quality food and raw materials and protect natural resources. This means that the economic efficiency is just as important as environmental aspects and social conditions under which people live and work.</p> <p>The issues of the Institute for Agricultural Engineering and Animal Husbandry are production systems for different crops as well as livestock farming and environmental engineering in the fields of biogas and emissions/imissions. Identification of the amino acids in the Major Histocompatibility Complex class II region of Scottish Blackface sheep that are associated with resistance to nematode infection, Association of MHC class II haplotypes with reduced faecal nematode egg count and IgA activity in British Texel sheep, Comparative gene mapping in cattle, Indian muntjac, and Chinese muntjac by fluorescence in situ hybridization, Use of milk samples from a milk evaluation for the genotyping of cows, Chromosomal Mapping of Adenosine Receptor Genes in Chicken Suggests Clustering of Two Members of the Gene Family, Cell survival following bone anterior cruciate ligament bone allograft transplantation: DNA fingerprints, segregation, and collagen morphological analysis of multiple markers in the canine model, Multilocus fingerprint bands are associated with the growth performance in selected mouse lines: Linkage analysis in reference families, Influence of dietary energy concentration and body weight at slaughter on carcass tissue composition and beef cuts of</p>

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			modern type Fleckvieh (German Simmental) bulls, Adventitious bursitis in Bavarian fattening pigs housed conventionally, Genomic selection in the German Landrace population of the Bavarian herdbook, Trypsin inhibitor activity in soybean depresses massively prececal amino acid digestibility in broilers, Setting up a breeding value estimation for dairy goats in Germany
<p>Leibniz Institute for Farm Animal Biology (FBN)</p> <p>(Research Institute for the Biology of Farm Animals)</p> <p>https://www.fbn-dummerstorf.de/en/</p>	<p>Institute of Genetics and Biometry Institute of Genome Biology Institute of Reproductive Biology Institute of Behavioural Physiology Institute of Muscle Biology and Growth Institute of Nutritional Physiology "Oskar Kellner" Research Group Epigenetics, Metabolism and Longevity</p>	<p>Cattle, calves, pigs, hens and quails, salmonid fishes, horses, Swiss White Alpine sheep</p>	<p>Developing and optimising statistical methods for the modelling, planning and evaluation of experiments and their application in the selection and breeding of farm animals (integration of information from genome analysis)</p> <p>Clarification of the genetic and epigenetic fundamentals of the occurrence and inheritance of select characteristics (disease resistance/immune competence, fertility and specific metabolic performance) that determine the productivity of farm animals, with the goal of deriving effective selection criteria and methods, clarification of regulation mechanisms in ovarian follicle and egg cell development, as well as researching embryo/foetus development processes and the interactions between the embryo/foetus and dam, investigating psychoneuroendocrine and immune biology consequences of dealing with stress as well as the ethophysiology of cognitive and bioacoustic behaviour in farm animals, researching the genetic/physiological fundamentals of myogenesis and adipogenesis as well as the influence of breeding, feeding and husbandry on muscle growth and meat quality</p>
<p>University of Giessen</p> <p>https://www.uni-giessen.de/welcome</p>	<p>Faculty of Biology and Chemistry Faculty of Agricultural Sciences, Nutritional Sciences and Environmental Management Faculty of Veterinary Medicine Research Centres and Facilities: Biomedical Research Centre Seltersberg (BFS) International Giessen Graduate Centre for the Life Sciences (GGL) Research Centre for BioSystems, Land Use and Nutrition (iFZ) Icar3R – Interdisciplinary Centre for 3Rs in Animal Research, 3R-Centre JLU Giessen</p>	<p>Small animals (dogs, cats), dwarf rabbits, ruminants, cattle, European, Middle Eastern, and African sheep, camelids, rats, mice</p>	<p>Reproduction, neuroendocrinology, veterinary science, animal production, animal husbandry, animal nutrition, ruminant nutrition, animal genetics, physiology.</p>
<p>University of Göttingen</p> <p>https://www.uni-goettingen.de/en/1.html</p>	<p>Faculty of Agricultural Sciences Faculty of Biology and Psychology Department of Animal Ecology Department of Developmental Biology Department of Genomic and Applied Microbiology Department of Molecular Microbiology and Genetics Division of Animal Breeding and Genetics Division of Animal Nutrition Division of Reproduction and Biotechnology of Livestock Bernstein Center for Computational Neuroscience Göttingen (BCCN) European Neuroscience Institute (ENI) Göttingen Center for Molecular Biosciences (GZMB) Leibniz-ScienceCampus Primate Cognition Centre of Biodiversity and sustainable Land Use Center for Integrated Breeding Research Centre for Nanoscale Microscopy and Molecular Physiology of the Brain (CNMPB) Center for Systems Neuroscience Institute of Veterinary Medicine Research Center for Animal Production and Technology</p>	<p>Ruminants, birds, fishes - rainbow trout (Oncorhynchus mykiss) and Nile Tilapia (Oreochromis niloticus), cattle, sheep, chickens, horses, rats, mice, Boer goats</p>	<p>Animal production, animal breeding, animal genetics, zoology, reproduction, gastrointestinal diseases, ornithology, herpetology, biodiversity, animal husbandry, animal production, fish breeding, aquaculture, fisheries, fisheries science.</p> <p>Functional and genomic characterization of hatching ability in hairless chickens, Equine immunoglobulins and organization of immunoglobulin genes.</p>
<p>University of Leipzig</p> <p>https://www.uni-leipzig.de/en/</p>	<p>Faculty of Veterinary Medicine Institutes & Facilities: Centralized faculty body Institute of Immunology Institute of Food Hygiene Institute of Parasitology Institute of Pharmacology, Pharmacy and Toxicology Institute of Animal Nutrition, Nutrition Diseases and Dietetics Institute of Animal Hygiene and Veterinary Public Health Institute of Pathology Department for ruminants and swine Department for small animal Department for horses Department for birds and reptiles</p>	<p>Ruminants, pigs, small animals (dogs cats), horses, birds, reptiles, crickets, Drosophila, honey bees (Apis mellifera)</p>	<p>Projects and publications: Diseases and Integrity of the GastroIntestinal Tract (DIGIT), Integrated lung and airway research (iLAF), Model Systems, Orthopedic Research, Veterinary Science and Education (MOVE), Translational Research on Neurogenesis, Degeneration and Inflammation (TFN), Civilization diseases, infection prophylaxis, consumer protection, nutrition / epidemiology, animal protection (ZIVET). Pre-adult aggression and its long-term behavioural consequences in crickets, The Claudin-like Megatrachea Is Essential in Septate Junctions for the Epithelial Barrier Function in Drosophila, A cell surface protein controls endocrine ring gland morphogenesis and steroid production, Dm5-HT2B: Pharmacological Characterization of the Fifth Serotonin Receptor Subtype of Drosophila melanogaster, Large-scale monitoring of effects of clothianidin-dressed oilseed rape seeds on pollinating insects in Northern Germany: effects on honey bees (Apis mellifera), Expression of the cobalamin receptor subunit AMN in dogs with idiopathic inflammatory bowel disease, Analytical validation of an enzyme-linked immunosorbent assay for the quantification of S100A12 in the serum and feces of cats.</p>

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		Oberholz Farm for Teaching and Research Institute of Anatomy, Histology and Embryology Institute of Physiology		
	University of Munich https://www.en.uni-muenchen.de/index.html	Faculty of Biology Faculty of Veterinary Medicine Research Centers: ArchaeoBioCenter Animal Welfare Information Center for Biomedical Research (TIZ-BIFO) BioImaging Center (biz) BioImaging Network Center for Integrated Protein Science Munich (CIPSM) Center for International Health (CIH-LMU) Center for Neuropathology (ZNP) Gene Center Munich GeoBio-Center Maier-Leibnitz-Laboratory (MLL) Multimedia Language Laboratory (Sprachenzentrum) Munich Arts Research Centre (MARC) Munich Center for Editorial Theory (MüZE) Munich Center for Islamic Studies (MZIS) Munich Center for Mathematical Philosophy (MCMP) Munich Center for Neurosciences - Brain and Mind (MCN) Munich Center for Teacher Education (MZL) Munich Center of Ancient Worlds (MZAW) Munich Center of Health Sciences (MC-Health) Munich Center of the Learning Sciences (MCLS) Munich Center for Organelle Research (CORE) Munich Centre for Advanced Photonics (MAP) Munich Center on Governance, Communication, Public Policy and Law (MCG) Munich Center for Ethics (MKE) Munich Experimental Laboratory for Economic and Social Sciences (MELESSA) Munich Geo Center Munich Risk and Insurance Center (MRIC) Munich School of Ancient Philosophy (MUSAP) Nanosystems Initiative Munich (NIM) Rachel Carson Center ReproZentrum Walter Brendel Center of Experimental Medicine (WBex) Zentrum für Buchwissenschaft: Buchforschung – Verlagswirtschaft – Digitale Medien (ZfB)	Transgenic mice, rats, small animals (dogs, cats), cattle, cows, broilers, horses, pigs, snow sheep (<i>Ovis nivicola</i>), thinhorn sheep (<i>Ovis dalli</i>), <i>Drosophila</i>	Genetics, neurobiology, endocrinology, animal breeding, animal physiology, animal behavior, reproductive biology, systematic biology, cell biology, zoology. autoimmune disease, parasitic diseases, infectious disease transmission, zoonotic diseases, metabolism, metabolic diseases, animal nutrition, diabetes, cattle breeding, dairy science, poultry science, equine nutrition, animal anatomy, histology, taxonomy, Projects and publications: Relationships between scores of the feline temperament profile and behavioural and adrenocortical responses to a mild stressor in cats, Effects of Vitamin E, Vitamin C and Mannanoligosaccharide Supplements on Performance and Immune System in Broiler Chicks, Influence of two different stressors, weaning and immunization, on the plasma histamine level of organic farming piglets, What Happens with Cow Behavior When Replacing Concrete Slatted Floor by Rubber Coating: A Case Study, Rank correlated use of soft flooring by dairy cattle, Effect of moderate stress on plasma histamine concentration in laboratory dogs, Influence of different training and outdoor conditions on plasma histamine and cortisol concentrations in search-and-rescue dogs, Histamine metabolism and polyamines Release and permeation of histamine are affected by diamine oxidase in the pig large intestine, CD11d is a novel antigen on chicken leukocytes, Proteome profile of neutrophils from a transgenic diabetic pig model shows distinct changes, Miscellaneous vitreous-derived IgM antibodies target numerous retinal proteins in equine recurrent uveitis, Influence of the genetic background on the diabetic phenotype and postnatal development of the endocrine pancreas of GIPRdn transgenic mice, Age-related Qualitative Histological and Quantitative Stereological Changes in the Equine Pituitary, Effects of the glucagon-like peptide-1 receptor agonist liraglutide in juvenile transgenic pigs modeling a pre-diabetic condition, Low-carbohydrate, high-fat diets have sex-specific effects on bone health in rats, Acaricide treatment prevents adrenocortical hyperplasia as a long-term stress reaction to psoroptic mange in cattle, Multiple Glucagon-Producing Pancreatic Neuroendocrine Tumors in a Horse (<i>Equus caballus</i>), Pathogenesis of diabetes mellitus and diabetic complications : Studies on diabetic mouse models, The first draft genome assembly of Snow sheep (<i>Ovis nivicola</i>), The first complete mitochondrial genomes of snow sheep (<i>Ovis nivicola</i>) and thinhorn sheep (<i>Ovis dalli</i>) and their phylogenetic implications for the genus <i>Ovis</i> , Evaluation of different analytical methods to assess failure of passive transfer in neonatal calves, international Veterinary Epilepsy Task Force recommendations for systematic sampling and processing of brains from epileptic dogs and cats, ATAC-seq reveals regional differences in enhancer accessibility during the establishment of spatial coordinates in the <i>Drosophila</i> blastoderm, Xeno-organ donor pigs with multiple genetic modifications – the more the better?
Greece	Aristotle University of Thessaloniki https://www.auth.gr/en	Faculty of Sciences: School of Biology Faculty of Health Sciences: School of Veterinary Medicine	Birds, pigs	Animal husbandry and farm animal nutrition, animal products technology, animal products hygiene, artificial insemination and pathology of animal reproduction, aviculture and pathology of birds, breeding and pathology of pigs, microbiology and infectious diseases, parasitology and parasitic diseases, pathological anatomy veterinary pathology, and veterinary surgery, genetics, developmental and molecular biology, conservation biology, zoology.
Hungary	Szent Istvan University http://sziu.hu/	Faculty of Agricultural and Environmental Sciences Institute of Animal Science and Animal Husbandry Institute of Genetics and Biotechnology Research Department of Aquaculture Department of Animal Nutrition	Broiler chickens, fishes: zebrafish (<i>Danio rerio</i>), Adriatic grayling (<i>Thymallus thymallus</i>). common carp (<i>Cyprinus carpio</i> L.), African catfish (<i>Clarias gariepinus</i>). Collembola: Isotomidae, dairy cows, European pond turtle (<i>Emys orbicularis</i>)	Animal nutrition, animal science, zoology, fisheries science, fisheries biology, reproduction, dairy science, Projects and publications: Effect of garlic oil supplementation on the glutathione redox system of broiler chickens fed with T-2 toxin contaminated feed, Short-term effects of deoxynivalenol, T-2 toxin, fumonisin B1 or ochratoxin on lipid peroxidation and glutathione redox system and its regulatory genes in common carp (<i>Cyprinus carpio</i> L.) liver, Distinct changes in the life-history strategies of <i>Folsomia candida</i> Willem (Collembola: Isotomidae) due to multi- and transgenerational treatments with an insecticide, Qualifying the T-2 Toxin-Degrading Properties of Seven Microbes with Zebrafish Embryo Microinjection Method, Biological evaluation of microbial toxin degradation by microinjected zebrafish (<i>Danio rerio</i>) embryos, Estrogen sensitive liver transgenic zebrafish (<i>Danio rerio</i>) line (Tg(vtg1:mCherry)) suitable for the direct detection of estrogenicity in environmental samples, Very low sperm-egg ratios result in successful fertilization using cryopreserved sperm in the Adriatic grayling (<i>Thymallus thymallus</i>), New observations about the fertilisation capacity and latency time of sperm inseminated into the ovary of African catfish (<i>Clarias gariepinus</i>), an oviparous model fish, Subacute ruminal

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				Acidosis in dairy cows - physiological background, risk factors and diagnostic methods, Behavioural Responses of Primiparous and Multiparous Dairy Cows to The Milking Process over an Entire Lactation, Basking activity pattern of the European pond turtle, Emys orbicularis (Linnaeus, 1758) in Babat valley (Gödöllő, Hungary).
	<p>University of Veterinary Medicine Budapest</p> <p>https://univet.hu/en/</p>	<p>Department and Clinic of Reproduction Department of Animal Breeding and Genetics Department of Animal Hygiene, Herd health and Veterinary Ethology Department of Animal Nutrition Department of Exotic Animal and Wildlife Medicine Department of Parasitology and Zoology Department of Pharmacology and Toxicology Institute for Animal Breeding, Nutrition and Laboratory Animal Science Institute for Biology</p>	<p>Rodents (mice, rats), pigs, elephants, sharks, small animals (dogs, cats), honey bees, sheep, chickens</p>	<p>Animal Breeding (horse and cattle breeding), Pathology, Pharmacology, Toxicology, Microbiology, Pathophysiology, Parasitology, Animal Nutrition, Veterinary Medicine, Surgery, Obstetrics, Food Hygiene, Forensic Veterinary Medicine, Animal Hygiene, Epizootology, Anatomy, Histology, Embryology, Zoology, Physiology, Biochemistry, Ethology, Projects and publications: A probiotic approach for the prevention of LPS-induced inflammation in the IPEC-J2 intestinal epithelial cell model, Possible effects of pituitary adenylate cyclase activating polypeptide (PACAP) on early embryo implantation marker HB-EGF in mouse, Sex determination using circulating cell-free fetal DNA in small volume of maternal plasma in elephants, shark's conditioning in captivity, dirofilariosis, toxocarosis, worms of pet animals, development of new diagnostic tools and the possible ways of protection in the PRRS of swine, diversity of domestic animals (quantitative and molecular genetical characterisation of diversity in domestic animal populations), diseases of fish, diseases of exotic species and wildlife, genetic diversity of canine and feline parvoviruses (as a result of regular vaccinations, new genetic and antigenic structural variants of parvoviruses are appearing in immunized animals. The object is to characterize these variants and to determine potential vaccine candidates), viral diseases of honey bee, vitrification of sheep embryos, study on factors influencing the outcome of vitrification (vitrification of sheep embryos) and the viability of frozen / thawed embryos are tested with different parameters: apoptotic and anti-apoptotic genes, DNA integrity, expression of developmental specific genes. Vitrification of embryos in medium supplemented with anti-oxidants and cytoskeletal stabilizing substances and evaluation of survival with the determination of the above mentioned parameters. Vitrification of embryos in medium supplemented with anti-oxidant materials and evaluation of the viability with the determination of different parameters), alternative techniques for the eradication of Campylobacter jejuni in broiler flocks (establishment of alternative eradication techniques against the zoonotic C. jejuni is of special importance in broiler flocks, from food safety point of view as well. It is aimed to test the antibacterial efficacy of novel candidates, such as butyrate and plant-derived bioactive components on C. jejuni colonization in vitro. Cooperation with the Georgikon Faculty, University of Pannonia (Prof. Károly Dublicz, Dr. Andor Molnár) and with the Clinic for Poultry, University of Veterinary Medicine, Vienna ; Arthropod vectors and vector-borne diseases of domesticated animals, avian nephritis (the occurrence of an infectious chicken disease, the Avian Nephritis was suspected to be present in Hungary from the early '70es, but the evidence was provided by a PCR based diagnostic method developed recently. The infectious nephritis is a component of the so called "baby chick nephropathy", referring to the localization and early appearance of the symptoms. The chickens from the third day after hatching develop diarrhea and weakness following per oral infection: retarded growth is observed from the second week post infection. The mortality is usually low, except those cases where the tubular epithelium of the kidney is damaged due to the virus replication, nephro-nephritis develops and the regressive changes result in uricosis (gout). The loss of the disease may be decreased or prevented if predisposing factors (such as keeping problems or malnutrition) are recognized and eliminated), cardiology, ultrasonography, digital phonocardiography, echocardiography, e-learning teaching methods, canine heartworm disease, Cultivation and examination of primary hepatocytes from rat and chicken.</p>
Ireland	<p>University College Dublin</p> <p>https://www.ucd.ie/</p>	<p>UCD College of Health and Agricultural Sciences: UCD School of Agriculture and Food Science, UCD School of Veterinary Medicine UCD College of Science: UCD School of Biology and Environmental Science, UCD School of Biomolecular and Biomedical Science</p>	<p>Cows, sheep, ewe, lamb, cattle, Atlantic salmon (Salmo salar), Irish brown crab (Cancer pagurus), raw salmon (Salmo salar), cod (Gadus morhua), Xenopus, horses</p>	<p>Food and health, healthy functional foods, animal health, reproductive biology, sustainable production, food chain integrity (food safety, food regulation and raceability), precision agriculture, bioeconomy. They are partnering with industry to create safe, sustainable, novel foods that promote human health and also working with industry to create 'farms of the future', where smart and precision agriculture practices will greatly increase production and reduce waste. With their expertise in veterinary medicine, they are helping the community to fight disease in livestock and to promote animal welfare. The Reproductive Biology Research Cluster is a research initiative focused on investigating solutions to reproductive problems in cattle. The Role of Oxidative Stress in the Development of Diabetes Mellitus and Its Complications.</p>

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Italy	University of Padua https://www.unipd.it/en/	School of Agricultural Sciences and Veterinary Medicine Department of Agronomy, Food, Natural Resources, Animals and Environment Department of Animal Medicine, Production and Health Department of Biomedical Sciences Department of Neurosciences Department of Surgery, Oncology and Gastroenterology School of Science: Department of Biology	Mice, Trinidadian guppy (<i>Poecilia reticulata</i>), zebrafish, microorganisms, invertebrates, insects and small vertebrates	Physiology, animal husbandry, cellular and molecular biology, physiology, molecular pathology and experimental pharmacology, with implications for genetic and degenerative diseases, inflammatory processes and tumours, the threat of diseases transmitted by live animals, and to control the quality and safety of animal foodstuffs, genetics, oncology, abdominal transplants, geriatrics, endocrinology, urology, orthopaedics), oncology and immunology, and gastroenterology, zoology, reproductive biology of fishes with emphasis on behavioural ecology, sexual pattern, morphology of the reproductive apparatus, and development of secondary sexual traits.
Latvia	Latvia University of Life Sciences and Technologies https://www.llu.lv/en	Faculty of Agriculture Faculty of Veterinary Medicine Division of Molecular Biology and Microbiology The Local Breed Domestic Animal Gene Bank	Cattle, horses, sheep, pigs, goats	Molecular genetics, the horse-breeding, fishing, veterinary medicine, animal husbandry, animal diseases, diagnoses them, carries out treatments, prophylaxis and abatement, as well as supervises and controls hygiene of food products in the country and prevents illnesses common for both people and animals. Animal diseases, diagnoses them, carries out treatments, prophylaxis and abatement, as well as supervises and controls hygiene of food products in the country and prevents illnesses common for both people and animals. The Gene bank stores samples of biological material (blood and DNA) of various farm animal species (cattle, horses, sheep, pigs and goats). The aim is to preserve and study local endangered breeds to conserve genetic resources. Local endangered breeds are their national treasure and the task is to promote the breeding of these animals to ensure the preservation of genetic diversity in Latvia.
Lithuania	Lithuanian University of Health Sciences https://ismuni.lt/en/	Veterinary Academy: Faculty of Veterinary Medicine: Departments: Department of Anatomy and Physiology, Department of Veterinary Pathobiology, Department of Food Safety and Quality	Birds, exotic animals, domestic animals	Animal reproduction, veterinary food safety, food science, livestock technology, animal science, medical and veterinary genetics and medical and veterinary biochemistry. Anatomy, applied biology and laboratory animals, cell biology, histology and embryology, bird anatomy and histology, world biodiversity, animal physiology, veterinary immunology and virology, laboratory and exotic animals, morphology, human and animal physiology, histology of domestic animals and birds, world biodiversity and immunology, laboratory animal anatomy, bioethics and animal science, cell biology, animal infectious and zoonotic diseases. Antigenic and pathogenic characterization of porcine reproductive and respiratory syndrome (PRRSV) virus in wild boars, The application of non-invasive measures for the evaluation of the physiological state of the mammary gland and the presentation of recommendations for the identification early pathologies of udder in the milk production process.
Macedonia	Saints Cyril and Methodius University of Skopje http://www.ukim.edu.mk/en_index.php	Faculty of Agricultural Sciences and Food Faculty of Veterinary Medicine Institute of Agriculture Institute of Cattle-breeding	Balkan goats, sheep, birds (laying hens, broilers), rats, pigs, cattle	Projects and publications: Accuracy of ac and at methods in milk recording in the balkan goats breed in Macedonia, The accuracy of A4 and AC methods for determining lactation in control day in threefold milking of awassi breed of sheep, A comparison of egg weight and egg shell strength 7 in two genotypes of laying hens, A Moderate Increase in Ambient Temperature Influences The Structure and Hormonal Secretion of Adrenal Glands in Rats, Global transcriptome analysis of porcine oocytes in correlation with follicle size, microRNA expression profile in porcine oocytes with different developmental competence derived from large or small follicles, The Effects of Prenatal Dexamethasone on the Rat Pituitary Gland and Gonadotropic Cells in Female Offspring, Effect of t-2 mycotoxin on glut-2 expression in the broiler's gastrointestinal tract, Comparative Study of Glucose Transporters GLUT-2 and GLUT-5 in Ostriches Gastrointestinal Tract.
Norway	Norwegian University of Life Sciences https://www.nmbu.no/en	Faculty of Chemistry, Biotechnology and Food Science Faculty of Environmental Sciences and Natural Resource Management Faculty of Veterinary Medicine	Pigs, arctic foxes (<i>Vulpes lagopus</i>), wild bees,	Projects and publications: Label-free based quantitative proteomics analysis of primary neonatal porcine Leydig cells exposed to the persistent contaminant 3-methylsulfonyl-DDE, Concentrations and patterns of hydroxylated polybrominated diphenyl ethers and polychlorinated biphenyls in arctic foxes (<i>Vulpes lagopus</i>) from Svalbard, Power line clearings in forest landscapes are valuable habitats of wild bees.
Portugal	University of Lisbon https://www.ulisboa.pt/en	School of Agriculture Food, Farming and Forestry College (F3) Faculty of Veterinary Medicine	Spiders (Araneae), fishes, zebrafish, rats, rabbits	Fisheries science, fish ecology, animal anatomy, comparative anatomy, ornithology, biodiversity, neurobiology and brain physiology, behavioral neuroscience, marine environment, Projects and publications: Self-reported symptoms of depression, anxiety and stress in Portuguese primary school-aged children, The environment contribution to gender differences in childhood obesity and organized sports engagement, Species conservation profiles of spiders (Araneae) endemic to mainland Portugal, An update to

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				<p>the Iberian spider checklist (Araneae), Long-tailed Glossy Starling Lamprotornis caudatus feeding on live marine fish in the Bijagós Archipelago, Guinea-Bissau, Therapeutic effects of IκB kinase inhibitor during systemic inflammation, Non-invasive ECG recording for zebrafish, Reversing gene expression in cardiovascular target organs following chronic depression of the paraventricular nucleus of hypothalamus and rostral ventrolateral medulla in spontaneous hypertensive rats, Chronic depression of hypothalamic paraventricular neuronal activity produces sustained hypotension in hypertensive rats, Role of vagal stimulation on atrial refractoriness and vulnerability for the induction of atrial fibrillation in the anaesthetised rabbit.</p>
	<p>University of Porto https://sigarra.up.pt/up/en/web_base.gera_pagina?p_pagina=icbas</p>	<p>Abel Salazar Biomedical Sciences Institute Faculty of Sciences</p>	<p>Cattle, Mangalitzza pigs, amphibians, reptiles, small animals (dogs), zebrafish, European seabass (Dicentrarchus labrax), horses, rats</p>	<p>Projects and publications: Extended-spectrum beta-lactamase (ESBL)-producing Enterobacteriaceae in cattle production - a threat around the world, Altered serotonin innervation in the rat epileptic brain, The footprint of recent and strong demographic decline in the genomes of Mangalitzza pigs, Realized niche modelling uncovers contrasting responses to fire according to species-specific biogeographical affinities of amphibian and reptile species, The Use of Specific Serological Biomarkers to Detect CaniLeish Vaccination in Dogs, Linking chemical exposure to lipid homeostasis: A municipal waste water treatment plant influent is obesogenic for zebrafish larvae, Commonality of Multidrug-Resistant Klebsiella pneumoniae ST348 Isolates in Horses and Humans in Portugal, Processed animal by-products as sustainable ingredients in diets for European seabass (Dicentrarchus labrax), Blockade of dopamine D2 receptors disrupts intrahippocampal connectivity and enhances pain-related working memory deficits in neuropathic pain rats, Physical exercise mitigates high-fat diet-induced adiposopathy and related endocrine alterations in an animal model of obesity, Regular voluntary running has favorable histological effects on doxorubicin-induced kidney toxicity in Wistar rats, Water supply and feed as sources of antimicrobial-resistant Enterococcus spp. in aquacultures of rainbow trout (Oncorhynchus mykiss), Portugal.</p>
Romania	<p>Ion Ionescu de la Brad University of Agricultural Sciences and Veterinary Medicine of Iași http://www.uaiasi.ro/index.php?lang=en</p>	<p>Faculty of Agriculture Faculty of Animal Sciences Faculty of Veterinary Medicine</p>	<p>Cattle, fishes, reptiles, ruminants, sheep, poultry, dogs, cats, grey Guinea Fowl (Numida Meleagris), goats, mice (Mus musculus)</p>	<p>a) Animal Husbandry specialization:</p> <ul style="list-style-type: none"> - genetic improvement of farm animals; - improvement of animal feeding in order to have high quality products and to ensure the environmental protection; - improvement of animal product quality, quality management and food safety; - improvement of technologies of breeding and exploitation of animals in order to ensure comfort in accordance with the European standards; - conducting behavioural studies, in order to determine the best conditions of animal breeding and exploitation; - food autonomy and mineral balance within dairy farms for milk cows, according to the production system. <p>b) Pisciculture Domain:</p> <ul style="list-style-type: none"> - genetic improvement of valuable fish varieties; - piscicultural bio-technologies; - preservation of piscicultural genotype. <p>Veterinary Medicine domain</p> <p>The scientific research tackles all the domains of veterinary medicine, being directed towards:</p> <ul style="list-style-type: none"> - cellular and molecular biology; - food safety and public health; - fundamental research of animal morpho-physiology and morpho-pathology; - research regarding animal disease prevention and control. <p>The major themes of research refer to:</p> <ul style="list-style-type: none"> - the viability of endothelial cells in shock syndrome; - histophysiology of hypothalamus and hypophysis;

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				<ul style="list-style-type: none"> - the role of silicon in arteriosclerosis prevention; - food poisoning caused by: clostridium, Listeria, Campylobacter, Bacillus cereus, Salmonella, Staphylococcus; - diseases produced by myco-toxines; - Orthomyxoviruses' influence on animal pathology; - the culture and pathology of aquatic organisms (fish, mollusks, crustaceans); - compared oncology. <p>Projects and publications: Kappa-Casein Genetic Variants and their Relationships with Milk Production and Quality in Montbéliarde Dairy Cows, Influence of electrical stunning voltage on bleed out, sensory parameters and color in chicken meat quality, Research regarding the reproductive capacity and biotechnologies of cows, Research on productive performances of grey Guinea Fowl (Numida Meleagris), Estimation of the heterosis effect for the production of meat in goats, The Modulation of Oxytocin and Cortisol Levels in Major Depression Disorder and Irritable Bowel Syndrome, Evaluation of the Effect of Red Onion Extract Consumption in Mice (Mus musculus), Comparative aspects of liver tumors diagnosed through clinical, imaging and laboratory methods in cats and dogs.</p>
	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca https://www.usamvcluj.ro/	Faculty of Agriculture Faculty of Animal Science and Biotechnologies Faculty of Veterinary Medicine	Small animals, cattle, Wistar rats, dogs, boid snakes, cockatiel (Nymphicus Hollandicus), lizards, horses, cows, bats, rabbits, reptiles, Golden Jackal (Canis aureus), guinea pigs, chinchillas	Veterinary science, histology, reproductive biology, animal genetics, parasitology, Projects and publications: Urinary N-Acetyl-Beta-D-Glucosaminidase Index Activity Normal Values in Healthy Wistar Rats, Melatonin and erythropoietin prevents gentamicin induced nephrotoxicity in rats, Clinical and pathological effects of Dirofilaria repens and Dirofilaria immitis in a dog with a natural co-infection, The influence of ascorbic acid on in vitro maturation of canine oocytes, Ultrasonographic Aspect of Coelomic Organs in Boid Snakes, Description Of An Anaplastic Rhabdomyosarcoma In A Cockatiel (Nymphicus Hollandicus), Surgical Managemet of Dystocia in Snakes and Lizards, Serological Reactivity to Borrelia burgdorferi Sensu Lato in Dogs and Horses from Distinct Areas in Romania, The effect of watering frequency on the welfare quality of dairy cow, Bats, climate, and air microorganisms in a Romanian cave, Evaluation of the gametotoxic effect of nandrolone decanoate on the gametogenic function of male rabbit, Prevalence and intensity of blood apicomplexan infections in reptiles from Romania, First Identification of Trichinella sp. in Golden Jackal (Canis aureus) in Romania, Comparative features of the mucous glands in the gastroduodenal junction in guinea pigs and chinchillas: microanatomy and histochemistry.
Russia	All-Russian Research Institute of Farm Animal Genetics and Breeding http://vniigen.ru/		Chickens	Study of molecular genetic mechanisms for the implementation of signs of egg production in chickens, Identification of the mechanisms that determine the fertility of the egg, and the identification of biomarkers of nuclear-cytoplasmic maturation of Bos Taurus and Sus Scrofa Domesticus oocytes for the intensification of cellular reproductive Technologies, Study of physiological and biochemical changes in reindeer spermatozoa during cooling and freezing, for the development of sperm cryopreservation technology for the long-term preservation of biological resources in the Arctic
	University of St. Petersburg https://english.spbu.ru/	Faculty of Biology	Fishes, insects: Cassida rubiginosa Müll. and C. stigmatica Sffr. (Coleoptera: Chrysomelidae), chicks	Genomics, transcriptomics, proteomics, fish breeding, and nature protection to name but a few, the students get access to the opportunities the Research Park offers to be at the forefront of research, communication with the international scientists, and field stationaries (from the Polar Regions to Subtropics), Effects of Temperature and Photoperiod on the Immature Development in Cassida rubiginosa Müll. and C. stigmatica Sfr. (Coleoptera: Chrysomelidae), Mechanisms Underlying the Resistance of Genetic Material of the Animal Cell to Stress Treatment, 3D organization of chicken genome demonstrates evolutionary conservation of topologically associated domains and highlights unique architecture of erythrocytes' chromatin

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Serbia	University of Novi Sad https://www.uns.ac.rs/index.php/en/	BioSense Institute Faculty of Agriculture Faculty of Sciences: Center of Excellence for Reproductive Endocrinology and Signaling (CeRES)	Pigs, cattle, dairy cows, poultry, broilers, hens, swans, small animals (dogs, even stray dogs), red foxes and golden jackals, fishes, rodents, goats, Lipe Zackel sheep	Biodiversity, habitat preservation, animal production, veterinary medicine, reproductive biology, animal (cattle) breeding, dairy science, animal and veterinary pathology, zoonotic diseases, parasitic diseases. Projects and publications: African swine fever: a review of cleaning and disinfection procedures in commercial pig holdings, Current Swine Respiratory Diseases Morphology in Intensive Swine Production in Serbia, Wild boar meat safety, Seroprevalence of Mycoplasma bovis in grazing dairy cows from five different areas in Serbia, Common pig diseases on commercial farms: a review, Morphological Differences of Pancreatic Lesions in Mute Swans and Hens Naturally Infected with Highly Pathogenic Avian Influenza Virus H5N8, Determination of Endoparasites by Faecal Examination in the Wild Boar Population in Vojvodina (Serbia), Comparison of analytical methods for the determination of histamine in reference canned fish samples, Avian pathogenic Escherichia coli: diagnosis, virulence and prevention, Molecular survey of Dirofilaria species in stray dogs, red foxes and golden jackals from Vojvodina, Breeding rams of endangered Lipe Zackel sheep - Assessment of some reproductive traits, Incidence of hydrometra in goats and therapeutic effects.
Slovakia	Slovak University of Agriculture in Nitra https://www.uniag.sk/en/main-page/	The Faculty of Agrobiolgy and Food Resources: Department of Animal Nutrition, Department of Human Nutrition, Department of Animal Husbandry, Department of Veterinary Sciences, Department of Poultry Science and Small Farm Animals, Department of Environment and Zoology Studies, Department of Genetics and Animal Breeding Biology Faculty of Biotechnology and Food Sciences: Department of Biochemistry and Biotechnolog, Department of Animal Physiology, Department of Technology and Quality of Animal Products, Department of Food Hygiene and Safety, Department of Microbiology AgroBioTech: Department of Agrobiolgy, Department of Food Technology and Biotechnology, Research Centre ABT CPU in Nitra, Research Centre ABT IPGB SAS in Nitra	Small ruminants, ZDF rats, fish (Cyprinus carpio), rabbits, horses,	Projects and publications: A Collaborative European Network on Rabbit Genome Biology, Antioxidant potential of natural substances in mitigating negative effect of environmental contaminants on animal cells, Detection of exogenous and endogenous regulators of animal reproductive functions, Effect of flavonoids and mycotoxins on adipose tissue. The influence of metabolic status, inflammation and oxidative stress, Molecular mechanisms of the effect of natural beneficial and toxic substances on animal cells, Renal disease in obesity and diabetes, the refinement of the European rabbit genome resource and the development of genome-based platforms, genetic aspects in meat, fur and pet rabbits and biodiversity resources, the rabbit as a model in basic biology and human diseases and as a tool for biotechnology applications and genetic and comparative genomic aspects for the study, exploitation and management of wild lagomorphs. The primary goal of the Laboratory of Molecular Biology is to understand biological processes in the bone tissues and its diseases, with the ultimate aim on estimation of genetic variability of specific human and animal traits. The Laboratory of Embryotechnology explores new options in nucleologenesis and <i>in vitro</i> production and evaluation of embryos used in biomedical research. The equipment in the Laboratory of Physiology and Anatomy allows biomonitoring of phthalanes from samples to tackle specific problems associated with human health and animal nutrition as well as proteomic analysis of epigenetic markers associated with early embryonic development in farmed animals. Biochemical Laboratory employs advanced techniques for determination of the concentration of heavy metals in water, plants and food, with particular aim on assessment of the intake and accumulation of toxic elements in living organisms. The laboratory performs also analyses of antioxidative and prooxidative characteristics of natural substances such as chlorophylls, carotenoids and polyphenols content in cells. The Laboratory of Biological Stress is suited to perform complex analyses of plant physiology during stress conditions. The research activities of scientific staff of both laboratories are focused on application of different biotechnological methods to obtain new genotypes and fast production of valuable species of crop plants and forest trees with the aim to contribute to food safety policy in our country. The research activities in the field of genomics and proteomics, by exploiting biotechnological approaches, will allow us to study the adaptation mechanisms to both biotic and abiotic stresses of environment. It is the key element required for breeding and agricultural production.
	University of Veterinary Medicine in Košice http://www.uvlf.sk/en	Department of Anatomy, Histology and Physiology Department of Biology and Genetics Institute of Biology, Zoology and Radiobiology: Institute of Genetics Department of Epizootology and Parasitology: Institute of Epizootology Institute of Preventive Veterinary Medicine and the Institute of Parasitology Department of Pathological Anatomy and Pathological Physiology: Institute of Pathological Anatomy Institute of Pathological Physiology	Farm animals (horse, ruminant animals, pigs, carnivores), dogs, laboratory animals (mouse, rat, rabbit) and fowl	Anatomy, Histology and Embryology, Physiology, cell and molecular biology, zoology, radiobiology, diagnostics and spread of protozoal infections, genetic prevention and environmental genotoxicity. The basic knowledge of the anatomy of man as well as laboratory animals, regulatory and integrative functions, the management of relationships between the organism and the environment, and between functional systems, potential genotoxic effects of agrochemicals (pesticides) in cultured peripheral lymphocytes of farm animals, Institute of Genetics also deals with molecular-genetics possibilities of detection and prevention of hereditary diseases in companion animals, particularly disorders of sexual development in dogs. As regards canine cancer (lymphomas), the research is concentrated on the detection of mutations in selected proto-oncogene and examination of expression of some canine genes,

	University name	Departments	Specialization	Subjects
		<p>Department of nutrition, dietetics and animal breeding: Institute of nutrition, dietetics and feed production Institute of animal husbandry The Institute of Breeding and Diseases of Game and Fish Department of the Environment, Veterinary legislation and Economy: Institute of Animal Hygiene and Environmental Protection, Institute of Forensic and Public Veterinary Medicine and Economy, Institute of Applied Ethology and Professional Ethics</p>		<p>nutrition, nutritional physiology and nutritional management of metabolic processes in the transient phases of the production and reproduction cycle with the main topic of nutritional prevention of health disorders of high producing animals. The Institute for Breeding and Diseases of Games and Fish closely cooperates with the purpose workplace for breeding and diseases of games, fishes and bees in Rozhanovce, participants in education of trainers for guide dogs. Institute provides teaching for the canis-therapists (Animal Assisted Therapy) and offers also training courses and consultations for the cynologists. Institute offers consultations to the owners of dogs and cats with behavioral disorders.</p>
Slovenia	<p>University of Ljubljana https://www.uni-lj.si/eng/about_university_of_ljubljana.aspx</p>	<p>Biotechnical Faculty Veterinary Faculty The Institute of Pathology, Wild Animals, Fish and Bees (hereinafter: IPDRC): Department of Pathology, Forensic and Administrative Veterinary Medicine (hereinafter: EPSUV) and the Department of Breeding and Healthcare of Wild Animals, Bees and Aquaculture (hereinafter: EDCA). Institute of Poultry, Birds, Small Mammals and Reptiles Clinic for birds, small mammals and reptiles Clinic for Breeding and Health Care of Horses Clinic for Reproduction Clinic for Ruminants and Pigs</p>	<p>Small animals (cats and dogs), ruminants, goats, sheep, pigs, horses, poultry, birds: domestic birds (parrots, songbirds), wild captive birds (captive birds of prey, zoo birds), wild birds small mammals: ferrets, rabbits, small rodents (guinea pigs, chinchillas, hamsters, degu, rats, gerbils and others) reptiles: turtles, snakes, lizards, fish and bees.</p>	<p>Clinical and epidemiological diagnostics of diseases of cattle, sheep, goats and pigs are performed at the Clinic for Ruminants and Pigs. The clinic deals with the treatment and prevention of diseases and performs various surgical procedures. The clinic advises breeders and veterinarians on diagnostic procedures, treatment and disease prevention, and also provides education for future veterinarians as well as carrying out research. Projects and publications: Two laboratories operate within the Clinic for Ruminants and Pigs: Laboratory for Clinical Pathology, where haematological, biochemical and hormonal blood tests are carried out, as well as tests on urine, milk and other biological specimens for various species of animals Laboratory for serology, where serological diagnosis of pig diseases is performed. Raising the competitive position of Slovenian cattle farming by controlling paratuberculosis in dairy cattle herd, Detection of type A influenza viruses in environmental samples, feed and animal bedding and development of an algorithm for the diagnosis of influenza in pig, Identification and characterization of pathogens of infectious diseases with the method of next generation sequencing, Improving immune response of animals against Mycobacterium avium subsp. paratuberculosis and Clostridium perfringens toxins with chicken egg yolk antibodies, Use of probiotics to control contamination of poultry farms with campylobacters and salmonella, Beta cells during development and remission of diet-induced diabetes, Development of Advanced Cellular Therapies to Treat Dementia in Dogs, Birds, small mammals and reptiles are diagnosed and treated at the Clinic for Birds, Small Mammals and Reptiles, which operates within the institute. In addition to domestic animal species, the clinic inspects, cares for and treats wildlife, most commonly birds, as well as certain reptile and mammal species. special systematic gastrointestinal examinations, probing, rectal examinations, ultrasound examinations of the gastrointestinal tract comprehensive diagnostic examinations of the urinary tract for treating urgent cases of gastrointestinal colic in horses.</p>
Spain	<p>Complutense University of Madrid https://www.ucm.es/english</p>	<p>Faculty of Biological Science Faculty of Veterinary Medicine</p>	<p>Rodents, obese Zucker rats, amphibians, seabirds, reptiles, Pied Flycatchers (Ficedula hypoleuca), blue tits (Parus caeruleus), pigs, goats</p>	<p>Projects and publications: Transcriptome-wide analysis reveals different categories of response to a standardized immune challenge in a wild rodent. Decomposing variation in immune response in a wild rodent population, Early exposure to Batrachochytrium dendrobatidis causes profound immunosuppression in amphibians, From the animal house to the field: Are there consistent individual differences in immunological profile in wild populations of field voles. Ontogeny of constitutive immunity: Maternal vs. endogenous influence, Prevalence of blood parasites in seabirds - a review, Double gametocyte infections in apicomplexan parasites of birds and reptiles, An indicator of maternal stress is correlated with nestling growth in Pied Flycatchers Ficedula hypoleuca, Are avian blood parasites pathogenic in the wild? A medication experiment in blue tits (Parus caeruleus), Differential contribution of Nox1, Nox2 and Nox4 to kidney vascular oxidative stress and endothelial dysfunction in obesity, Impaired Ca²⁺ handling in resistance arteries from genetically obese Zucker rats: Role of the PI3K, ERK1/2 and PKC signaling pathways, Mechanisms involved in the adenosine-induced vasorelaxation to the pig prostatic small arteries, Insulin resistance in penile arteries from a rat model of metabolic syndrome, Effects of</p>

	University name	Departments	Specialization	Subjects
				<p>antagonists for endothelin ETA and ETB receptors on coronary endothelial and myocardial function after ischemia-reperfusion in anesthetized goats, Enhanced response of pig coronary arteries to endothelin-1 after ischemia-reperfusion. Role of endothelin receptors, nitric oxide and prostanoids, Vasopressin effects on the coronary circulation after a short ischemia in anesthetized goats: Role of nitric oxide and prostanoids.</p>
	<p>Polytechnic University of Valencia https://www.upv.es/index-en.html</p>	<p>School of Agricultural Engineering and Environment Institute for Animal Science and Technology (ICTA) Department of Animal Science Department of Biotechnology</p>	<p>Rabbits, dairy goats, fishes: European eel, catadromous fish (<i>Anguilla anguilla</i>), killifish (<i>Aphanius iberus</i> and <i>Valencia hispanica</i>), pufferfish (<i>Takifugu niphobles</i>), Rainbow and brown trout</p>	<p>Animal production, dairy science, reproduction, endocrinology, physiology, animal nutrition, animal breeding, animal genetics, organizing and developing research and teaching specific to various areas of knowledge, such as animal production, improvement of farms and aquaculture, biochemistry and molecular biology, genetics and microbiology, Projects and publications: Effect of increasing lignin in isoenergetic diets at two soluble fiber levels on digestion, performance and carcass quality of growing rabbits, Effect of different housing systems (single and group penning) on the health and welfare of commercial female rabbits, Performance of rabbit does housed in collective pens and individual cages, Long-term implications of feed energy source in different genetic types of reproductive rabbit females: I. Resource acquisition and allocation, Milk yield prediction at late lactation in reproductive rabbit does, Representation of a mathematical model to predict methane output in dairy goats, Determination of methane production in goats fed different cereal diets, Correlated responses on litter size traits and survival traits after two-stage selection for ovulation rate and litter size in rabbits, The effect of divergent selection for uterine capacity on progesterone, estradiol and cholesterol levels around implantation time in rabbits, Investigation of the oviductal glycoprotein 1 (OVGP1) gene associated with embryo survival and development in the rabbit, Cold seawater induces early sexual developmental stages in the BPG axis of European eel males, European eel sperm storage: Optimization of short-term protocols and cryopreservation of large volumes, Dietary amino acids impact sperm performance traits for a catadromous fish, <i>Anguilla anguilla</i> reared in captivity, Advances on reproductive biology of killifish (<i>Aphanius iberus</i> and <i>Valencia hispanica</i>): sperm motility, spermatozoa morphology and gamete preservation, Trials for the improvement of pufferfish (<i>Takifugu niphobles</i>) sperm extenders, Recombinant vs purified mammal gonadotropins as maturation hormonal treatments of European eel males, Rainbow and brown trout population in Palancia river during last sixteen years, Cryosurvival of rabbit embryos obtained after superovulation with corifollitropin alfa with or without LH, Gut colonization by a novel <i>Clostridium</i> species is associated with the onset of epizootic rabbit enteropathy.</p>
	<p>University of Córdoba http://www.uco.es/internacional/extra_njeros/es/</p>	<p>Rabanales Campus: Faculty of Veterinary Science Faculty of Science</p>	<p>Andalusian donkey, mules, small animals (dogs - French Bulldogs, cats), horses (Andalusian horses, Spanish Trotter Horses, Menorca horse breed), Captive Lions (<i>Panthera leo</i>), rats, dairy cows, Canarian camel breed, honey bees</p>	<p>Reproductive biology, endocrinology, animal anatomy and physiology, veterinary science, animal reproduction, animal science, animal breeding, animal production, veterinary endocrinology, equine medicine, large animal internal medicine, animal parasitology. Projects and publications: Effect of follicle size and endometrial oedema on ovulation induction and embryo recovery in the Andalusian donkey, Effect of <i>Enterococcus faecium</i> SF68 on serum cobalamin and folate concentrations in healthy dogs: <i>Enterococcus faecium</i> SF68 in healthy dogs, Helical Computed Tomography - Anatomy of the Cat Abdomen, Allergen-specific immunotherapy in horses with insect bite hypersensitivity: A double-blind, randomized, placebo-controlled study, Multiple Malformations in Non-related Captive Lions (<i>Panthera leo</i>), Energy-dense diets increase FGF23, lead to phosphorus retention and promote vascular calcifications in rats, Endocrine, morphometric, and ultrasonographic characterization of neck adiposity in Andalusian horses, Feline parathyroid hormone: Validation of hormonal assays and dynamics of secretion, Metabolic and Endocrine Disorders in Donkeys, Clinical Pharmacology in Donkeys and Mules, Pharmacokinetics of the anti-androgenic drug flutamide in healthy stallions, Oestrus synchronisation in postpartum dairy cows using repetitive prostaglandin doses: Comparison between D-cloprostenol and dinoprost,</p>

	University name	Departments	Specialization	Subjects
				Ethological characterization of the Canarian camel breed, Stress level effects on sport performance during trotting races in Spanish Trotter Horses, Analyses of conformational performance differentiation among functional breeding goals in the Menorca horse breed, Reliability of the main field diagnostic methods of Varroa in honey bee colonies
	<p>University of Murcia</p> <p>https://www.um.es/</p>	<p>Faculty of Biology Faculty of Veterinary</p>	<p>Small animals (dogs), red fox (<i>Vulpes vulpes</i>), calves, lambs, barrows and gilts, sheep, pigs, goats, horses, broilers, feral pigeons, bees, fishes: gilthead seabream, sea bream (<i>Sparus aurata</i> L.), Mediterranean yellowtail (<i>Seriola dumerilii</i>), sea bass (<i>Dicentrarchus labrax</i> L.)</p>	<p>Projects and publications: Animal physiology, animal nutrition, animal production, veterinary sciences, anatomy, reproductive biology, comparative growth rates and haematological parameters from calves born by transfer of vitrified in vitro-produced embryos and stepbrother calves born by AI, Morphological changes in the porcine cervix: A comparison between nulliparous and multiparous sows with regard to post-cervical artificial insemination, PSVI-39 Administration of intramuscular progesterone and eCG to induce estrus activity in anovulatory goats under an intensive production system, Effects of sage distillation by-product (<i>Salvia lavandulifolia</i> Vahl.) Dietary supplementation in light lambs fed on concentrates on meat shelf life and fatty acid composition, Validation of an assay for quantification of alpha-amylase in saliva of sheep, Measurements of salivary alpha-amylase in horse: Comparison of 2 different assays, Effect of olfactory stimulation during suckling on agonistic behavior in weaned pigs, Causes, consequences and biomarkers of stress in swine: An update, Addition of crude glycerin to pig diets: Sow and litter performance, and metabolic and feed intake regulating hormones, Effect of dietary crude glycerin on growth performance, nutrient digestibility and Hormone levels of Iberian crossbred pigs from 50 to 100 kg body weight, Effect of dietary protein level on retention of nutrients, growth performance, litter composition and NH3 emission using a multi-phase feeding programme in broilers, Effects of low protein diets on growth performance, carcass traits and ammonia emission of barrows and gilts, 17α-ethinylestradiol or tamoxifen alters the humoral innate immune function in male gilthead seabream, Development of the digestive tract of gilthead sea bream (<i>Sparus aurata</i> L.). Light and electron microscopic studiem, Investigation into the duality of gonadotropic cells of Mediterranean yellowtail (<i>Seriola dumerilii</i>, Risso 1810): Immunocytochemical and ultrastructural studies, Ontogeny of the endocrine cells of the intestine and rectum of sea bass (<i>Dicentrarchus labrax</i> L.): an ultrastructural study, Parasites of the red fox (<i>Vulpes vulpes</i> Linnaeus, 1758) in Murcia, southeast Spain, Effect of different methods of administration of ivermectin on its efficacy against the shedding of gastrointestinal nematode eggs by gazelles, A geometric morphometric and microsatellite analyses of <i>Scaptotrigona mexicana</i> and <i>S. pectoralis</i> (Apidae: Meliponini) sheds light on the biodiversity of Mesoamerican stingless bees.</p>
Spain	<p>University of Zaragoza</p> <p>https://www.unizar.es/university-zaragoza</p>	<p>Faculty of Sciences Faculty of Veterinary</p>	<p>Small animals, domestic ferret (<i>Mustela putorius furo</i>), goats, sheep, pigs, cattle, Woodpigeon (<i>Columba palumbus</i>), broiler chickens, rabbits</p>	<p>Animal health, animal anatomy and physiology, veterinary science, animal breeding, animal science, animal production, Projects and publications: Characterization of goat prions demonstrates geographical variation of scrapie strains in Europe and reveals the composite nature of prion strains, Significance of respiratory diseases in the health management of sheep, Transmission of sheep-bovine spongiform encephalopathy to pigs, Selection markers in Pampa Rocha pigs: a comparison with autochthonous breeds of Spain and Portugal, Methylation specific PCR analysis in COL8A1 promoter in Creole cattle carrier of rob, Post-cervical compared with cervical insemination in gilts: Reproductive variable assessments, Treatment and follow-up of a domestic ferret (<i>Mustela putorius furo</i>) with clinical leishmaniosis caused by <i>Leishmania infantum</i>, First report on natural infection with <i>Leishmania infantum</i> in a domestic ferret (<i>Mustela putorius furo</i>) in Spain, Effect of oral administration of <i>Propionibacterium acnes</i> on growth performance, DTH response and anti-OVA titers in goat kids, Effect of colostrum treated by heat on immunological parameters in newborn lambs, Efficacy of phosphomycin in the control of <i>Escherichia coli</i> infection of broiler chickens, Haematological and Biochemical Changes in the Blood of Ewes and Lambs after Selenium and Vitamin E Injection, Effects of the inoculation of two types of selenium in sheep,</p>

	University name	Departments	Specialization	Subjects
				The effect of divergent selection for intramuscular fat on the domestic rabbit genome.
Sweden	<p>Swedish University of Agricultural Sciences (SLU)</p> <p>https://www.slu.se/en/</p>	<p>Faculty of Natural Resources and Agricultural Sciences (NJ) Faculty of Veterinary Medicine and Animal Science (VH): Department of Anatomy, Physiology and Biochemistry Department of Biomedical Sciences and Veterinary Public Health Department of Animal Environment and Health Department of Animal Nutrition and Management Department of Animal Breeding and Genetics Department of Clinical Sciences Department of Agricultural Research for Northern Sweden</p>	<p>Farming animals, horses, poultry, cows, cattle, small animals (dogs, cats), cattle, Ankole cattle, Swedish calves, horses - Icelandic horses, arctic charr and rainbow trout, sheep, Swedish sheep</p>	<p>Health and sickness among farming animals, horses or companion animals as well as animal management, animal welfare and animal health and the important ethic issues. More recently researchers have focused on the relation between animal and human health. Diseases that humans and animals share are important issues that are prioritized. The production of safe food is another aspect of the connection between animal and human health. Serglycin, a new prognostic biomarker for cancer in dogs, Precision livestock breeding – improving both health and production in dairy cattle, Fights, flights and genes: contribution of behaviour genetics to equine athletic performance, Genomic selection for more efficient beef breeding, Test of new biomarker to differentiate intestinal disease from cancer in cats, National breeding programs of arctic charr and rainbow trout with genotyping by sequencing, Genetic evaluation of sheep in different production systems, The genes of the black sheep, Genetic diversity in past and present Swedish sheep, Genetics of performance in pace racing Icelandic horses, Improving longevity of crossbred sows with genomic selection, Analysis of data from nucleus and commercial pig herds, International breeding program to improve health in pedigree dogs, HGEN Comparison of performance traits between indigenous Ankole cattle and their crossbreds in Rwanda, Facial expressions in stressed horses, Whole-genome sequencing of disease-causing EHEC strains from Swedish calves.</p>
Switzerland	<p>University of Bern</p> <p>https://www.unibe.ch/index_eng.html</p>	<p>Vetsuisse Faculty: Department of Clinical Veterinary Science Department of Infectious Diseases and Pathobiology (DIP) Department of Clinical Research and Veterinary Public Health (DCR-VPH) Institute of Bee Health Institute of Genetics Faculty of Science: Department of Biology</p>	<p>Small animals (dogs, cats), horses, cattle, pigs, sheep, goats, New World camelids, fishes, bees, rats, mice</p>	<p>Physiology, genetics, anatomy, parasitology, reproductive biology, animal reproduction. Projects and publications: Arthroscopic approaches to and anatomy of the shoulder joint of cattle: a cadaver study, Detection of specific Treponema species and Dichelobacter nodosus from digital dermatitis (Mortellaro's disease) lesions in Swiss cattle, Identifying maintenance hosts for infection with Dichelobacter nodosus in free-ranging wild ruminants in Switzerland: A prevalence study, Escherichia coli Producing CMY-2 β-Lactamase in Bovine Mastitis Milk, Abnormal keratinocyte differentiation in the nasal planum of Labrador Retrievers with hereditary nasal parakeratosis (HNPK), A large deletion in the GP9 gene in Cocker Spaniel dogs with Bernard-Soulier syndrome, An ADAMTS3 missense variant is associated with Norwich Terrier upper airway syndrome, Urinary Leukotriene E4 Concentrations as a Potential Marker of Inflammation in Dogs with Inflammatory Bowel Disease, Citrus flavanones upregulate thyrotroph Sirt1 and differently affect thyroid Nrf2 expressions in old-aged Wistar rats, Cell Type-Specific Chromatin Accessibility Analysis in the Mouse and Human Brain, Diosgenin-caused changes of the adrenal gland histological parameters in a rat model of the menopause</p>
The Netherlands	<p>University of Utrecht</p> <p>https://www.uu.nl/en</p>	<p>Faculty of Science: Department of Biology Faculty of Veterinary Medicine</p>	<p>Snakes, small animals (dogs), pigs, poultry, horses</p>	<p>Utrecht-based researchers succeed in growing snake-venom glands in a laboratory, Regenerative Medicine, Stem Cells & Cancer: Developing possible treatments for destructive diseases in animals and humans, Amniotic fluid contains numerous unknown chemicals with hormone-like activity, Transplanting liver stem cells: a future dream for both children and dogs with hereditary diseases, Applied Veterinary Research: building bridges between the clinics, science, and society, reducing the use of antibiotics in pigs, poultry and other animals, or advocating vaccination of goats and sheep against Q fever, Infection & Immunity: unraveling mechanisms of infections, host defence and antimicrobial resistance, There is a delicate balance between bacteria, viruses, parasites, and the immune system of animals and people. Fertility & Reproduction: solving subfertility and refining assisted reproductive technologies, reproduction has revolutionized animal breeding, however subfertility and pregnancy loss are still major contributors to economic loss within livestock and horse breeding programmes. Behaviour & Welfare: understanding and improving animal welfare, improve the welfare of animals in our society, by investigating emotional and cognitive processes that contribute to the adaptive capacities of animals.</p>

	University name	Departments	Specialization	Subjects
The Netherlands	<p>Wageningen University & Research centre (Wageningen University & Research)</p> <p>https://www.wur.nl/en/wageningen-university.htm</p>	<p>Chair groups of Wageningen University & Research: Animal Sciences: Cluster Animals in Future Food Systems and Society: Adaptation Physiology Group (ADP) Animal Nutrition Group (ANU) Animal Production Systems Group (APS) Aquaculture and Fisheries (AFI) Cluster Population Dynamics and Genomics: Animal Breeding and Genomics Group (ABG) Marine Animal Ecology (MAE) Quantitative Veterinary Epidemiology (QVE) Cluster Integrative Animal Biology: Behavioural Ecology Group (BHE) Cell Biology and Immunology Group (CBI) Experimental Zoology Group (EZO) Host-Microbe Interactomics (HMI) Human and Animal Physiology (HAP)</p>	<p>Ruminants, cattle, sheep, zebrafish, pigs, mice, broilers, horses</p>	<p>Animal nutrition, animal physiology, ruminant nutrition, animal physiology, neuroendocrinology, chronobiology, circadian rhythms. Microbial metabolic gate keeping in the jejunum, Dietary diversity affects feeding behaviour of suckling piglets, Metatranscriptome analysis of the microbial fermentation of dietary milk proteins in the murine gut, High-fat feeding rather than obesity drives taxonomical and functional changes in the gut microbiota in mice, Adipose tissue metabolism and inflammation are differently affected by weight loss in obese mice due to either a high-fat diet restriction or change to a low-fat diet, Aging-related alterations in the distribution of Ca²⁺-dependent PKC isoforms in rabbit hippocampus, Gender specific apposition of SCN-derived vasopressin-containing axons on GnRH neurons in the preoptic area of adult rats, Effects of undigested protein-rich ingredients on polarised small intestinal organoid monolayers, Successional Dynamics in the Gut Microbiome Determine the Success of Clostridium difficile Infection in Adult Pig Models, Effect of three different forage-based diets on microbial flora, pH and viscosity of the equine hindgut.</p>
Turkey	<p>Adana Menderes University</p> <p>https://www.adu.edu.tr/</p>	<p>Faculty of Agriculture: Department of Fisheries Engineering Department of Agricultural Biotechnology Department of Zootchnics Faculty of Arts and Sciences: Department of Biology Faculty of Veterinary Medicine</p>	<p>Large farm animals (cattle, buffaloes and horse), small farm animals (sheep, goat), poultry (chicken, quail, turkey, goose, duck, ostrich) and others (honeybee, rabbit, etc.)</p>	<p>General biology, molecular biology, hydrobiology, zoology, solution of animal production problems, in the frame of the integration of animal farms, organizations and related foundations, especially raising quality breeding materials, to play a pioneering role in the management, nutrition and biotechnology of animal production. Department of Animal Science gives education in different subjects containing large farm animals (cattle, buffaloes and horse), small farm animals (sheep, goat), poultry (chicken, quail, turkey, goose, duck, ostrich) and others (honeybee, rabbit) raising, nutrition and genetic improvement besides feeds and alternative feed sources, animal biotechnology, computer usage in animal production, planning projects and feasibility, organization, organic agriculture, good Agricultural Practices in the development of Animal Husbandry Professionals and Agricultural Engineer and studying in these subjects for adding values to solve the local, regional and national problems.</p>
	<p>Firat University</p> <p>http://www.firat.edu.tr/en</p>	<p>Faculty of Science Faculty of Veterinary Medicine</p>	<p>Fishes: carp (Cyprinus carpio carpio) and rainbow trout (Oncorhynchus mykiss), rats, chickens, geese, Japanese Quails (Coturnix Coturnix Japonica), Bronze turkeys, Chukar Partridges (Alectoris chukar), Pekin Ducks, lambs, sheep, cows</p>	<p>Animal health, animal welfare Projects and publications: Assessment of vitamin compositions and cholesterol levels of carp (Cyprinus carpio carpio) and rainbow trout (Oncorhynchus mykiss) caviars, Effect of Geraniol on Brain Cholesterol, Vitamin A and E Levels in The Hydrogen Peroxide-Treated Rats, Influences of physalis peruviana And lupinus albus . Extracts on the levels of some biochemical parameters in erythrocytes and serum of streptozotocin induced diabetic rats, Investigation of the role of α-lipoic acid on fatty acids profile, some minerals (zinc, copper, iron) and antioxidant activity against aluminum-induced oxidative stress in the liver of male rats, The effect of Pistacia terebinthus extract on lipid peroxidation, glutathione,protein, and some enzyme activities in tissues of rats undergoing oxidative stress, Antioxidant Properties Of Rubus Discolor L. Extracts And Protective Effects Of Its Flower Extract Against Hydrogen Peroxide-Induced Oxidative Stress In Wistar Rats, The effects of Juglans regia L. (walnut) extract on certain biochemical paramaters and in the prevention of tissue damage in brain, kidney, and liver in CCl₄ applied Wistar rats, Differences in Fatty Acid Profiles, ADEK Vitamins and Sterols of the Yolk between Native Chickens and Geese, Effects of Dietary Antibiotic and Cinnamon Oil Supplementation on Antioxidant Enzyme Activities, Cholesterol Levels and Fatty Acid Compositions of Serum and Meat in Broiler Chickens, The Effects of Dietary Selenium and Vitamin E and their Combination on the Fatty Acids of Erythrocytes, Bone Marrow and Spleen Tissue Lipids of Lambs, The Effects of High Temperature on Breeding Characteristics and the Living Strength of the Japanese Quails (Coturnix Coturnix Japonica), The effects of egg weight and shape index on hatching characteristics in Bronze turkeys, The Wool Production Characteristics in Morkaraman and Chios X Akkaraman (F1) and</p>

	University name	Departments	Specialization	Subjects
				Kivircik X Morkaraman (F1) Crossbred Sheep, Effects of Light Color on Growth Performance, Histomorphometric Features of Small Intestine and Some Blood Parameters in Chukar Partridges (<i>Alectoris chukar</i>), Effects of dietary grape seed on performance and some metabolic assessments in Japanese quail with different plumage colors exposed to heat stress, Influence of propylene glycol on conception rate in cows, Effect of Different Housing Systems on Growth and Welfare of Pekin Ducks.
	University of Ankara https://en.ankara.edu.tr/	Faculty of Agriculture Faculty of Veterinary Medicine: Basic Veterinary Sciences Department of Anatomy Department of Biochemistry Department of Histology-Embryology Department of Physiology Department of Veterinary History & Deontology Preclinical Sciences Department of Pharmacology and Toxicology Department of Microbiology Department of Parasitology Department of Pathology Department of Virology Clinical Sciences Department of Surgery Department of Obstetrics and Gyneacology Department of Internal Medicine Department of Reproduction and Artificial Insemination Food Hygiene and Technology Department of Food Hygiene and Technology Animal Husbandry and Animal Nutrition Department of Biostatistics Department of Genetics Department of Animal Nutrition and Nutritional Diseases Department of Animal Health Economics and Management Department of Animal Science	Large and small animals, cattle, dogs	Breeding of pet, small, cattle, poultry along with the improvement of the production and increasing of efficiency; protection of health, disease management, treatment of epidemic diseases animal; public health protection through prevention of zoonoses; compliance of the quality of animal products; environmental pollution, the marketing of live animals and animal products are conducted. With the aim of fulfilling at the highest of the quality criteria in education/research and public service.
Ukraine	Dnipropetrovsk State Agricultural University https://www.dsau.dp.ua/	Faculty of Biotechnology Faculty of Veterinary Medicine	Domestic animals, sheep,	Livestock production, farm animal and sheep breeding, veterinary hygiene, sanitation & expertise, molecular immune morphology, physiology of human and animals , animals pathology, oncology and morphology , animal hygiene and sanitary, epizootiology and infectious diseases, animals selectio , animals feeding and feeding technology.
United Kingdom: England	University of Bristol https://www.bristol.ac.uk/	Bristol Veterinary School School of Biological Sciences School of Physiology, Pharmacology and Neuroscience	Cattle, pigs, sheep, birds, small animals, rats	Projects and publications: Research on naturally-occurring diseases within the clinical case load, and is directed towards the prevention and treatment of animal and human diseases. Antimicrobial Resistance on Smallholding Farms, Automatic Disease, Detection and Monitoring in Calves, Bristol Cats Study, Bristol Dog Arthritis Study, Bristol Spinning Dog Study, Bristol Welfare Assurance Programme (BWAP), Canine Arthritis: Omega-3 DHA Study, CLAWS Feline Welfare Study, Medicine Use in Dairy (MUD), OH-STAR - One Health Selection and Transmission of Antimicrobial, Resistance, Our Milk Our Meds The Bristol Pecking Project, Dog owner survey, UK Dog Project, A novel G protein-biased agonist at the δ opioid receptor with analgesic efficacy in models of chronic pain, Enhancing respiratory sinus arrhythmia increases cardiac output in rats with left ventricular dysfunction, Epigenetic Link Between Statin Therapy and Type 2 Diabetes, Evaluation of ameliorative effect of two selected plant drugs on experimentally induced arsenic toxicity in sheep, Increased apelin receptor gene expression in the subfornical organ of spontaneously hypertensive rats, Investigating hormone-induced changes in affective state using the affective bias test in male and female rats, Noradrenaline release from Locus Coeruleus terminals in the hippocampus enhances excitation-spike coupling in CA1 pyramidal neurons via β -adrenoceptors, The approach is strongly interdisciplinary, using diverse physiological, biomechanical, neurological and molecular techniques, theoretical modelling and behavioural experiments in

	University name	Departments	Specialization	Subjects
				both laboratory and natural populations to link from the genetic foundations through to the evolution of behaviour and sensory systems. New study sheds light on medicines storage practices on UK dairy farms. Pig immunology comes of age: killer T cell responses to influenza, How Nagana is carried by tsetse flies. New study hopes to reduce bone fracture rates in laying hens.
	University of Liverpool https://www.liverpool.ac.uk/	Faculty of Health and Life Sciences: Institute of Ageing and Chronic Disease Institute of Clinical Sciences Institute of Infection and Global Health Institute of Integrative Biology Institute of Population Health Sciences Institute of Translational Medicine Institute of Veterinary Science: Department of Veterinary Education Department of Small Animal Clinical Science Department of Equine Clinical Science Department of Livestock Health & Welfare Department of Veterinary Pathology, Infection & Public Health	Small animals (dogs, cats), cattle, pigs, poultry, horses, ruminants, great apes (Hominidae)	Veterinary education, small animal clinical science, equine clinical science, livestock health & welfare, veterinary pathology, infection & public health, An evaluation of the different diagnostic imaging techniques for the assessment of elbow incongruity in the canine, Environment and reproductive dysfunction in captive female great apes (Hominidae), Use of computed tomography in the diagnosis of caecal inversion in a dog and a cat.
	University of Leeds https://www.leeds.ac.uk/	Faculty of Biological Sciences: School of Biology School of Biomedical Sciences School of Molecular and Cellular Biology Astbury Centre for Structural Molecular Biology (ACSMB) Leeds Institute of Genetics, Health and Therapeutics (LIGHT)	Mice, snakes (<i>Vipera berus</i> , <i>Natrix natrix</i>), birds: (Brown Booby <i>Sula leucogaster</i>), hunting wasp <i>Cerceris rybyensis</i> , <i>Corticeus unicolor</i> , <i>Platypus cylindrus</i>	Clinical endocrinology, diabetes, autoimmunity, inflammation, immunology of infectious diseases, clinical embryology, genetics, neurophysiology, reproduction, mesenchymal stem cell, marine ecology, biodiversity, conservation biology, taxonomy, parasitic diseases, ornithology, entomology, Aspirin, clopidogrel and prasugrel monotherapy in patients with type 2 diabetes mellitus: A double-blind randomised controlled trial of the effects on thrombotic markers and microRNA levels, Skeletal muscle mitochondrial dysfunction in chronic heart failure and type 2 diabetes, Transient Existence of Circulating Mesenchymal Stem Cells in the Deep Veins in Humans Following Long Bone Intramedullary Reaming, Gastric Helicobacter Infection Induces Iron Deficiency in the INS-GAS Mouse, Differences in basking site selection between the sympatric snakes <i>Vipera berus</i> and <i>Natrix natrix</i> , Sexual segregation in tropical seabirds: drivers of sex-specific foraging in the Brown Booby <i>Sula leucogaster</i> , A Tubulin Alpha 8 Mouse Knockout Model Indicates a Likely Role in Spermatogenesis but Not in Brain Development, Analysis of venom sac constituents from the solitary, hunting wasp <i>Cerceris rybyensis</i> .
	University of Suffolk https://www.uos.ac.uk/	School of Engineering, Arts, Science and Technology: Life Sciences	Mammals	Neuroscience, nutritional and metabolic diseases, ecology and evolution, anatomy, animal ecology, behavioral ecology, wildlife conservation.
United Kingdom: Scotland	Edinburgh Napier University https://www.napier.ac.uk/	School of Applied Sciences Department of Biological Sciences Department of Biomedical Science	Fishes, small animals	Veterinary science, anatomy, physiology, conservation biology, marine ecology, ecology and evolution, exercise physiology, fish physiology, insect ecology, biodiversity.
	The University of Edinburgh https://www.ed.ac.uk/	College of Medicine & Veterinary Medicine: Royal (Dick) School of Veterinary Studies College of Science & Engineering: School of Biological Sciences	Small and large animals (cows, pigs)	Immunology of infectious diseases, animal physiology, genetic engineering, clinical endocrinology, cancer research, reproductive biology, zoonotic diseases. Structure and function of neuroreceptors, synaptic transmission, ion channels, electrophysiology, Thymus generation and regeneration, Microbial genetics and biotechnology, chromosome biology, epigenetics, nuclear organization, Evolutionary and behavioural ecology of reproductive strategies. Life-history evolution in particular, how life history decisions are affected by parasitism and disease. Sexual selection and sexual conflict, Evolutionary and population genomics, Behavioural ecology and animal cognition: life history responses to environmental factors, and the cognitive requirements of avian nest building, In vitro development of oocytes from porcine and bovine primary follicles.
	University of Aberdeen https://www.abdn.ac.uk/	Schools incorporating the Life Sciences and Medicine The Centre for Genome-Enabled Biology and Medicine (CGEBM) The University of Aberdeen's Systems Biology Integrative Centre	Fishes (mackerel icefish (<i>Champsocephalus gunnari</i> , rainbow trout (<i>Oncorhynchus mykiss</i>)), dairy cattle, beef heifers, ruminants, Chiroptera (<i>Coleura seychellensis</i> , <i>T. menamena</i>), bottlenose dolphins, rats and mice, sheep, angora and cashmere goats, broiler chicks and broiler cockerels, lambs,	Animal production, ruminant nutrition, reproductive biology, reproductive endocrinology, ecology, environment, molecular cell biology, organismal biology, environmental biology, evolution, ecophysiology, population genetics, wildlife biology, fisheries science, neurodevelopmental disorders, cannabinoid research, metabolic diseases, glucose metabolism, genetics, genomics, biodiversity, parasitology, epigenetics, immunology, animal behavior, fish nutrition, fish immunology, fish genetics, zoology, various genomic technologies, including

	University name	Departments	Specialization	Subjects
		Marine Biodiscovery Centre	rabbids	<p>next generation sequencing (NGS). Research within the School of Biological Sciences has a broad cross-cutting theme of understanding the fundamental biological consequences of environmental change. Their research incorporates theoretical, empirical and experimental studies on plants, animals and microbes, and spans from gene to global scales, from the deep ocean to high altitude, and from the Arctic to Antarctic. Regulation of release factor expression using a translational negative feedback loop: a systems analysis. RNA. Differential activity by polymorphic variants of a remote enhancer that supports galanin expression in the hypothalamus and amygdala: implications for obesity, depression and alcoholism, Increasing trends in fecundity and calf survival of bottlenose dolphins in a marine protected area, Assessing consistency of fish survey data: uncertainties in the estimation of mackerel icefish (<i>Champsoccephalus gunnari</i>) abundance at South Georgia, Plasma and brain pharmacokinetic profile of cannabidiol (CBD), cannabidivarin (CBDV), Δ 9-tetrahydrocannabivarin (THCV) and cannabigerol (CBG) in rats and mice following oral and intraperitoneal administration and CBD action on obsessive-compulsive behaviour, Variation in wool fiber characteristics in sheep varying in genotype, Recent advances in the nutritional biology of angora and cashmere goats, Lameness in Dairy Cows: Influence of Nutrition on Claw Composition and Health, The potential for the improvement of the nutritive value of soybean meal by different proteases in broiler chicks and broiler cockerels, Effect of sodium bicarbonate supplementation and variation in the proportion of barley and sugar beet pulp on growth performance and rumen, blood and carcass characteristics of young entire male lambs, The effect of trenbolone acetate on growth rate and carcass composition of young female rabbits, The effect of trenbolone on acetate growth, blood hormones and metabolites, and nitrogen balance of beef heifers, Detection of interleukin (IL)-22 protein expression in rainbow trout (<i>Oncorhynchus mykiss</i>)</p>
	<p>University of Glasgow https://www.gla.ac.uk/</p>	<p>College of Medical, Veterinary and Life Sciences College of Science & Engineering: Institute of Neuroscience & Psychology</p>	<p>Rodents, mice, small animals, dogs (Tibetan Terrier, French Bulldogs, Pugs, English Bulldogs, Border Collies, Golden Retriever, Great Dane), cats, Taiwan cobra, horses and ponies (Dutch Warmblood mare), slugs, ruminants, cattle</p>	<p>Veterinary science, animal nutrition, animal physiology, animal breeding, animal production, ruminant nutrition, equine science, gastroenterology, neurological diseases, conservation biology, zoonotic diseases, veterinary anatomy, stem cells, clinical endocrinology, thyroid diseases, metabolism, chronic pain, gastrointestinal diseases, marine ecology. Conversion of tyrosine to phenolic derivatives by Taiwan cobra venom, Enkephalin-processing oligopeptidases in cobra venom: Inhibition by thiorphan and bestatin reveals co-operative actions, T he action of Taiwan cobra venom on methionine enkephalin: A useful assay for oligopeptidase content, From neuropeptide to unstable aromatic pyruvate derivative: an unexplained enzymic trail in cobra venom (Lois Anderson). The Centre for Neuroscience (CN) acts as a bridge from basic neuroscience to both clinical neuroscience and experimental psychology. The centre focuses on topical translational themes: spinal cord and brainstem circuits that underlie pain, motor control and breathing; psychiatric and neuro-developmental conditions such as schizophrenia, stress and Rett syndrome; Molecular mechanisms of synaptic transmission and plasticity; circadian rhythms; visual perception; cyclic nucleotide signal transduction. Neuroenterocystostomy for the management of extramural ectopic ureter with concurrent contralateral renal aplasia in two dogs, Carpal arthrodesis in cats Long-term functional outcome, Self assessment: acute-onset vomiting in a Tibetan Terrier, The effect of supplementing pony diets with yeast . The faecal microbiome. Acceptance and preference of flavors in a high-fiber feedstuff for horses, An atypical presentation of leiomyosarcoma causing extremity compartment syndrome of the rural region in a Dutch Warmblood mare: a case report, Traumatic skull fractures in dogs and cats: A comparative analysis of neurological and computed tomographic features, Clinical features and MRI characteristics of presumptive constrictive myelopathy in 27 pugs, Comparison of signal and computed tomography findings in French Bulldogs, Pugs, and English Bulldogs with and without clinical signs associated with thoracic hemivertebra, Two mixed breed dogs with sensory neuropathy are homozygous for an inversion disrupting FAM134B previously identified in Border Collies, Brain N-acetylaspartate accumulation in Canavan disease is not neurotoxic per se: the implications of the first gene replacement therapy study to demonstrate successful post-symptomatic treatment in mice, Congenital Malformations Resembling VACTERL Association in a Golden Retriever,</p>

	University name	Departments	Specialization	Subjects
				<p>MRI features of cervical articular process degenerative joint disease in Great Dane dogs with cervical spondylomyelopathy, Epidemiological survey of <i>Angiostrongylus vasorum</i> in dogs and slugs around a new endemic focus in Scotland, Evaluation of lameness detection using radar sensing in ruminants, Periodontal lesions in slaughtered cattle in the west of Scotland, The effects of a novel anti-inflammatory compound (AHI-805) on cyclooxygenase enzymes and the recovery of ischaemia injured equine jejunum ex vivo, The effect of nonsteroidal anti-inflammatory drugs on the equine intestine.</p>
United Kingdom: Wales	<p>University of South Wales https://www.southwales.ac.uk/</p>	School of Applied Sciences: Biological Sciences	<p>Sumatran Hornbills. Sunda Blue Flycatcher <i>Cyornis caerulatus</i>, agile gibbons <i>Hylobates agilis</i>. Malayan sun bear (<i>Helarctos malayanus</i>), desert rodent, Desert hamsters (<i>Phodopus roborovskii</i>, Mongolian gerbil (<i>Meriones unguiculatus</i>)</p>	<ul style="list-style-type: none"> • Medical microbiology, genetics, tropical field ecology, zoology, Neuroscience, Molecular Psychiatry, Cell Biology, Bioelectricity, Regenerative Medicine, Pharmacology. Molecular biology laboratory for DNA isolation and analysis • Projection microscopes in the microbiology and microscopy laboratories for group teaching • General biology laboratories for teaching, including a range of skeletons for vertebrate zoology • Computer rooms with specialist GIS software to support your learning <p>Wildlife ecologist and conservation biologist with academic and research interests that include avian ecology and conservation, biodiversity survey techniques, conservation management of wildlife in modified terrestrial landscapes (e.g. sun bears in SE Asia), including tropical forest and UK upland restoration approaches. Homes for Sumatran Hornbills. Globally threatened Sunda Blue Flycatcher <i>Cyornis caerulatus</i>: synthesis of global records and recent records from Sumatra. The conservation value of degraded forests for agile gibbons <i>Hylobates agilis</i>. Understanding landscape and plot-scale habitat utilisation by Malayan sun bear (<i>Helarctos malayanus</i>) in degraded lowland forest. Foraging behaviour of a desert rodent community: habitat or moon – which is more influential? Lunar and temperature effects on activity of free-living Desert hamsters (<i>Phodopus roborovskii</i>,) Burrow systems of the Mongolian gerbil (<i>Meriones unguiculatus</i>. Testosterone and its role in inter-individual behavior in a socially living rodent species.</p>