Africa

	University name	Departments	Specialization	Subjects
Algeria	**University of Mentouri – Constantine** **https://www.umc.edu.dz/index.php/en/**	Faculty of Natural and Life Sciences Department of Animal Biology Department of Veterinary Sciences	Mice, Streptozotocin-Induced-Diabetic Rats, Ferruginous Duck Aythya nyroca, wintering wildfowl, Wistar albino rats, Hexapoda: Collembola, cattle, dairy cattle, small ruminants, sheep	Biodiversity, molecular genetics, physiology, animal physiology, activity time budget of waterbirds, breeding ecology of waterbirds, insect taxonomy, species diversity, bovine mastitis, mastitis, neuroanatomy, neurobiology, neurobiology and brain physiology, reproductive biology, entomology, animal production, sheep diseases. Sodium valproate affect brain antioxidant/oxidant status in mice: Ameliorative effect of Vitamin E and Chrysanthemum fontanesii extract, Evaluation of antidiabetic, dermatoprotective, neuroprotective and antioxidant activities of Chrysanthemum fontanesii flowers and leaves extracts, *In vivo* Antidiabetic and Antioxidant Potential of Genista quadriflora Munby in Streptozotocin-Induced-Diabetic Rats, Distribution and breeding ecology of the Ferruginous Duck Aythya nyroca in Algeria, Sitting ducks: diet of wintering wildfowl in Lake Tonga, northeast Algeria, Hepatoprotective effects of the n-butanol extract from Perralderia coronopifolia Coss. against PCP-induced toxicity in Wistar albino rats, Annotated checklist of the springtails (Hexapoda: Collembola) of the Collo massif, northeastern Algeria, Mineral status of Ouled Djellal breeding sheep according to food ration.
Egypt	**Alexandria University** **https://www.alexu.edu.eg/index.php/en/**	Faculty of Agriculture: Animal and Fish Production Poultry Production Applied Entomology Food Science and Technology Genetics Faculty of Science: Zoology, Faculty of Veterinary Medicine: Department Veterinary Pharmacology Surgery Forensic Medicine, Toxicology and Veterinary Regulations Microbiology Histology and Cytology Anatomy and Embryology Physiology Biochemistry Animal Husbandry and Animal Wealth Development Nutrition and Veterinary Clinical Nutrition Food Hygiene Animal Hygiene and Zoonoses Parasitology Poultry and Fish Diseases Theriogenology Animal Medicine Pathology	Small and large animals, fishes	Animal production in factories and farms intensive specialized in the production of milk and meat , poultry, fish and medicine , feed and veterinary quarantine port of Alexandria and the protection of society from common diseases (transmitted from animals or products) and learn how to deal with them. Molecular parasitology, parasite biology, parasitic diseases, aquaculture fisheries, fish physiology and immunology, dairy science, animal anatomy, biodiversity, reproductive biology, zoology.

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	Cairo University **https://cu.edu.eg/Home**	Faculty of Agriculture: Department of Animal Production Department of Dairy Sciences Department of Genetics Department of Zoology and Agricultural Nematology Faculty of Science: Department of Entomology Faculty of Veterinary Medicine: Department of Parasitology Department of Pathology Department of Internal and Infectious Medicine Department of Microbiology Department of Virology Department of Veterinary Hygiene and Management Department of Anatomy Department of Physiology Department of Histology Department of Toxicology and Forensic Medicine Department of Fish Diseases & Management Department of Poultry Diseases Department of Theriogenology Department of Surgery Department of Zoonoses Department of Food Hygiene Department of Nutrition and Clinical Nutrition Department of Biochemistry Department of Clinical Pathology	Mice, rats, rabbits, Buschat rabbits, buffaloes, poultry, broilers, fishes	Animal anatomy and physiology, zoology, parasitic diseases, metabolism, neurobiology and brain physiology, biodiversity, parasite biology, protozoology, genetics, wildlife biology, animal production. Selenium and L-Carnitine Ameliorate Reproductive Toxicity Induced by Cadmium in Male Mice, Antioxidant, antiapoptotic, antigenotoxic, and hepatic ameliorative effects of L-carnitine and selenium on cadmium-induced hepatotoxicity and alterations in liver cell structure in male mice, Hepatoprotective and Antioxidant Role of Resveratrol on Bisphenol A - Induced Toxicity in Rats, The detoxification role of clay and ammonia on aflatoxin treated ration fed to growing rabbits, Serum lipoproteins, apolipoproteins, insulin and sex hormones in diabetic and non-diabetic obese premenopausal females, Effect of the antibiotic zinc bacitracin on serum glucose and liver glycogen on male Buschat rabbits, Biophysical analysis of emanated pheromonal odor changes in cows using electronic nose technology in cows using electronic nose technology.

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	Suez Canal University **http://suez.edu.eg/en/**	Faculty of Agriculture: Department of Animal Production and Fisheries Department of Dairy Faculty of Science: Department of Marine Science Department of Zoology Faculty of Veterinary: Department of Fish Diseases and Care Department of Anatomy and Embryos Department of Parasitology Department of Physiology Department of Livestock Development Department of Bird and Rabbit Medicine Department of Obstetrics, Reproduction and Artificial Insemination Department of Animal Medicine (Internal Medicine and Infectious Deseases)	Egyptian Scorpio maurus palmatus, Madeira cockroach Rhyparobia maderae, Drosophila melanogaster, rats, mice, spiny mice (Acomys cahirinus dimidiatus), Egyptian Buffaloes, Native Egyptian Goat, of Holstein Friesian cows, birds: Japanese quail, Coturnix japonica, Smith's zokors (Eospalax smithii), ewes, rabbits, White Leghorn hens	Animal physiology, endocrinology, genetics, molecular genetics, parasitic diseases, reproductive biology, animal behavior, parasitic diseases, chronobiology, animal nutrition. Neurotoxic and cytotoxic effects of venom from different populations of the Egyptian Scorpio maurus palmatus, Hypoglycemic effect of Cleome droserifolia ethanolic leaf extract in experimental diabetes, and on non-enzymatic antioxidant, glycogen, thyroid hormone and insulin levels, Cytotoxic effect of Albendazole, antiparasitic drug, on the liver of rat: Subchronic Study, The functions of corazonin and histamine in light entrainment of the circadian pacemaker in the Madeira cockroach Rhyparobia maderae, Characterizing the Circadian Locomotor Activity of Drosophila melanogaster yellow white Mutants under Different Temperatures, Circadian phase modulates the enhancing effect of the Egyptian Moringa peregrina extract on learning and memory in mice, Local variation in helminth burdens of Egyptian spiny mice (Acomys cahirinus dimidiatus) from ecologically similar sites: Relationships with hormone concentrations and social behavior, Polymorphism, Allelic and Genotypic Frequencies of κ-Casein and β-LG genes in Egyptian Buffaloes, Genetic Differentiation of two Native Egyptian Goat breeds Assessed by Microsatellite DNA Markers, Genetic analysis of the relationship among Test-day milk yield, somatic cell count and some udder characteristics of Holstein Friesian cows, Effects of diethylstilbestrol and ethinylestradiol on gene transcription of very low-density apolipoprotein II in the liver of Japanese quail, Coturnix japonica, Gender difference in unconditioned and conditioned predator fear responses in Smith's zokors (Eospalax smithii), Exogenous oxytocin dilates the cervix in ewes, Effect of PMSG on sexual receptivity of low reproductive female rabbits, Genetic parameters for EGG and related characteristics of White Leghorn hens in a subtropical environment.
Morocco	**Hassan II Polytechnic Center of Earth and Life Sciences** **http://www.iav.ac.ma/en**	Agronomic and Veterinary Institute Laboratory of Virology, Microbiology, Quality & Biotechnologies/ Eco-Toxicology and Biodiversity Laboratoire Biologie et Santé (URAC 34)	Fishes (European eel (Anguilla anguilla L.)	Marine biotechnology, epigenetics, reproductive biology, molecular biology, fish ecology Effect of hypermethylation in ovarian cancer: Computational approach, Prediction of DNA methylation in the promoter of gene suppressor tumor, Characteristics and specificity of “putative” estradiol receptors in European eel (Anguilla anguilla L.).
South Africa	**University of Cape Town** **https://www.uct.ac.za/**	Faculty of Health Sciences: Integrative Biomedical Sciences Faculty of Science: Department of Biological Sciences: The FitzPatrick Institute of African Ornithology (a DST-NRF Centre of Excellence), Animal Demography Unit (ADU), Institute for Communities and Wildlife in Africa (iCWild), Marine Research Institute (Ma-Re), DST-NRF South African Research Chair in Marine Ecology & Fisheries. (SARCHI ME&F)	Southern white rhinoceros, caracals (Caracal caracal), bats, leopards, southern African stoneflies (Notonemouridae, Plecoptera), birds, Cape Dwarf Chameleons, Bradypodion pumilum, Nile crocodiles, the Tsetse Fly (Glossina morsitans), water bugs	Reproductive endocrinology, wildlife conservation, conservation biology, marine ecology, ornithology, pollination biology, genetic diversity, population genetics, genetics, bird migration, zoology, insect ecology, entomology, fisheries, behavioral endocrinology and physiology, taxonomy. Differential foraging success across a light level spectrum explains the maintenance and spatial structure of colour morphs in a polymorphic bird, Parentage analysis in a managed free ranging population of southern white rhinoceros: Genetic diversity, pedigrees and management, Sensory trait variation in an echolocating bat suggests roles for both selection and plasticity, Molecular detection of tick-borne pathogens in caracals (Caracal caracal) living in human-modified landscapes of South Africa, Unsustainable anthropogenic mortality disrupts natal dispersal and promotes inbreeding in leopards, Phylogenetic analysis reveals high local endemism and clear biogeographic breaks in southern African stoneflies (Notonemouridae, Plecoptera), Temporal changes in allelic variation among Cape Dwarf Chameleons, Bradypodion pumilum, inhabiting a transformed, semi-urban wetland, Patterns of bird migration phenology in South Africa suggest northern hemisphere climate as the most consistent driver of change, Genome Sequence of the Tsetse Fly (Glossina morsitans): Vector of African Trypanosomiasis, The adipokinetic hormones of African water bugs of the Heteropteran families Nepidae and Belostomatidae

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	University of Johannesburg **https://www.uj.ac.za/**	Faculty of Science: Department of Biotechnology and Food Technology Department of Zoology	Kolbroek boar, fishes (Cyprinidae, Clarias gariepinus), smallholder cattle, springbok (Antidorcas marsupialis), impala (Aepyceros melampus) and blesbok (Damaliscus dorcus phillipsi)	Aquatic toxicology and physiology, freshwater ecology, cave ecology, parasitology, taxonomy, respiratory physiology, conservation biology, evolutionary biology, population genetics and genomics, food technology and biotechnology, conservation biology, physiological adaptation, histology, zoology, genetics, fish diseases and ecology, animal behavior. Preserving the tree of life of the fish family Cyprinidae in Africa in the face of the ongoing extinction crisis, Effect of antioxidants (taurine, cysteine, -tocopherol) on liquid preserved Kolbroek boar semen characteristics, The potential of reproductive technologies in breeding smallholder cattle populations in Zimbabwe, Characterization of epididymal spermatozoa motility rate, morphology and longevity of springbok (Antidorcas marsupialis), impala (Aepyceros melampus) and blesbok (Damaliscus dorcus phillipsi): Pre- and post-cryopreservation in South Africa
	University of Pretoria **https://www.up.ac.za/**	Faculty of Natural & Agricultural Sciences: Anatomy Animal and Wildlife Sciences Biochemistry, Genetics and Microbiology Physiology Zoology and Entomology Faculty of Veterinary Science	Damaraland mole-rats, Ansell's mole-rat, ice rat (Otomys sloggetti), Rhabdomys dilectus, Micaelamys namaquensis, Japanese quail, barred buttonquails, Domesticated Canary (Serinus canaria), African black coucals (Centropus grillii), honeybee, Apis mellifera	Comparative physiology, reproductive endocrinology, physiological ecology, fish ecology, digestive physiology, conservation biology, wildlife conservation, molecular biology and genetics, zoology, marine ecology, genomics, stress physiology, mammalogy, taxonomy, biodiversity, proteomics, animal breeding and nutrition, entomology. Reproductive status-dependent dynorphin and neurokinin B gene expression in female Damaraland mole-rats, Neural activation following offensive aggression in Japanese quail, GnRH mRNA expression in the brain of cooperatively breeding female Damaraland mole-rats, Neuroendocrine correlates of sex-role reversal in barred buttonquails, Social Status Affects the Degree of Sex Difference in the Songbird Brain, No Correlation Between Song and Circulating Testosterone Levels During Multiple Broods in the Domesticated Canary (Serinus canaria), Sex-role reversal is reflected in the brain of African black coucals (Centropus grillii), Socially induced infertility in Ansell's mole-rat: Are there depressed hormone levels in non-reproductive males and females?, Temporal flexibility in activity rhythms of a diurnal rodent, the ice rat (Otomys sloggetti), Locomotor activity in field captured crepuscular four-striped field mice, Rhabdomys dilectus and nocturnal Namaqua rock mice, Micaelamys namaquensis during a simulated heat wave, Antibiotic treatment impairs protein digestion in the honeybee, Apis mellifera.

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	University of Stellenbosch **http://www.sun.ac.za/english**	Faculty of AgriSciences: Department of Animal Sciences Department of Genetics Faculty of Science: Department of Biochemistry Department of Botany and Zoology Department of Physiological Sciences	Domesticated (sheep and goats, dairy and beef cattle, poultry and ostriches, pigs, aquaculture) and non-domesticated (wildlife) species, Nile tilapia (Oreochromis niloticus) and Mozambique tilapia (Oreochromis mossambicus), brine shrimp (Artemia naupli), and African catfish (Clarias gariepinus), and abalone (Haliotis midae).	Animal production, monogastric nutrition, ruminant nutrition, animal physiology, animal breeding, aquaculture, processing & product development. Research on monogastric animals focuses on different aspects of poultry nutrition and management that will ensure the development and health of the gastrointestinal tract and that therefore will have a long-term influence on production efficiency. With regard to management aspects, research focuses on the manipulation of the environment to improve the health and production of poultry. Ruminant nutrition research is aimed primarily at the optimal utilization of available raw materials to increase the production efficiency of cattle, sheep and goats. There is a strong focus on rumen metabolism and roughage fermentation rates. Aspects such as the effect of rumen pH and particle size on ruminal fiber digestion are being investigated, as well as combinations of different forage and energy sources to increase microbial efficiency. The use of exogenous fibrolytic enzymes to increase the digestibility of roughage has been a focus of research over the past 6 years. Regarding small stock, the focus is on the efficient production of lambs and sheep in intensive and extensive production systems. For the intensive systems, the research focus is directed to both the pre-weaning (creep diets) and post-weaning (finishing diets) stages, and focuses on optimising diets for amino acid, non-structural carbohydrate, fiber and mineral content. Attention is also given to alternative feedstuffs, such as silage as a component of feedlot diets or medics grazing as a basis for the fattening of lambs for the market. Physiological research focuses on the influence of management on both the physiology of reproduction and digestive systems, with both aspects that have a significant impact on the profitability of small scale and commercial systems. Research focuses on the interaction between nutrition and reproduction, and the use of assisted reproduction techniques that can be used to increase and optimize the cost-efficiency of commercial systems, as well as make these techniques more accessible to emerging and commercial producers. The use of in vitro produced embryos to genetically improve and thus optimize the cost-efficiency of dairy production systems, and to minimize the potential environmental effect of such systems, are one of the primary focus areas, and are already applied in the broader industry. Animal breeding research focuses on improving the accuracy of selection in the national commercial livestock herds, e.g. dairy cattle, beef cattle and sheep, by developing relevant genetic parameters and using them to develop new selection indices or improve existing ones. Another focus area is on the evaluation of farm animal genetics, using functional genomics. This involves the use of traditional quantitative genetics tools and molecular-based techniques to uncover the livestock genetic code. The main species being evaluated are pigs, chicken, ostriches and cattle. The research aims to characterize the genetic diversity (using molecular biology techniques) and population dynamics of these species in Southern Africa, which is then followed by phenotypic characterization. The second stage aims to look for quantitative trait loci (QTLs) that are of economic importance to the respective industries. Aquaculture research focuses primarily on water ecology management of integrated aquaculture-agriculture systems to ensure the sustainable and viability of such systems. Other research projects focus on the nutrition and physiological management of several species to optimize the production of freshwater and marine aquaculture species under commercial as well as small-scale or rural farming conditions. Species, among others, that are studied include several of the tilapia species such as the Nile tilapia (Oreochromis niloticus) and Mozambique tilapia (Oreochromis mossambicus), brine shrimp (Artemia naupli), and African catfish (Clarias gariepinus), and abalone (Haliotis midae). The meat science research team has focused on increasing output related to the University's Food Security Initiative as part of the HOPE Project. Projects follow a holistic research approach by investigating intrinsic and extrinsic factors that influence the meat quality and composition of various animal species, using a "gate-to-plate" focus. The meat types that have been researched include red meat, poultry and fish, with a strong focus on the traditional farmed species. The research team is also renowned internationally for their research on exotic meats (game and ostrich).

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Tunisia	**University of Manouba** **http://www.uma.rnu.tn/index.php?code=5**	Institution of Agricultural Research and Higher Education National School of Veterinary Medicine of Sidi Thabet Laboratory of Infectious Animal Diseases, Zoonosis and Sanitary Regulation	Tunisian camels, dromedary (Camelus dromedarius), Mediterranean small ruminants, sheep, cattle	Zoonoses, zoonotic diseases. First serological evidence of the Rift Valley fever Phlebovirus in Tunisian camels, Molecular phylogeny and genetic diversity based on msp1a, groEL and gltA genes of Anaplasma ovis Tunisian isolates compared to available worldwide isolates and strains, Molecular epidemiology of Anaplasma spp. related to A. phagocytophilum in Mediterranean small ruminants, Genetic diversity of groEL and msp4 sequences of Anaplasma ovis infecting camels from Tunisia, Molecular detection and genetic characterization of the potentially pathogenic Coxiella burnetii and the endosymbiotic Candidatus Midichloria mitochondrii in ticks infesting camels (Camelus dromedarius) from Tunisia, Seasonal dynamics, spatial distribution and genetic analysis of Anaplasma species infecting small ruminants from Northern Tunisia, First molecular identification and genetic characterization of Anaplasma ovis in sheep from Tunisia, First serological study of the prevalence of Anaplasma phagocytophilum in dromedary (Camelus dromedarius) in Tunisia, Efficacy of Hyalomma scupense (Hd86) antigen against Hyalomma excavatum and H. scupense tick infestations in cattle.