

চট্টগ্রাম ভেটেরিনারি ও এনিম্যাল সাইন্সেস বিশ্ববিদ্যালয়ের ২০২১ - ২০২২ অর্থ বছরের গবেষণা প্রকল্প সমূহের বিস্তারিত বিবরণী :-

A) Ongoing Research Project during the period of 2021-22 (UGC ,HEQEP & Others)

| ক্র.নং | প্রকল্পের নাম | প্রকল্প সাহায্য দাতার নাম | প্রকল্প পরিচালকের নাম | প্রকল্পের অগ্রগতি |
|--------|---|---------------------------|--|-------------------|
| 1 | The invention of bone paste from sea shell-based calcium carbonate for further elaborate observation of bone fracture healing covering all types of examinations using goat model. | UGC Through CVASU | Prof. Dr. Kh. Nurul Islam, Dept. of Anatomy and Histology, CVASU | Ongoing |
| 2 | Introducing some novel techniques to prepare stuffing specimens for anatomy lab/museum to enhance quality education and research. | " | Prof. Dr. Lutfur Rahman, Dept. of Anatomy and Histology, CVASU | Ongoing |
| 3 | Anatomical determination of blocking sites of sciatic, tibial and fibular nerves for regional anaesthesia in Black Bengal Goat | " | Prof. Dr. Mohammad Mejbah Uddin, Dept. of Anatomy and Histology, CVASU | Ongoing |
| 4 | Study of the efficacy of intratesticular injection of hypertonic NaCl and hypertonic CaCl ₂ salt solution for chemical castration in street dog. | " | Asso. Prof. Dr. Subrata Kumar Shil, Dept. of Anatomy and Histology, CVASU | Ongoing |
| 5 | Socio-economic impact of COVID-19 Pandemic on students of Chattogram Veterinary and Animal Sciences University | " | Prof. Dr. Goutam Kumar Debnath, Dept. of Dairy & Poultry Science, CVASU | Ongoing |
| 6 | Prediction of hematological and biochemical markers associated with antithetical outcomes of SARS-CoV-2 infected ICU patients of Chattogram, Bangladesh | " | Dr. Goutam Buddha Das, Professor & Vice Chancellor, CVASU COVID-19 detection lab, CVASU | Ongoing |
| 7 | Development of low cost in vitro methane estimation system and establishment of low methane emitting unconventional feed, see weeds available in Bangladesh | " | Prof. Dr. Md. Ashraf Ali Biswas, Dept. of Animal Science and Nutrition, CVASU | Ongoing |
| 8 | Effect of replacement concentrate by hybrid <i>Azadirachta indica</i> (Neem) leaves on growth performance, invitro-digestibility, helminthic properties and meat quality of indigenous sheep. | " | Prof. Dr. Jannatara Khatun, Dept. of Animal Science and Nutrition, CVASU | Ongoing |
| 9 | Investigation of effective distance, optimum sedative dose and duration of sedation for tranquilizing and deer, community dogs and buffalo using Daninject Tranquilizing gun | " | Prof. Dr. Md. Manirul Islam, Dept. of Animal Science and Nutrition, CVASU | Ongoing |
| 10 | Effects of genotype, parity, dry off, calving interval and forage dynamics on herd health, milk yield and milk quality in crossbred dairy cattle | " | Prof. Md. Emran Hossain, Dept. of Animal Science and Nutrition, CVASU | Ongoing |
| 11 | Growth performance, meat quality, lipid profile, nutrient digestibility and cecal microflora concentration of broiler fed phyto-genetic feed additives and probiotic as an alternative to antibiotic growth promotor. | " | DR. Priunka Bhowmik, Asst. Prof. Dept. of Animal Science and Nutrition, CVASU | Ongoing |
| 12 | Investigation of different red meat quality in super shop, wholesale and retail meat markets in Chattogram Metropolitan area, Bangladesh. | " | Kona Adhikary, Asst. Prof. Dept. of Animal Science and Nutrition, CVASU | Ongoing |
| 13 | Scanning domestic and captive wild birds in Bangladesh for an emerging pathogen, <i>Escherichia albertii</i> | " | Asso. Prof. DR. Mukta Das Gupta, Dept. of Microbiology and Veterinary Public Health, CVASU | Ongoing |
| 14 | Detection of spike protein mutation and prediction of new strain of circulating SARS-CoV -2 in Chattogram region, Bangladesh | " | Dr. Eaftekhur Ahmed Rana, Asst. Prof. CVASU COVID-19 detection lab, CVASU | Ongoing |
| 15 | Detection of antimicrobial resistant gene in <i>Salmonella</i> isolated from poultry farm and live bird market environment | " | Prof. Dr. Md. Masuduzzaman, Dept. of Pathology and Parasitology, CVASU | Ongoing |
| 16 | Designing a peptide vaccine for bovine anaplasmosis | " | Prof. Dr. Mohammad Alamgir Hossain, Dept. of Pathology and Parasitology, CVASU | Ongoing |
| 17 | Cytological evaluation of canine and feline neoplasms by modified ultrafast Papanicolaou (MUFPP) stain, and its comparison with histopathology | " | Prof. Dr. Mohammad Mahburur Rahman, Dept. of Pathology and Parasitology, CVASU | Ongoing |
| 18 | Quantification of anti-SARS-CoV-2 antibody among health workers after 6 to 8 months of second dose of vaccination | " | Prof. Dr. Sharmin Chowdhury, Dept. of One Health Institute, CVASU | Ongoing |

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| 19 | Whole Genome Sequence of Lumpy Skin Disease Virus from Cattle Population of Chattogram, Bangladesh | " | Asso. Prof. Dr. Md. Abdul Alim, Dept. of Pathology and Parasitology, CVASU | Ongoing |
| 20 | Pattern of antibiotic use in goat farming and detection of antibiotics residues from goat meat | " | Prof. Dr. AKM Saifuddin, Dept. of Physiology, Biochemistry and Pharmacology, CVASU | Ongoing |
| 21 | Study on prevalence of antimicrobial residues in commercial chicken eggs by Thin Layer Chromatography and Ultra High Performance Chromatography in Bangladesh | " | Prof. Dr. SKM Azizul Islam, Dept. of Physiology, Biochemistry and Pharmacology, CVASU | Ongoing |
| 22 | Establishment of chemical based pregnancy diagnosis protocol of cattle at CVASU | " | Asso. Prof. Dr. Amir Hossan Shaikat, Dept. of Physiology, Biochemistry and Pharmacology, CVASU | Ongoing |
| 23 | Investigating the impact of heat stress on behavior and physiology of dairy cattle in Bangladesh | " | Dr. Md Ridoan Pasha, Lecturer, Dept. of Physiology, Biochemistry and Pharmacology, CVASU | Ongoing |
| 24 | Genetic Variation of Bangladeshi goats (<i>Capra hircus</i>) Based on Sex Related Y Chromosome Gene. | " | Prof. Dr. Gous Miah, Dept. of Genetics and Animal Breeding, CVASU | Ongoing |
| 25 | Detection of candidate genes associated with beef quality trait in indigenous cattle of Bangladesh | " | Prof. Dr. Omar Faruk Miazi, Dept. of Genetics and Animal Breeding, CVASU | Ongoing |
| 26 | Whole genome sequencing of Red Chittagong Cattle (RCC) cattle and insight into candidate gene mutations associated with disease resistance | " | Prof. Dr. Ashutosh Das, Dept. of Genetics and Animal Breeding, CVASU | Ongoing |
| 27 | Prevalence and risk factors of depression, anxiety, and stress in patients with non-communicable disease. | " | Asso. Prof. Musammet Rasheda Begum, Dept. of Agricultural Economics & Social Sciences, CVASU | Ongoing |
| 28 | Assessing the profitability and marketing efficiency of the marginal backyard dairy farmers of the peri-urban villages of Chittagong Metro area- Part 3 (Extension) | " | S. M. Mokaddes Ahmed Dipu Asst. Prof. Dept. of Agricultural Economics & Social Sciences, CVASU | Ongoing |
| 29 | Ultrasound measurements of the rumen wall thickness associated with rumenocentesis diagnose precisely the chronic ruminal acidosis in dairy cows | " | Prof. Dr. Bibek Chandra Sutradhar, Dept. of Medicine and Surgery, CVASU | Ongoing |
| 30 | Long bone fracture healing assesment by applying bone paste(Calcium Carbonatecockle shells) in goats –an expermental study | " | Prof. Dr. Bhajan Chandra Das, Dept. of Medicine and Surgery, CVASU | Ongoing |
| 31 | Identification of semen microbes and effects of antioxidants in buck semen quality. | " | Prof. Dr. Azizunnesa, Dept. of Medicine and Surgery, CVASU | Ongoing |
| 32 | Emergence of beak and feather disease in Bangladesh? Investigation and phylogenetic analysis of psittacine beak and feather disease virus from companion birds in Bangladesh | " | Dr. Md. Ahaduzzaman, Asst. Prof. Dept. of Medicine and Surgery, CVASU | Ongoing |
| 33 | Application of advanced camera technology for surveillance of infectious and zoonotic pathogens in wild birds | " | DR. Sharmin Akter, Asst. Prof. Dept. of Medicine and Surgery, CVASU | Ongoing |
| 34 | Virulence factors in Staphylococcus associated with goat mastitis and antimicrobial resistance genes in Chattogram, Bangladesh | " | Sazeda Akter, Asst. Prof. Dept. of Medicine & Surgery, CVASU | Ongoing |
| 35 | Investigation of toxoplasmosis with its risk factors in cats by Rapid Diagnostic Test Kit in Dhaka Metropolitan area. | " | Dr. Mizanur Rahman, Asst. Prof. Teaching and training pet hospital and research center, CVASU, Purbachal, Dhaka | Ongoing |
| 36 | Investigation into the relationship between owner knowledge, diet, and dental disease with associated risk factors and complications in pet rabbits | " | DR. Aparna Datta, Asst. Prof. Teaching and training pet hospital and research center, CVASU, Purbachal, Dhaka | Ongoing |
| 37 | Understanding the new emerging pollutants of surface, & waste water though chemical speciation and toxicity. | " | Suvanker Saha, Asst. Prof. Dept. of Applied Chemistry & Chemical Technology, CVASU | Ongoing |
| 38 | Comparative study to determine toxic heavy metals (As, Fe and Pb) and cation exchange capacity of newly formed soil (chars) and conventional soil in the riverine area of Jamuna | " | Md. Ashrafal Islam, Asst. Prof. Dept. of Applied Chemistry & Chemical Technology, CVASU | Ongoing |

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| 39 | Quality Evaluation of different nutraceutical food produce from incorporation of tomatoes lycopene. | " | Mohammad Mozibul Hoque, Asst. Prof. Dept. of Applied Food Science and Nutrition, CVASU | Ongoing |
| 40 | Development and Quality Evaluation of Gluten-Free Cake for Celiac Disease Patient and Individual with Gluten Intolerance | " | Taslima Ahmed, Asst. Prof. Dept. of Applied Food Science and Nutrition, CVASU | Ongoing |
| 41 | Effect of different pre-treatments on raisins processing and its quality characterization | " | Asso. Prof. Shireen Akther, Dept. of Food Processing and Engineering, CVASU | Ongoing |
| 42 | Unveiling the morphometries, feeding ecology and breeding season of <i>Plotosus canius</i> from the Bay of Bengal | " | Asso. Prof. Dr. Md. Mahiuddin Zahangir, Dept. of Fish Biology and Biotechnology, CVASU | Ongoing |
| 43 | Isolation and Identification of Marine and Freshwater Indigenous Microalgae from Bay of Bengal and Kaptai Lake of Bangladesh | " | Dr. Helena Khatoon, Asst. Prof. Dept. of Aquaculture, CVASU | Ongoing |
| 44 | Gonad histology and artificial breeding of Kine Magur, <i>Plotosus canius</i> | " | Asso. Prof. Dr. Md. Sadequr Rahman Khan, Dept. of Marine Bioresource Science, CVASU | Ongoing |
| 45 | Reproductive aspects of commercially important <i>Polynemus paradiseus</i> from the south-east coast of Bay of Bengal: implications for its conservation considering eco-climatic factors | " | Sumi Akter, Asst. prof. Dept. of Marine Bioresource Science, CVASU | Ongoing |
| 46 | Population Biology of Gobi fish (<i>Pseudapocryptes elongatus</i>) collected from the Chattogram coast of Bangladesh | " | Abrar Shakil, Asst. Prof. Dept. of Marine Bioresource Science | Ongoing |
| 47 | Morphometric divergence and reproductive features of the long whisker catfish (<i>Mystus gulio</i>): extrapolations for its conservations under changing eco-climatic factors | " | Nayeema Ferdausy Hoque, Asst. Prof. Dept. of Marine Bioresource Science, CVASU | Ongoing |
| 48 | Limnological study of Kaptai lake | " | Asso. Prof. Sk Ahmad Al Nahid, Dept. of Fisheries Resource Management, CVASU | Ongoing |
| 49 | Exploring the microbiome of Nappi, a fermented fishery product of Bangladesh | " | Tahsin Sultana, Asst. Prof. Dept. of Fishing and Post-Harvest Technology, CVASU | Ongoing |
| 50 | Enhancing the present facility to establishment of a model Clinical Skill Laboratory at CVASU | " | Prof. Dr. Bibek Chandra Sutradhar, Dept. of Medicine and Surgery, CVASU | Ongoing |
| 51 | Introducing some novel techniques to prepare different stuffing specimens for anatomy museum to enhance quality education and research. | " | Prof. Dr. Lutfur Rahman, Dept. of Anatomy and Histology, CVASU | Ongoing |
| 52 | Feeding strategies for carp and tilapia polyculture | Worldfish | Dr. Md. Asaduzzaman, Asst. Prof. Dept. of Marine Bioresource Science, CVASU | Ongoing |
| 53 | Increasing Livestock production in the Hills through better husbandry, health services and improving market access through value and supply chain management- CVASU Part | KGF | Prof. Dr. Md. Kabirul Islam Khan Dept. of Genetics and Animal Breeding, CVASU. | Ongoing |
| 54 | Characterization of developed dual purpose chickens under semi-scavenging system | MST | Prof. Dr. Md. Kabirul Islam Khan Dept. of Genetics and Animal Breeding, CVASU. | Ongoing |
| 55 | Increasing Livestock production in the Hills through better husbandry, health services and improving market access through value and supply chain management- PRTC Part | KGF | Prof. Dr. Paritosh Kumar Biswas Director (PRTC) | Ongoing |
| 56 | Molecular Characterization of New Castle disease virus (NDV) in-search for an avirulent for the development of a thermostable vaccine | KGF | Prof. Dr. Pankaj Chakraborty Dept. of Medicine & Surgery, CVASU | Ongoing |
| 57 | Climate change mitigation by a sustainable water Buffalo dairy chain in Bangladesh | Vetenska-psradet | Professor Dr. Md. Mizanur Rahman Dept. of Medicine & Surgery, CVASU. | Ongoing |

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| 58 | Food safety issues: antimicrobial uses and their residues in foods of animal origin | BAN BEIS | Prof. Dr. Md. Mahmudul Hasan Dept. of Physiology, Biochemistry & Pharmacology, CVASU. | Ongoing |
| 59 | Establishment of semen bank and AI for speed up of goat production with increased genetic merit (LS 201999) | BAN BEIS | Prof. Dr. Azizunesa Dept. of Medicine & Surgery, CVASU. | Ongoing |
| 60 | Therapeutic Effects of Probiotics for Treatment and Control of Clinical and Sub-Clinical Mastitis Affected Lactating Cows | BAN BEIS | Prof. Dr. Abdul Ahad Dept. of Microbiology & Veterinary Public Health, CVASU. | Ongoing |
| 61 | Marine Fish Larval Biodiversity and Distribution Pattern in the Cox'sbazar, Teknaf Coasts | World Fish | Dr. Sk. Ahmed Al Nahid, Asso. Prof. Dept. of Fisheries Resource Management | Ongoing |
| 62 | Studies on changes in fish larval abundance at Cox's Bazar Coast in the Bay of Bengal in response to ocean acidification | BFRI | Dr. Sk. Ahmed Al Nahid, Asst. Prof. Dept. of Fisheries Resource Management | Ongoing |
| 63 | Isolation and identification of indigenous microflora from different water bodies of Bangladesh and its utilization as live feed for aquaculture industry | KGF | Dr. Helena Khatun, Asst. Prof. Dept. of Aquaculture, CVASU | Ongoing |
| 64 | Formulation impact on bioactive properties of dispersible mango tablet | MST | Shireen Akther, Associate Prof/ Dr. Afioza Sultana, Associate Professor, Dept. of Food Processing and Engineering, CVASU | Ongoing |
| 65 | Microalgae as a potential feed additive for survival, growth and coloration of ornamental fish | MST | Dr. Helena Khatun, Assistant Professor/Mohammad Redwanur Rahman, Assistant Professor, Department of Aquaculture, Faculty of Fisheries, CVASU | Ongoing |
| 66 | Comparison of antimicrobial resistant gene in common bacteria isolated from poultry farm and live bird market environment | MST | Prof. Sharmin Chowdhury/ Prof. Dr. Md. Masuduzzaman, Dept. of Pathology & Parasitology, CVASU | Ongoing |
| 67 | Effects of fish oil, Azadirachta indica and Curcuma longa on Performance carcass characteristics, cardio-pulmonary, morphometry, hemato-biochemical indices, ileal nutrient digestibility, gut morphology, tibia morphometry, oxidative, stability and fatty acid profile of meat in commercial broiler birds | MST | Professor Dr. Md. Ernan Hossain/Prof. Dr. Md. Ahasanul Hoque, Dept. of Animal Science & Nutrition, CVASU | Ongoing |
| 68 | Isolation and identification of MultiDrug Resistance (MDR) E. Coli and associated gene that transfer into human food chain through fish and poultry meat | MST | Prof. Mohammad Mahmudul Hassan/ Asso. Prof. Shahneaz Ali Khan Dept. of Physiology, Biochemistry & Pharmacology, CVASU | Ongoing |
| 69 | Mining causative mutations in major prolificacy genes in Black Bengal Goat | MST | Prof. Dr. Ashutosh Das/ Prof. Dr. Gous Miah, Dept. of Genetics & Animal Breeding, CVASU | Ongoing |
| 70 | Genome wide identification of novel vaccine candidates for Babesia, Anaplasma and Theileria using integrative bioinformatics approaches | MST | Prof. Dr. AMAM Zanaed Siddiki/ Asso. Prof. Dr. Md Abdul Alim, Dept. of Pathology & Parasitology, CVASU | Ongoing |
| 71 | Identifying the most important clinical skills for field veterinarians in Bangladesh and the potential training opportunities provided by clinical skills laboratories | Bristol University, UK | Prof. Dr. Md. Ahasanul Hoque, Dept. of Medicine & Surgery, CVASU | Ongoing |