



## Veterinary Science and animal breeding technology Department



### The department was founded in 1964.

Department's chairs are equipped with specialized laboratories to determine the quality of meat, milk and dairy products, to study of natural resistance and biochemical indicator of blood, zoo analysis of feed, processing of animal products, game management and fisheries and physiology of farm animals.

#### Research Areas:

-development of methods of diagnostics, prevention of infectious and noncontagious diseases, to ensure epizootic welfare and food security;

-development of methods to identify extraneous substances in animal products and their biological value;

-development of selection methods and technologies of dairy cattle, beef cattle, small cattle;

-growing commercial fish in the lake-commercial farms to ensure food security.

**Scientific potential:** 15 doctors and 34 candidates of science are worked in the faculty.

**The following results have been achieved for 2009-2012.:**

#### -developed:

-method of artificial insemination of cows;

-technology of detailed feeding of broilers;

-new method for determination of residual chlorine and antibiotics in chicken's meat;

-scientific basis of using of GIS technology in epizootological monitoring and forecasting of infectious animal diseases;

-means of nonspecific therapy for obstetric and gynecological diseases of cows, and disease of the breast;

-technology of production of mutton (lamb) in the management of its quality on the basis of the concept of HACCP;

-technology of carp growing in the lake-commercial farms;

#### -created:

-crossbred and meat-fat (fat-tail) types of sheep;

-new highly productive type of Kazakh black and white cattle "Priishimsky";

-three lines and the breeding herd of semi fine-wooled

Kazakh meat-wool sheep;

#### -realized

study on the development of monoclonal antibodies for anthrax, leptospirosis and other infectious diseases of farm animals.

**12 monographs and 51 recommendations were published, 15 patents and 45 innovative patents were obtained.**

**Researches are realized in 2012-2014. by:**

-creation of new type of Kazakh sheep with meat and greasy productive direction in the northern Kazakhstan;

-study the adaptive capacity of Holstein cattle imported from Canada to northern Kazakhstan;

-improvement of productive-breeding qualities of Kazakh meat-wool semi fine woolled sheep of Chuya type;

-study of contamination of food by extraneous substances;

-diagnostics of dermatomycosis of cattle;

-MfM-development avermectin against animals' arahnontamoz;

- production testing of specialized feed on sturgeon and increasing fish production in the lake-commercial farms.

**Research center "Fishery" was established in 2010 on the basis of the Department" Game management and Fishery", which is a research unit, organizing and coordinating the development of basic and applied sciences in the field of fishery.**

