

## NATIONAL INSTITUTE OF ANIMAL HEALTH

**Established:** 1891

**Location:** Josui-honcho, Kodaira City, Tokyo

**Director:** Shigetaka SHIBATA

**Total Number of Employees:** 370 (Research personnel: 154)

### Outline of Work:

This institute carries out studies on the establishment of preventive and curative measures for the infectious diseases, parasites and parasitic diseases, reproductive disorders, nutritional disorders and lactation disorders, poisoning, etc., for livestock and poultry industry, and experiments on environmental sanitation for animals. This institute diffuses results of researches and experiments, diagnoses on materials sent in, gives training courses on technics concerned with animal health, and produces and distributes biological products (vaccines, antisera and diagnostics) for veterinary use.

### Recent Principal Research Findings:

Infectious diseases—Bovine RS virus infection, rinderpest, hog cholera, equine infectious anemia, Japanese encephalitis, Newcastle disease, avian leucosis complex, swine edema disease, diarrhea in animals and fowls, and swine enzootic pneumonia, etc.

Endo- and ecto-parasites—Ticks, sand flies, avian leucocytozoon, piroplasma, and lung worms, etc.

Nutritional disorders—Relationship between disorder and feed protein, minerals, vitamins, and hormones.

Reproductive disorders—Improvement of reproductive efficiency in male and female animals.

Diseases in mass breeding—Diarrhea in pigs, avian respiratory mycoplasmosis, and infectious coryza.

Radioisotopes—Investigation of fall-out, radiation injuries, and mutation of bacilli or viruses by irradiation of  $\gamma$ -ray, etc.

Equine infectious anemia—Isolation of EIA virus by using leukocyte culture method.

### Publications:

*Proceedings of the "Suigyokai (Monthly Meeting)".* (In Japanese, monthly)

*The National Institute of Animal Health Quarterly.* (In English)

*Bulletin of the National Institute of Animal Health.* (In Japanese, semi-annual)

*Annual Report.* (In Japanese)

### Organization and Main Research Themes:

- Research Planning and Coordination Division (4 sections, library)
- General Administration Division (3 sections)
- First Research Division (5 laboratories)—Brucellosis, atrophic rhinitis mastitis, swine enzootic pneumonia, bacterial metabolism, ectoparasites, avian leucocytozoonosis, toxoplasmosis, salmonellosis, production of SPF (Specific pathogen free) pigs and laboratory animals.

- Second Research Division (5 laboratories)—Bovine RS virus infection, bovine infectious diarrhea, epizootiology, rinderpest, and bovine ephemeral fever.
- Third Research Division (3 laboratories)—Clinical pathology, swine enzootic pneumonia, avian leucosis, and reproductive disorders.
- Fourth Research Division (4 laboratories)—Poisoning, biosynthesis of protein, experimental use of radio-isotope, nutritional disorders, and mechanism of virus multiplication.
- Equine Infectious Anemia Division (3 laboratories)—Virology, pathology, biochemistry, hematology, and serology on EIA, and avian leucosis.
- Director—Biological Products Division (5 laboratories)—Avian respiratory mycoplasmosis, Johne's disease, infectious coryza, hog cholera, pullorum disease, Marek's disease, and Newcastle disease.
- Hokkaido Branch Laboratory (5 laboratories) (Sapporo City, Hokkaido)—Mastitis, bovine infectious diarrhea, Johne's disease, swine diarrhea, brucellosis, and equine rhinopneumonia.
- Tohoku Branch Laboratory (1 laboratory) (Shichinohe-machi, Aomori Prefecture)—Sanitation of grazing cattle and Marek's disease.
- Hokuriku Branch Laboratory (3 laboratories) (Kashiwazaki City, Niigata Prefecture)—Clinicochemical examination, mastitis, and reproductive disorders.
- Chugoku Branch Laboratory (1 laboratory) (Wadayama-machi, Hyogo Prefecture)—Avian viral and bacterial respiratory disease.
- Kyushu Branch Laboratory (1 laboratory) (Kagoshima City, Kagoshima Prefecture)—Piroplasmosis, anaplasmosis, ticks, lung worm disease, grazing sanitation, and swine enzootic pneumonia.