



LANAVET

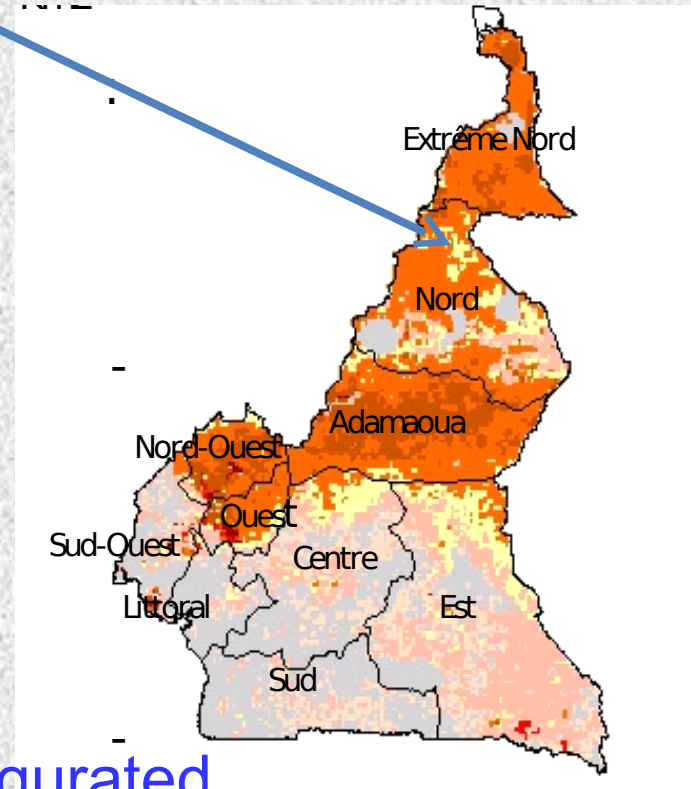


NOTE OF PRESENTATION

Dr ABDOULKADIRI Souley



Garoua



LANAVET was created in 1983 by the presidential order and was inaugurated in september 1992.

Legal status: a public entreprise entirely financed by the state.

MISSION:

- The protection of animal health by:
 - The production of vaccines for veterinary use;
 - the diagnostic and surveillance of major animal diseases;
 - the training of the laboratory staff;
 - carrying out researches on animal diseases



Fonctionnal organization

- Three main technical departments
 - The department of animal health;
 - The department of vaccines production;
 - The department of quality control.

The staff: 74 people

- Senior staff: 13
- Junior staff: 17
- Employees: 44



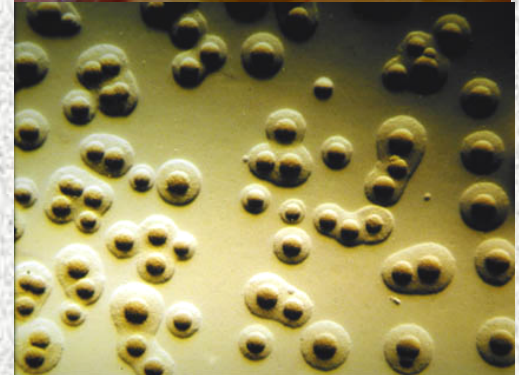
Department of Animal Health

- Diagnosis of animal diseases
- Research;
- Epidemiological Surveillance
- Food Hygiene
- The laboratory of pathology is not yet operational
- 4 units:
 - Bacteriology
 - Virology
 - Parasitology
 - *biochemistry*



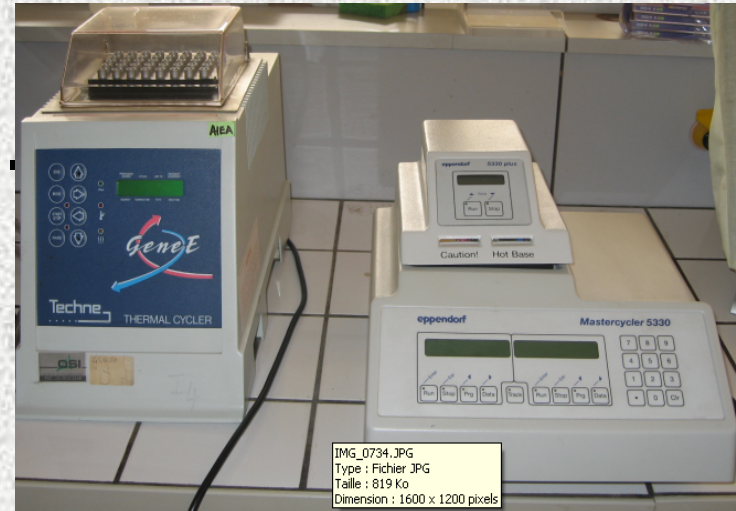
The bacteriology unit

- Diagnosis of current animal diseases
 - CBPP
 - Anthrax
 - Brucellosis
 - Pasteurellosis,
 - Etc.
- Food Hygiene
- Isolation and et identification of strains
- Serology
- PCR



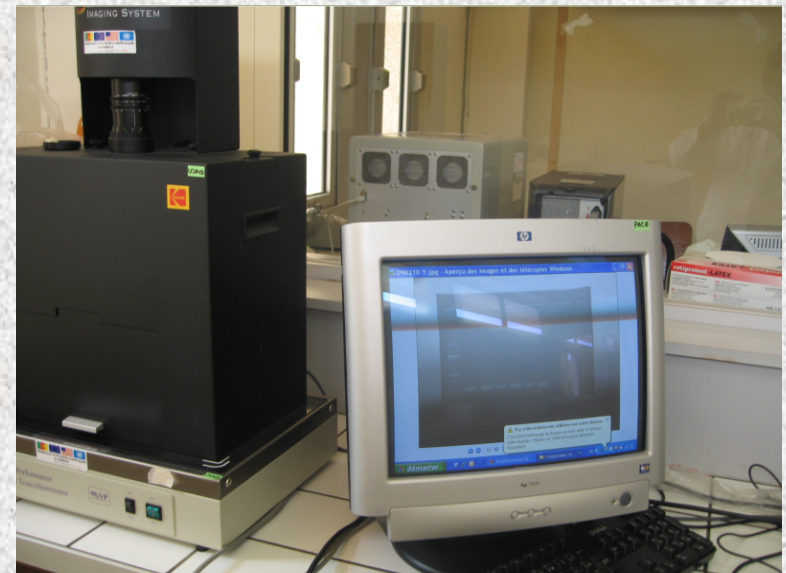
The virology unit

- Diagnostic
 - Peste des petits ruminants;
 - Newcastle disease;
 - Rabies;
 - Lumpy skin disease;
 - Bird flu;
 - Etc.
- Virus isolation (cell cultures, embryonnated eggs)
- Serology
- PCR (classical and real



The parasitology unit

- Diagnostic
 - Hemoparasites
 - Helminthes
- Microscopy,
- PCR



Biochemistry

- **Clinical biochemistry**

- Glycaemia
- Transaminases
- Mineral Dosage
- Etc.

- **Toxicology**

- Strychnine
- Arsenic
- Mercure
- Etc.

- **Biochimie alimentaire**

- Dosage of glucides
- Water analysis
- Dosage of Nitrogen in food



DEPARTEMENT OF VACCINE PRODUCTION

- Bacterial Vaccines
 - « Lived » vaccines (lyophilised)
 - « Killed » vaccines (produced in fermenters)
- Viral vaccines:
 - « Lived » vaccines
 - « Killed » vaccines
- 20 millions doses of vaccines are produced yearly and half are exported to Benin, Burkina Faso, Ghana, Côte d'Ivoire, Togo, Tchad, CAR and



Bacterial vaccines against:

- CBPP
- Anthrax
- Black quarter
- Bovine pasteurellosis
- Avian Pasteurellosis
- Etc.



Viral Vaccines against:

- Newcastle disease;
- Gumboro disease;
- Infectious bronchitis;
- Peste des petits ruminants;
- Lumpy skin disease;



Department of quality control

- Microbiological control: titration, identity, research of contaminations ;
- Physico-chemical controls:
 - Humidity titration
 - Aluminium and formol titration
- Clinical control: innocuity et efficacy on mice or on cattle



Quality control

- The external quality control is undertaken in PANVAC (Debre Zeit, Ethiopia) for some vaccines:
 - Peste des petits ruminants;
 - Contagious bovine pleuropneumonia.
- LANAVET is also involved in quality assurance programme network for the diagnosis of some diseases:
 - Avian Flu : coordinated par the Padova laboratory
 - Brucellosis: coordonné by IAEA
 - Salmonella and Campylobacter: coordinated by WHO

Contribution of LANAVET to the project EDULINK

- Welcoming students for training in our premisses;
- Common research programmes with other partners (Veterinary school , Ngaoundéré)
- Involvement of the LANAVET staff in training students in microbiology, infectious diseases and molecular biology.

Research and partners

- Present researches are focussing on:
 - Peste des petits ruminants:
 - Contagious bovine pleuropneumonia
 - Poxviroses
- Objectives:
 - Develop new vaccines
 - Obtain epidemiological data
- Partners (in finance, training or research);
 - IAEA, Vienna;
 - CIRAD-BIOS, Montpellier;
 - FAO;
 - USAID;
 - IRAD;
 - Centre pasteur du Cameroun;
 - Universities (Ngaoundéré and Dchang);

