

FOURTH ERFAN CBPP WORKING GROUP
CONTAGIOUS BOVINE PLEUROPNEUMONIA (CBPP) RESEARCH
PROJECTS (OPPORTUNITIES AND CHALLENGES)

PRESENTED BY:

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CENTRAL VETERINARY RESEARCH LABORATORY

SOBA ,KHARTOUM ,SUDAN

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Mycoplasma Department Central Veterinary Research Laboratory (CVRL)

Soba/Sudan

Briefly information :

Established in 1975.

Consist of 2 unites(production vaccines and Diagnosis unite).

Staff of Mycoplasma Dept. contain of 8 researchers (from assistant researcher to assistant researcher professors) ,7 technical staff and 7 labors.

Some of Mycoplasma Dept. Staff (CVRL/Sudan)



Some of Mycoplasma Dept. Staff with PANVAC expert (CVRL/Sudan)



mission of Dept.

- ✓ Diagnosis of mycoplasmas .
- ✓ Production of CBPP (T1/44)vaccines.
- ✓ applicable research on animal diseases according to the research plan determined by central scientific committee.
- ✓ Participating with other specific bodies in prevention strategies plans .
- ✓ Assist postgraduates students in Mycoplasmas researches.

Researchers at culture room at Dept.



Technician at Diagnosis unite using cold centrifuge



Technician at vaccine production unit packing vaccine



About mycoplasma researches in Sudan

- Since 2000 up to now there are 20 researches were done in mycoplasma and 10 of them were CBPP studies.
- Noted rarely of studies.

Currently researches proposals

- Development and Improvement of CBPP and CCPP diagnosis with special respect to the complement fixation test (CFT) , enzyme linked Immunosorbant assay (ELISA)and (ICT).
- Increase Efficacy of the Current T 1/44Vaccine for Contagious Bovine Ppleuropneumonia.
- Study of contagious bovine pleuropneumonia (CBPP) vaccine (efficacy &safety) in field.
- Production of Contagious Caprine Pleuropneumonia(CCPP)Vaccine.
- Production of *Mycoplasma gallisepticum* vaccine and rapid stained antigen in Sudan.

opportunities

- Collaborative ,active and keen staff.
- Equipped research environment in Dept.
- Various *Mycoplasma* isolates.
- capability to team up with other labs and institutes.
- integrated in some funded projects (LESP funded by EU).

Kitchen



Diagnosis lab.



needs

- Lyophilizer machine for isolates lypholization.
- ELISA reader (computerized).
- ELISA washer.
- American collection (ATCC) For verification and validation.
- Molecular diagnostic equipments(Serological kits(c.ELISA and CFT).
- Thermocycler machine, electrophoresis, nanodrop and sequencer)
- Molecular diagnostic reagents.

Training requirements



Antigens production.

CFT as serological Technique.

Molecular biology (multiplex PCR).

Basic bioinformatics.

Whole genome sequence.

Next generation system.

THANKS FOR ATTEND AND
CONSIDERATION

Eslah Habib