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## Molecular characterization of infectious Bursal disease virus in Morocco

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Infectious Bursal disease virus (IBDV) is major pathogen of chickens that replicates in the lymphocytes of the Bursa of Fabricius. It is responsible for an immunosuppressive disease that may cause death or impaired growth in the young chicken, and result major economical losses for industrial broiler production. IBDV belongs to the family Birnaviridae, together with other non-enveloped icosahedral viruses the genomes of which consist of two segments of double – stranded RNA. The disease affected severely Moroccan industrial poultry industry and its socio-economical impact is significant.

Objective of this study was to developed new tools for rapid characterization of circulate IBDV strains in Morocco.

Firstly, we isolated the virus in SPF eggs, and then we realized a multiplication and titration on CELL culture. Virus identification was performed by the agar gel immunodiffusion test, by molecular techniques and histopathological test.

Secondly, a classical RT-PCR was developed for genome amplification. This molecular technique was applied to amplify the conserved genomic portion, coding for VP1, and the hypervariable region of the VP2 gene of 80 isolates IBDV was isolated between 1991 and 2010.

30 of 80 (37, 5%) of the isolates were positive for VP2 and 40 of 80 (50 %) were positive for VP1. The genome of this Moroccan isolate is sequencing for objective to dress a phylogenetic relation between Moroccan and foreign IBDV strains.

### Biography

I am a student here in Morocco i am peraring for a PHD in veterinary medecine especialization medical virology . I have published more than 5 papers in reputed journals.