

2<sup>nd</sup> Indo-Global Summit & Expo on

# Veterinary

October 26-28, 2015 Hyderabad, India

## A report on occurrence of *Leptonema* from Andhra Pradesh

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*Leptonema* are spirochaetes closely related to leptospire but classified under different genome. They are morphologically similar to leptospire but ultrastructurally different. During the process of isolation and identification of *Leptospira* from different parts of Andhra Pradesh *Leptonema* organisms were also isolated and identified. A total of 448 clinically suspected samples were collected from suspected cases of cattle (26), sheep (42), dogs (13), pigs (15), humans (53), rats (299) and stagnant water from rice field (10) and subjected to isolation of *Leptospira* using EMJH liquid medium. A total of 17 leptospiral organisms were recovered from sheep (5), rats (5), pigs (4), humans (2) and rice field water (1) on isolation. Out of 17 isolates two isolates were found to have sluggish motility which is different from that of *Leptospira* and suggestive of *Leptonema*. During the process of isolation, these two isolates were also adapted to grow in the EMJH liquid medium. Later all the *Leptospira* isolates were subjected for characterization using 16SrRNA PCR with specific primers for amplification. The amplified PCR products of 16S rRNA were subjected for nucleic acid sequence analysis. The results of sequence of DNA analysis revealed the presence of *Leptonema*. Out of two isolates of *Leptonema*, one from sheep and another from rat were recovered. Further details of isolation and characterization of the *Leptonema* isolates will be discussed during presentation.

### Biography

D Rani Prameela is currently working as an Associate Professor and Head of State Level Animal Disease Diagnostic Laboratory at College of Veterinary Science, Sri Venkateswara Veterinary University, India.

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