

### Thursday 5 November **EU-India PARTNERING EVENT**

**Theme:** Sustainable production and management of biological resources from land, forest and aquatic environment

#### **RESEARCHER'S NAME:**

R. K. Singh RESEARCHER'S ORGANISATION:

National Research Centre on Equines; Sirsa Road, Hisar-125 001, India



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## RESEARCH CENTRE



- NRCE ⇒ only institute on equine researchable issues in SEA; Established in 1985
- Strengths
  - 25 scientists (average age 35 years)
  - Research facilities: well-equipped labs
  - BSL-3 facilities (1 each for NRCE/VTCC)
  - Experimental animal house; Equine farms at Hisar & Bikaner
- Research thrusts include
  - Research Areas: inf/non-inf diseases of equines including immunology, Mol Biol, Mol genetics of equines, conservation & preservation of true-to-breed equids
  - New generation equine disease diagnostics & vaccines
  - Genetic characterization & conservation of horses & donkeys
- Certification for EXIM
- VTCC  $\Rightarrow$  national facility for microbial cultures
  - 10 scientists ⇒ microbes of animal significance including zoonoses



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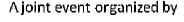


#### PROJECT IDEA



- EI endemic in countries with horses
- Current EI vaccines
  - short-lived immunity, No CMIR, vaccination (if routine) twice/year
  - 4-6 weeks window period (CaPV-vectored 2 weeks WP)
  - DIVA not possible
- Vaccines with long-term immunity with advantage of DIVA
- Experimental new generation vaccines for Influenza 'A' viruses with universality in mind
  - DNA vaccine encoding H and M protein genes
  - IL-6/IL-12 gene as adjuvant
  - Induce CMIR
- Rapid diagnostics employing
  - mass spectrometry or
  - any other method with potential for diagnosing within initial 24-48 hrs















## PARTNER SOUGHT



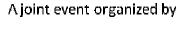
# 1. Any laboratory working on new generation Influenza "A" vaccines

- Preferable if EIV model is being worked upon
- Virus-vectored/DNA vaccines

# 2. Lab with clinical proteomics expertise & mass spectrometry facilities

- Clinical proteomics in disease diagnosis
- Agent identification/characterization















#### **CONTACT DETAILS**



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