



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** \Rightarrow 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 \Rightarrow 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



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CONTACT DETAILS



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