

Information and Networking Event Horizon Europe 2023 Calls Co-Funded by the Government of India (DBT)



HORIZON-HLTH-2024-DISEASE-08-20: Pandemic preparedness and response: Host-pathogen interactions of infectious diseases with epidemic potential

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Leena R Yeolekar Serum Institute of India Pvt Ltd Country: India

Serum Institute of India Pvt Ltd (SIIPL)

- Serum Institute of India Pvt. Ltd. (SIIPL) is the world's largest vaccine manufacturer by number of doses produced and sold
- SIIPL's WHO pre-qualified vaccine include Polio, Diphtheria, Tetanus, Pertussis, Hib, BCG, r-Hepatitis B, Rotavirus, Influenza, Measles, Mumps and Rubella vaccines.
- SIIPL has an active R&D team with extensive scientific expertise in the field of basic research, viral vaccine manufacturing and conduct of clinical trials.
- SIIPL has an extremely good success record in implementing collaborative project for the development and licensure of vaccines.

Cell-based live attenuated influenza vaccine (LAIV): Understanding immune repertoire and efficacy through human challenge studies

Under this project SIIPL would like to-

- Explore and understand the induction of mucosal, humoral and cellular immune response in human subjects on intranasal immunization with LAIV
- Study vaccine efficacy of the LAIV in human challenge studies.

LAIV

- Safety and efficacy of LAIV is well established and a commercial egg-based LAIV is manufactured by SIIPL.
- Availability of specific pathogen free eggs is a major limitation for egg based vaccine especially during pandemic when sudden demand for vaccine increases exponentially.
- Taking this into consideration SIIPL has developed a cell-based LAIV.
- Safety and efficacy of this vaccine has been established in ferrets.

Consortium-Partners

Looking for partners for the following

- Conduct Phase 1 clinical trial of LAIV using candidate pandemic strains of H5 and/or H7 under controlled conditions to establish vaccine safety
- •Conduct human challenge study using seasonal influenza strain(s) to establish vaccine efficacy
- •Study mucosal, humoral and cellular immune response using various techniques with a aim to identify immunological markers of protection.

Profile of partners sought

- Having capacity to conduct clinical trials under controlled conditions
- •Laboratories with experience in conducting human challenge studies of influenza
- Laboratory with capacity to study various immunological parameters

Keywords

•LAIV, mucosal, humoral and cellular immune response, Human challenge

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