



Thursday 5 November  
EU-India PARTNERING EVENT

*Theme: Health*

**Professor Polly Roy**  
**London School of Hygiene and Tropical**  
**Medicine**

A joint event organized by



This event is co-funded by  
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# RESEARCH CENTRE



*Health Health Health Health*



**LSHTM** is Britain's national school of public health and a leading postgraduate institution for education in global health. LSHTM is the largest institution of its kind in Europe and has depth and breadth in many research disciplines.

## **Research areas include:**

Pathogens (including viruses, bacteria and parasites); Immunology; Epidemiology

## **Significant vaccine initiatives are sponsored by:**

World Health Organisation; HO Global Alliance for Vaccines and Immunization (GAVI); Gates Foundation; European commission

**Roy laboratory:** Advanced virus engineering; novel vaccines; structure and function; reverse genetics systems; animal and human pathogens

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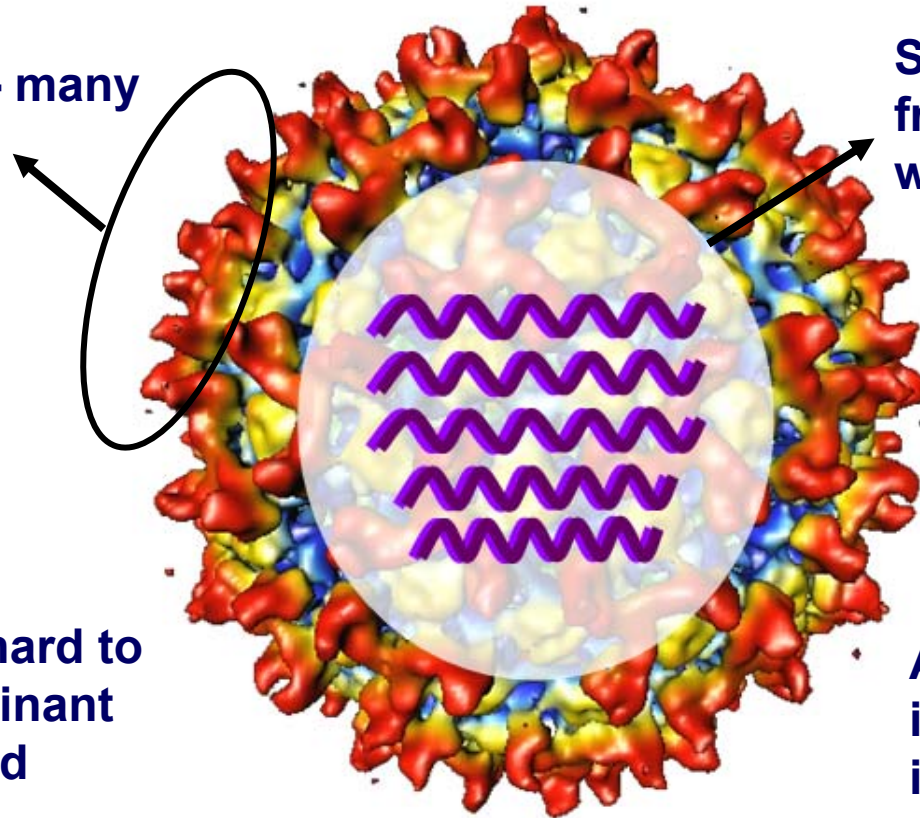


# PROJECT IDEA

*Health Health Health Health*

**Highly variable  
surface layers – many  
strains**

**Segmented genome –  
frequent exchange  
with 2<sup>nd</sup> virus**



**Field strains hard to  
grow, recombinant  
route preferred**

**Attenuation and  
inactivation uncertain  
in some cases**

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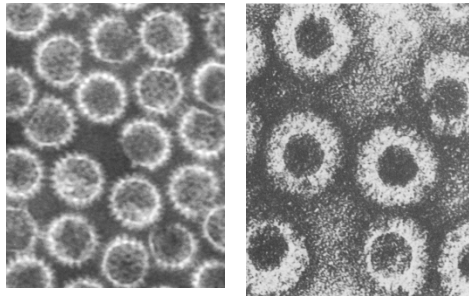




# PROJECT IDEA



*Health* - Applying technology to circumvent problems

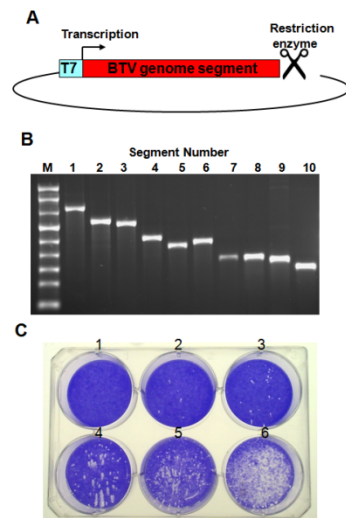


## Virus Like Particles (no genome)

- Completely safe
- No breakthrough in the field

## Reverse genetics

- Real virus but disabled for growth in host
- Completely safe
- Designer virus



## Common beneficial features

- **Gene to vaccine**
- **Protein only components**
- **No change of core components**
- **Ease of manufacture**

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# PARTNER SOUGHT



*Health Health Health Health*

- **Indian strains for relevant local viral vaccines**
- **Collaborators in Universities, Research Institutes and Industry to monitor vaccine reponses**
- **Manufacturing Small and Medium size vaccine companies**

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# CONTACT DETAILS



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