

## Mucosal Vaccines

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Mucosal vaccination involves the administration of vaccines at one or more mucosal sites leading to induction of immune responses at the mucosal site of administration, other mucosal sites, and/or systemically. Figure 1 highlights the relative advantages and limitations of mucosal vaccination.

Mucosal Vaccination | British Society for Immunology  
Mucosal vaccines, unlike systemic vaccines, are best suited to induce immune responses at mucosal surfaces, the most common portal of pathogen entry. Vaccines based on replication-competent or replication-defective adenoviruses derived from multiple serotypes and designed to express antigens from other pathogens are well tolerated in humans.

Mucosal Vaccines | ScienceDirect  
In humans, one of the more successful mucosal vaccines is the oral polio vaccine. This is an attenuated, live-virus vaccine and thus brings the advantage of replication and packaging that enhances the immunogenicity.

Mucosal Vaccine - an overview | ScienceDirect Topics  
Mucosal vaccines may be used in a broader range of individuals originating a reduction in the rate of infections. The research field of mucosal vaccines has shown significant progress over the past years. New delivery systems, adjuvants, and immunization strategies have gradually increased the potential of mucosal vaccines.

Mucosal vaccines: Strategies and challenges - ScienceDirect  
There is an urgent and unmet need to develop effective vaccines to reduce the global burden of infectious disease in both animals and humans, and in particular for the majority of pathogens that infect via mucosal sites. Here we summarise the impediments to developing mucosal vaccines and review the new and emerging technologies aimed at overcoming the lack of effective vaccine delivery systems that is the major obstacle to developing new mucosal vaccines.

Mucosal vaccines and technology - PubMed  
Intranasal vaccination is an attractive strategy as the nasal mucosa represents the first-line barrier to SARS-CoV-2 entry before viral spread to the lung. In contrast, current intramuscular...

Preclinical data for COVID-19 vaccine candidate show ...  
Most infectious agents enter the body at mucosal surfaces and therefore mucosal immune responses function as a first line of defence. Protective mucosal immune responses are most effectively induced by mucosal immunization through oral, nasal, rectal or vaginal routes, but the vast majority of vaccines in use today are administered by injection.

Mucosal vaccines: the promise and the challenge  
Currently, there are few approved mucosal vaccines, and most are attenuated viruses or bacteria, which necessitates cold chain, carries the risk of reversion to virulence, and can have limited efficacy in individuals with poor mucosal health. On account of these limitations, new types of mucosal vaccine vectors are necessary.

Adjuvant Strategies for Lactic Acid Bacterial Mucosal Vaccines  
Mucosal vaccine trials for pneumococcal carriage and invasive disease in humans have lagged behind animal work, despite compelling evidence that many strategies are worth pursuing. There are effective pneumococcal vaccines for at-risk groups, and low-risk individuals who are not candidates for the current vaccines have a very low incidence of carriage and invasive disease.

Mucosal Vaccines for Streptococcus pneumoniae - ScienceDirect  
Mucosal surfaces are a major portal of entry for many human pathogens that are the cause of infectious diseases worldwide. Vaccines capable of eliciting mucosal immune responses can fortify defenses at mucosal front lines and protect against infection.

Mucosal Vaccine Design and Delivery | Annual Review of ...  
Mucosal Vaccines: Innovation for Preventing Infectious Diseases discusses basic knowledge and discovery in the area of mucosal immunology and its related scientific fields. This completely updated, revised and authoritative treatise covers all aspects of mucosal vaccines, including their development, mechanisms of action, molecular/cellular aspects and practical applications.

Mucosal Vaccines - 1st Edition - Elsevier  
A few facts about mucosal vaccines: Vaccine is presented in a manner consistent with natural infection. More than 75 percent of immune cells reside near the mucosal surface where initial infection occurs. Provokes both innate and adaptive immunity.

Mucosal Vaccines - Aptimmune  
Mucosal Vaccines is organized in a unique format in which basic, clinical, and practical aspects of the mucosal immune system for vaccine development are described and discussed. This project is endorsed by the Society for Mucosal Immunology .

Mucosal Vaccines | ScienceDirect  
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delivered vaccines are unable to induce protective immunity at these surfaces. In contrast, delivery of vaccines via the mucosal routes can allow antigens to interact with the mucosa-associated lymphoid tissue (MALT) to induce both mucosal and systemic immunity. The induced mucosal immunity can neutralize the pathogen

Mucosal vaccine delivery: Current state and a pediatric ...  
Most human pathogens utilize mucosal surfaces to access the host. This volume is focused on the development of vaccines which generate immune effectors capable of blocking mucosal entry or peripheral pathogen spread. A critical first step in the design of mucosal vaccines is the selection of administration route.

Mucosal Vaccines: Modern Concepts, Strategies, and ...  
Mucosal Vaccines: Innovation for Preventing Infectious Diseases discusses basic knowledge and discovery in the area of mucosal immunology and its related scientific fields. This completely updated, revised and authoritative treatise covers all aspects of mucosal vaccines, including their development, mechanisms of action, molecular/cellular aspects and practical applications.

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