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Mucosal Vaccines

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Mucosal Vaccines

presented in
chapter format.

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A few facts
about mucosal
vaccines:
Vaccine is
presented in a
manner
consistent with
natural
infection. More
than 75 percent

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of immune cells reside near the mucosal surface where initial infection occurs. Provokes both innate and adaptive immunity. Provides a fast immune response leading to ...

Mucosal Vaccines

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Mucosal Vaccines

- **Aptimmune**

Mucosal
vaccination
involves the
administration
of vaccines at
one or more
mucosal sites
leading to
induction of
immune responses
at the Mucosal
tissues (e.g.
nasal, oral,

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ocular, rectal, vaginal) cover a large surface of the body.

Mucosal Vaccination | British Society for Immunology

Prophylactic
vaccines against
mucosal
pathogens
(influenza,

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rotavirus,
HPV..) require
the presence of
antibodies at
the mucosal
pathogen entry
site, either
directly induced
by the mucosal
route of
immunization, or
after
transudation of
serum antibodies

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elicited by the conventional routes of immunization.

Mucosal vaccines – PubMed Central (PMC)

As a result, only a few mucosal vaccines have been approved for human use in the

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United States or elsewhere. These include oral vaccines against polio- virus³, Salmonella typhi¹, V. cholerae¹ and rotavirus⁴, and a nasal vaccine against influenza virus⁵.

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Mucosal Vaccines

Mucosal vaccines: the promise and the challenge

Mucosal vaccines

As much as 90
percent of
infections occur
at mucosal
surfaces, yet
the vast
majority of
effort is
directed toward

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Mucosal Vaccines

developing and testing vaccines that drive systemic and not mucosal responses.

**Mucosal vaccines
– Vector and
Vaccine
Engineering Lab**

...

Currently, there are few approved

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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

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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 vaccines

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that are given orally or deposited directly on mucosal surfaces face the same gauntlet of host defences as do microbial pathogens: they are diluted in mucosal secretions, captured ...

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Mucosal Vaccines

**Mucosal
vaccines: the
promise and the
challenge |
Nature ...**

Mucosal Vaccines
is organized in
a unique format
in which basic,
clinical, and
practical
aspects of the
mucosal immune

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system for vaccine development are described and discussed. This project is endorsed by the Society for Mucosal Immunology .

Mucosal Vaccines
- 1st Edition -
Elsevier

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Mucosal Vaccines

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Parainfluenza
Virus Vaccines.

25 - Development
of a Mucosal
Rotavirus ...

Mucosal Vaccines
| ScienceDirect

Mucosal surfaces
in the lung and

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intestine are exposed to environmental antigens and allergens and, in the case of the intestine, abundant food antigens. They are also exposed to a variety of infectious organisms such as viruses

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Mucosal Vaccines

(influenza, polio, SARS, HIV), bacteria (Staphylococcus, Streptococcus, Anthrax), and parasites (Toxoplasma).

Mucosal Immunology

A Mucosal RSV
Vaccine.

Therefore, this

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mucosal vaccine platform is an ideal candidate for developing a mucosal vaccine that protects against pathogens which enter at mucosal surfaces, as is the case for RSV. Using this patented mucosal immunization

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strategy, a safe and effective RSV vaccine will be developed.

A Mucosal RSV Vaccine | SBIR.gov

Mucosal immunization with PspA can also elicit immunity to carriage

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(11,12) . This notion was confirmed by the observation that induction of protective antiviral memory CTL in mucosal tissues depends on region-specific mucosal immunization (36) .

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**Mucosal
immunization |
definition of
mucosal
immunization ...**

Attenuated Viral
Vaccines for
Mucosal Immunity
to Combat
Emerging
Infectious
Diseases. Due to
its relatedness
with

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A/Chicken/Hong Kong/258/97 (H5N1) virus, the production of this virus for vaccine purposes was severely hampered because of its lethal effect on chicken eggs. The use of CAIV,

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produced by
reassortment, . . .

Vaccines for Mucosal Immunity - Medscape

Mucosal
Vaccines:
Innovation for
Preventing
Infectious
Diseases
discusses basic
knowledge and

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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,

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including their development, mechanisms of action, molecular/cellular aspects and practical applications.

**Mucosal
Vaccines:
Innovation for
Preventing
Infectious ...**

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Such mucosal vaccines are much warranted, as they carry several advantages over injectable vaccines. In particular, mucosal vaccines can elicit both local and systemic immune responses and

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they are safer as they do not require needles and may allow for mass vaccination, when pandemic spread of infection is a threat [1, 2].

**Mucosal Vaccine
Development
Based on**

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Liposome Technology

Mucosal vaccines have been more successful in the veterinary field, with spray and drinking water vaccines routinely used for mass vaccination in poultry farming.

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Recent
introduction of
edible
gel?bead?based
vaccine systems
offer a more
stable mucosal
delivery,
protecting live
vaccines against
environmental
inactivation to
improve
bioavailability.

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Mucosal vaccines and technology

Targeting
regulatory or im
munostimulatory
mucosal DCs
constitutes a
major challenge
to the
development of
adjuvants and
vaccine
formulations.

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Mucosal Vaccines

Mucosal vaccines
against
infections

Mucosal immunity and vaccines | Nature Medicine

Mucosal Vaccine
Mucosal vaccines
are able to
localize TB-
reactive T cells
to the lung and
airways mucosa

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and these cells rapidly fill the immunological gap in the lung to rapidly eliminate and protect against M.tb infection (Horvath and Xing, 2013).

**Mucosal Vaccine
- an overview |
ScienceDirect**

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Topics

Mucosal

Vaccines:

Innovation for

Preventing

Infectious

Diseases

discusses basic

knowledge and

discovery in the

area of mucosal

immunology and

its related

scientific

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fields. This completely updated, revised and authoritative treatise covers all aspects of mucosal vaccines, including their development, mechanisms of action, molecular/cellular

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aspects and
practical
applications.

Mucosal Vaccines - 1st Edition

Mucosal Vaccines
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a unique format
in which basic,
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aspects of the
mucosal immune

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system for
vaccine
development are
described and
discussed. This
project is
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