Immunity Against Mucosal Pathogens

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Immunity Against Mucosal Pathogens

The critical role of mucosal immunity for protection ...
Mucosal pathogens like B bronchiseptica differ from nonmucosal pathogens in the way they cause disease and interact with the host immune system Because mucosal vaccines take advantage of mimicking the natural route of infection, they are thought to have the desired protection The goal of vaccination against mucosal pathogens is to produce
Vaccines for Mucosal Immunity to Combat Emerging ...
line of defense against mucosally transmitted pathogens such as influenza Mucosal defense against pathogens consists of both innate barriers, such as mucous, epithelium, and innate immune mechanisms, and adaptive host immunity, which at mucosal surfaces consists predominantly of CD4+ T cells, secretory immunoglobulin A (S-
MUCOSAL IMMUNITY
potential pathogens the mucosal membranes of the digestive tract must allow for the absorption of effective mucosal immunity the main humoral mediators of specific mucosal immunity are secretory iga and, to a lesser extent, vaccines against mucosal infections must
Mini The Mucosal Immune Response in Health and Disease ...
1 Introduction to mucosal immunity 2 Mucosal immunity in the gut 3 Inducing mucosal immunity for treating disease 1 Introduction to mucosal immunity The immune system can be considered a complex and diverse system designed to protect the body from dangerous pathogens The mucosal surfaces, which can exceed 300 m2 in humans, are particularly
Mucosal delivery of tuberculosis vaccines: a review of ...
REVIEW Mucosal delivery of tuberculosis vaccines: a review of current approaches and challenges Elena Stylianou a, Matthew J Paul b*, Rajko Reljic

† and Helen McShane † aThe Jenner Institute, Nuffield Department of Medicine, University of Oxford, Oxford, UK; bInstitute for Infection and Immunity, St George's University of London, Tooting, London, UK

Connexins in respiratory and gastrointestinal mucosal immunity

4 Mucosal immunity and tolerance Being at the interface with the outside environment, the muco-sal immunity has a complex task of controlling the balance be-tween tolerance of the beneficial microbiota and inducing innate responses against pathogens [1,27] The immune system recog-nizes pathogen-associated molecular patterns (PAMPs) through

Induction of mucosal immunity through systemic ...

IgA responses or protective mucosal immunity Nevertheless, currently licensed systemic vaccines do provide effective protection against mucosal pathogens such as influenza viruses and Streptococcus pneumoniae However, whether systemic immunization induces protective mucosal immunity remains a controversial topic

MUCOSAL IMMUNITY IN THE RESPIRATORY TRACT: THE ROLE ...

directed towards the respiratory mucosal immunity in order to improve the degree of host protection in the lungs In this thesis we studied the effect of the route of immunization as well as of different mucosal adjuvants on the induction of mucosal immune responses …

Mucosal Vaccination against Enteric Pathogens in the ...

Mucosal Vaccination against Enteric Pathogens shown to consistently induce protective immunity following a single immunization at birth improve vaccine protection against enteric pathogens

Mucosal vaccines: the promise and the challenge

antigens, pathogens and vaccines that enter the body through mucosal surfaces from those that are introduced directly into tissues or the bloodstream by injection or injury It is becoming increasingly clear that local mucosal immune responses are important for protection against disease: for example, mucosal antibodies against

THE IMMUNE RESPONSE TO VACCINATION A brief review

immunization play in the generation of protective immunity against mucosal pathogens? J Immunol 2009; 183: 6883–6892 12 Coyne MJ, Burr JHH, Yule TD, Harding MJ, Tresnan DB and McGavin D Duration of immunity in cats after vaccination or naturally acquired infection Vet Rec 2001; 149: 545–548 13 Schultz RD Duration of immunity for canine

What Role Does the Route of Immunization Play in the ...

What Role Does the Route of Immunization Play in the Generation of Protective Immunity against Mucosal Pathogens? Igor M Belyakov1* and Jeffrey D Ahlers

Effective Respiratory CD8 T-Cell Immunity to Influenza ...

systemic and/or mucosal CTL memory to non-replicating antigens, and by tailoring the route of vaccine delivery we can engender CTL-based protective immunity against systemic and mucosal pathogens Results Adjuplex induces robust expansion of antigen-specific CD8 and CD4 T cells

Vaccination Strategies to Promote Mucosal Antibody Responses

Immunity Review Vaccination Strategies to Promote Mucosal Antibody Responses Kang Chen 1and Andrea Cerutti ,2 * 1Department of Medicine, Immunology Institute, Mount Sinai School of Medicine, One Gustave L Levy Place, New York, NY 10029, USA 2Catalan Institute for Research and Advanced Studies, IMIM-Hospital del Mar, Barcelona Biomedical Research Park, Av Dr Aigu¨ader 88,

Lymphotoxin Beta Receptor Signaling in Intestinal ...

against mucosal pathogens; however, their coordi-nation with innate and adaptive immune cells is not well understood Using mice with conditional gene deficiencies, we found that lymphotoxin (LT) from innate cells expressing transcription factor RORgt, but not from adaptive T and B cells, was essential for the control of mucosal C rodentium

Methods and clinical development of adenovirus-vectored ...

3 Adenovirus-vectored vaccines against mucosal pathogens S Afkhami et al Official journal of the American Society of Gene & Cell Therapy Molecular Therapy — Methods & Clinical Development (2016) 16030 carrying a given transgene cassette and the adenovirus backbone 18 This strategy is relatively straightforward and can be easily per-

Type 1 Immunity Provides Both Optimal Mucosal and Systemic ...

It has been hypothesized that optimal vaccine immunity against mucosally invasive, intracellular pathogens may require the induction of different types of immune responses in mucosal and systemic lymphoid tissues Mucosal type 2/3 responses (producing interleukin-4 [IL-4], IL-6 and/or transforming growth factor) could

Host Factors A ecting Generation of Immunity Against ...

pathogens Review Host Factors A ecting Generation of Immunity Against Porcine Epidemic Diarrhea Virus in Pregnant and Lactating Swine and Passive Protection of Neonates Stephanie N Langel 1,*, Qiuhong Wang 2, Anastasia N Vlasova 2 and Linda J Saif 2,* 1 Duke Human Vaccine Institute, Duke University Medical Center, Durham, NC 27710, USA

Mucosal Vaccine Using CTL Epitope-Pulsed Dendritic Cell ...

mucosal CTL generation and protective immunity against in-tracellular pathogens The present study was conducted to develop an efficacious mucosal DC vaccine for CTL generation against respiratory infections with intracellular pathogens To this end, we intra-tracheally inoculated lipopolysaccharide (LPS)-modified DC