

Title (en)  
VACCINE AGAINST PATHOGENS OF MUCOSAE USING LIPOSOMES.

Title (de)  
IMPFSTOFF GEGEN MUKOSAPATHOGENE UNTER VERWENDUNG VON LIPOSOMEN.

Title (fr)  
VACCINS RECOURANT A DES LIPOSOMES, UTILISES CONTRE LES AGENTS PATHOGENES DES MUQUEUSES.

Publication  
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Application  
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Priority  
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Abstract (en)  
[origin: WO9308834A1] Lipopolysaccharide (LPS) and outer-membrane protein (OMP) preparations of Bordetella pertussis were incorporated into multilamellar liposomes composed of soya bean derived phospholipids. After oral or intranasal vaccination of mice with the coated liposomes, specific antibody responses were detected in lung washes. However, a specific IgA response to LPS could be detected after immunisation with only the OMP-coated liposomes and not with the LPS-coated liposomes suggesting adjuvant activity bestowed by the proteins. The OMP-coated liposomes were significantly more effective in inducing an immune response than the OMP preparation alone. Responses were highest when mice were given a booster 30 days after primary immunisation. The maximum response occurred 20 days after the booster but specific antibody could still be detected 75 days after secondary immunisation. These results suggest that this liposome antigen delivery system has potential in stimulating secretory antibody responses which may be necessary to effectively protect against infection from B. pertussis.

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