

Vaccination

[View the current Vaccination InDepth page on BioPortfolio.com](http://www.bioportfolio.com/indepth/Vaccination.html)

(<http://www.bioportfolio.com/indepth/Vaccination.html>)

Vaccination is the administration of antigenic material to produce immunity to a disease. Vaccines can prevent or ameliorate the effects of infection by a pathogen. The material administered can either be live, but weakened forms of pathogens such as bacteria or viruses, killed or inactivated forms of these pathogens, or purified material such as proteins. Smallpox was the first disease people tried to prevent by purposely inoculating themselves with other types of infections; smallpox inoculation was started in India or China before 200 BC. In 1718, Lady Mary Wortley Montague reported that the Turks have a habit of deliberately inoculating themselves with fluid taken from mild cases of smallpox and she inoculated her own children. Before Edward Jenner tested the possibility of using the cowpox vaccine as an immunisation for smallpox in humans in 1796 for the first time, at least six people have done the same several years earlier: a person whose identity is unknown, England, , Mrs. Sevel, Germany , Mr. Jensen, Germany , Benjamin Jesty, England, in 1774, Mrs. Rendall, England and Peter Plett, Germany, in 1791. In 1796 Edward Jenner inoculated using cowpox . Pasteur and others built on this. Vaccination efforts have been met with some controversy since their inception, on ethical, political, medical safety, religious, and other grounds. Early success and compulsion brought widespread acceptance and mass vaccination campaigns were undertaken which are credited with greatly reducing the incidence of many diseases in numerous geographic regions. The eradication of smallpox, which was last seen in a natural case in 1977, is considered the most evident success of vaccination.

Recent Publications on Vaccination:



- [DNA vaccination with a mutated p53 allele induces specific cytolytic T cells and protects against tumor cell growth and the formation of metastasis.](#)
*PURPOSE: Genetic vaccination by expression plasmids that encode mutant p53...*11th October, 2008
Center for Clinical Research, University Hospital Freiburg, Breisacherstr.- J Cancer Res Clin Oncol. 2008 Oct 10. ([DOI Direct Link](#))
- [Vaccination coverage among adolescents aged 13-17 years - United States, 2007.](#)
*PURPOSE: Genetic vaccination by expression plasmids that encode mutant p53...*11th October, 2008
- MMWR Morb Mortal Wkly Rep. 2008 Oct 10;57(40):1100-3.
- [Pneumonia After Implementation of the Pneumococcal Conjugate Vaccine Program in the Province of Quebec, Canada.](#)
*BACKGROUND:: In Canada, a pneumococcal conjugate vaccine was licensed in...*11th October, 2008
From the *Department of Social and Preventive Medicine, Laval University,- *Pediatr Infect Dis J.* 2008 Oct 7. ([DOI Direct Link](#))
- [Candidate Q fever serodiagnostic antigens revealed by immunoscreening a Coxiella burnetii protein microarray.](#)
*Q fever is a widespread zoonosis caused by Coxiella burnetii. Diagnosis of...*11th October, 2008

- Coxiella Pathogenesis Section, Laboratory of Intracellular Parasites, and- Clin Vaccine Immunol. 2008 Oct 8. ([DOI Direct Link](#))
- [Measles-Mumps-Rubella Vaccination and Asthma-like Disease in Early Childhood.](#)
The authors evaluated the association between receipt of... 11th October, 2008
 - Am J Epidemiol. 2008 Oct 8. ([DOI Direct Link](#))
 - [Dendritic cells pulsed with keyhole limpet hemocyanin and cryopreserved maintain anti-tumor activity in a murine melanoma model.](#)
We compared viability, phenotype, in vitro function and therapeutic... 11th October, 2008
 Department of Surgery, University of Michigan Medical Center, Ann Arbor,- Clin Immunol. 2008 Oct 7. ([DOI Direct Link](#))
 - [Acute myeloid leukemic cell lines loaded with synthetic dsRNA trigger IFN-gamma secretion by human NK cells.](#)
Natural killer (NK) cells are key players of innate immunity. Besides... 11th October, 2008
 Vaccine & Infectious Disease Institute (VIDI), Laboratory of Experimental- Leuk Res. 2008 Oct 7. ([DOI Direct Link](#))
 - [Analysis of adverse events of potential autoimmune aetiology in a large integrated safety database of AS04 adjuvanted vaccines.](#)
Newly licensed vaccines against human papillomavirus (HPV) and hepatitis B... 11th October, 2008
 GlaxoSmithKline Biologicals, Rixensart, Belgium.- Vaccine. 2008 Oct 6. ([DOI Direct Link](#))
 - [Changes in Streptococcus pneumoniae serotypes causing invasive disease with non-universal vaccination coverage of the seven-valent conjugate vaccine.](#)
The pneumococcal seven-valent conjugate vaccine (PCV7) has been... 11th October, 2008
 Instituto de Microbiologia, Instituto de Medicina Molecular, Faculdade de- Clin Microbiol Infect. 2008 Sep;14(9):835-43. ([DOI Direct Link](#))
 - [Cutaneous leishmaniasis: progress towards a vaccine.](#)
Leishmaniasis are vector-borne diseases due to the protozoan parasite... 11th October, 2008
 WHO-Immunology Research and Training Center, Department of Biochemistry,- Expert Rev Vaccines. 2008 Oct;7(8):1277-87. ([DOI Direct Link](#))
 - [Mucosal vaccination against bacterial respiratory infections.](#)
Mucosal vaccination offers attractive advantages to conventional systemic... 11th October, 2008
 Immunological Unit, Department of Pediatric Pulmonology and Neonatology,- Expert Rev Vaccines. 2008 Oct;7(8):1257-76. ([DOI Direct Link](#))
 - [Smallpox vaccines for biodefense: need and feasibility.](#)
Smallpox, eradicated as a cause of natural disease through an intensive... 11th October, 2008
 Department of Medicine, Brown University, Memorial Hospital of RI, 111- Expert Rev Vaccines. 2008 Oct;7(8):1225-37. ([DOI Direct Link](#))
 - [Measles vaccination: new strategies and formulations.](#)
Measles is a highly contagious viral disease. With 1 million deaths... 11th October, 2008
 Department of Virology, Erasmus MC, PO Box 2040, 3000 CA, Rotterdam, The- Expert Rev Vaccines. 2008 Oct;7(8):1215-23. ([DOI Direct Link](#))
 - [Intradermal, epidermal and transcutaneous vaccination: from immunology to clinical practice.](#)
The dermis and epidermis are alternative sites for prophylactic... 11th October, 2008
 University Lyon 1, UFR Lyon-Sud, IFR 128 BioSciences Lyon-Gerland,- Expert Rev Vaccines. 2008 Oct;7(8):1201-14. ([DOI Direct Link](#))
 - [Lessons for tuberculosis vaccines from respiratory virus infection.](#)
There is a worldwide epidemic of increasingly drug-resistant TB. Bacillus... 11th October, 2008
 The University of Oxford, Nuffield Department of Clinical Medicine, Edward- Expert Rev Vaccines. 2008 Oct;7(8):1165-72. ([DOI Direct Link](#))

- [Flu Vaccination Walk-in Clinic in Pocatello](#)
KPVI: Oct 11 2008 1:13AM Matching: vaccination
- [ROTATEQ\(R\) Receives WHO Pre-qualification](#)
SmartBrief: Oct 11 2008 2:41AM Matching: vaccination
- [Vaccination Rates Improving for Teens, but Still Lacking](#)
Therapeutics Daily: Oct 10 2008 11:12PM Matching: vaccination
- [ROTATEQ\(R\) Receives WHO Pre-qualification](#)
Yahoo! Canada: Oct 10 2008 1:02PM Matching: vaccination
- [Rotateq Receives WHO Pre-qualification](#)
Pharma Live: Oct 10 2008 2:30PM Matching: vaccination
- [ROTATEQ\(R\) Receives WHO Pre-qualification](#)
Genetic Engineering News: Oct 10 2008 1:31PM Matching: vaccination
- [ROTATEQ\(R\) Receives WHO Pre-qualification](#)
Macro World Investor: Oct 10 2008 1:08PM Matching: vaccination
- [ROTATEQ\(R\) Receives WHO Pre-qualification](#)
Houston Chronicle: Oct 10 2008 12:56PM Matching: vaccination
- [ROTATEQ\(R\) Receives WHO Pre-qualification](#)
Street Insider: Oct 10 2008 12:46PM Matching: vaccination
- [ROTATEQ\(R\) Receives WHO Pre-qualification](#)
Calibre Macro World: Oct 10 2008 12:40PM Matching: vaccination
- [Nation's Teen Vaccination Coverage Increasing, But Below 2010 Goals](#)
Pharma Live: Oct 10 2008 12:00PM Matching: vaccination
- [Cervical Cancer Vaccination Rate at 25 Percent for Teen Girls](#)
KESQ: Oct 10 2008 3:34AM Matching: vaccination
- [Low-Dose Priming before Vaccination with the Phase I Chloroform-Methanol Residue Vaccine against Q Fever Enhances](#)
MDLinx: Oct 10 2008 2:44AM Matching: vaccination
- [Research from K. Djeriri and colleagues provide new insights into hepatitis B virus](#)
Macro World Investor: Oct 10 2008 2:18AM Matching: vaccination
- [Research from K. Djeriri and colleagues provide new insights into hepatitis B virus](#)
Calibre Macro World: Oct 10 2008 1:38AM Matching: vaccination

Vaccination Clinical Trials:



- [Safety, Tolerability and Immunogenicity of Meningococcal B Recombinant Vaccine Administered With or Without Routine Infant Vaccinations to Healthy Infants According to Different Immunization Schedules](#)
Meningococcal Infections



Vaccination Patents:

- 7425337- [Alphavirus replicon vector systems](#)
- 7427404- [Pertussis toxin mutants, bordetella strains capable of producing such mutants and their use in the development of antipertussis vaccines](#)
- 7427469- [Method of treating cytomegalovirus with DC-SIGN blockers](#)
- 7427483- [Utilization of nucleotide probes in ELISA procedure for the quantitative determination of Plasmodium falciparum DNA in malaria](#)
- 7427600- [Active agent delivery systems and methods for protecting and administering active agents](#)
- 7427602- [Sustained DNA delivery from structural matrices](#)
- 7427655- [Synthetic immunogenic but non amyloidogenic peptides homologous to amyloid .beta. for induction of an immune response to amyloid .beta. and amyloid deposits](#)
- 7427658- [Chicken anemia virus mutants and vaccines and uses based on the viral proteins VP1, VP2 and VP3 or sequences of that virus coding therefor](#)
- 7427660- [Tumor antigen](#)
- 7427665- [Chronic lymphocytic leukemia cell line](#)
- 7428494- [Method and system for generating personal/individual health records](#)
- 7427397- [Probiotic propionibacterium](#)
- 7425620- [Fc.gamma.RIIB-specific antibodies and methods of use thereof](#)
- 7425619- [Fc.gamma.RIIB specific antibodies and methods of use thereof](#)
- 7425428- [Recombinant DNA construct for HIV envelope polypeptides and polypeptides produced thereby](#)
- 7425437- [Vaccines against West Nile Virus](#)
- 7425438- [Vector for anti-HPV vaccine and transformed microorganism by the vector](#)
- 7425444- [Circovirus sequences associated with piglet weight loss disease \(PWD\)](#)
- 7425449- [Site specific Listeria integration vectors and methods for using the same](#)
- 7425543- [Microencapsulated materials and method of making same](#)
- 7425548- [Materials and methods for immune system stimulation](#)
- 7425606- [Method for screening peptides for use in immunotherapy](#)
- 7425611- [Immunogenic HIV-1 multi-clade, multivalent constructs and methods of their use](#)
- 7425612- [Genes and polypeptides relating to human colon cancers](#)
- 7429382- [Antibodies that bind cell-associated CA 125/O772P and methods of use thereof](#)
- 7429388- [Vaccine for nontypeable Haemophilus influenzae infection](#)
- 7431934- [Rapid, efficient purification of HSV-specific T-lymphocytes and HSV antigens identified via same](#)
- 7432046- [Methods for the determination of antibody IgG avidity](#)
- 7432059- [Methods of identifying compounds that upmodulate T cell activation in the presence of a PD-1 mediated signal](#)
- 7432065- [Methods of identifying modulators of interaction between PDZ domain proteins and PL proteins](#)
- 7432079- [Plant virus coat fusion proteins with GDF8 epitopes and vaccines thereof](#)
- 7432101- [Production of poxviruses with adherent or non adherent avian cell lines](#)
- 7432253- [Phosphoepoxides, method for making same and uses](#)
- 7432354- [Tumor antigen](#)
- 7432366- [Moraxella catarrhalis BASB034 polypeptides and used thereof](#)
- 7432378- [Benzoimidazole compounds](#)

- 7431933- [Hepatitis B virus DNA polymerase and surface antigen variants and methods of using same](#)
- 7431931- [Compositions and method for preventing reactogenicity associated with administration of immunogenic live rotavirus compositions](#)
- 7431930- [Infectious bursal disease virus \(IBDV\) mutant expressing virus neutralising epitopes specific for classic-and variant IBDV strains](#)
- 7429389- [Vaccines for Mycoplasma bovis and methods of use](#)
- 7429461- [Genetic products differentially expressed in tumors and use thereof](#)
- 7429481- [Targeting viruses using a modified sindbis glycoprotein](#)
- 7429486- [Recombinant production of mixtures of antibodies](#)
- 7429639- [SSX-2 peptides presented by HLA class II molecules](#)
- 7429656- [Inhibition of SARS-associated coronavirus \(SCoV\) infection and replication by RNA interference](#)
- 7430987- [Automatic egg vaccinator](#)
- 7431920- [Method of treating IL-10 deficiency](#)
- 7431928- [Identification of new CD8 epitopes from HIV-1 proteins](#)
- 7431929- [Use of vaccinia virus deleted for the E3L gene as a vaccine vector](#)
- 7432825- [Interrogation device and method for scanning](#)

Resources from the [NCBI](#) used in this document, [NCBI's standard disclaimer applies](#).

Nothing in this document should be used in place of personal medical advice from your own qualified medical practitioner. See BioPortfolio.com [User Agreement](#)

Send comments and feedback to:

Peter Barfoot Managing Director, BioPortfolio Ltd.

UK Tel: (+44) 1300 321501

USA Voicemail and Fax: (+1) 415 680 2472

[Peter Barfoot peter.barfoot@bioportfolio.com](mailto:peter.barfoot@bioportfolio.com)

All rights reserved. All other trademarks recognized.

BioPortfolio Limited is registered in England & Wales at Wessex Barn, Dorchester Road, Frampton, Dorset, DT2 9NB, UK. No.3312883 VAT No. GB 744 6483 10

Copyright 1997-2008 - BioPortfolio Limited.

