

Smallpox

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Smallpox is an acute infectious disease unique to humans, caused by either of two virus variants named Variola major and Variola minor. Also known by the Latin names Variola or Variola vera; a derivative of the Latin varius, meaning spotted, or varus, meaning "pimple". The term "smallpox" was first used in Europe in the 15th century to distinguish variola from the great pox. Smallpox localizes in small blood vessels of the skin and in the mouth and throat. In the skin, this results in the characteristic maculopapular rash, which evolves into raised vesicles, then into fluid-filled pustules. V. major produces a more serious disease and has an overall mortality rate of 30-35%. V. minor causes a milder form of disease which kills ~1% of its victims. Blindness resulting from corneal ulceration and scarring, and limb deformities due to arthritis and osteomyelitis are less common complications, seen in about 2-5% of cases. Smallpox is believed to have emerged in human populations about 10,000 BC. During the 20th century, it is estimated that smallpox was responsible for 300-500 million deaths. As recently as 1967, the World Health Organization estimated that 15 million people contracted the disease and that two million died in that year. After successful vaccination campaigns throughout the 19th and 20th centuries, the WHO certified the eradication of smallpox in 1979. ([From the Wikipedia article Smallpox](#).)

Recent Publications on Smallpox:



- [A mouse-based assay for the pre-clinical neurovirulence assessment of vaccinia virus-based smallpox vaccines.](#)
Post-vaccinal encephalitis, although relatively uncommon, is a known... 10th November, 2009
FDA, Division of Viral Products, Building 29A, Room 2C-20, Lincoln Drive,- Biologicals. 2009 Nov 5. ([DOI Direct Link](#))
- [Production of pharmaceutical-grade plasmids at high concentration and high supercoiled percentage.](#)
The increased use of plasmid-based vaccines to replace their more... 10th November, 2009
VGX Pharmaceuticals, Inc., The Woodlands, TX 77381, United States.- Vaccine. 2009 Nov 5. ([DOI Direct Link](#))
- [Capturing of cell culture-derived modified Vaccinia Ankara virus by ion exchange and pseudo-affinity membrane adsorbers.](#)
Smallpox is an acute, highly infectious viral disease unique to humans,... 6th November, 2009
Bioprocess Engineering, Max Planck Institute for Dynamics of Complex- Biotechnol Bioeng. 2009 Nov 4. ([DOI Direct Link](#))
- [In vitro Prevention of Vaccinia and Herpesvirus Infection Spread in Explanted Human Corneas by N-Chlorotaurine.](#)
Objective: Weak oxidants produced by activated human leukocytes are proven... 6th November, 2009
Department of Hygiene, Microbiology and Social Medicine, Innsbruck Medical- Ophthalmic Res. 2009 Nov 2;43(3):145-152. ([DOI Direct Link](#))

- [Recombinant A27 protein synergizes with modified vaccinia Ankara in conferring protection against a lethal vaccinia virus challenge.](#)
*Highly attenuated modified vaccinia virus Ankara (MVA) is being considered...*6th November, 2009
Division of Viral Products, Center for Biologics Evaluation and Research,- Vaccine. 2009 Nov 1. ([DOI Direct Link](#))
- [How long ago did smallpox virus emerge?](#)
*Unlike vertebrates, for which paleontological data are available, and RNA...*3rd November, 2009
Department of Poxvirus Genomic Research, State Research Center of Virology- Arch Virol. 2009 Oct 31. ([DOI Direct Link](#))
- [Vaccines as a trigger for myopathies.](#)
*Vaccines are considered to be among the greatest medical discoveries,...*3rd November, 2009
Department of Medicine B, Wolfson Medical Center, Holon, Israel.- Lupus. 2009 Nov;18(13):1213-6. ([DOI Direct Link](#))
- [Laboratory worker knowledge, attitudes and practices towards smallpox vaccine.](#)
*BACKGROUND: Recent cases of laboratory-acquired vaccinia virus (VV)...*30th October, 2009
Poxvirus and Rabies Branch, Centers for Disease Control and Prevention,- Occup Med (Lond). 2009 Oct 28. ([DOI Direct Link](#))
- [Portrait of a leading Vaccinologist: Dedicated to Meningitis and Respiratory Tract Infections.](#)
*Since the early days of Jenner vaccination against infectious agents...*27th October, 2009
Netherlands Vaccine institute, Bilthoven, The Netherlands.- Hum Vaccin. 2009 Nov 5;5(11).
- [\[The smallpox vaccination which Saga Feudal Clan had introduced over the whole country\]](#)
*Since the early days of Jenner vaccination against infectious agents...*24th October, 2009
- Nippon Ishigaku Zasshi. 2009 Jun;55(2):142.
- [D. A. Henderson: Smallpox. The Death of a Disease. The Inside Story of Eradicating a Worldwide Killer : Prometheus Books, Amherst, New York, 334 pp, hard cover, Illustrated, \\$27.98.](#)
*Since the early days of Jenner vaccination against infectious agents...*23rd October, 2009
Downstate Medical Center, Brooklyn, NY, USA,- J Community Health. 2009 Oct 22. ([DOI Direct Link](#))
- [One more piece in the VACV ecological puzzle: could peridomestic rodents be the link between wildlife and bovine vaccinia outbreaks in Brazil?](#)
*BACKGROUND: Despite the fact that smallpox eradication was declared by the...*20th October, 2009
Universidade Federal de Minas Gerais, Instituto de Ciencias Biologicas,- PLoS One. 2009 Oct 19;4(10):e7428. ([DOI Direct Link](#))
- [Smallpox vaccines for biodefense.](#)
*Few diseases can match the enormous impact that smallpox has had on...*20th October, 2009
Mayo Vaccine Research Group, Mayo Clinic, Rochester MN 55905, USA.- Vaccine. 2009 Nov 5;27 Suppl 4:D73-9. ([DOI Direct Link](#))
- [Vaccines for military use.](#)
*Vaccines have long been used by military forces in order to prevent...*20th October, 2009
Department of Medicine, Center for Biodefense and Emerging Pathogens,- Vaccine. 2009 Nov 5;27 Suppl 4:D16-22. ([DOI Direct Link](#))
- [Molecular smallpox vaccine delivered by alphavirus replicons elicits protective immunity in mice and non-human primates.](#)
*Naturally occurring smallpox was eradicated as a result of successful...*17th October, 2009
U.S. Army Medical Research Institute of Infectious Diseases, Virology- Vaccine. 2009 Oct 13. ([DOI Direct Link](#))

BioNews Results for Smallpox

- [US Government Awards Contract to Bavarian Nordic for the Development of Freeze-Dried IMVAMUNE Smallpox Vaccine](#)

- Bionity.com: Nov 21 2009 5:27AM Matching: smallpox*
- [Elsevier Journal Vaccine Features Milestone Biodefense Publication](#)
Medical News Today: Nov 21 2009 9:06AM Matching: smallpox
 - [Elsevier journal Vaccine releases a supplement dedicated to vaccines for biodefense](#)
News-Medical.Net: Nov 20 2009 8:12AM Matching: smallpox
 - [Milestone biodefense publication by Elsevier journal Vaccine](#)
Research & Development: Nov 19 2009 3:55PM Matching: smallpox
 - [Safe flu vaccines are being produced en masse to deal with the pandemic](#)
Beijing Review: Nov 19 2009 5:50AM Matching: smallpox
 - [US Government Awards Contract to Bavarian Nordic for the Development of Freeze-Dried IMVAMUNE\(R\) Smallpox Vacc](#)
Genetic Engineering News: Nov 18 2009 12:27PM Matching: smallpox
 - [H1N1 Swine Flu - Vaccination, Profit, Population Control and Murder!](#)
NewsBlaze: Nov 18 2009 3:54AM Matching: smallpox
 - [Bavarian Nordic wins USD 40m vaccine development deal](#)
Individual.com: Nov 18 2009 4:54AM Matching: smallpox
 - [Chimerix to Present at Two Upcoming Investor Conferences](#)
Genetic Engineering News: Nov 17 2009 12:17AM Matching: smallpox
 - [AIDS researchers: Immunity key to finding vaccine](#)
Vancouver 24 Hours: Nov 17 2009 1:18AM Matching: smallpox
 - [US Opts for Freeze-Dried Smallpox Vaccine](#)
Pharmaceutical Technology: Nov 17 2009 11:28AM Matching: smallpox
 - [US Government Awards Contract to Bavarian Nordic for the Development of Freeze-Dried IMVAMUNE\(R\) Smallpox Vacc](#)
PharmiWeb: Nov 17 2009 10:19PM Matching: smallpox
 - [US Government Awards Contract to Bavarian Nordic for the Development of Freeze-Dried IMVAMUNE\(R\) Smallpox Vacc](#)
KOTA Territory News: Nov 17 2009 1:57PM Matching: smallpox
 - [US Government Awards Contract to Bavarian Nordic for the Development of Freeze-Dried IMVAMUNE Smallpox Vaccine](#)
Pharma Live: Nov 17 2009 2:03PM Matching: smallpox
 - [Bavarian Nordic awarded a new contract for developing a freeze-dried version of its IMVAMUNE smallpox vaccine](#)
News-Medical.Net: Nov 17 2009 2:27PM Matching: smallpox

Smallpox Patents:



- 7569228- [Fusion proteins of non-attenuated HIV regulatory/accessory proteins](#)
- 7576854- [Arrays of nano structures for surface-enhanced raman scattering](#)
- 7578969- [Decontamination system for mail and other articles](#)
- 7579004- [Naturally processed measles virus peptides eluted from class II HLA molecules](#)
- 7579451- [Oligonucleotides comprising a modified or non-natural nucleobase](#)
- 7579471- [Tropane derivatives useful in therapy](#)
- 7582069- [Method and device for the delivery of a substance](#)

- 7582303- [Avian hepatitis E virus, vaccines and methods of protecting against avian hepatitis-splenomegaly syndrome and mammalian hepatitis E](#)
- 7582621- [Boron-containing small molecules](#)
- 7588767- [Microorganisms for therapy](#)
- 7588770- [Recombinant viruses of the paramyxoviridae family with heterologous envelope glycoproteins](#)
- 7576319- [Systems for differential ion mobility analysis](#)
- 7576068- [Administration of TLR7 ligands and prodrugs thereof for treatment of infection by hepatitis C virus](#)
- 7575916- [Nucleic acid molecule encoding a MHC class I peptide epitope from the human 5T4 tumor-associated antigen and vector comprising the nucleic acid molecule](#)
- 7569340- [Nanoarrays of single virus particles, methods and instrumentation for the fabrication and use thereof](#)
- 7569384- [Albumin fusion proteins](#)
- 7569536- [Method for controlling SR protein phosphorylation, and antiviral agents whose active ingredients comprise agents that control SR protein activity](#)
- 7569555- [Method for stimulating the immune, inflammatory or neuroprotective response](#)
- 7569850- [Lipid bilayers on nano-templates](#)
- 7572442- [Selected antibody compositions for binding to aminophospholipids](#)
- 7572448- [Combined cancer treatment methods using selected antibodies to aminophospholipids](#)
- 7572589- [Diagnosis and treatment of infectious diseases through indel-differentiated proteins](#)
- 7572618- [Polynucleotides encoding novel PCSK9 variants](#)
- 7575860- [DNA joining method](#)
- 7588771- [Microorganisms for therapy](#)
- 7588774- [Molecules enhancing dermal delivery of influenza vaccines](#)
- 7601545- [Automated macromolecule sample preparation system](#)
- 7601698- [Polypeptide](#)
- 7601745- [Heterocyclic NF-kB inhibitors](#)
- 7603894- [Self-powered tire monitoring system](#)
- 7608425- [Methods for protein expression in mammalian cells in serum-free medium](#)
- 7611704- [Compositions and methods for treating viral infections using antibodies and immunoconjugates to aminophospholipids](#)
- 7611834- [Methods and devices for protein assays](#)
- 7615223- [Selected immunoconjugates for binding to aminophospholipids](#)
- 7615612- [Polypeptide](#)
- 7615618- [Oligonucleotides comprising a non-phosphate backbone linkage](#)
- 7598348- [Adiponectin receptor variant, AdipoR2v2](#)
- 7598345- [Immunostimulatory compositions and methods](#)
- 7598225- [Generation of immune response to prostate-specific antigen \(PSA\)](#)
- 7588890- [Device for extracting biological molecules from tissue specimens and methods for preparing the same](#)
- 7589092- [Prodrugs of heteroaryl compounds](#)
- 7592010- [Albumin fusion proteins](#)
- 7592140- [2', 5'-oligoadenylate phosphodiesterase](#)
- 7592160- [Processes for producing isomaltose and isomaltitol and use thereof](#)
- 7592326- [Method for stimulating the immune, inflammatory or neuroprotective response](#)
- 7595038- [Methods of treatment using antibodies to follistatin-3](#)
- 7595192- [Process for the production of temperature-induced tumor cell lysates for use as immunogenic compounds](#)
- 7595864- [Optical sensor for the instantaneous detection and identification of bioaerosols](#)
- 7596242- [Image processing for vehicular applications](#)
- 7618641- [Functionally reconstituted viral membranes containing adjuvant](#)

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