Pneumonic plague United States Patent 7572449, anything to do with the Ukraine?

Tuesday, November 17, 2009 - 14:23

| | Unite Hill et al | d States Patent | (10) Patent No.: US 7,572,449 B (45) Date of Patent: Aug. 11, 2009 |
|------|---------------------|--|---|
| (54) | ONE OR TER | AGAINST YERSINIA COMPRISING I'WO ANTIBODIES, ONE SPECIFIC SINIA PESTIS F1-ANTIGEN AND ER ONE FOR YERSINIA PESTIS EN | Bowie et al (Science, 1990, 247:1306-1310).* Anderson, et al., 'Protection of Mice from Fatal Bubonic an Pneumonic Plague by Passive Immunization with Monoclonal Anti-bodies Against the F1 Protein of <i>Yersinia pestis</i> , 'Am. J. Trop. Med Hyg., 56(4):471-473 (1997). |
| (75) | Inventors: | James Hill, Salisbury (GB); Ethel Diane Williamson, Salisbury (GB); Richard William Titball, Salisbury (GE) | Anderson, et al., 'Protection of Mice from Fatal Bubonic at Pneumonic Plague by Passive Immunization with Monoclonal Ant bodies Against the F1 Protein of Yersinia pestis,' Am. J. Trop. Mo. Hyg., 56(4):471-473 (1997). |
| (73) | Assignee: | The Secretary of State for Defense in Her Britannic Majesty's Government of the United Kingdom of Great Britain and Northern Ireland (GB) | Casadevall, 'Short Analytical Review Passive Antibody Therapic Progress and Continuing Challenges,' Clinical Immunology, 93(1): 15 (1999). Cornelis, 'Minireview The Yersinia Deadly Kiss,' Journal of Back riology, 180(21):5495-5504 (1998). |
| (*) | Notice: | Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 209 days. | de Haard, et al., 'A Large Non-Immunized Human Fab Fragme Phage Library That Permits Rapid Isolation and Kinetic Analysis High Affinity Antibodies,' Journal of Biological Chemistr, 274(26):18218-18230 (1999). |
| (21) | Appl. No.: | 10/525,057 | Du, et al., 'Role of Fraction 1 Antigen of Yersiwia pestis in Inhibition |
| (22) | PCT Filed: | Aug. 29, 2003 | of Phagocytosis,' Infection and Immunity, 70(3):1453-1460 (2002) |
| (86) | PCT No.: | PCT/GB03/03747 | Duplantier, et al., 'Resurgence de la peste dans le district d'Ikongo Maagascar en 1998,' Bulletin De La Societe De Pathologie Exotique 94(2):119-112 (2001). |
| | § 371 (c)(1 |), | Fields, et al., Virulence role of V antigen of Yersinia pestis at the |

Whether this has anything to do with what's going on in the Ukraine, in August 2009, there was a patent filed for antibodies against Yersinia Pestis otherwise known as the pneumonic plague. It was filed by Hill, James (Salisbury, GB) ,Williamson, Ethel Diane (Salisbury, GB) and Titball, Richard William (Salisbury, GE) and the assignee was The Secretary of State for Defense in Her Britannic Majesty's Government of the United Kingdom of Great Britain and Northern Ireland (GB).

A interesting part of the patent is this part:

"Mab 7.3 was administered –4 hours, +24 hours, +48 hours, or +96 hours relative to s.c. Y. pestis challenge. Protection was observed when antibody was given up to 48 hours post-infection. Also, a delayed time to death was observed in the +96 hours treatment group. One of +96 hours treatment group had died prior to antibody administration and the remainder displayed signs of plague indistinguishable from untreated control animals, suggesting that even when symptoms of plague are apparent antibody therapy can delay death. Mice were treated with Mab 7.3 at –4 hours, +24 hours, +48 hours or +60 hours relative to aerosol infection. Protection was seen in groups that received antibody 24 hours and 48 hours after challenge. All mice treated at +60 hours died, but a statistically significant delay in the TTD was observed, compared with untreated animals."