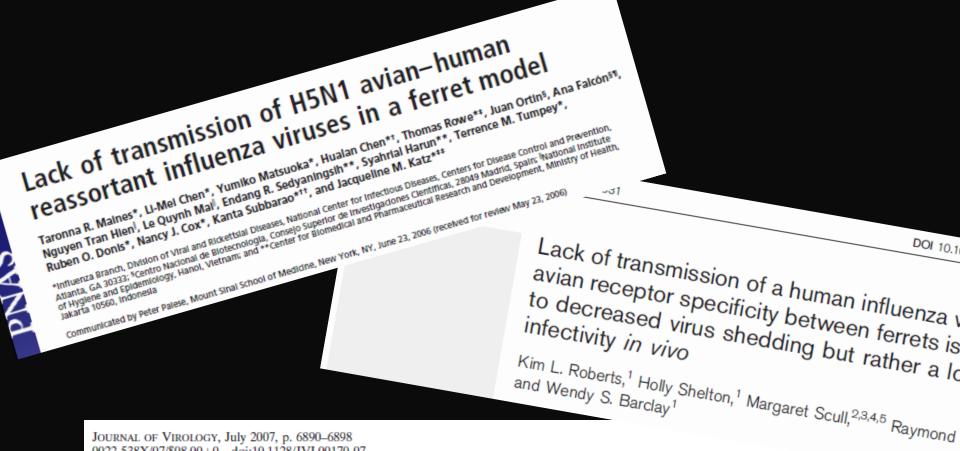
GAIN-OF-FUNCTION RESEARCH: THE EYE OF THE STORM- THE UNIVERSITY OF WISCONSIN STORY

Rebecca Moritz MS, CBSP, SM(NRCM)





JOURNAL OF VIROLOGY, July 2007, p. 6890–6898 0022-538X/07/\$08.00+0 doi:10.1128/JVI.00170-07 Copyright © 2007, American Society for Microbiology. All Rights Reserved.

Inefficient Transmission of H5N1 Influenza Viruses in a Ferret Contact Model[⊽]

Hui-Ling Yen,¹ Aleksandr S. Lipatov,¹¶ Natalia A. Ilyushina,¹ Elena A. Govorkova,¹ John Franks,¹ Neziha Yilmaz,² Alan Douglas,³ Alan Hay,³ Scott Krauss,¹ Jerold E. Rehg,⁴ Erich Hoffmann,¹ and Robert G. Webster^{1*}

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National Institute of Allergy and Infectious Diseases



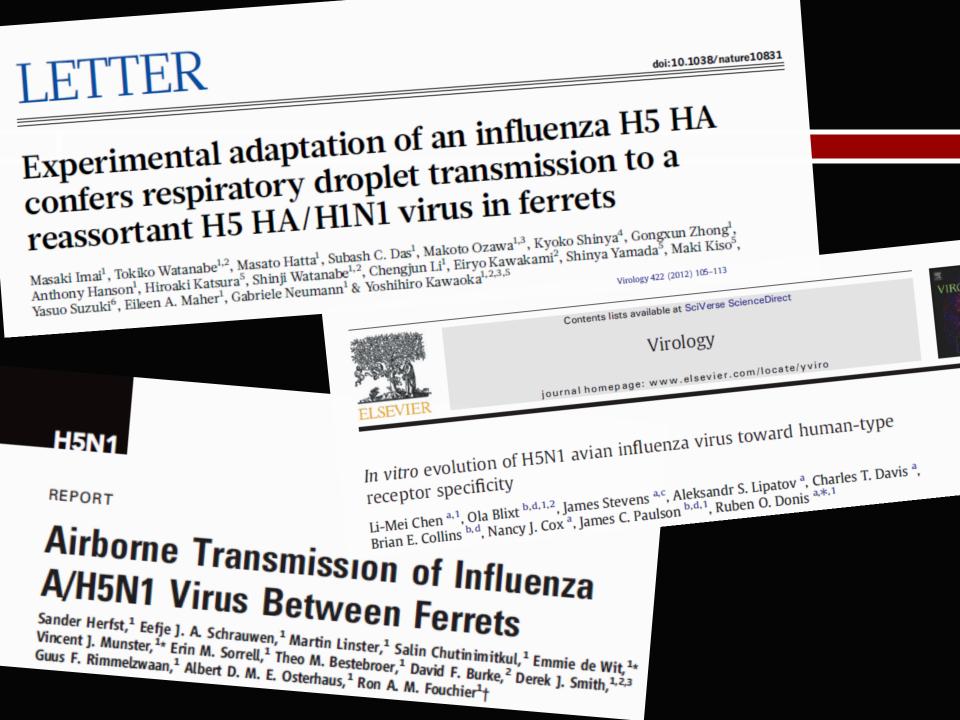
REPORT OF THE BLUE RIBBON PANEL ON INFLUENZA RESEARCH

September 11-12, 2006



WHO PUBLIC HEALTH RESEARCH AGENDA FOR INFLUENZA

Version 1, 2009



University of Wisconsin

- 13 Schools and Colleges
- FY'15 \$1.19 billion in extramural awards
- Long history of influenza research
- Select Agent Program
 - 7 Select Agent Pls
 - Roughly 200 registered individuals
 - Multiple registered areas per PI
 - 2 full-time and three part-time staff

Facility: Influenza Research Institute

Specifically built for influenza research BSL-3, ABSL-3, and BSL-3Ag*

IRI Redundancies and Backups

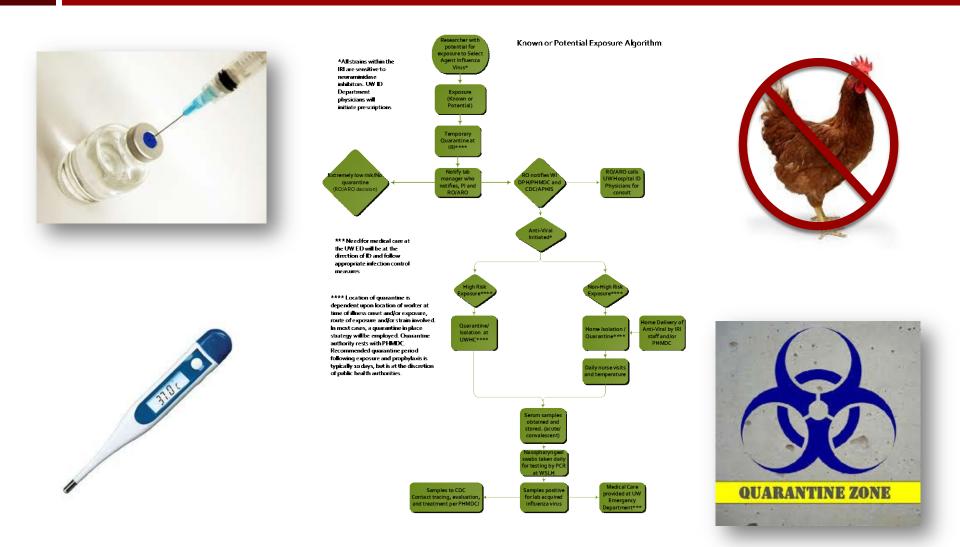
- **Redundancies** are built into ALL physical aspects
 - Two dedicated supply and exhaust fans
 - Two air compressors, steam boilers, chillers
 - Two HEPA filters everywhere filters are needed
 - Two effluent sterilization tanks
- Back-up resources:
 - Two power feeds to the building
 - Emergency generator in case of a power failure
 - Other physical containment measures in facility that operate without power

IRI Training Program

- Mentor/mentee program
- Tiered
- Written and oral exams
- Emergency scenarios
- Refresher training



Exposure Control Plan



Additional Risk Mitigation Measures

- Additional containment
- Experimental groups
- Higher risk procedures
- NIH Guidelines revisions

Institutional Research Oversight

- IBC

- Biosecurity Task Force
- Select Agent Program

Communication





Communication

- Briefed administration and partners
 Developed press release and talking points
- Appointed spokespeople
- Publicity

SCIENTIFIC AMERICAN[™]

Permanent Address: http://www.scientificamerican.com/article.cfm?id=contagion-controversy-erupts

Contagion: Controversy Erupts over Man-Made Pandemic Avian Flu Virus

Two teams of scientists have independently constructed a deadly strain of flu. Some say the results should never be published



Babbage Science and technology

Previous Next Latest Babbage

Flu research and public safety Too dangerous for words Jan 31st 2012, 18:23 by C.H. | NEW YORK



Pathogenic H5N1 avian influenza has led to the culling of hundreds of millions of birds. A human-transmissible form could have much worse consequences.

Adaptations of avian flu virus are a cause for concern

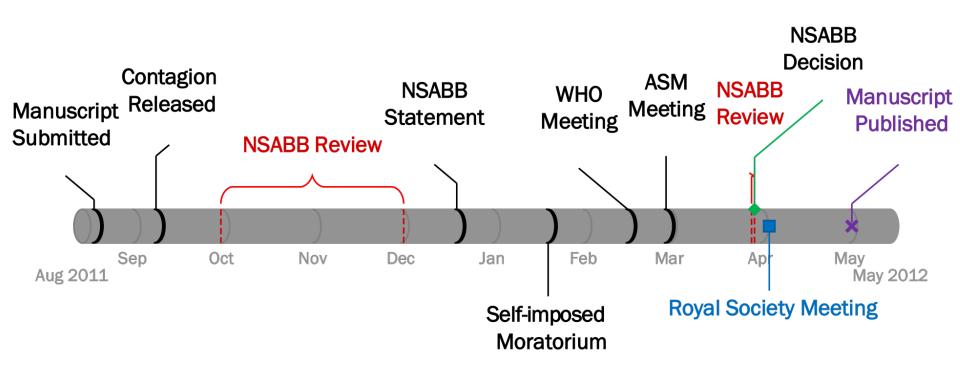
Members of the US National Science Advisory Board for Biosecurity explain its recommendations on the communication of experimental work on H5N1 influenza.

H5N1: the lab-made virus the U.S. fears could be made into a biological weapon.

By Carl Zimmer | Posted Thursday, Dec. 22, 2011, at 2:43 PM ET | Posted Thursday, Dec. 22, 2011, at 2:43 PM ET

Slate.com

Timeline of Events



Communication



