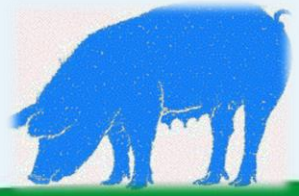
OFFLU meeting
18 April 2018
Brighton, UK

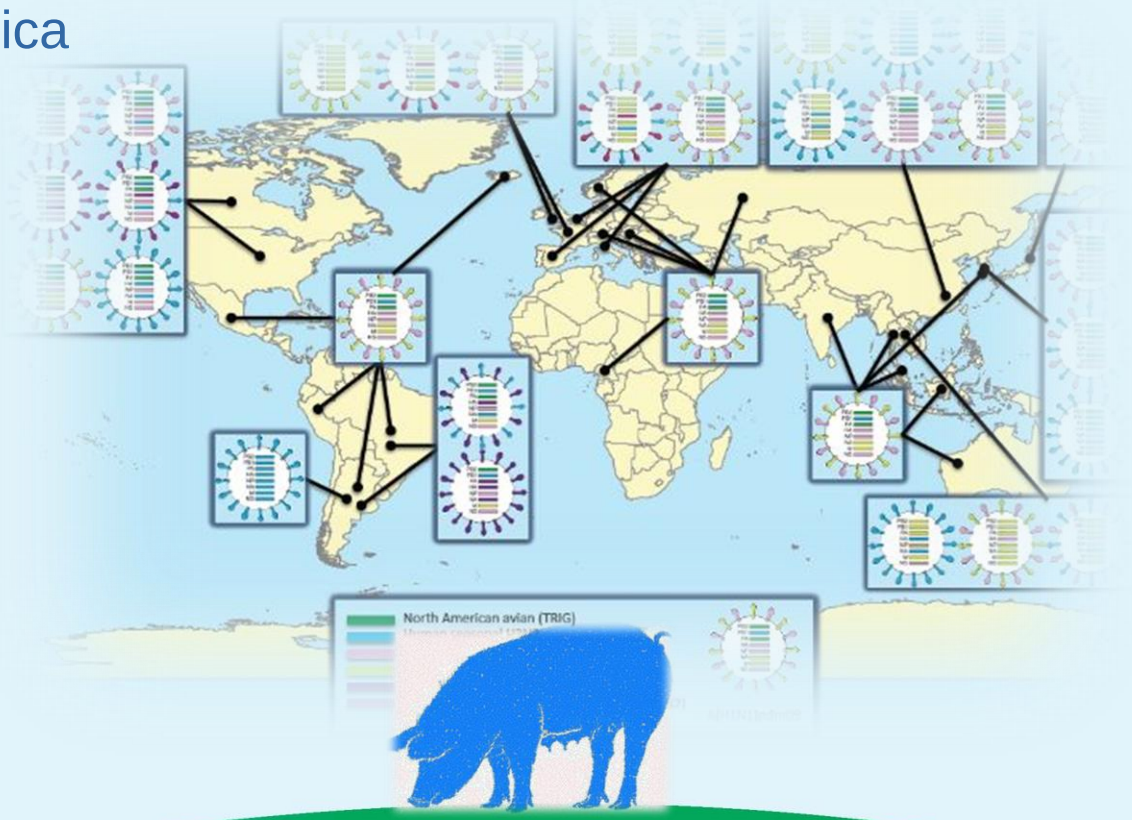
Marie Culhane
Taki Saito

Swine Influenza Group Update



Swine Influenza Technical Group Members

- Both animal health and public health experts
  - Africa, Asia, Australia, Europe, North America, and South America



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Swine Influenza Technical Group Members

Amy Vincent (USA), Ariel Pereda(Argentina), Bandit Nuansrichy (Thailand), Clement Meseko (Nigeria), Frank Wong(Australia), Gaelle Simon (France), Gounalan Pavade (OIE), Gwenaelle Dauphin (FAO), Hualan Chen (China), Ian Brown (UK), Janice Ciacci Zanella (Brazil), John Pasick (Canada), Ruben Donis (USA), Kristien Van Reeth (Belgium), Lidewij Wiersma (FAO), Malik Peiris (China), Marie Culhane(USA), Nicola Lewis (UK), Peter Daniels (Australia), Richard Webby (USA), Sabrina Swenson (USA), Taki Saito (Japan), Todd Davis (USA), Tung Nguyen (Vietnam), Yohannes Berhane (Canada), Young Ki Choi(Rep. Korea)

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Key Achievements and Opportunities 2015-2018

- 2015 - Technical meeting-Paris, France in December
- 2016 – Swine H1 Classification Tool Developed
- 2017 - Technical meeting-Rome, Italy in March

- Strong attendance at meetings and active participation/ contribution to group efforts from majority of members

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2015

- Manual of Diagnostic Tests Update
  - approved in May 2015
- Update of global IAV-swine situation update including
  - human cases, research, and global antigenic cartography

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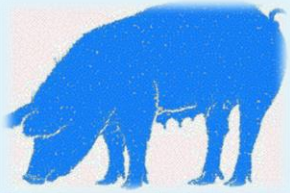
2016

- Influenza A Virus Global Swine H1 Clade Classification Tool Developed and Released
  - Data from sequences in public databases and the OFFLU network. Support from ESNIP, USDA, DOE, ORISE, NIH (CEIRS), CDC
    - Anderson TK, Macken CA, Lewis NS, Scheuermann RH, Van Reeth K, Brown IH, Swenson SL, Simon G, Saito T, Berhane Y, Ciacci-Zanella J, Pereda A, Davis CT, Donis RO, Webby RJ, Vincent AL. 2016. A phylogeny-based global nomenclature system and automated annotation tool for H1 hemagglutinin genes from swine influenza A viruses. mSphere 1(6):e00275-16. doi:10.1128/mSphere.00275-16.

fludb.org



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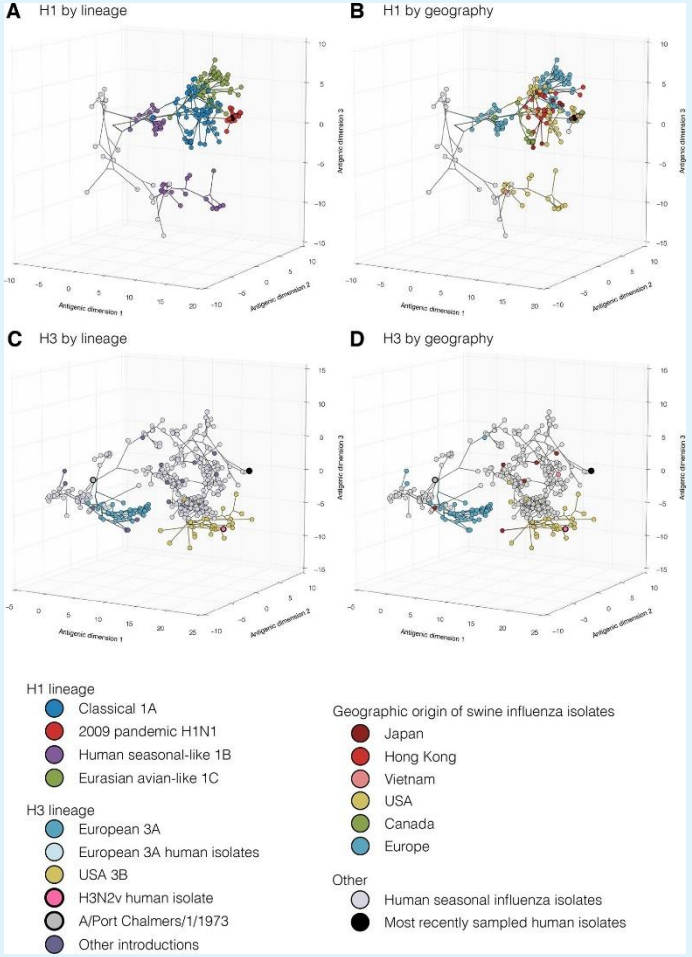
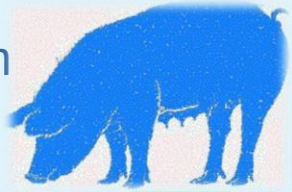
2016

- Update of global IAV-swine situation update including
  - human cases, research, and global antigenic cartography
- Publication:
  - Lewis et al. “The global antigenic diversity of swine influenza A viruses.” eLife 2016;5:e12217. DOI: 10.7554/eLife.12217
    - Data and support from ESNIP3 Members of OFFlu





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2017

- Contributed to WHO public health research agenda for influenza
- Contributed to swine risk assessment pipeline

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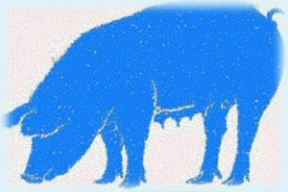
2017

- Shared updates re: global IAV-swine situation including
  - human cases, research, and global antigenic cartography
    - March 2017
- Revised “Collection of Specimens from Swine for the Detection of Influenza A Virus by Molecular Assays or Virus Isolation”
    - December 2017
- Responded to Request for Guidance regarding meningitis/H1N1 in Ghana
    - WHO, Weekly Bulletin on Outbreaks and Other Emergencies. Week 49: 2-9 Dec 2017 [edited] http://apps.who.int/iris/bitstream/10665/259635/1/OEW49-29122017.pdf
    - December 2017



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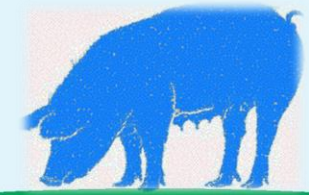
2018

- Influenza A Virus Global Swine H3 Classification Tool
  - Near completion
  - Input from OFFlu Swine Technical Group members critical to tool development



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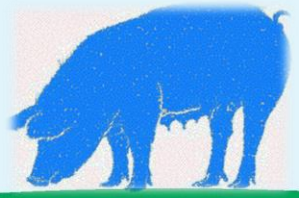
Acknowledgements

- Members – Present and Past
- Financial Support
  - St. Jude/NIH
  - Home institutions
  - OIE
  - FAO



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