参与研究

University of Minnesota Swine Group

莫教授的猪健康监控项目

- 目的
- 1. 长期- 开发能力为行业提供机会， 让他们自愿对新发病原做出反应
- 2. 短期- 为养殖者和他们的兽医输送价值 （使他们参与长期目标的实现）

MSHMP

- 响应
- 敬业
- 由养猪者掌控
- 与企业关系敏感
- 可缩性

Chart 1 - PRRS cumulative Incidence / weekly and cumulative
Beginning July 1 for years 2009-2017

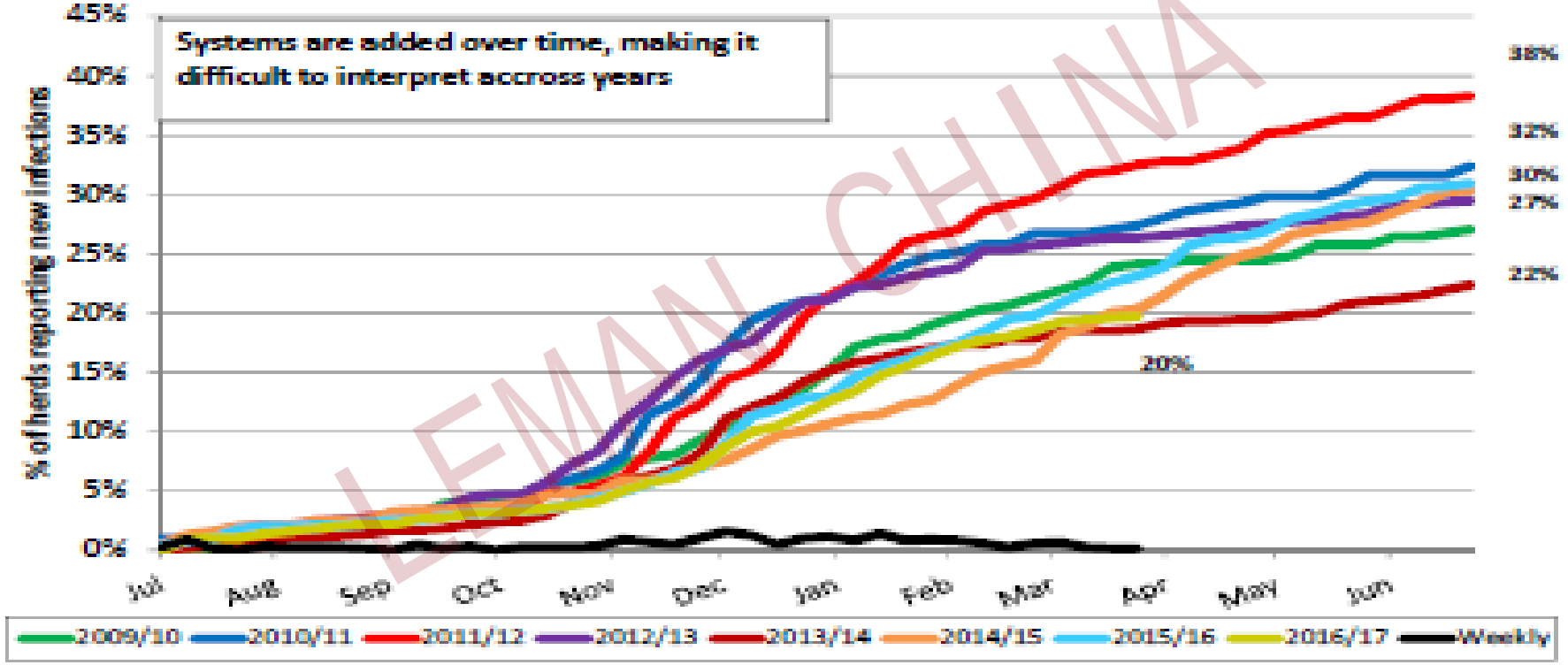
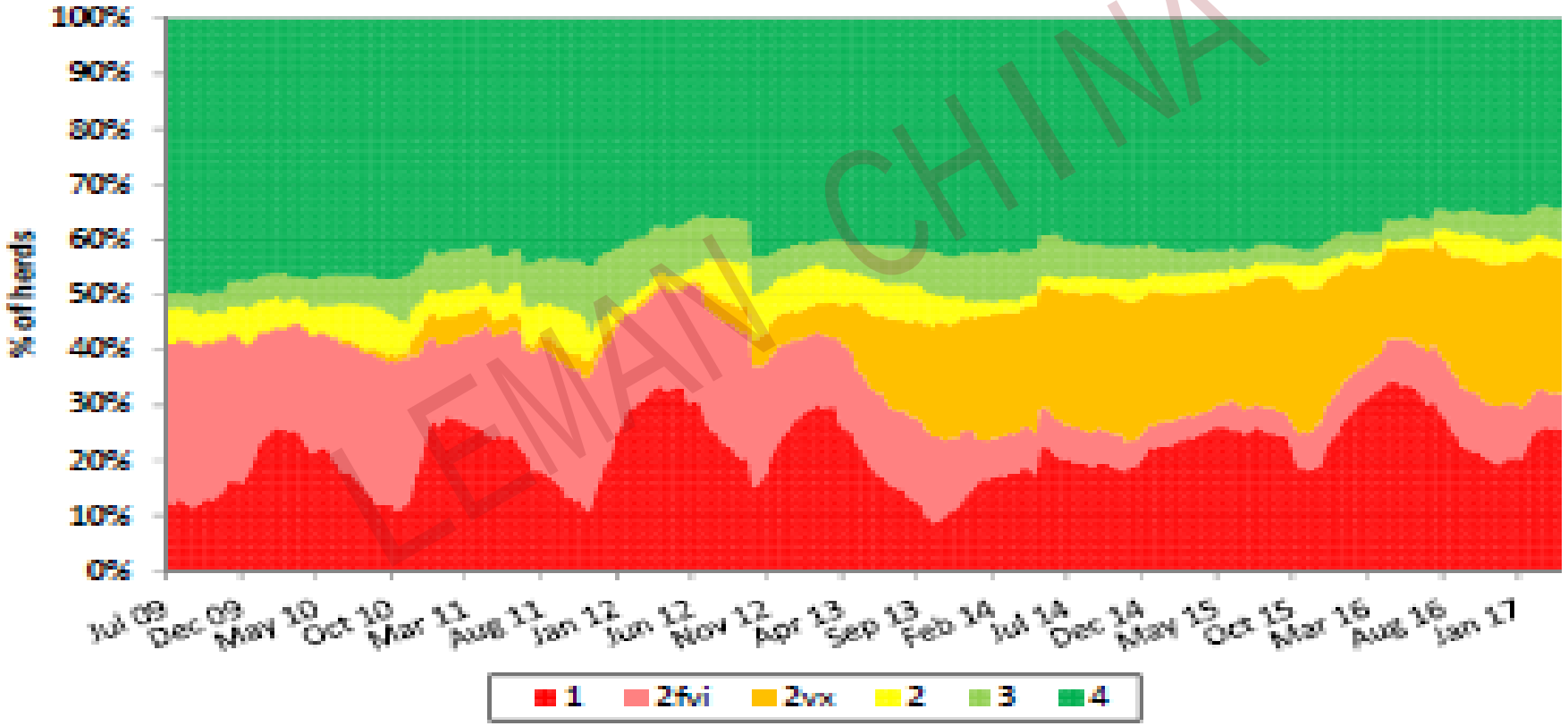
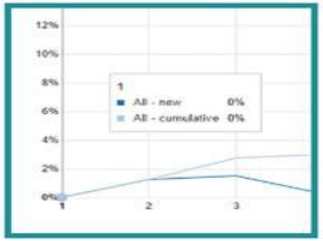


Chart 2 - PRRS aggregate prevalence of sow herd status (n= 465)
Beginning July 1, 2009




UNIVERSITY OF MINNESOTA
Driven to Discover℠
PIG/SAVI DEMO
Shiny Analysis and Visualization Insights for Swine Health Management
GET STARTED

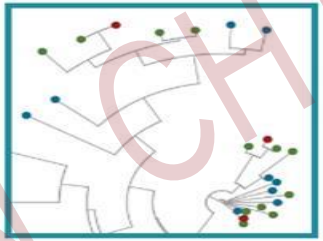
Welcome to PIG/savi



Frequency

Explore the weekly and cumulative incidence and see aggregate prevalence of sow herd status.

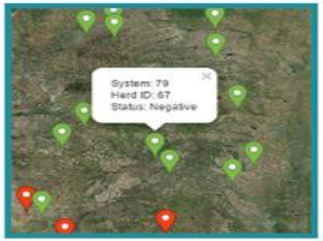
EXPLORE



Genetics

Explore the genetic relationship of PRRS in different herds.

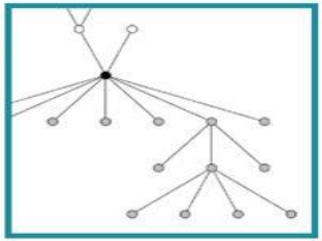
EXPLORE



Space Time Analysis

Navigate a map of PRRS herd status over time.

EXPLORE



Movement

Explore contact networks between herds.

EXPLORE

猪病根除中心

Mission:

To discover and communicate knowledge relevant to the prevention, detection, transmission, control and elimination of swine diseases.

Vision:

Science-driven solutions for swine diseases

Research focus areas:

Transmission, epidemiology and surveillance

Pathogenesis and diagnostics

Immunity and vaccinology

Disease control, elimination and modelling

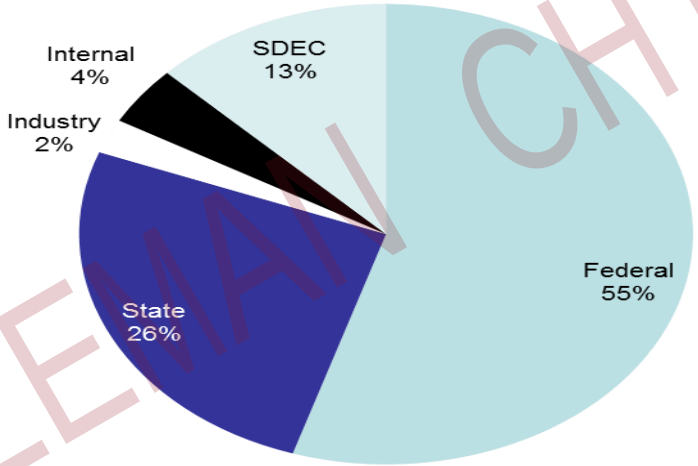
Biosecurity and disease prevention

中心资助的项目

PI	Funded	
Pieters	24,878	Characterization of the metabolic signature of Mycoplasma hyopneumoniae in infected pigs
Torremorell	22,500	Comparison of sampling techniques to detect and sequence influenza A viruses in pig farms
Alvarez	19,500	Characterization of the emergence of fluoroquinolone resistance in Salmonella enterica recovered from swine
Torremorell	25,000	Incidence and infection patterns of PRRS virus infections in growing pigs
Vilalta/Torremorell	11,776	Investigating the role of the environment in PRRSV infections during an outbreak
Vannucci	17,530	Seneca Valley Virus eradication in a sow farm and transmission in downstream nursery to finishing site
Vilalta/Torremorell	33,800	Advancing our understanding of air filtration for PRRSV
Torremorell	28,158	Understanding vaccination of Influenza in breeding herds and impact of vaccine strain homology on circulating strains at weaning
TOTAL	183,142	

11 proposals submitted
8 proposals funded

明大养猪研究项目
2017 资助年度2017
总资助额度

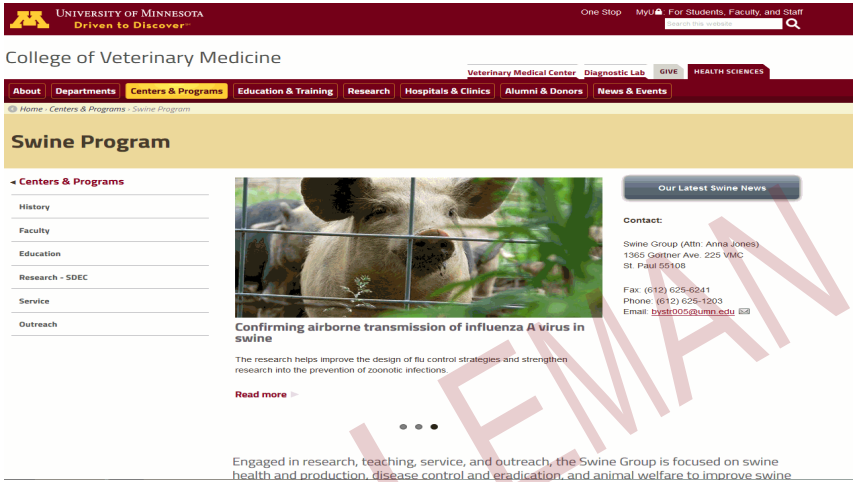


Total awards: 1,448,000

*Excludes University funding for faculty salary and infrastructure

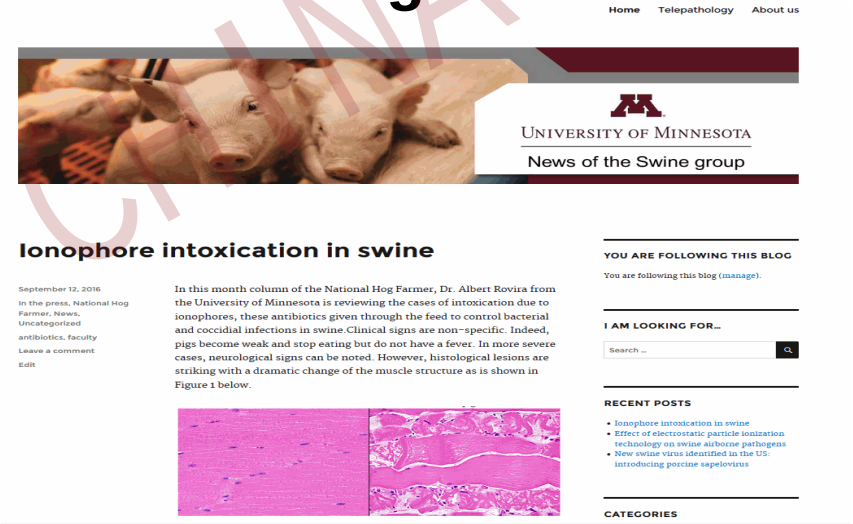
提高沟通

Through the new website



http://www.vetmed.umn.edu/centers-programs/swine-program

With the blog!



https://umnswinenews.com

Twitter umn_swine_group

沟通

- Updates to SDEC partners
  - Monthly – Research updates

- Carlos Pijoan Swine Diseases Symposium
  - Sunday of Leman Conf
  - **A Practitioners Guide to Characterizing Pathogens**

猪病根除中心努力：

- 为成员带来价值
- 听取成员好的想法 – 集思广益，来自生产的问题
- 帮助指导研究资金的使用

研究关注领域

- 解决生产问题
  - 支原体
  - 流感
  - 蓝耳病
  - 肠道病原
- 提高分析能力 – 大数据
  - 大数据实践应用
  - 猪健康监控项目
- 发现病原的基因组学