



Welcome to the
Disease BioPortal



Update on the Disease BioPortal project at UC Davis

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Disease BioPortal

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Disease BioPortal

Conclusions

- Need for a global FMD surveillance system
- Role of epidemiological analysis
- International involvement

Disease BioPortal

Goal – Vision

To develop a web-based system for **global animal disease modeling & surveillance**

Disease BioPortal

Attributes of the Disease BioPortal

- operational
- near real time surveillance
- multiple streams of information
- analytical capabilities and subject matter expertise
–not just an IT system
- continue development
- genomic surveillance
- coordinated as a consortium

Disease BioPortal


Operation

- >600 users since becoming operational in January 2007
- 46 countries/organizations represented
- currently operating version 3.0
- private and public datasets for >40 diseases and syndromes



Operation

- Public datasets
 - ✓ FMD serotype data for samples submitted to the World Reference Laboratory, Pirbright since 1957
 - ✓ World organization for animal Health since 2006
 - ✓ GenBank
 - ✓ PANAFTOSA
 - ✓ Other: eg: Vietnamese Animal Health Department



New release

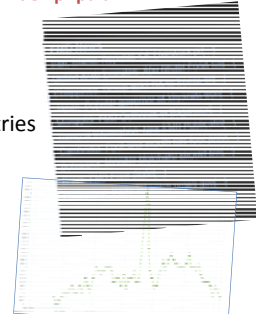
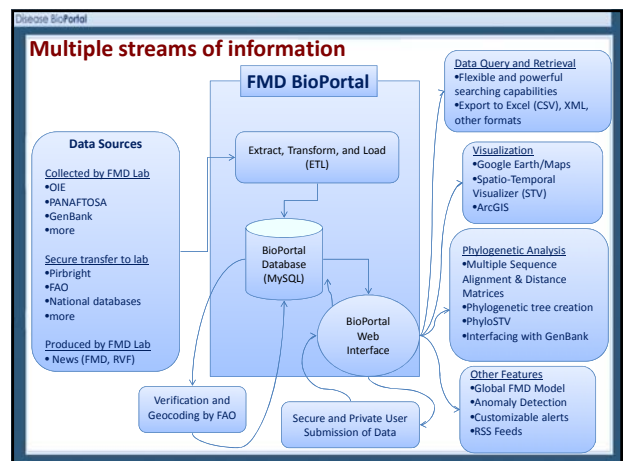


<http://fmdbioportal.ucdavis.edu/>

Near real time surveillance: FMD News

<http://fmd.ucdavis.edu/index.php?id=1>

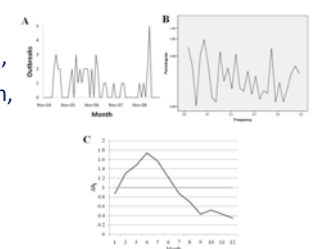
- 459 subscribers from >50 countries
- 9542 items from 128 countries sent since 10-2004
- weekly, daily, and real time email

Analytical capabilities

Models:

Global, US, Argentina, Colombia, Peru, Spain, Israel & Palestine, Turkey, Mongolia, Pakistan, and Iran



Time series analysis of serotype Asia 1 FMDv outbreaks in China

Continued development

- Techniques for detection of time-space clusters
- Web-service for automatic transfer of data with the FAO EMPRES-i system
- User submission of data
- Addition of new datasets and sources

What's next?

- Designation as FAO reference center in epidemiology
- GFRA mission
- Vaccination program in Pakistan (ARS, FAO)

Disease BioPortal

Consortium

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3. University of California
4. UN/FAO EMPRES
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Thank you