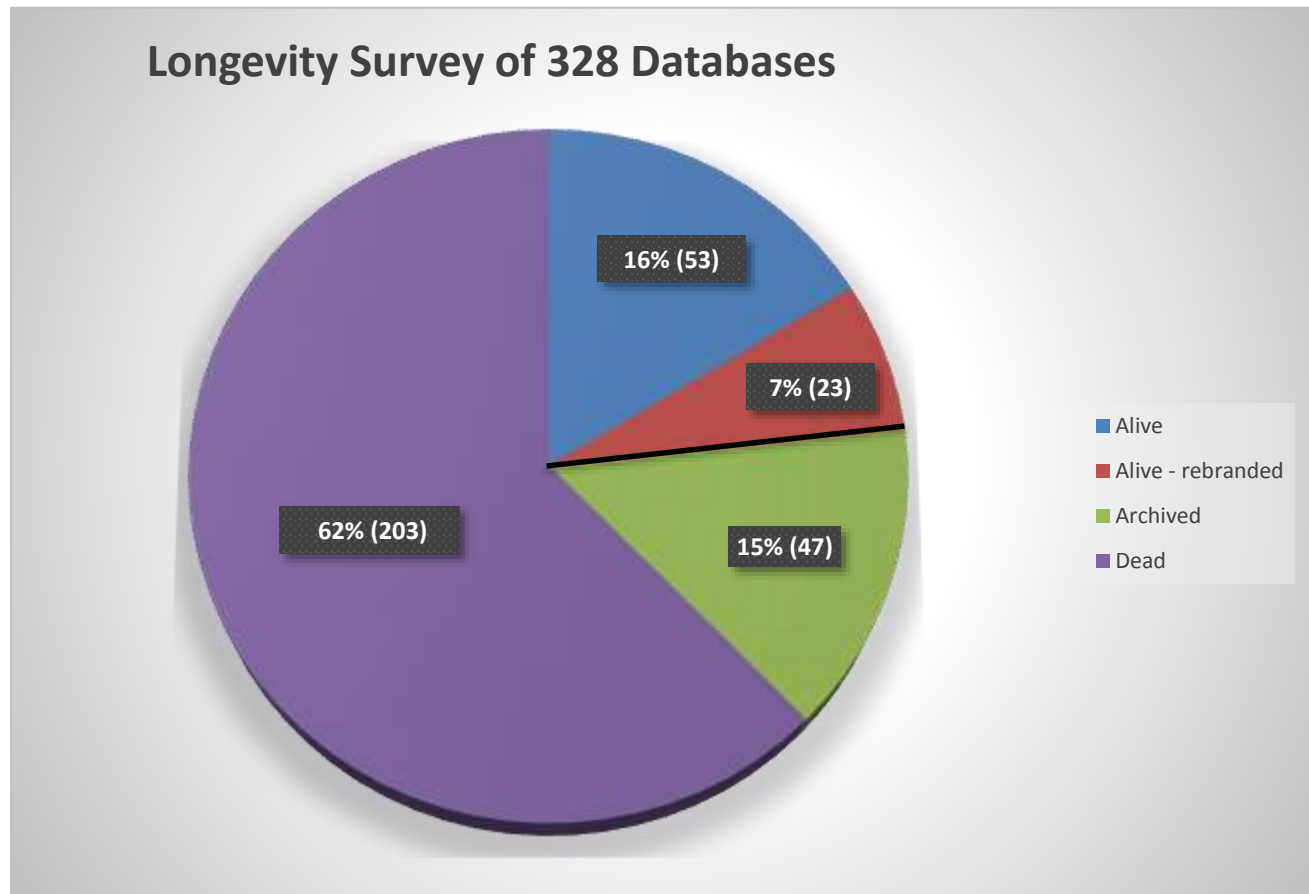


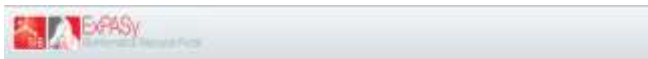
# **Introducing the TRUST Principles**

**RDA/WDS Certification of Digital Repository IG  
RDA Plenary 13, April 4<sup>th</sup>, 2019**

# The Longevity of 328 Biomedical Databases over 18 years



# The Existential Crisis of Biological Databases



1996

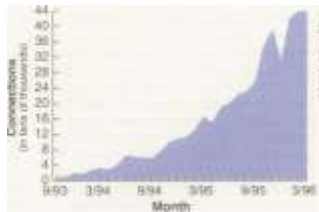


SWISS-PROT should have been 10 years old in July 1996, but it may disappear on June 30, 1996

Due to funding problems, SWISS-PROT as well as PROSITE, and the ENZYME nomenclature databases will be discontinued. Other external databases, WWW services and software packages that depend on SWISS-PROT SRS, Owl, etc. should also be aware that most annotations at the protein level available through these services

While the databases listed above as well as the ExPASy server are used in almost every laboratory doing mole

If you are not interested in the details of these problems and you want to send us a email or letter (fax)

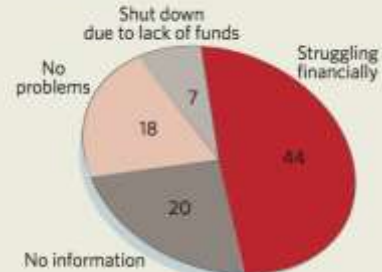


2005

SPECIAL REPORT

## Databases in peril

RESULTS FROM 89 DATABASES CONTACTED BY NATURE



©2005 Nature Publishing Group



2012

## Databases fight funding cuts

Online tools are becoming ever more important to biology, but financial support is unstable.

Monya Baker

05 September 2012



protégé

BMRB



2016

## Funding for model-organism databases in trouble

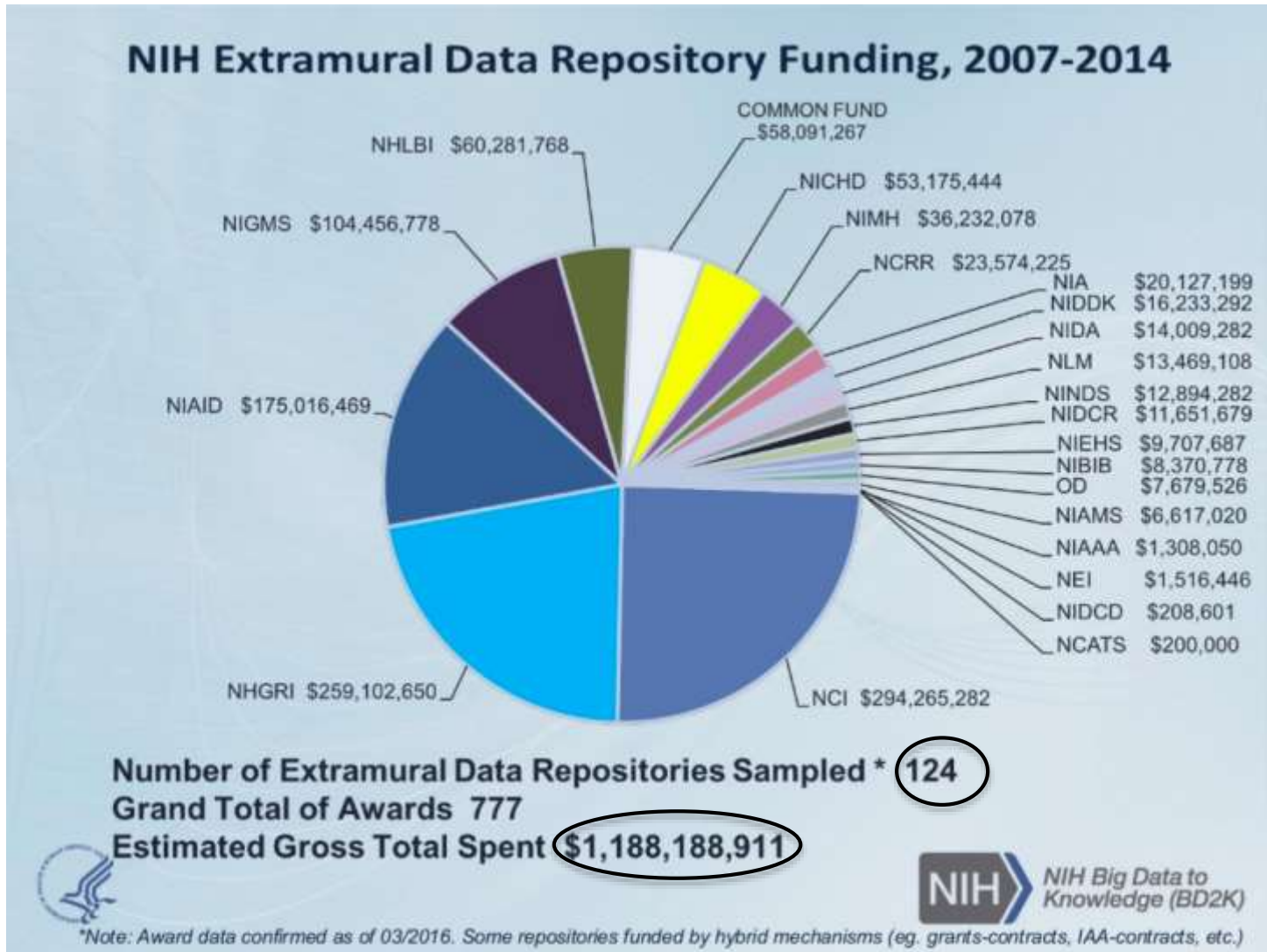
Researchers plan for hits to community hubs.

Erika Check Hayden

21 June 2016



# NIH Data Repository Funding



# TRUST for FAIR

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- **FAIR** defines the properties of data and metadata.
- **TRUST** describes the characteristics of data repositories that are responsible for managing and disseminating the data over a long period of time.

- **TRUST** is about providing a trusted repository for archiving and distributing data.
- **TRUST** is about having transparent policies, organizational capabilities and people behind the websites, infrastructure, and databases, who understand deeply what FAIR means to the users of their designated community.
- **TRUST** is about maintaining reliable and secure operations through technology and data stewardship procedures.
- **TRUST** is about sustaining infrastructures that are needed to support sustainable operations and long-term data and knowledge preservation.
- **TRUST** also represents a commitment to transparently fulfill the services promised to support the continuing use of data.

**FAIR Data in Repositories we TRUST**

# **The TRUST Principles**

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**T – Transparency**

**R – Responsibility**

**U – User community**

**S – Sustainability**

**T – Technology**



# **The Advantages of TRUST Principles**

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- **A framework for trustworthiness**
- **An umbrella for standards**
- **An aspiration for operations**
- **An aid for understanding**

# The TRUST Principles White Paper

- **Motivations:** The intent is to invite stakeholders' input to develop concise and measurable guidelines for those wishing to build and sustain a trustworthy data repository that provides services to make datasets FAIR, as open as possible and as closed as necessary, and citable.
- Version 0.01
- Dawei Lin, Jonathon Crabtree, Ingrid Dillo, Robert R. Downs, Rorie Edmunds, Wim Hugo, and Mustapha Mokrane .....
- Link: <https://bit.ly/2lh7g8F> (“l” after 2 is capital I, not small L)
- Twitter Hashtag #TRUSTPrinciples

# Imagine – John Lennon

“You may say I'm a dreamer  
But I'm not the only one  
I hope some day you'll join us  
And the world will be as one”

# The TRUST Principles

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- **T - Transparency** is achieved by providing publicly accessible evidence of the services that a repository can and can not offer.
- **R - Responsibility** is a commitment to provide high technical quality data services.
- **U - User community** is the focus on the uses and potential uses of the data and services offered.
- **S - Sustainability** is the capability to support long-term data preservation and use.
- **T - Technology** is the infrastructure and capabilities to support the repository operations.