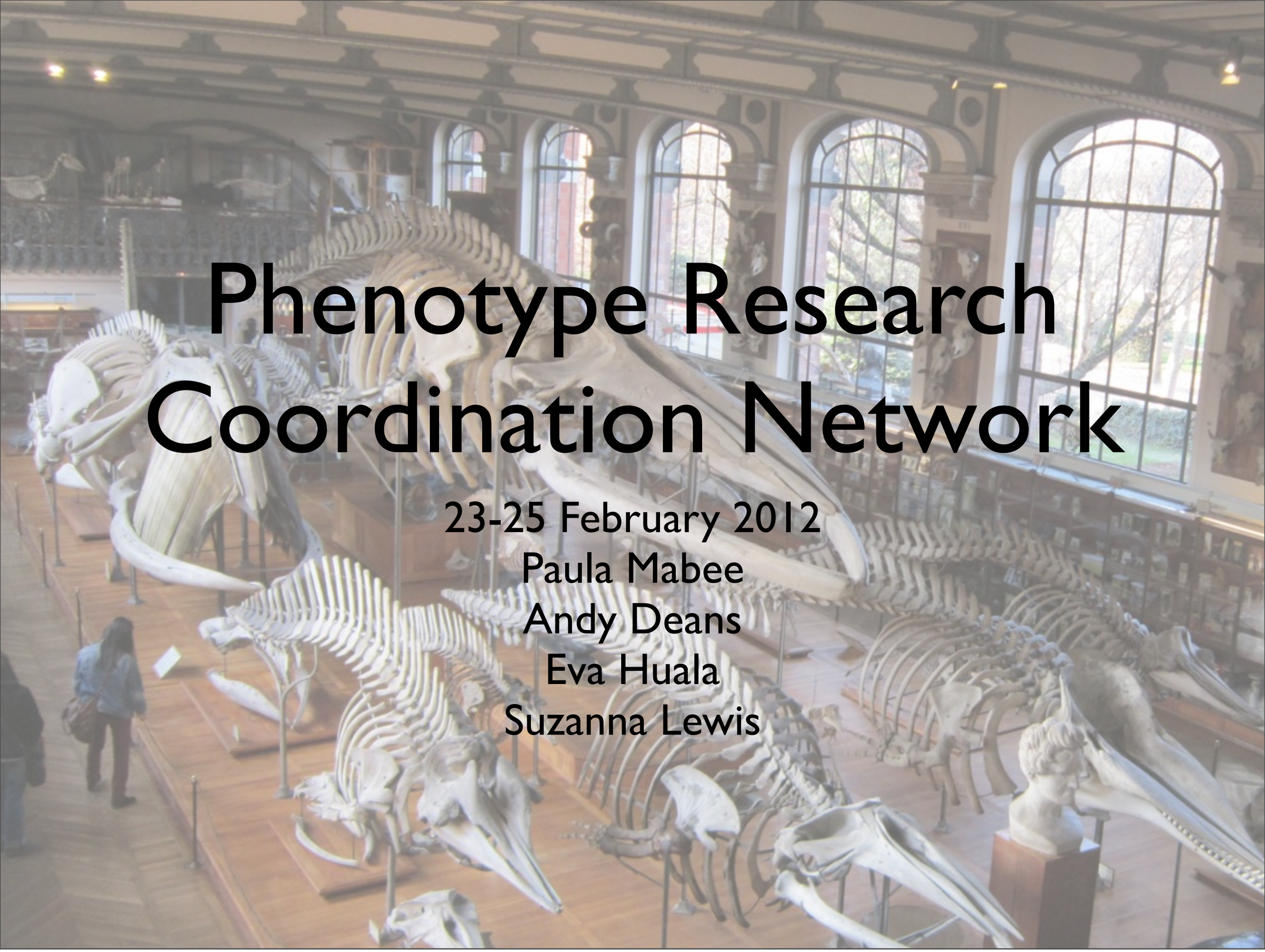
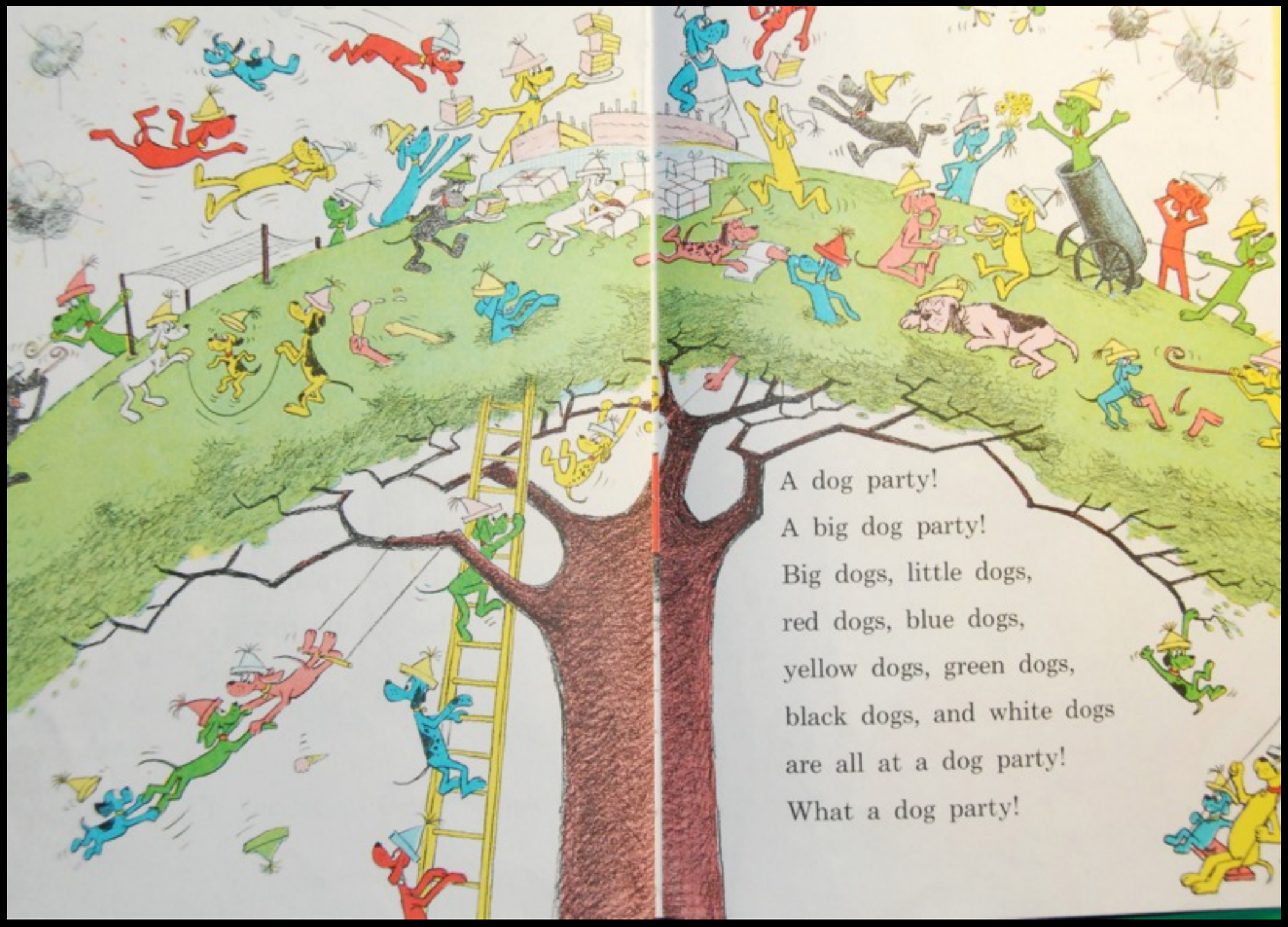


Phenotype Research Coordination Network

23-25 February 2012

Paula Mabee
Andy Deans
Eva Huala
Suzanna Lewis



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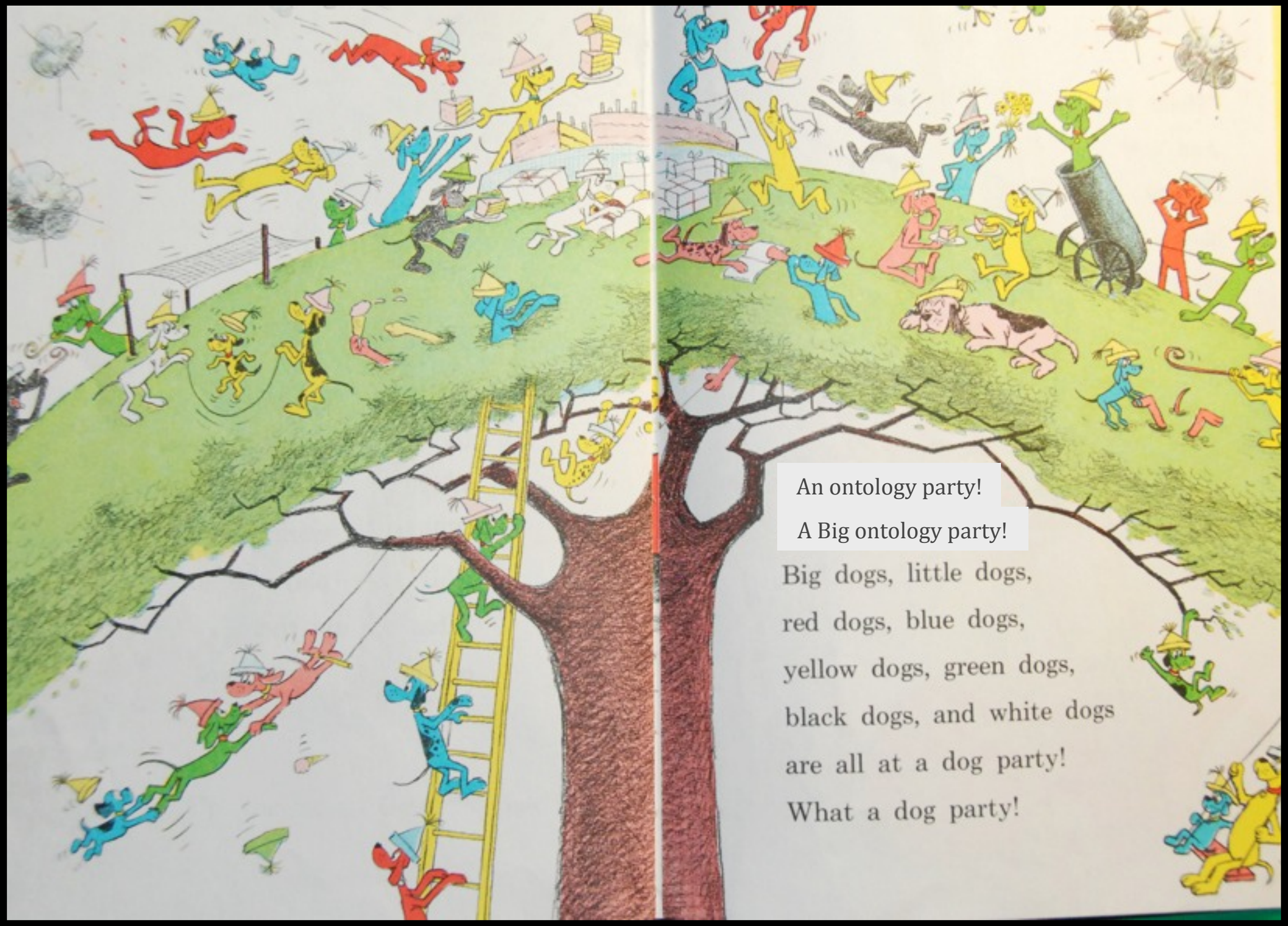
Go Dog Go, Seuss



Go!

Go Dog Go, Seuss

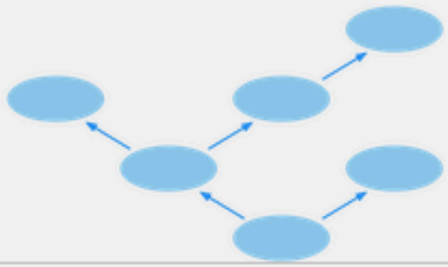
Research Coordination Networks

"To encourage and foster interactions among scientists to create new research directions or advance a field"

NSF solicitation: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=11691

Home | About | Community | Working Groups | Meetings And Opportunities | Resources

Phenotype RCN



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Welcome

The Phenotype Ontology Research Coordination Network (RCN) was funded by NSF to establish a network of scientists who are interested in comparing phenotypes across species and in developing the tools and methods needed in making this possible.

» Read more about the RCN

About

The Phenotype Ontology Research Coordination Network (RCN) was funded by NSF to establish a network of scientists who are interested in comparing phenotypes across species and in developing the tools and methods needed in making this possible. The representation of morphology, behavior, and other phenotypic traits using ontologies is in its infancy. Integrating phenotypes with data across all levels of the biological hierarchy, however, is possible if standards are co-developed and coordinated.

This RCN envisions building a community that because of its domain expertise, sets the standards and best practices for the development of phenotype ontologies and a vision for their utility. Please sign up as a participant and blog subscriber for further information and feel free to contact one of the PIs. We look forward to this opportunity!

Paula Mabee, Andy Deans, Eva Huala, and Suzanna Lewis

Representing phenotype

Announcements

- Funding for Meetings
- Collaborative Exchange Opportunities
- Jobs/Postdocs
- Annual Meeting Feb. 23-25, 2012

Wiki

Phenotype Ontology RCN

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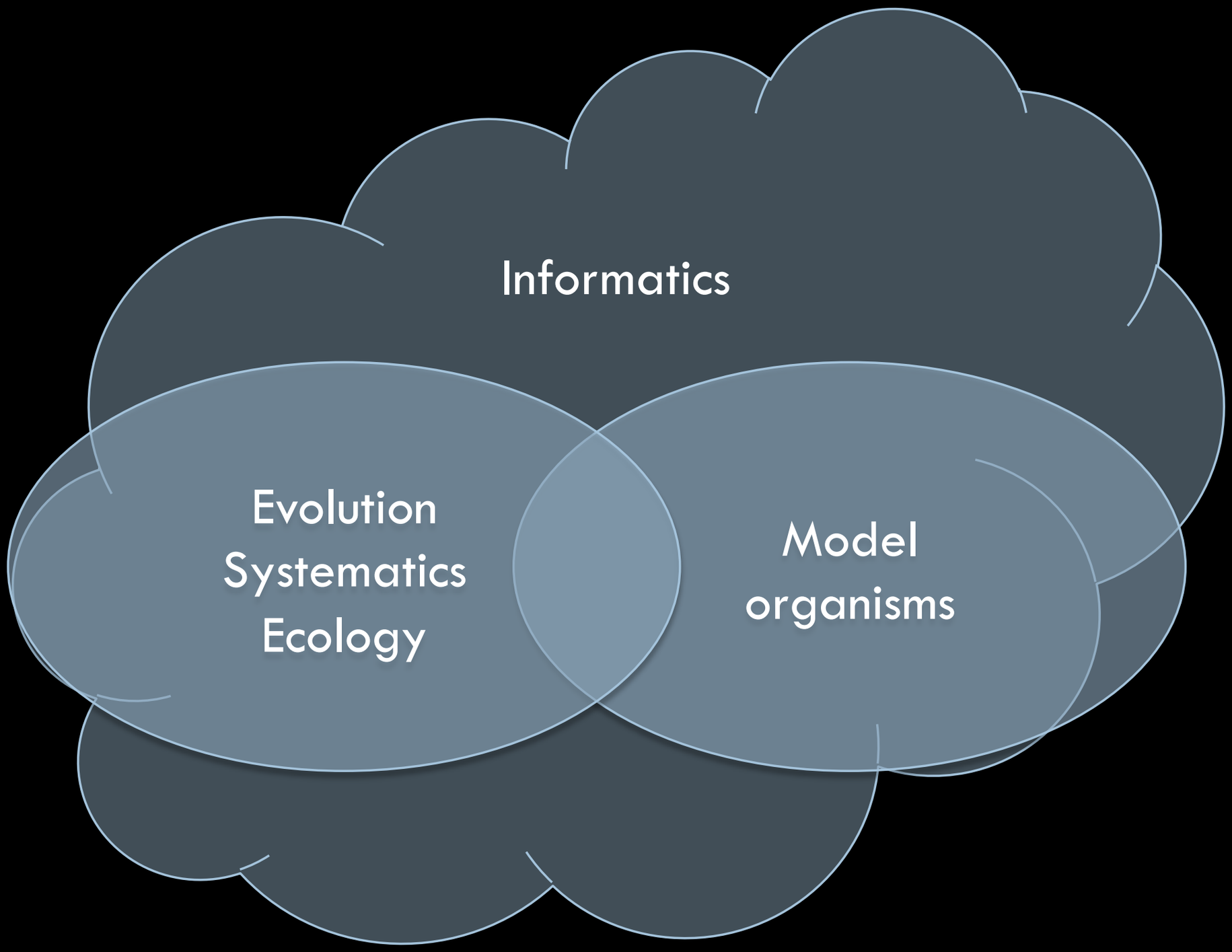
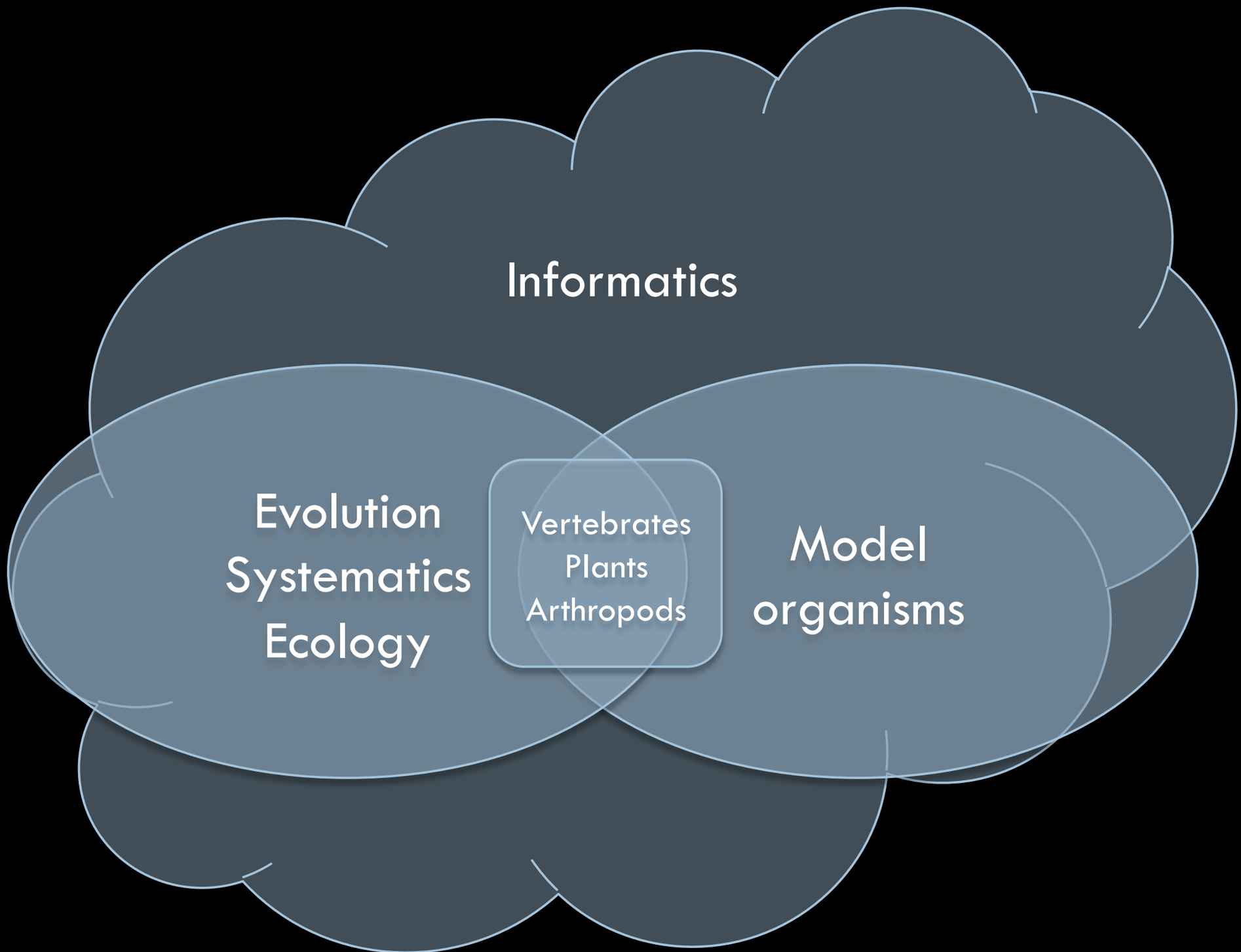
Phenotype RCN goals:

1. Develop community network
2. Develop anatomy ontologies across taxa so they are interoperable
3. Represent phenotype in a consistent and standardized manner
4. Enable community use of resources

Phenotype RCN



Phenotype RCN



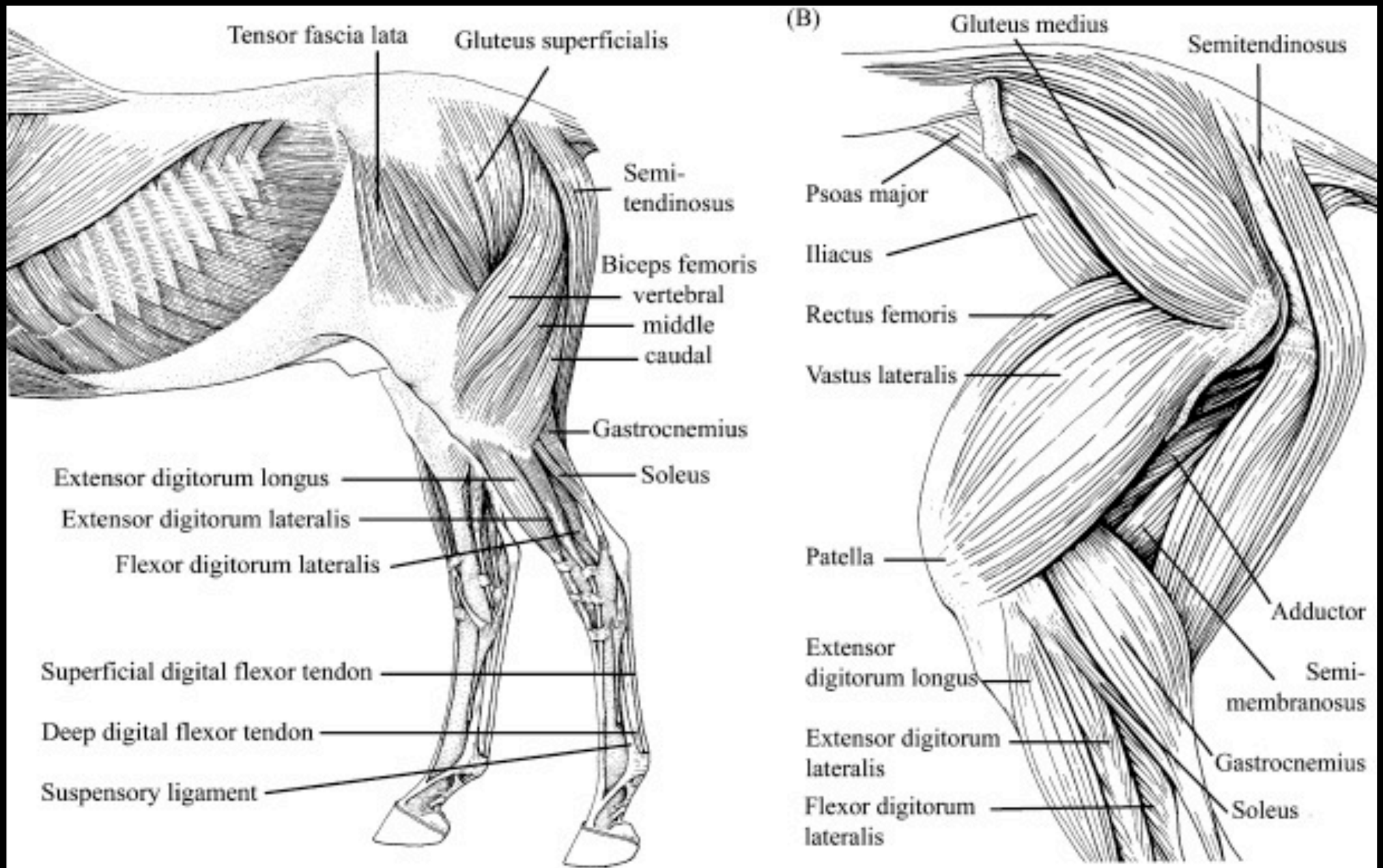
11 Feb 2011, *Science, Cover*

Deluge of genomic data

(12 Feb 2011 Science)

Paleolithic phenotypes

Artist unknown, Lascaux



Scientific phenotypes

J Anat. 2008 February; 212(2): 144–152.doi: 10.1111/j.1469-7580.2007.00848.Figure taken directly from Payne et al. (2005), by permission

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CUVIER'S

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Arranged according to its Organization;

FORMING THE BASIS FOR

A NATURAL HISTORY OF ANIMALS,

AND

Search

suborbital Go

Sort by: **Pages** | Relevance

The Star-gazer is the only genus of the Perch family which resembles them in this respect; but in it, though the **suborbital** bone is very broad, ... 294

... small ventrals, and one dorsal, consisting of three lobes. Aputet, Treacherous, are small fishes, having a formidable spine on the **suborbital** ... 295

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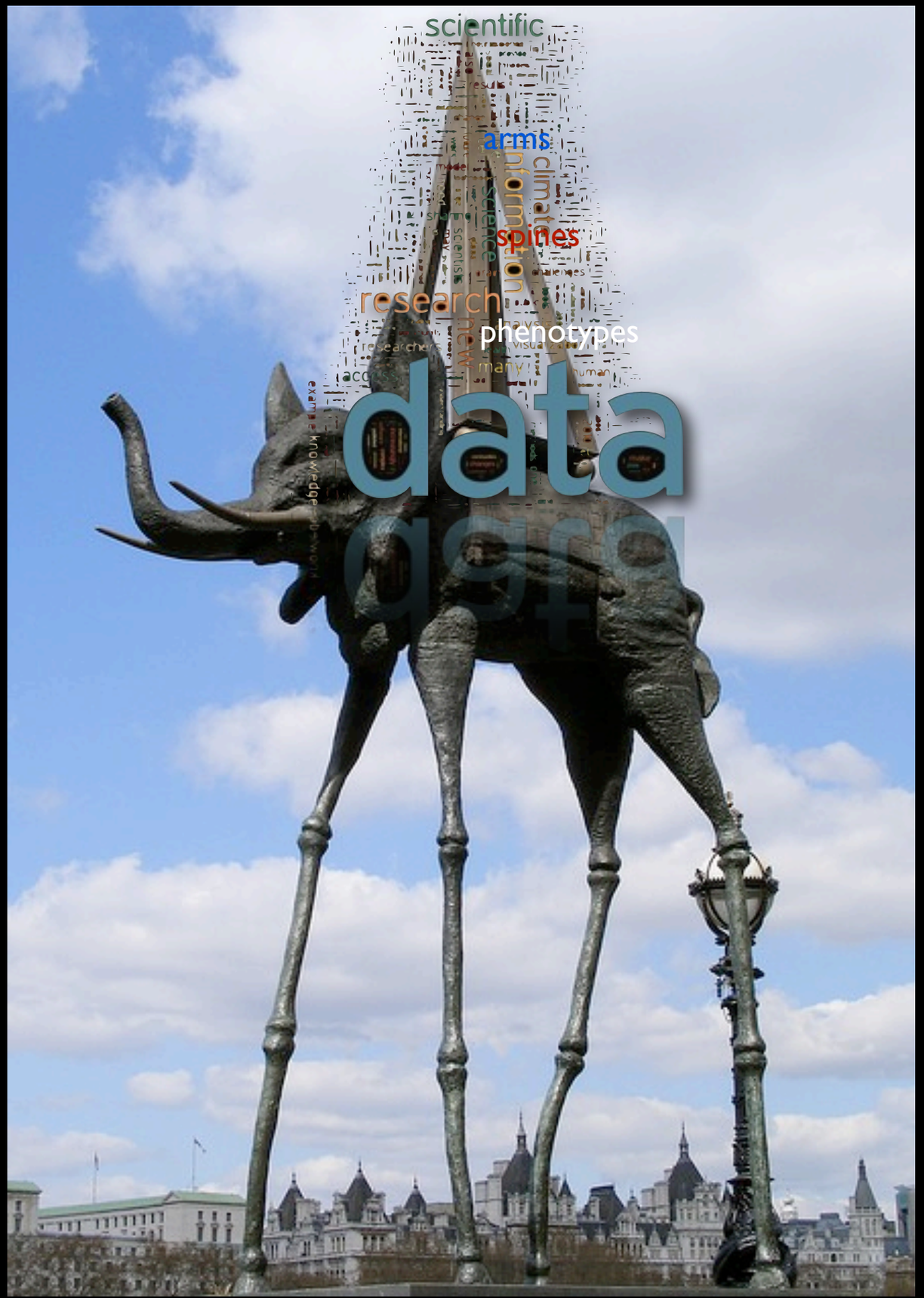
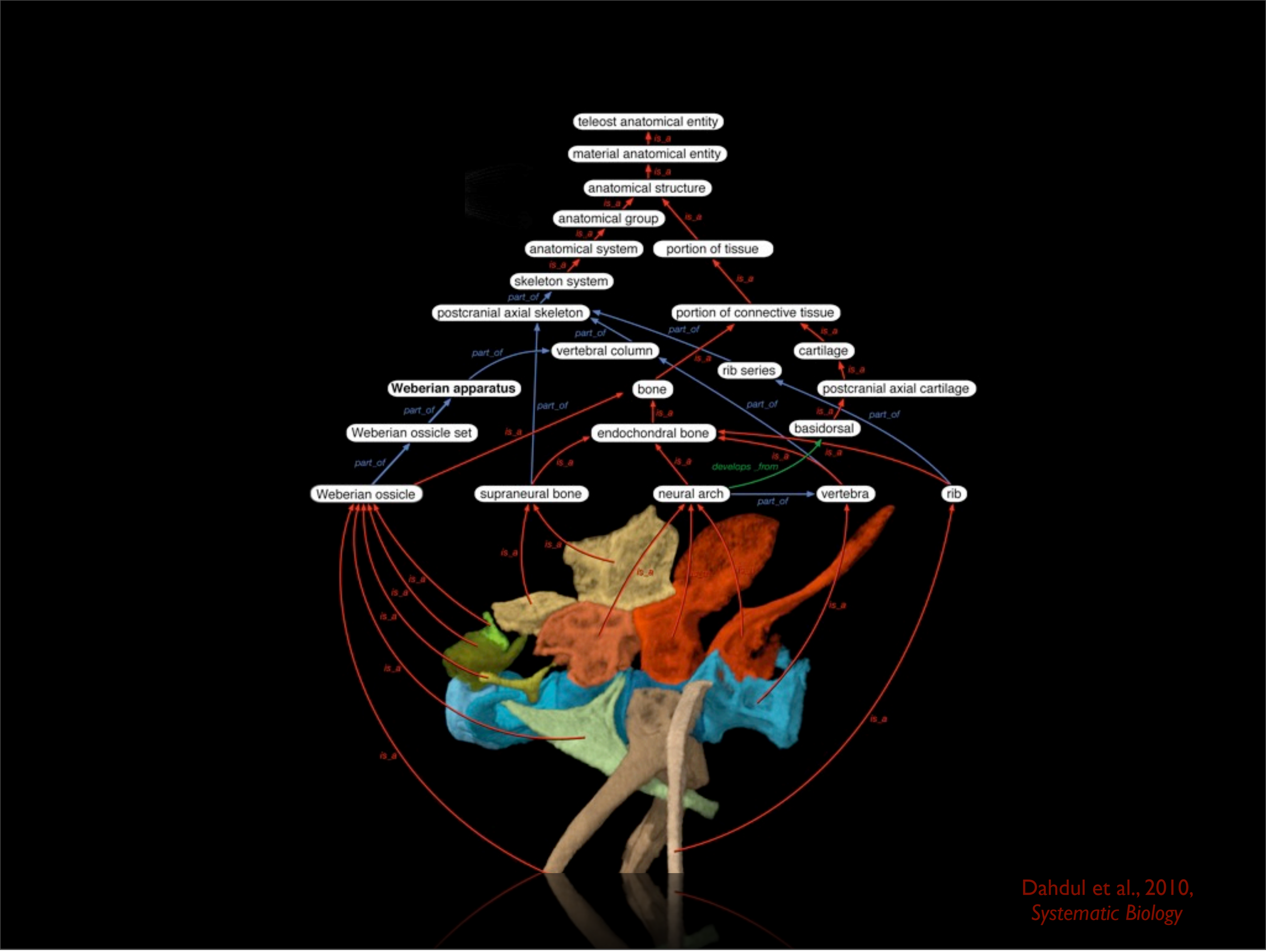


adapted from Dali



Dahdul et al., 2010,
Systematic Biology

Pimelodus maculatus
photo J. Lundberg, ANSP 2002

This meeting:

- ✳ Inspiring speakers
  - think of new ways to use annotations
- ✳ Hands-on exercises
  - learn to build ontologies (101 & AP)
  - take home annotation tools
- ✳ Exciting participants; breakout groups
  - meet collaborators