

BioRDF: Seeding the Semantic Web

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BioRDF Charter

- Build a life sciences demo that spans from bench to bedside using RDF & OWL to help scientist better understand the value of the Semantic Web
- Explore the effectiveness of current tools for making data available as RDF
- Document our finding to help accelerate the adoption of the Semantic Web by others

BioRDF Participants

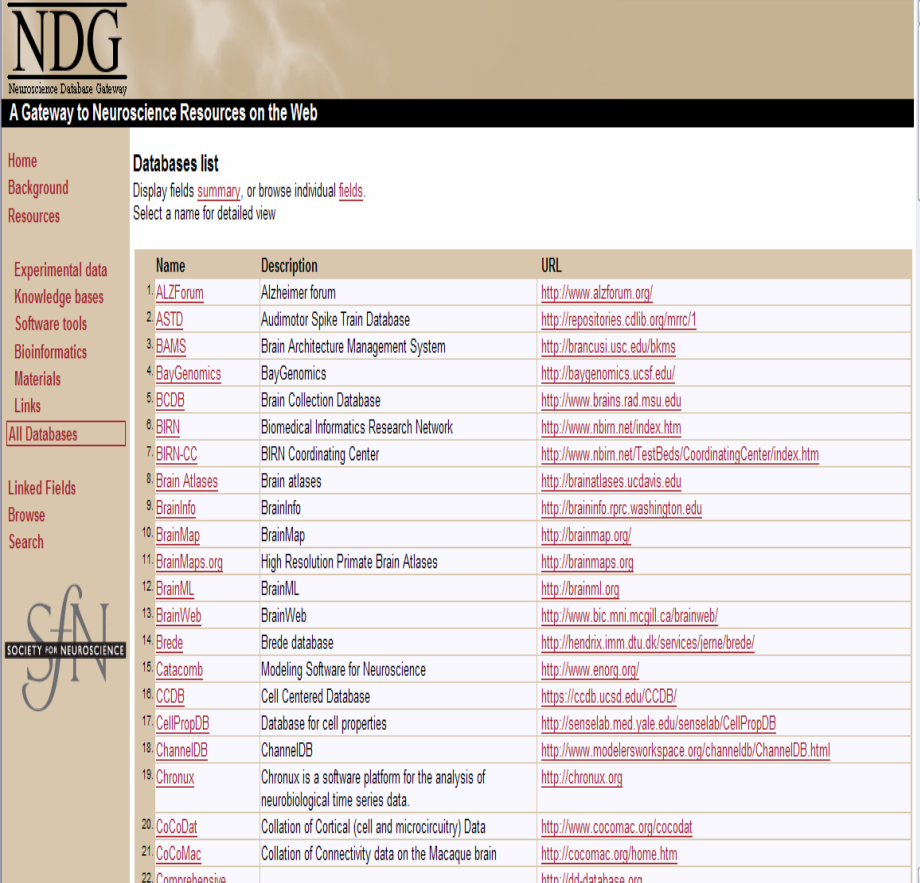
John Barkley (NIST), Olivier Bodenreider (NLM), Kyle Bruck (Stanford University), Vinay Chaudhri (SRI), Kei Cheung (Yale University), Tim Clark (MGH), Roger Cutler (Chevron), Don Doherty (Brainstage Research), Yong Gao (MGH), Brian Gilman (Panther Informatics), June Kinoshita (AlzForum), Nikesh Kotecha (Stanford University), Ora Lassila (Nokia), Joanne Luciano (Predictive Medicine), M. Scott Marshall (University of Amsterdam), Robin McEntire (GSK), Brian Osborne (BioPerl), Christophe Poulain (Teranode), Daniel Rubin (Stanford University), Alan Ruttenburg (Millennium Pharmaceuticals), Matthias Samwald (Medical University of Vienna), Matt Shanahan (Teranode), Karen Skinner (NIH), Susie Stephens (Oracle), Charles Tilford (BMS), John Wilbanks (Creative Commons), Elizabeth Wu (AlzForum), Davide Zaccagnini (Language and Computing).

Neuroscience Focus

- Heterogeneous Data
- Molecules to nervous system
- Numerous Web resources
- Effective data sharing & integration needed

Disease Focus

- Huntingtons
- Alzheimers
- Parkinsons



NDG
Neuroscience Database Gateway

A Gateway to Neuroscience Resources on the Web

Home
Background
Resources

Experimental data
Knowledge bases
Software tools
Bioinformatics
Materials
Links
All Databases

Linked Fields
Browse
Search

SFN
SOCIETY FOR NEUROSCIENCE

Databases list
Display fields [summary](#), or browse individual [fields](#).
Select a name for detailed view

Name	Description	URL
1. ALZForum	Alzheimer forum	http://www.alzforum.org/
2. ASTD	Audomotor Spike Train Database	http://repositories.cdlib.org/mrrc/1
3. BAMS	Brain Architecture Management System	http://brancusi.usc.edu/bkms
4. BayGenomics	BayGenomics	http://baygenomics.ucsf.edu/
5. BCDB	Brain Collection Database	http://www.brains.rad.msu.edu
6. BIRN	Biomedical Informatics Research Network	http://www.nbirn.net/
7. BIRN-CC	BIRN Coordinating Center	http://www.nbirn.net/TestBeds/CoordinatingCenter/index.htm
8. Brain Atlases	Brain atlases	http://brainatlases.ucdavis.edu
9. BrainInfo	BrainInfo	http://braininfo.rprc.washington.edu
10. BrainMap	BrainMap	http://brainmap.org/
11. BrainMaps.org	High Resolution Primate Brain Atlases	http://brainmaps.org
12. BrainML	BrainML	http://brainml.org
13. BrainWeb	BrainWeb	http://www.bic.mni.mcgill.ca/brainweb/
14. Brede	Brede database	http://hendrix.imm.dtu.dk/services/eme/brede/
15. Catacomb	Modeling Software for Neuroscience	http://www.enorg.org/
16. CCDB	Cell Centered Database	https://ccdb.ucsd.edu/CCDB/
17. CellPropDB	Database for cell properties	http://senselab.med.yale.edu/senselab/CellPropDB
18. ChannelDB	ChannelDB	http://www.modelersworkspace.org/channeldb/ChannelDB.html
19. Chronux	Chronux is a software platform for the analysis of neurobiological time series data.	http://chronux.org
20. CoCoDat	Collation of Cortical (cell and microcircuitry) Data	http://www.cocomac.org/cocodat
21. CoCoMac	Collation of Connectivity data on the Macaque brain	http://cocomac.org/home.htm
22. Comprehensive		http://dd-database.org

The BioRDF Meadow



BioRDF Tasks

ESW Wiki [Login](#)

HCLSIG BioRDF Subgroup **Tasks**

[FrontPage](#) [RecentChanges](#) [FindPage](#) [HelpContents](#) **Tasks**

[Edit \(Text\)](#) [Edit \(GUI\)](#) [Info](#) [Attachments](#) [More Actions:](#)

Active Tasks

- [/Reagents \(Status\)](#)
- [/SenseLab](#)
- [/Using SW Technologies to Find Small Molecules that Bind to Proteins](#)
- [/Gene Neural related gene data](#)
- [/OMIM Neural diseases](#)
- [/Natural Language Processing and RDF](#)
- [/Ligand-Receptor Interaction, Molecular Interaction Networks, Ontology Evolution](#)
- [/Vocabulary Requirements](#)

Proposed Tasks

- [/Brain Connectivity](#)
- [/Brain Atlas condition to scans](#)
- [/Protein Neural related protein data](#)
- [/Ruby On Rails and ActiveRDF](#)

BioRDF Rocks!

- Sign up for W3C's HCLS
 - <http://w3.org/2001/sw/hcls>
- Take a look at the BioRDF Wiki
 - http://esw.w3.org/topic/HCLSIG_BioRDF_Subgroup
- Join the bi-weekly calls
 - Mondays, 4pm UK time