

Alliance of Genome Resources

A Lesson in Resource Integration and Sustainability



Kimberly M. Van Auken, PhD
Alliance of Genome Resources
ACKnowledge
Gene Ontology Consortium
WormBase

Thursday, May 15th, 2025



GLOBAL
CORE
BIODATA
RESOURCE

Alliance of Genome Resources: a consortium of seven model organism knowledgebases and the Gene Ontology



GLOBAL
BIODATA
COALITION

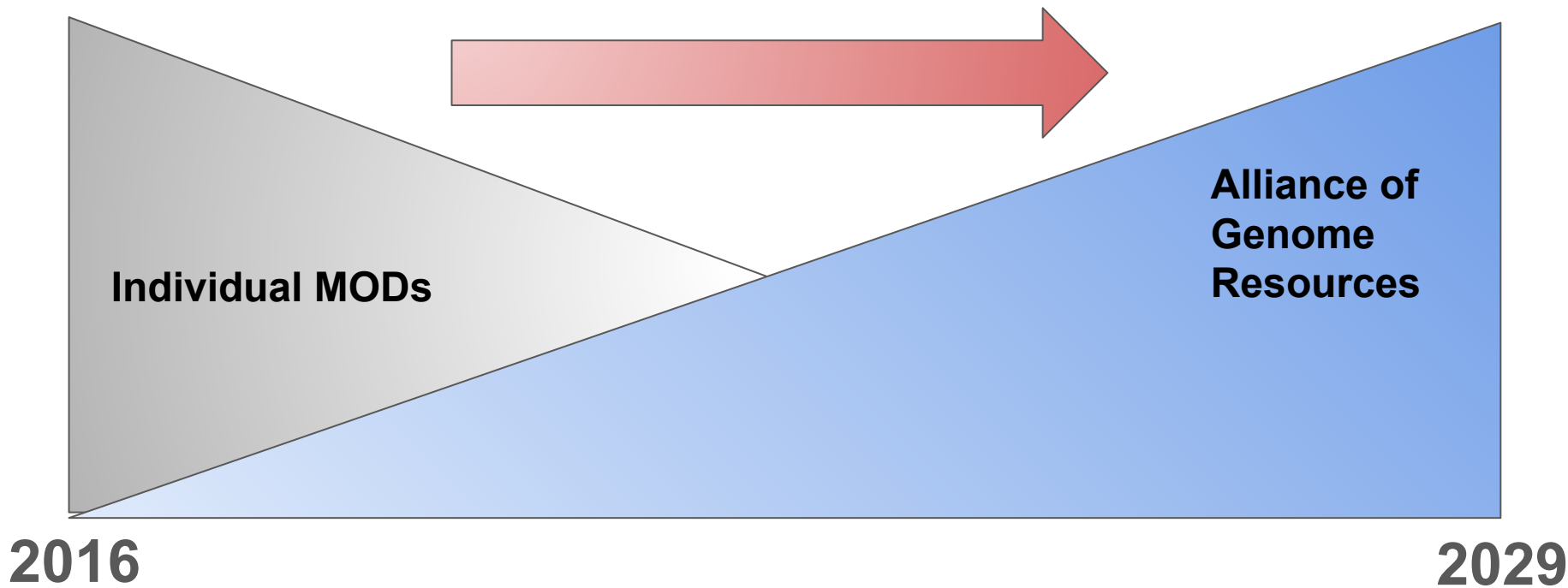
Why did the Alliance form?

- Changes to funding priorities
- Desire for shared user experience (website, programmatic)
- Promote further data standardization
- Reduce redundant infrastructure, introduce new efficiencies

When and how did the Alliance form?

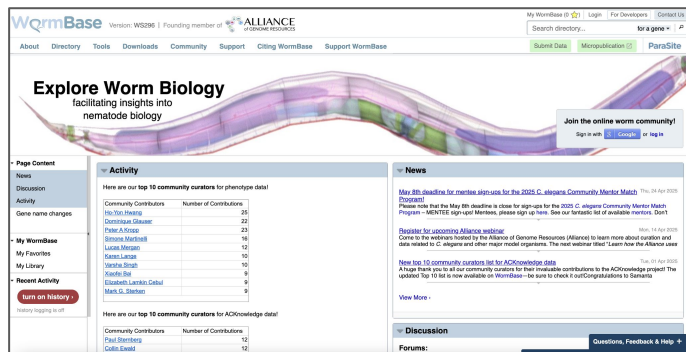
- NHGRI urged MODs and GOC to restructure organization, management, infrastructure - early 2016
- Initial concept from MODs and GOC presented to NHGRI - May 2016
- Formal proposal funded for first steps of integration work - September 2016

Approach: systematic harmonization and migration of data and software infrastructure

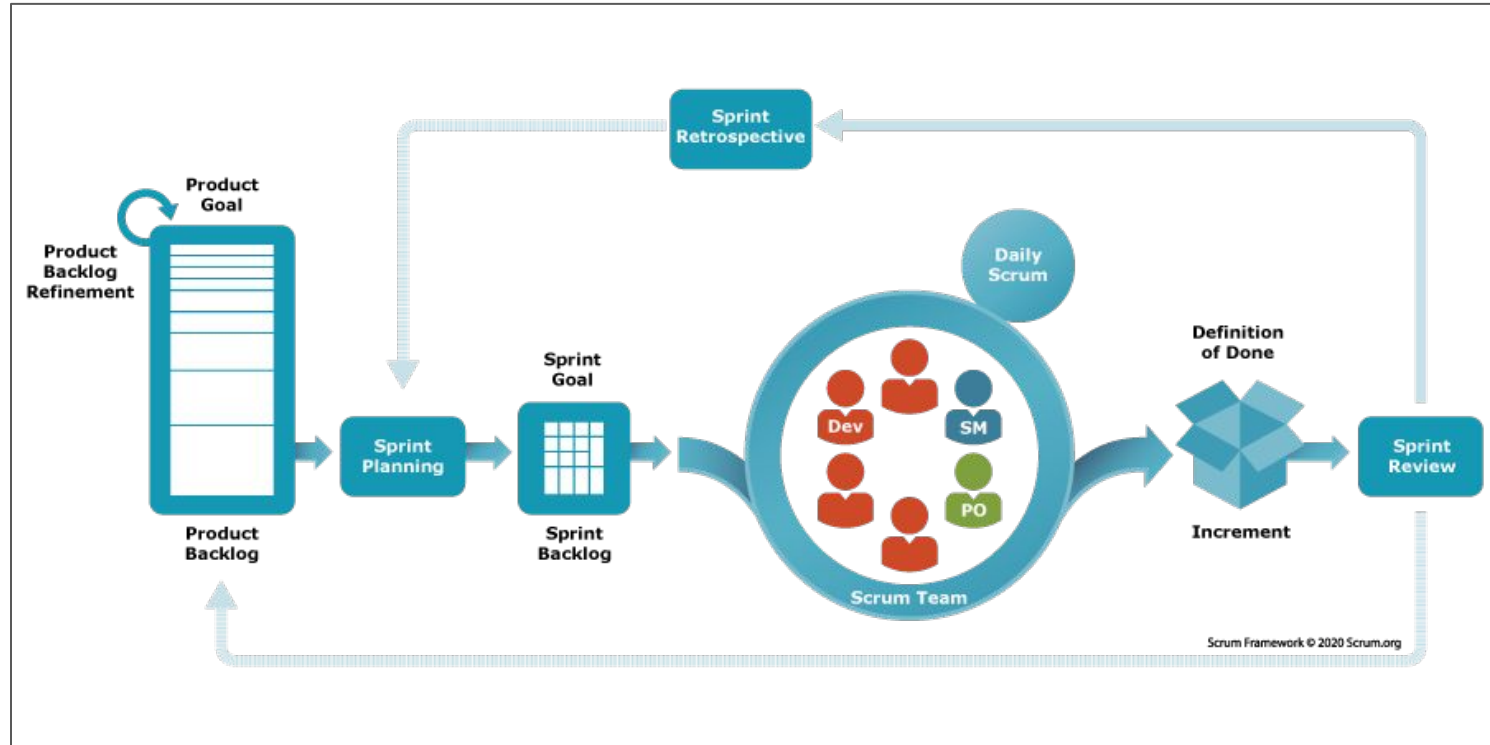


Core infrastructure of a model organism knowledgebase

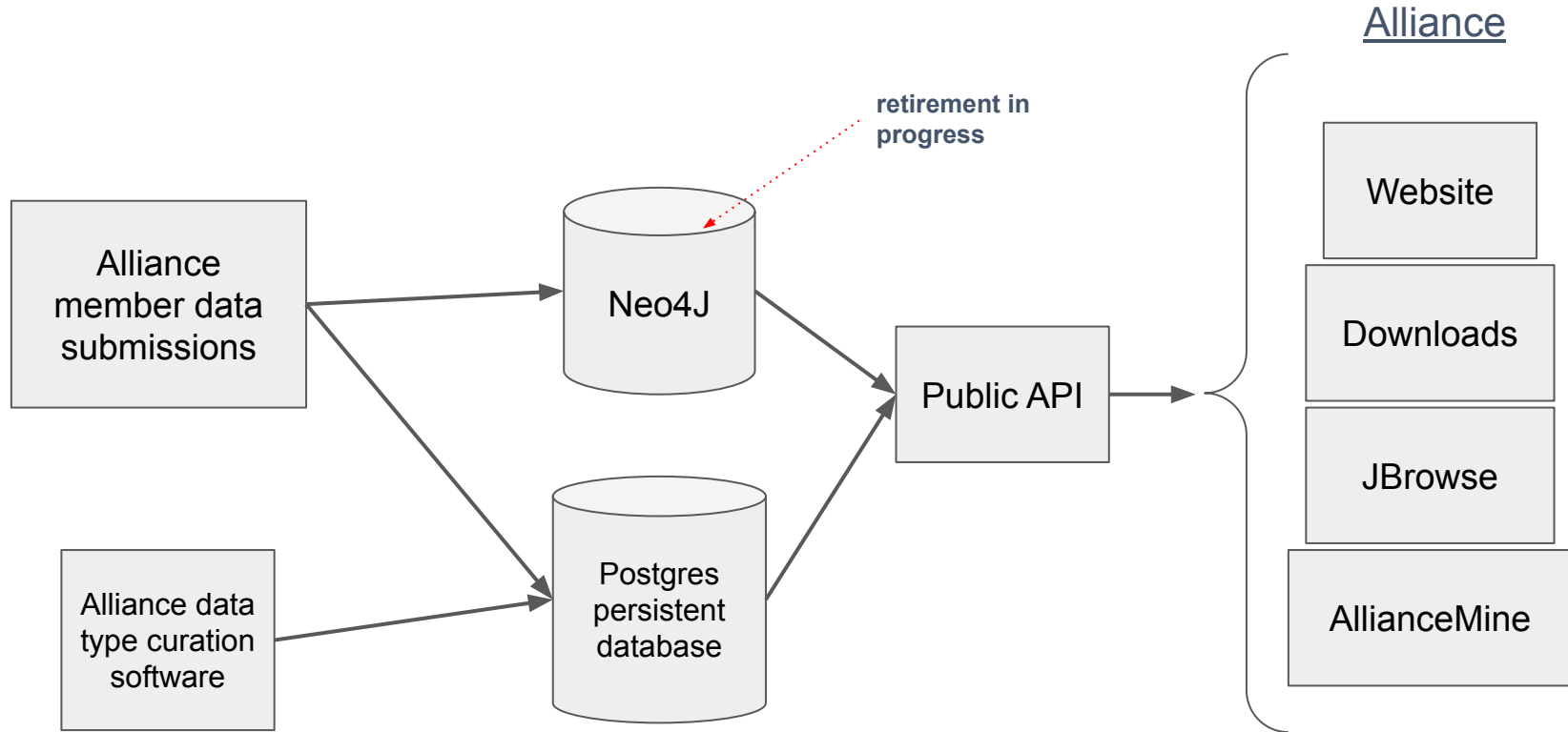
- Data store
- API
- Website
 - data pages
 - analysis tools
 - file downloads
- Curation pipelines and tools

[illegible]

Approach: Agile and Scrum methodologies

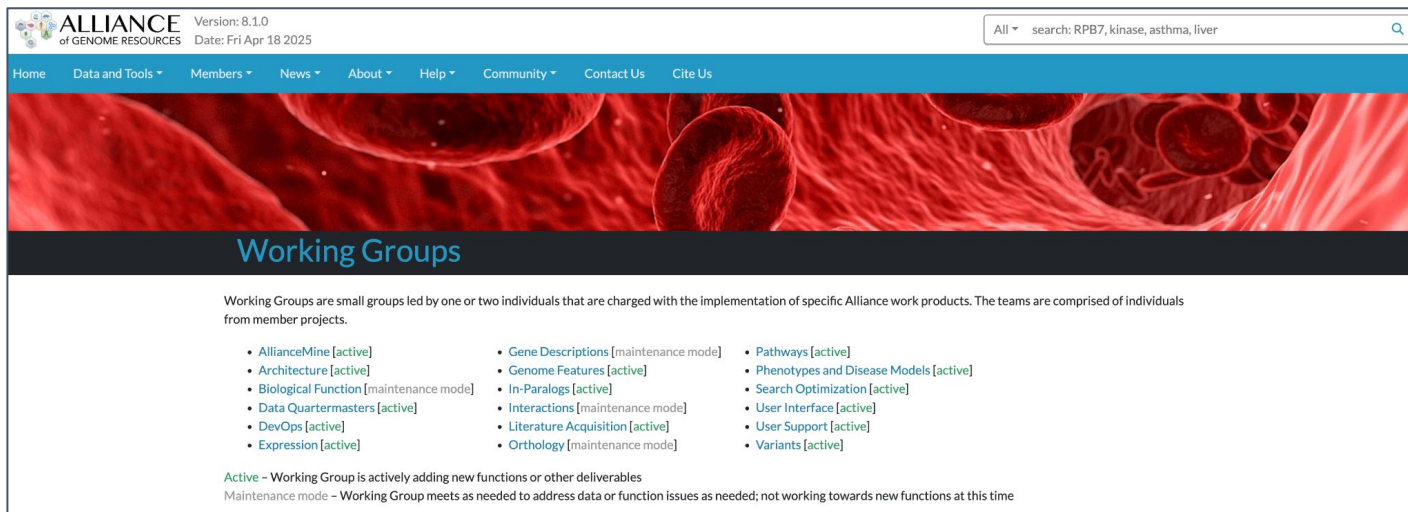


Database, Website, Data Curation: Scrum A Team



Alliance member data submissions

- Identify what types of data to include
- Understand how each member group curates that data
- Design and implement a harmonized data model
- Submit data to the central data store using that model



The screenshot shows the Alliance of Genome Resources website. The header includes the Alliance logo, version (8.1.0), and date (Fri Apr 18 2025). A search bar contains the text "search: RPB7, kinase, asthma, liver". The navigation menu includes Home, Data and Tools, Members, News, About, Help, Community, Contact Us, and Cite Us. The main content area features a large red image of cells and a section titled "Working Groups". Below this, a paragraph explains that Working Groups are small groups led by one or two individuals charged with implementing specific Alliance work products. A list of 15 Working Groups is displayed in three columns, each with a status in brackets: [active] or [maintenance mode]. At the bottom, a legend defines "Active" and "Maintenance mode".

Version: 8.1.0
Date: Fri Apr 18 2025

All search: RPB7, kinase, asthma, liver

Home Data and Tools Members News About Help Community Contact Us Cite Us

Working Groups

Working Groups are small groups led by one or two individuals that are charged with the implementation of specific Alliance work products. The teams are comprised of individuals from member projects.

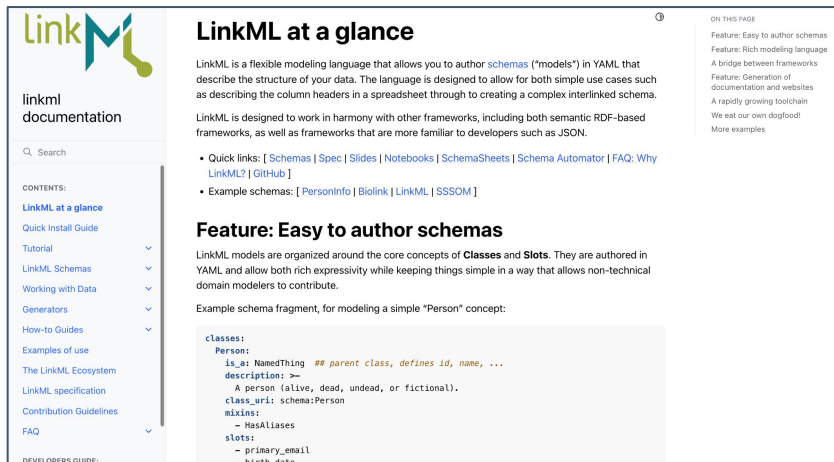
- AllianceMine [active]
- Architecture [active]
- Biological Function [maintenance mode]
- Data Quartermasters [active]
- DevOps [active]
- Expression [active]
- Gene Descriptions [maintenance mode]
- Genome Features [active]
- In-Paralogs [active]
- Interactions [maintenance mode]
- Literature Acquisition [active]
- Orthology [maintenance mode]
- Pathways [active]
- Phenotypes and Disease Models [active]
- Search Optimization [active]
- User Interface [active]
- User Support [active]
- Variants [active]

Active – Working Group is actively adding new functions or other deliverables
Maintenance mode – Working Group meets as needed to address data or function issues as needed; not working towards new functions at this time

<https://www.alliancegenome.org/working-groups>

Alliance data models: LinkML

- Linked Data Modeling Language (LinkML)
- Data submitted in JSON format by MOD data quarter masters (DQMs)
- Validation and consistency checks upon loading



The screenshot shows the LinkML documentation website. On the left is a sidebar with the LinkML logo and a navigation menu. The main content area is titled 'LinkML at a glance' and contains an introduction to the language, a list of quick links, and a section on the 'Easy to author schemas' feature. A code block shows a YAML schema fragment for a 'Person' class.

linkml documentation

Search

CONTENTS:

- [LinkML at a glance](#)
- [Quick Install Guide](#)
- [Tutorial](#)
- [LinkML Schemas](#)
- [Working with Data](#)
- [Generators](#)
- [How-to Guides](#)
- [Examples of use](#)
- [The LinkML Ecosystem](#)
- [LinkML specification](#)
- [Contribution Guidelines](#)
- [FAQ](#)
- [DEVELOPERS GUIDE](#)

LinkML at a glance

LinkML is a flexible modeling language that allows you to author **schemas** ("models") in YAML that describe the structure of your data. The language is designed to allow for both simple use cases such as describing the column headers in a spreadsheet through to creating a complex interlinked schema.

LinkML is designed to work in harmony with other frameworks, including both semantic RDF-based frameworks, as well as frameworks that are more familiar to developers such as JSON.

- Quick links: [[Schemas](#) | [Spec](#) | [Slides](#) | [Notebooks](#) | [SchemaSheets](#) | [Schema Automator](#) | [FAQ](#): [Why LinkML?](#) | [GitHub](#)]
- Example schemas: [[PersonInfo](#) | [BioLink](#) | [LinkML](#) | [SSSOM](#)]

Feature: Easy to author schemas

LinkML models are organized around the core concepts of **Classes** and **Slots**. They are authored in YAML and allow both rich expressivity while keeping things simple in a way that allows non-technical domain modelers to contribute.

Example schema fragment, for modeling a simple "Person" concept:

```
classes:
  Person:
    is_a: NamedThing ## parent class, defines id, name, ...
    description: >-
      A person (alive, dead, undead, or fictional).
    class_uri: schema:Person
    mixins:
      - HasAliases
    slots:
      - primary_email
      - linked_data
```

<https://linkml.io/linkml/intro/overview.html>

Alliance LinkML model for variants













LinkML models describe attributes of an entity or type of data; use ontologies and CVs wherever possible

agr_curation_schema / model / schema / variation.yaml

Code Blame 525 lines (472 L...

```
41
42 # Classes
43
44 classes:
45   Variant:
46     is_a: GenomicEntity
47     description: >-
48       A DNA, RNA or protein/polypeptide sequence that differs relative to a
49       designated reference sequence. The sequence occurs at a single
50       position or in a range of contiguous nucleotides or amino acids.
51     slots:
52       - variant_type
53       - related_notes
54       - synonyms
55       - source_general_consequences
56       - curated_variant_genomic_locations
57       - curated_variant_transcript_locations
58       - curated_variant_polypeptide_locations
59       - source_variant_genomic_locations
60       - source_variant_transcript_locations
61       - source_variant_polypeptide_locations
62       - variant_status
63       - references
64     exact_mappings:
65       - SO:0001059
66     notes: >-
67       a variant must have a genome location, or mus
```

```
365   variant_type:
366     is_a: genomic_entity_type
367     description: >-
368       SOTerm describing the type of variant. In practice, variant type will be limited to a subset of the SO specified
369       in an Alliance controlled vocabulary in order to maintain consistency.
370     domain: Variant
```

Allele/Variant Symbol  	Allele Synonyms 	Category  	Variant 	Variant Type 	Molecular Consequence  
ox299		allele with one associated variant	NC_003282.8:g.1278151T>A 	point mutation	missense variant
m68		allele with one associated variant	NC_003282.8:g.12776551C>T 	point mutation	stop gained
tg65		allele with one associated variant	NC_003282.8:g.12777572C>T 	point mutation	stop gained

https://github.com/alliance-genome/agr_curation_schema

Alliance Data Curation Tools

AGR Curation: v0.39.5



CURATION

Dashboard

Data Tables

Affected Genomic Models

Alleles

Constructs

Disease Annotations

Experimental Conditions

Experiments

Genes

Gene Genetic Interactions

Gene Molecular Interactions

Literature References

Molecules

Phenotype Annotations

Species

Variants

Ontologies

Disease Annotations Table

33 items selected

+ New Annotation

Reset Table

Set to MOD Defaults

			Unique ID ↕ 2	MOD Internal ID ↕	Subject ↕ 1	Disease Relation ↕	Disease ↕	Reference
Filters						Select		
			FB:FBaI0387...		14-3-3 ^{K52N} (FB:FBaI0387547)	is_implicated_in	intellectual disabilit...	PMID:360
			MGI:3530127...	MGI:diseaseannotat...	2310039L15RikTg(Pnnp-SNCA ^{A53T})23...	is_implicated_in	Parkinson's disease...	PMID:366
			MGI:3530127...	MGI:diseaseannotat...	2310039L15RikTg(Pnnp-SNCA ^{A53T})23...	is_implicated_in	Parkinson's disease...	PMID:362
			MGI:3530127...	MGI:diseaseannotat...	2310039L15RikTg(Pnnp-SNCA ^{A53T})23...	is_implicated_in	Parkinson's disease...	PMID:332
			MGI:3530127...	MGI:diseaseannotat...	2310039L15RikTg(Pnnp-SNCA ^{A53T})23...	is_implicated_in	Parkinson's disease...	PMID:223
			FB:FBaI0259...		5-HT1B ^{KK11234}	is_implicated_in	generalized anxiety ...	PMID:270
			FB:FBaI0260...		5-HT1B ^{KK11560} Identifier: MGI:3530127 Name: transgene insertion 23, Michael K Lee (FB:FBaI0260078)		generalized anxiety ...	PMID:270
			FB:FBaI0237...		5-HT2A ^{KK110704} (FB:FBaI0237002)	is_implicated_in	generalized anxiety ...	PMID:270
			FB:FBaI0237...		5-HT2B ^{KK111548} (FB:FBaI0237491)	is_implicated_in	autism spectrum di...	PMID:362
			FB:FBaI0386...		5-HT2B ^{KO.46-2} (FB:FBaI0386337)	is_implicated_in	autism spectrum di...	PMID:362
			FB:FBaI0386...		5-HT2B ^{KO.5-1} (FB:FBaI0386336)	is_implicated_in	autism spectrum di...	PMID:362
			HGNC:2408...		A1CF (HGNC:24086)	is_implicated_in	gout (DOID:13189)	PMID:286
			HGNC:2408...		A1CF (HGNC:24086)	is_implicated_in	gout (DOID:13189)	PMID:282
			HGNC:7 is_m...		A2M (HGNC:7)	is_marker_for	cerebral infarction (...)	PMID:282



Alliance Bibliography Central: Scrum Blue Team

ProdSearchBiblio EditSortTrackerCreateMergeReportsDownloadSwaggerOkta Help

Search References

AllSearch?

1,159,374 resultsResults per page 50Newest firstPage 1 of 23,188

language: English xClear All

➤ Alliance Metadata

➤ Workflow Tags

➤ Bibliographic Data

➤ Topics and Entities

➤ Date Range

Zebrafish optic nerve regeneration involves resident and retinal oligodendrocytes.

AGRKB:101000001065534
PMID:39878527
EuropePMC
DOI:10.4103/NRR.NRR-D-24-00621
ZFIN:ZDB-PUB-250130-2

Authors : Cristina Pérez-Montes, Rosalía Hernández-García, Jhoana Paola Jiménez-Cubides, Laura DeOliveira-Mello, Almudena Velasco, Rosario Arévalo, Marina García-Macia, Adrián Santos-Ledo

Publication Date: 2026-02-01

Abstract:
JOURNAL/nrgr/04.03/01300535-202602000-00049/figure1/v/2025-05-05T160104Z/r/image-tiff The visual system of teleost fish grows continuously, which is a useful model for studying regeneration of the central nervous system. Glial cells are key for this process, but their contribution is still not well defined. We followed oligodendrocytes in the visual system of adult zebrafish during regeneration of the optic nerve at 6, 24, and 72 hours post-lesion and at 7 and 14 days post-lesion via the ... [Show More](#)

Matching Text:

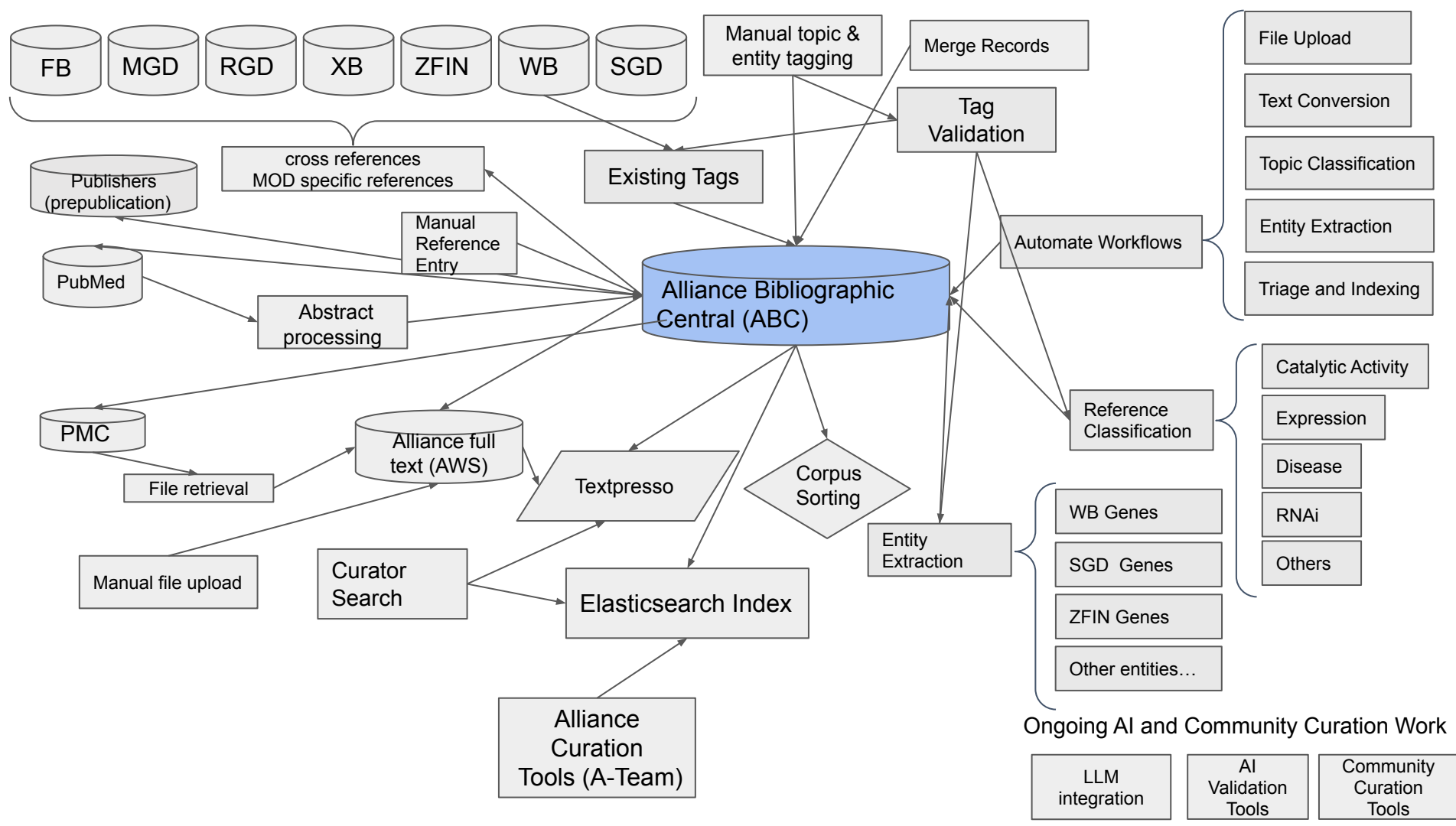
Stress granules: Guardians of cellular health and triggers of disease.

AGRKB:101000001158619
PMID:39995077

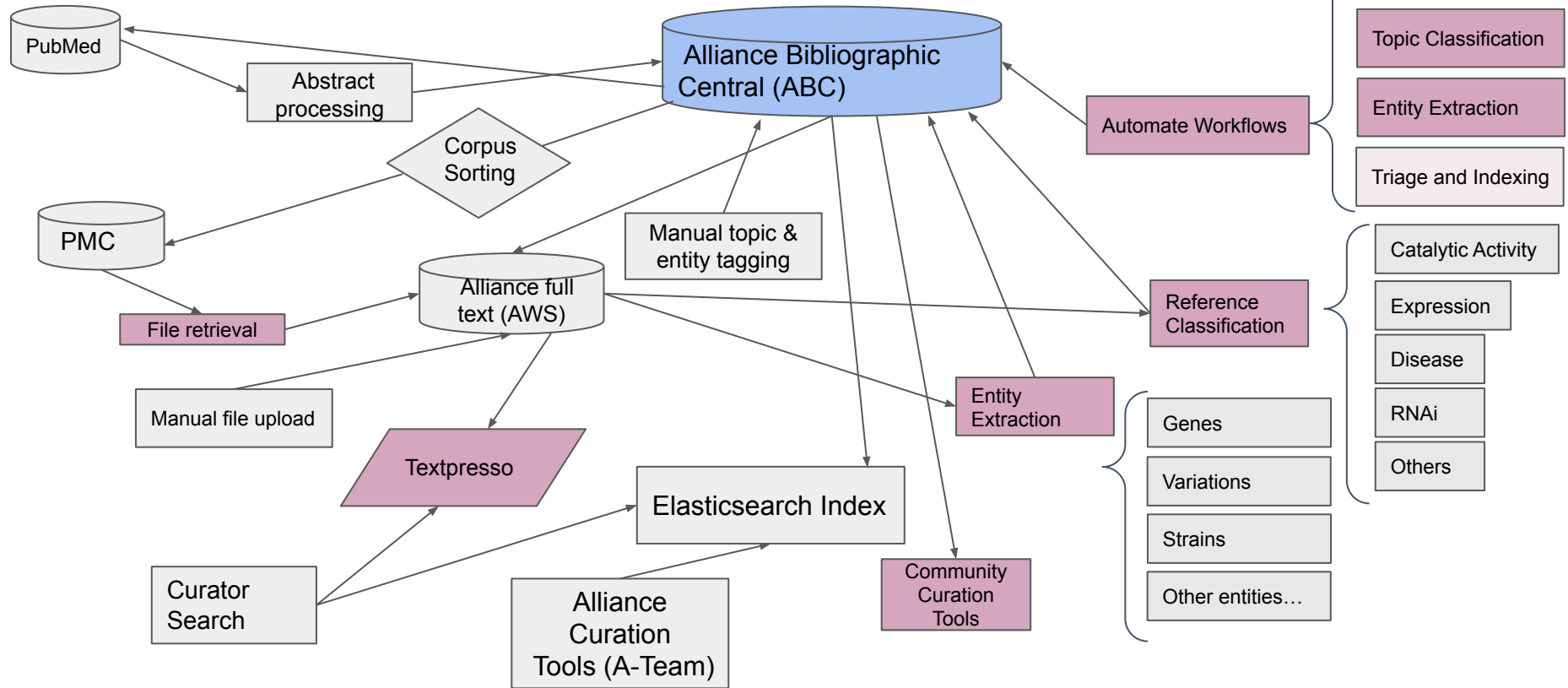
Alliance Bibliography Central: multiple working groups contribute to development

Requirements Gathering:

- Literature Acquisition Working Group (LAWG) - curators and developers representing MODs, meets every other week
- Metadata Modeling Group - subset of LAWG, meets weekly
- Search Working Group - subset of LAWG, meets every other week
- AI Working Group - curators and developers who are interested in LLM/ML/NLP, meets weekly



Shared infrastructure -> new functionality



Sorting inside corpus: automated PubMed searches and metadata addition

[Prod](#)[Search](#)[Biblio Edit](#)[Sort](#)[Tracker](#)[Create](#)[Merge](#)[Reports](#)[Download](#)[Swagger](#)[Okta Help](#)

References for WB

☒ Sort ☐ Prepublication ☐ Recently sorted

[Update Sorting](#)

Title:Endocrine disruption of Triphenyl Phosphate via VIT-2 in *Caenorhabditis elegans*: A comparative analysis with estradiol and 4-hydroxytamoxifen.

[AGRKB:101000001183978](#)

[PMID:40347610](#)

[DOI:10.1016/](#)

[j.jhazmat.2025.138546](#)

Journal: Journal of hazardous materials

Triphenyl phosphate (TPHP) is widely used as a flame retardant and plasticizer in consumer products and is frequently detected in the environment. TPHP competitively binds to estrogen receptors, exhibiting both estrogenic and anti-estrogenic effects, leading to ongoing debate about its role. This study demonstrates that TPHP shows a higher affinity for the estrogen receptor NHR-14 in *Caenorhabditis elegans* (*C. elegans*) compared to the typical estrogen estradiol (E2) and the estrogen antagonist 4-hydroxytamoxifen (4-HT). The study also examines the production, distribution, and transport of the estrogen biomarker Vitellogenin family member 2 (VIT-2) following exposure to TPHP, E2, and 4-HT. Environmentally-relevant concentrations of TPHP significantly increased VIT-2 transcription and protein expression levels in *C. elegans* during early pregnancy, similar to the effects observed with E2. However, during peak pregnancy, TPHP exposure led to abnormal accumulation of VIT-2, primarily due to an increase in the Gibbs Free Energy of the VIT-2_RME-2 complex, which reduced their affinity and subsequently impaired the normal transport of VIT-2. These findings provide novel insights into the toxic mechanisms of TPHP in oviparous animals, highlighting its broader environmental impacts and emphasizing the urgency for further research and regulatory actions to mitigate its risks.

☒ Needs Review


☐ Inside Corpus
☒ Experimental
☐ Not Experimental
☐ Meeting Abstract

[Create New Taxon](#)[🔗 Inside & Open](#)[✓ Inside & Done](#)[🔵 Inside](#)

☐ Outside Corpus

[✕ Outside](#)

Each paper has links to external resources and access to full text when available

[Prod](#) [Search](#) [Biblio Edit](#) [Sort](#) [Tracker](#) [Create](#) [Merge](#) [Reports](#) [Download](#) [Swagger](#) [Okta Help](#) 

[Query exact ID](#)

Biblio about this Reference

AGRKB:101000000633221

☒ [biblio display](#) ☐ biblio editor ☐ entity and topic editor ☐ workflow editor ☐ file management ☐ raw entity and topic data

Update Biblio Data

title	Developmental Wiring of Specific Neurons Is Regulated by RET-1/Nogo-A in Caenorhabditis elegans.		
mod_corpus_associatio	WB	inside_corpus	dqm_files
cross_references	DOI:10.1534/genetics.115.185322 PMCID:PMC5223509 PMID:27821431 WB:WBPaper00050392		
obsolete_references			
resources_for_curation	Ontomate Pubtator EuropePMC WB Textpresso		
authors	<input checked="" type="radio"/> first <input type="radio"/> list <input type="radio"/> detailed		
first author	Nanna Torpe		
copyright_license	PMC-none		
referencefiles	main	00050392_Torpe17.pdf	
referencefiles	main	295.pdf	
referencefiles	additional files	<input type="radio"/> tarball <input checked="" type="radio"/> list (11)	

Manual and automated flagging methods are collected in the TET (topic and entity table)

Entity and Topic Addition

Done adding TET / No TET data

topic	checkbox	entity type	species	entity list (one per line, case insensitive)	entity validation	internal notes	button
<input type="text" value="gene"/>	<input type="checkbox"/> No Data <input type="checkbox"/> Novel Data	<input type="text" value="gene"/>	<input type="text" value="Caenorhal"/>	<input type="text" value="ret-1"/>	<input type="text" value="ret-1"/> <input type="text" value="WB:WBGene0000433"/>	<input type="text"/>	<input type="button" value="Submit"/>
<input type="button" value="Clone row"/>	<input type="button" value="New row"/>						

Hide/Show Columns

Download Options

Actions	Source Method	Topic	Entity Type	Entity	Confidence Level	No Data	Source Evidence Asser...	Validation By Professional Biocuratc
<input type="button" value="🗑️"/> <input type="button" value="✎"/>	paper_editor_species	species	species	Caenorhabditis elegans			documented statement ...	<input checked="" type="checkbox"/> <input type="checkbox"/>
	abc_document_classifier	antibody			High		machine learning metho...	<input checked="" type="checkbox"/> <input type="checkbox"/> not_validated
	abc_document_classifier	disease model			Med		machine learning metho...	<input checked="" type="checkbox"/> <input type="checkbox"/> not_validated
	abc_document_classifier	overexpression phenotype			Med		machine learning metho...	<input checked="" type="checkbox"/> <input type="checkbox"/> not_validated
	abc_document_classifier	gene expression			NEG	no data	machine learning metho...	<input checked="" type="checkbox"/> <input type="checkbox"/> not_validated
	abc_document_classifier	catalytic activity			NEG	no data	machine learning metho...	<input checked="" type="checkbox"/> <input type="checkbox"/> not_validated
	abc_document_classifier	RNAi phenotype			NEG	no data	machine learning metho...	<input checked="" type="checkbox"/> <input type="checkbox"/> not_validated
	abc_document_classifier	physical interaction			NEG	no data	machine learning metho...	<input checked="" type="checkbox"/> <input type="checkbox"/> not_validated
	abc_document_classifier	regulatory interaction			NEG	no data	machine learning metho...	<input checked="" type="checkbox"/> <input type="checkbox"/> not_validated

Faceted search allows for curation prioritization

language: English x

mods in corpus: WB x

catalytic activity x

High x

Clear All

☒ WB 376

☐ SGD 43

☐ MGI 19

☐ FB 13

☐ RGD 11

☐ XB 4

☐ ZFIN 1

corpus - needs review

corpus - in corpus or needs review

Workflow Tags

File workflow

Reference classification

Bibliographic Data

Topics and Entities

☒ apply selections to single tag

Topic

☒ catalytic activity 376

Confidence level

☒ High 376

Catalytic activities of wild-type *C. elegans* DAF-2 kinase and dauer-associated mutants.

AGRKB:101000001048672

PMID:39428852

EuropePMC

DOI:10.1111/febs.17303

WB:WBPaper00067673

PMCID:PMC11705002

Authors : Harini Krishnan, Sultan Ahmed, Stevan R Hubbard, W Todd Miller

Publication Date: 2024-12-01

Abstract:

DAF-2, the *Caenorhabditis elegans* insulin-like receptor homolog, regulates larval development, metabolism, stress response, and lifespan. The availability of numerous daf-2 mutant alleles has made it possible to elucidate the genetic mechanisms underlying these physiological processes. The DAF-2 pathway is significantly conserved with the human insulin/IGF-1 signaling pathway; it includes proteins homologous to human IRS, GRB-2, and PI3K, making it an important model to investigate human ... [Show More](#)

Matching Text:

Characterization of a unique catechol-O-methyltransferase as a molecular drug target in parasitic filarial nematodes.

AGRKB:101000001043588

PMID:39213433

EuropePMC

DOI:10.1371/journal.pntd.0012473

WB:WBPaper00067199

PMCID:PMC11392244


Authors : Idrees Mehraj Allaie, Xuejin Zhang, Kun Li, Shahbaz M Khan, Saki Kadotani, William H Witola, Md Mukthar Mia

Publication Date: 2024-08-01

Abstract:

Background: Filarial nematodes cause severe illnesses in humans and canines including limb deformities and disfigurement, heart failure, blindness, and death, among others. There are no vaccines, and current drugs against filarial nematodes infections have only modest effects and are prone to complications. Methodology/principal findings: We identified a gene (herein called DiMT) encoding an S-adenosyl-L-methionine (SAM)-dependent methyltransferase with orthologs in parasite filarial worms but ... [Show More](#)

Putting it all back together

**ALLIANCE**
of GENOME RESOURCES

Version: 8.1.0
Date: Fri Apr 18 2025

[Home](#) [Data and Tools ▾](#) [Members ▾](#) [News ▾](#) [About ▾](#) [Help ▾](#) [Community ▾](#) [Contact Us](#) [Cite Us](#)

Search Across Species

Explore model organism and human comparative genomics

All ▾

BMP4

Examples:

BMP4 (Hsa)

Bmp4 (Mmu)

Bmp4 (Rno)

bmp4 (Dre)

bmp4 (Xtr)

bmp4.L (Xla)

bmp4.S (Xla)

Bmp4<tm1b(EUCOMM)Hmgu> (Mmu)

Bmp4<tm3.1Jlch> (Mmu)

Bmp4<tm1Jfm> (Mmu)

• Gene

• Gene

• Gene

• Gene

• Gene

• Gene

• Gene

• Allele/Variant

• Allele/Variant

• Allele/Variant


More...


Download

What is the Alliance of Genome Resources?



A consortium of 7 model organism databases (MODs) and the Gene Ontology (GO) Consortium whose goal is to provide an integrated view of their data to all biologists, clinicians and other interested parties.

Gene pages are the information hub of the Alliance

Version: 8.1.0
Date: Fri Apr 18 2025

All ▾ search: RPB7, kinase, asthma, liver 





HomeData and Tools ▾Members ▾News ▾About ▾Help ▾Community ▾Contact UsCite Us

BMP4
Homo sapiens
HGNC:1071 

SummaryOrthologyParalogyFunction - GO AnnotationsPathwaysPhenotypesDisease AssociationsAlleles and VariantsTransgenic AllelesModelsSequence Feature ViewerSequence DetailsExpression

• GENE

BMP4

Species	<i>Homo sapiens</i>
Symbol	BMP4
Name	bone morphogenetic protein 4
Synonyms	BMP-2B BMP-4 ▼ Show All 9
Biotype	protein coding gene
Automated Description 	Enables several functions, including BMP receptor binding activity; co-receptor binding activity; and receptor ligand activity. Involved in several processes, including negative regulation of cell population proliferation; regulation of animal organ morphogenesis; and regulation of biosynthetic process. Acts upstream of or within several processes, including positive regulation of osteoblast differentiation; regulation of transcription by RNA polymerase II; and respiratory system development. Located in extracellular space. Implicated in several diseases, including CAKUT (multiple); cleft lip; orofacial cleft 11; ossification of the posterior longitudinal ligament of spine; and syndromic microphthalmia 6. Biomarker of several diseases, including Barrett's esophagus; carcinoma (multiple); eye disease (multiple); myositis ossificans; and progressive osseous heteroplasia.
RGD Description	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein regulates heart development and adipogenesis. Mutations in this gene are associated with orofacial cleft and microphthalmia in human patients. The encoded protein may also be involved in the pathology of multiple cardiovascular diseases and human cancers. [provided by RefSeq, Jul 2016]
Cross References	ENSEMBL:ENSG00000125378  NCBI_Gene:652  ▼ Show All 4
Additional Information	Literature 

Downloads	Downloads	
Disease	Disease	
Expression		
Gene Descriptions		
Molecular Interactions		
Genetic Interactions		
Orthology		
Variants (VCF)		
Variants/Alleles		
	Description	Download
	All disease associations	JSON TSV
	<i>Caenorhabditis elegans</i> associations	JSON TSV
	<i>Danio rerio</i> associations	JSON TSV
	<i>Drosophila melanogaster</i> associations	JSON TSV
	<i>Homo sapiens</i> associations	JSON TSV
	<i>Mus musculus</i> associations	JSON TSV
	<i>Rattus norvegicus</i> associations	JSON TSV
	<i>Saccharomyces cerevisiae</i> associations	JSON TSV
	<i>Xenopus laevis</i> associations	JSON TSV
	<i>Xenopus tropicalis</i> associations	JSON TSV

AllianceMine

Search for any term

Genes, proteins, pathways, ontology terms, authors, etc.

Go by Most Popular Queries

YEASTMINE

GENOME

DOWNLOADS

FUNCTION

LITERATURE

DISEASE

Retrieve all phenotypes for all genes.

Literature → GO annotations

Retrieve → All genes that have introns

Literature → Post-translational Modifications

Deleted Merged Features

Literature → Regulation

Literature → Disease Annotations

Literature → Phenotype

Retrieve all pathways for all genes.

Retrieve all Publications associated with genome-wide analysis topics.

[MORE QUERIES HERE](#)

Alliance of Genome Resources API 1.0 Beta OAS 3.0

OpenAPI

This is the Alliance Genome Java API for access to the Data

Authorize

Allele Search

Cache Search

Disease






Entity Search

Expression

Genes

Homology

Release Info

Category	Topics	Latest
Alliance of Genome Resources ■ News and Announcements 1 new ■ Site Feedback ■ Data Discussion ■ General Discussion	3 / month 1 new	 Spring 2025 GOC Meeting: 6-8 May, Geneva ● ■ GO 21h
Job Postings Open positions and job announcements. ■ Files ■ Frogs ■ Mice ■ Rats ■ Worms ■ Yeast ■ Zebrafish ■ Other	1 / month	 Alliance version 8.0 was released on February 11 2025 ● ■ News and Announcements 2d
Meeting Announcements Announcements and discussions about upcoming meetings ■ Files ■ Frogs ■ Mammals/Human ■ Worms ■ Yeast ■ Zebrafish	1 / month	 Seeking Advice on Issues Encountered During C. elegans Lifespan Assays ■ Scientific Discussion 2 8d
Model Organism: Worms ■ General Discussion ■ Scientific Discussion ■ Methods & Reagents ■ WormAtlas ■ WormBase ■ WormBook ■ Facts & Figures	4 / month	 YEAST2025: 32nd International Conference on Yeast Genetics and Molecular Biology ■ Conferences 0 8d
Model Organism: Yeast Information about all things yeast-related, populated and monitored by your friendly neighborhood SGD biocurators	3 / month	 The Jarriault Lab is looking for a postdoc on cellular reprogramming ■ Worms



←









⋮

Following

⋮

Alliance of Genome Resources
 Follows you @alliancegenome.bsky.social
 1.6K followers 102 following 141 posts
 The Alliance of Genome Resources supports biological science via data integration, standardization of data models and interfaces, and unified outreach.
 Find us at www.alliancegenome.org.
 Followed by FlyBase and Rat Genome Database

Posts Replies Media Videos Starter Packs Lists


Alliance of Genome Resources @alliancegenome.bsky.social · 6m
 The next Alliance webinar is scheduled for next Thursday, February 20, at noon ET. This month's webinar is on Exploring Variants at the Alliance, and will be presented by Jennifer Smith. Register by Wednesday Feb 19 (before midnight ET please) to receive the Zoom link forms.gle/GzMnmwK23SzP...
 Alliance Of Genome Resources Event Registration

Alliance of Genome Resources Office Hours

The Alliance of Genome Resources hosts webinars and other events for the genomic research community.

Most events will be approximately 30 minutes, including time for questions.

Links to recordings of past events are listed below.

Scheduled Events

February 20, 2025. Noon EST.

Webinar: Exploring Variants at the Alliance

Presenter, Jennifer Smith.

This webinar will cover searching for variants, the variant information on gene and variant detail pages, and viewing variants in JBrowse 2 at the Alliance.

[Register](#) by February 19 to receive the Zoom URL.

March 20, 2025. Noon EDT.

Webinar: Disease annotations at the Alliance

Presenter, Yvonne Bradford. Co-host, Sue Bello.

This will cover...

[Register](#) by March 19 to receive the Zoom URL.

April 17, 2025. Noon EDT.

Webinar: How AI informs literature curation

Presenter, Kimberly Van Auken.

This will cover...

[Register](#) by April 16 to receive the Zoom URL.

May 15, 2025. Noon EDT.

Webinar: JBrowse2 at the Alliance

Presenter, Jeff De Pons. Co-host, Anne Kwitek.

This will cover...

[Register](#) by May 14 to receive the Zoom URL.

June 12, 2025. Noon EDT.

Webinar: Orthology and Paralogy at the Alliance

Presenter, Chris Tabone.

This will cover...

[Register](#) by June 11 to receive the Zoom URL.

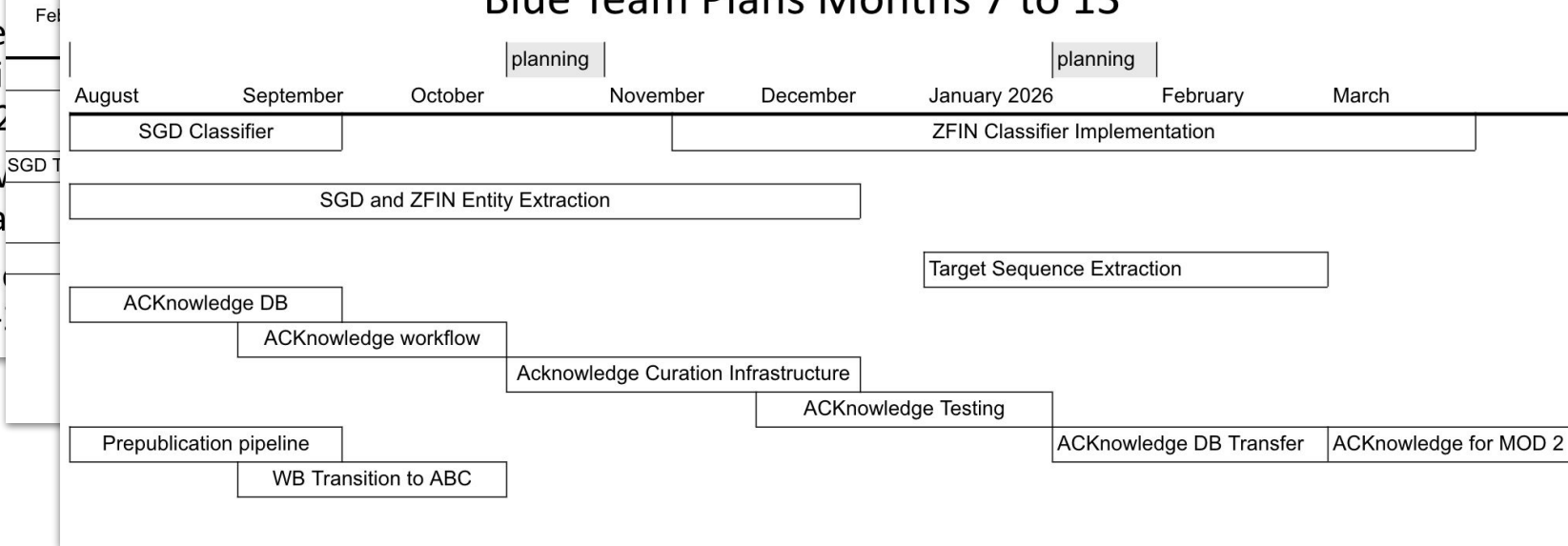
Where are we on the roadmap?

A-Team priorities going forward

- Complete public
- Enable types in 2025/2
- Work v and da
- Connect (2026-

Blue Team Plans Next 6 Months

Blue Team Plans Months 7 to 13



A-Team members

- Carol Bult (PI)
- Chris Grove (Product Owner)
- Jeff De Pons (Scrum Master)
- Olin Blodgett
- Mark Quinton-Tulloch
- Andrés Becerra Sandoval
- Adam Gibson
- Christian Pich
- Varun Reddy Gollapally

Subject Matter Experts (SMEs)

- Sue Bello
- Yvonne Bradford

Blue Team members

- Paul Sternberg (PI)
- Ceri Van Slyke (Product Owner)
- Valerio Arnaboldi
- Juancarlos Chan
- Paul Hale
- Ian Longden
- Shuai Weng
- Pinglei Zhou

Subject Matter Experts (SMEs)

- Kimberly Van Auken
- Gillian Millburn

Alliance Software Specialist Team

David Shaw (now retired)	User Support
Sian Gramates	User Support / Social Outreach
Sierra Moxon	LinkML/Modelling
Dustin Ebert	Pathway Viewer
Hans-Michael Mueller	Textpresso
Seth Carbon	GO Software Coordinator
Paulo Nuin	AllianceMine, BLAST
Stuart Miyasato	AWS, DevOps
Paul Hale	JBrowse
Manuel Luypaert	Proteins, Annotations, and Variants Inspector
Tremayne Mushayahama	Pathway Viewer, GO Software
Adam Wright	BLAST, DevOps
Christopher Tabone	Coordinator, DevOps, DIOPT

Thanks to all!

The Alliance of Genome Resources Consortium:

[Suzanne A Aleksander](#), [Anna V Anagnostopoulos](#), [Giulia Antonazzo](#), [Valerio Arnaboldi](#), [Helen Attrill](#), [Andrés Becerra](#), [Susan M Bello](#), [Olin Blodgett](#), [Yvonne M Bradford](#), [Carol J Bult](#), [Scott Cain](#), [Brian R Calvi](#), [Seth Carbon](#), [Juancarlos Chan](#), [Wen J Chen](#), [J Michael Cherry](#), [Jaehyoung Cho](#), [Madeline A Crosby](#), [Jeffrey L De Pons](#), [Peter D'Eustachio](#), [Stavros Diamantakis](#), [Mary E Dolan](#), [Gilberto dos Santos](#), [Sarah Dyer](#), [Dustin Ebert](#), [Stacia R Engel](#), [David Fashena](#), [Malcolm Fisher](#), [Saoirse Foley](#), [Adam C Gibson](#), [Varun R Gollapally](#), [L Sian Gramates](#), [Christian A Grove](#), [Paul Hale](#), [Todd Harris](#), [G Thomas Hayman](#), [Yanhui Hu](#), [Christina James-Zorn](#), [Kamran Karimi](#), [Kalpana Karra](#), [Ranjana Kishore](#), [Anne E Kwitek](#), [Stanley J F Laulederkind](#), [Raymond Lee](#), [Ian Longden](#), [Manuel Luypaert](#), [Nicholas Markarian](#), [Steven J Marygold](#), [Beverley Matthews](#), [Monica S McAndrews](#), [Gillian Millburn](#), [Stuart Miyasato](#), [Howie Motenko](#), [Sierra Moxon](#), [Hans-Michael Muller](#), [Christopher J Mungall](#), [Anushya Muruganujan](#), [Tremayne Mushayahama](#), [Robert S Nash](#), [Paulo Nuin](#), [Holly Paddock](#), [Troy Pells](#), [Norbert Perrimon](#), [Christian Pich](#), [Mark Quinton-Tulloch](#), [Daniela Raciti](#), [Sridhar Ramachandran](#), [Joel E Richardson](#), [Susan Russo Gelbart](#), [Leyla Ruzicka](#), [Gary Schindelman](#), [David R Shaw](#), [Gavin Sherlock](#), [Ajay Shrivatsav](#), [Amy Singer](#), [Constance M Smith](#), [Cynthia L Smith](#), [Jennifer R Smith](#), [Lincoln Stein](#), [Paul W Sternberg](#), [Christopher J Tabone](#), [Paul D Thomas](#), [Ketaki Thorat](#), [Jyothi Thota](#), [Monika Tomczuk](#), [Vitor Trovisco](#), [Marek A Tutaj](#), [Jose-Maria Urbano](#), [Kimberly Van Auken](#), [Ceri E Van Slyke](#), [Peter D Vize](#), [Qinghua Wang](#), [Shuai Weng](#), [Monte Westerfield](#), [Laurens G Wilming](#), [Edith D Wong](#), [Adam Wright](#), [Karen Yook](#), [Pinglei Zhou](#), [Aaron Zorn](#), and [Mark Zytkevicz](#)



Funding

The Alliance is supported by NIH NHGRI and NHLBI: U24HG010859

with additional support from:

- NIH NHGRI U41HG000739 (FlyBase)
- NIH NHGRI HG000330 (MGD)
- NIH NHLBI HL64541 (RGD)
- NIH NHGRI U24HG001315 (SGD)
- NIH NHGRI U24HG002223 (WormBase)
- NIH NICHD P41HD064556 (Xenbase)
- NIH NHGRI P41HG002659 (ZFIN)
- NIH NHGRI HG012212 (GOC, which also provides funding to WB, MGD, SGD)