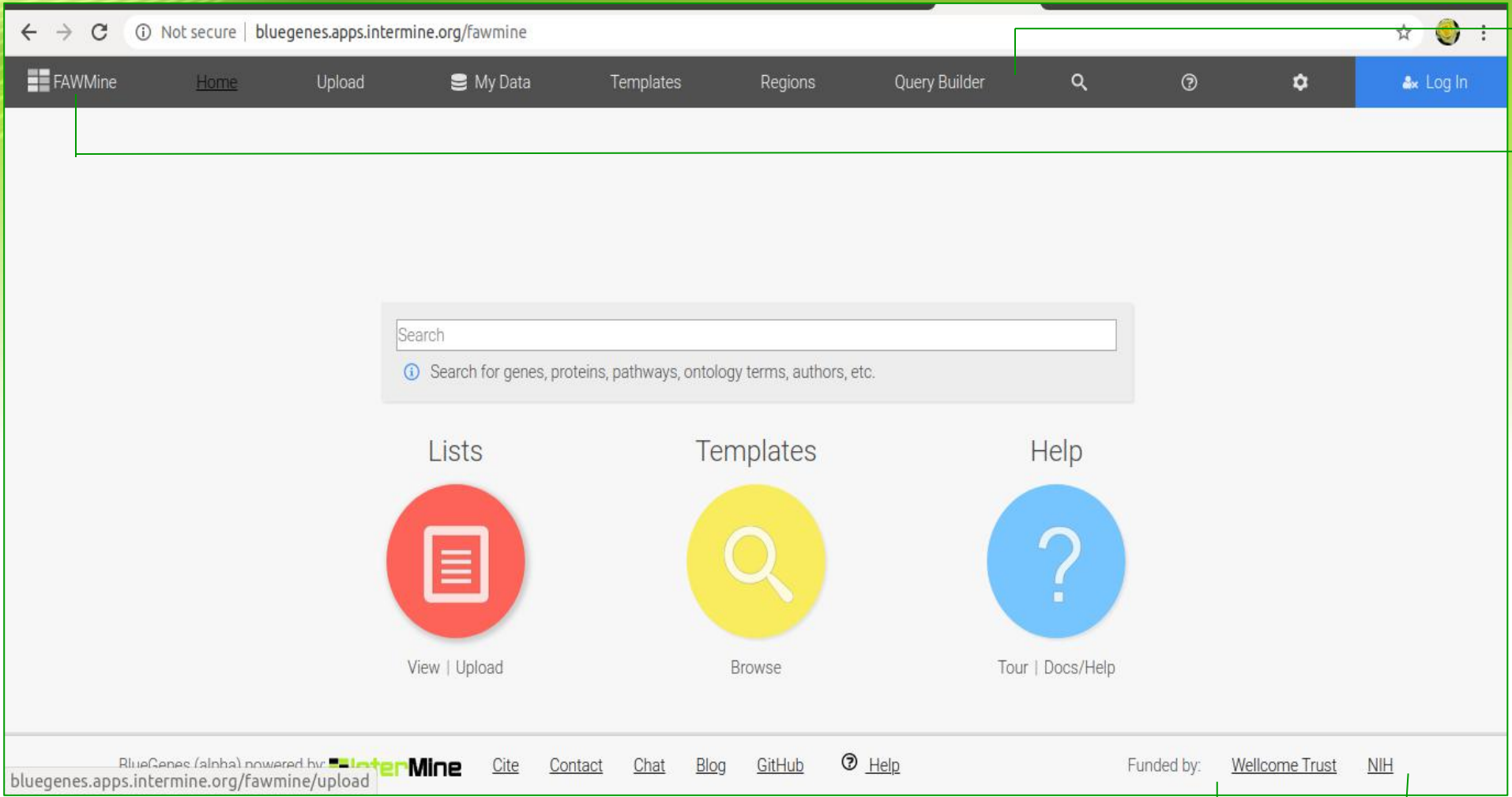


Improvement in bluegenes and tutorial website

-Pooja Yadav

SUGGESTION FOR BLUGENES WEBSITE

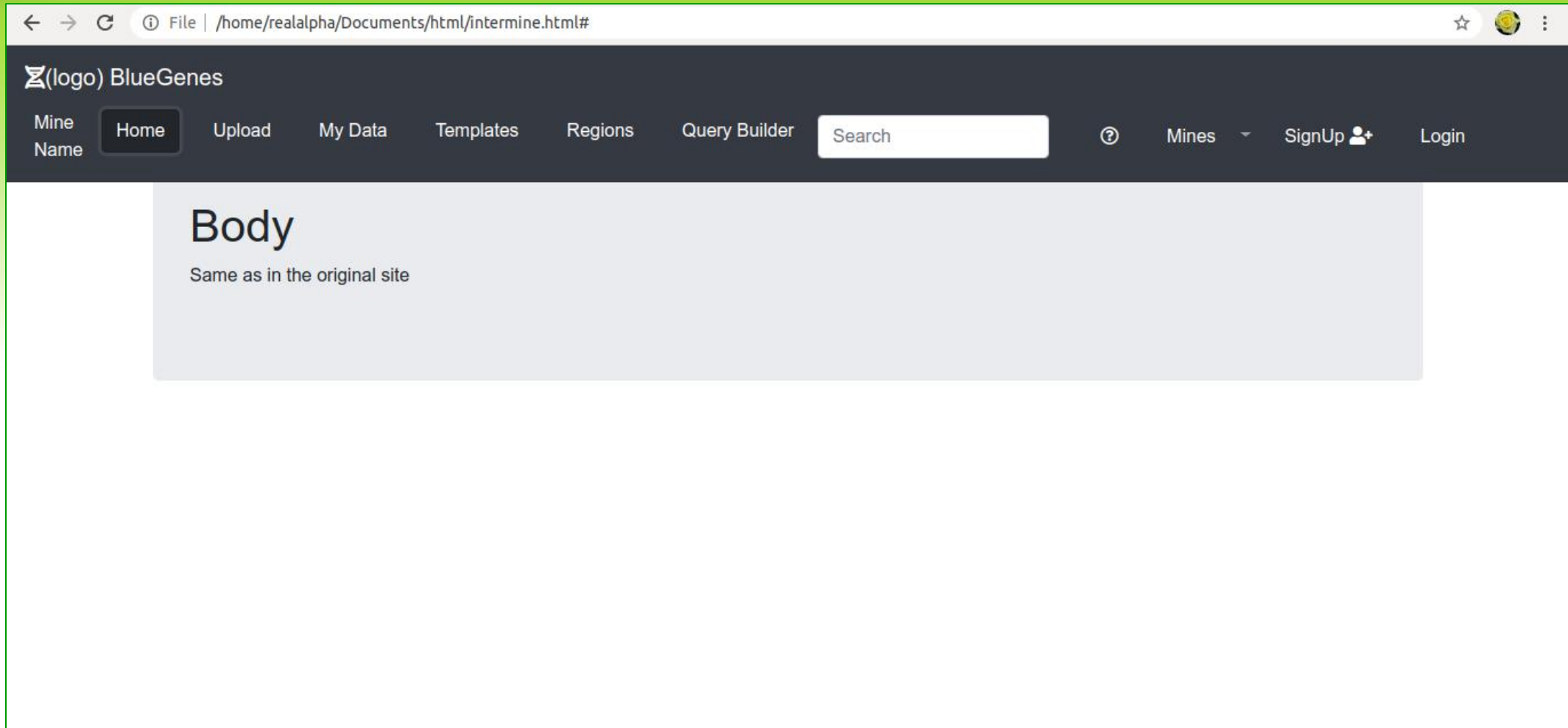


Header of Blugenes.

Should not be a button.

Can provide logo of fund providers.

Suggested Improvements in Navbar



RNA_seq → Genes expressed in a set of tissues

Show genes expressed in a set of tissues/stages according to the modENCODE RNA_seq data. The expression scores are binned into the expression levels as follows:
No/Extremely low expression: 0-0; Very low expression: 1-3; Low expression: 4-10; Moderate expression: 11-25; Moderately high expression: 26-50; High expression: 51-100; Very high expression: 101-1000; Extremely high expression: >1000;

RNA Seq Result > Stage

- One of
- 4-day Adult, Caffeine 2.5mg/ml
 - 4-day Adult, Caffeine 25mg/ml
 - 4-day Adult, Cd 0.05M
 - 4-day Adult, Cd 0.1M
 - 4-day Adult, Cu 1.5mM

RNA Seq Result > Expression Level

- One of
- No / Extremely low expression
 - Very low expression
 - Low expression
 - Moderate expression
 - Moderately high expression

Results Preview

Gene > Symbol	Rna Seq Results > Stage	Rna Seq Results > Expression Level	Rna Seq Results > Expression Score
140up	4-day Adult, Caffeine 25mg/ml	Very low expression	2
18SrRNA-CR41548	4-day Adult, Caffeine 25mg/ml	Very low expression	2
28SrRNA-Psi-CR40596	4-day Adult, Caffeine 25mg/ml	Very low expression	3
28SrRNA-Psi-CR41609	4-day Adult, Caffeine 25mg/ml	Very low expression	3
2SrRNA-Psi-CR40677	4-day Adult, Caffeine 25mg/ml	Very low expression	1
+ 3999 more results			

Categories buttons can be represented in more interactive with proper spacing.

Instructions to be given in bullet points.

Recent Queries

RNA_seq -> Genes
expressed in a set of tissues
23 Mar, 20 10:42

ADD COLUMNS MANAGE RELATIONSHIPS SAVE LIST EXPORT JAVASCRIPT

UNDO

Rows per page 10 Page 1 Showing 1 to 10 of 4,004 rows

Gene Symbol	Rna Seq Results Stage	Rna Seq Results Expression Level	Rna Seq Results Expression Score
140up	4-day Adult, Caffeine 25mg/ml	Very low expression	2
18SrRNA:CR41548	4-day Adult, Caffeine 25mg/ml	Very low expression	2
28SrRNA-Psi:CR40596	4-day Adult, Caffeine 25mg/ml	Very low expression	3
28SrRNA-Psi:CR41609	4-day Adult, Caffeine 25mg/ml	Very low expression	3
2SrRNA-Psi:CR40677	4-day Adult, Caffeine 25mg/ml	Very low expression	1
2mit	4-day Adult, Caffeine 25mg/ml	Very low expression	1
312	4-day Adult, Caffeine 25mg/ml	Very low expression	2
5-HT1A	4-day Adult, Caffeine 25mg/ml	Very low expression	3
5-HT2A	4-day Adult, Caffeine 25mg/ml	Very low expression	1
5Ptasel	4-day Adult, Caffeine 25mg/ml	Very low expression	2

Enrichment [How is this calculated?]

Enrichment column: Gene

Max p-value 0.05 Test Correction Holm-Bonferroni

Filter enrichment results Filter...

BDGP Enrichment (10)

VIEW ALL

Item	p-value
<input type="checkbox"/> embryonic head epidermis	8.127939e-143
<input type="checkbox"/> embryonic esophagus	1.491588e-67
<input type="checkbox"/> ventral midline	1.686761e-69
<input type="checkbox"/> embryonic dorsal epidermis	1.825825e-202
<input type="checkbox"/> stomatogastric nervous system primordium	2.901412e-23

Should highlight on which page we are in.

Can be written below 'Enrichment' heading

Can be more indented. Buttons can be more

Gene Symbol	Rna Seq Results Stage	Rna Seq Results Expression Level	Rna Seq Results Expression Score
140up	4-day Adult, Caffeine 25mg/ml	Very low expression	2
18SrRNA:CR41548	4-day Adult, Caffeine 25mg/ml	Very low expression	2
28SrRNA-Psi:CR40596	4-day Adult, Caffeine 25mg/ml	Very low expression	3
28SrRNA-Psi:CR41609	4-day Adult, Caffeine 25mg/ml	Very low expression	3
2SrRNA-Psi:CR40677	4-day Adult, Caffeine 25mg/ml	Very low expression	1
2mit	4-day Adult, Caffeine 25mg/ml	Very low expression	1
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5-HT1A	4-day Adult, Caffeine 25mg/ml	Very low expression	3
5-HT2A	4-day Adult, Caffeine 25mg/ml	Very low expression	1
5Ptasel	4-day Adult, Caffeine 25mg/ml	Very low expression	2

Filter...

BGP Enrichment (10)

VIEW ALL

Matches	Item	p-value
<input type="checkbox"/>	embryonic head epidermis	8.127939e-143
<input type="checkbox"/>	embryonic esophagus	1.491588e-67
<input type="checkbox"/>	ventral midline	1.686761e-69
<input type="checkbox"/>	embryonic dorsal epidermis	1.825825e-202
<input type="checkbox"/>	stomatogastric nervous system primordium	2.901412e-23
<input type="checkbox"/>	embryonic ventral epidermis	3.096914e-183
<input type="checkbox"/>	atrium	3.641862e-

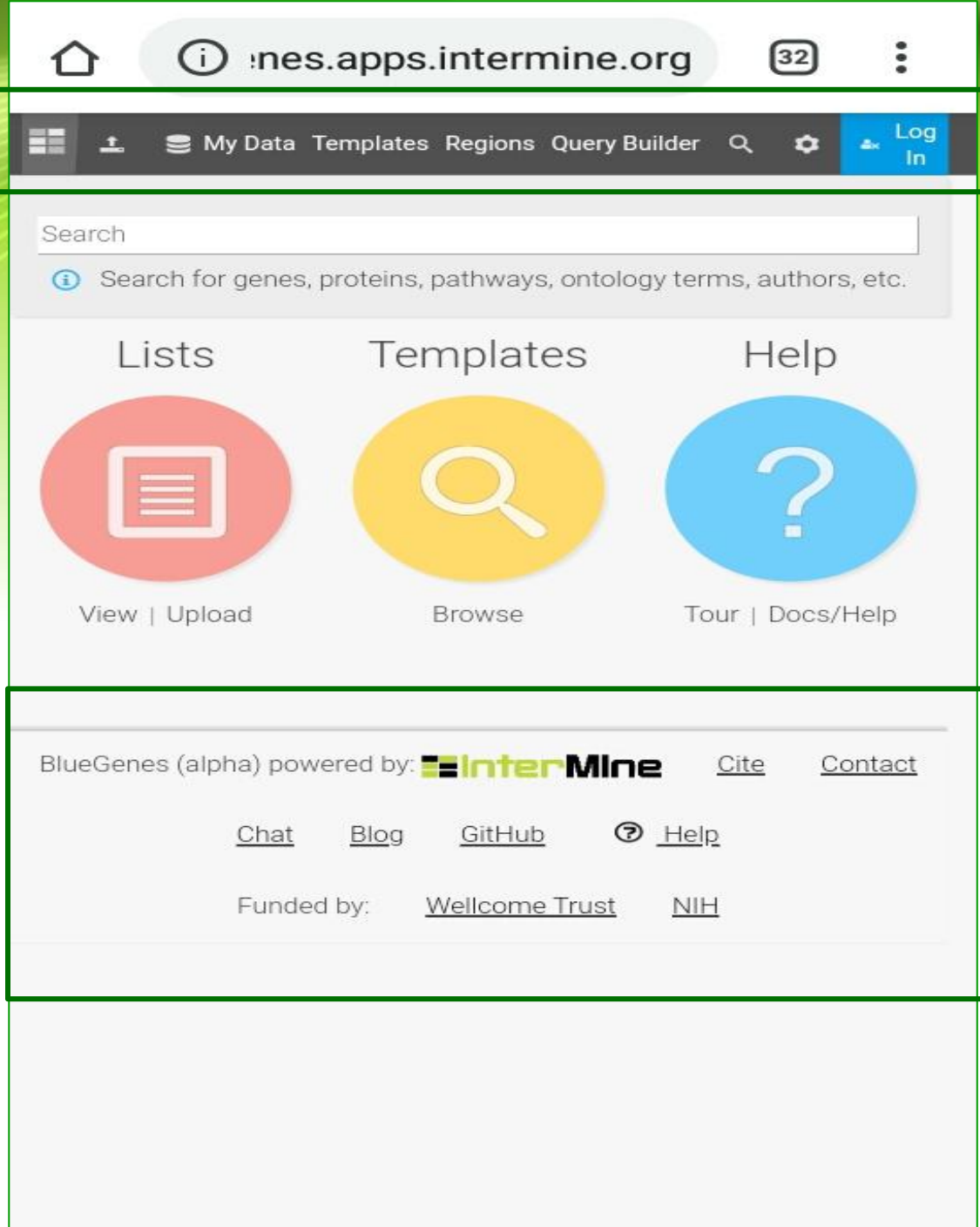
Protein Domain Enrichment (9)

VIEW ALL

Matches	Item	p-value
<input type="checkbox"/>	Homeobox domain	2.010426e-5

Need not have to expand each enrichment. Can provide more '+' and less '-' options to make it look tidy. Otherwise a lot of empty space is left below the table.

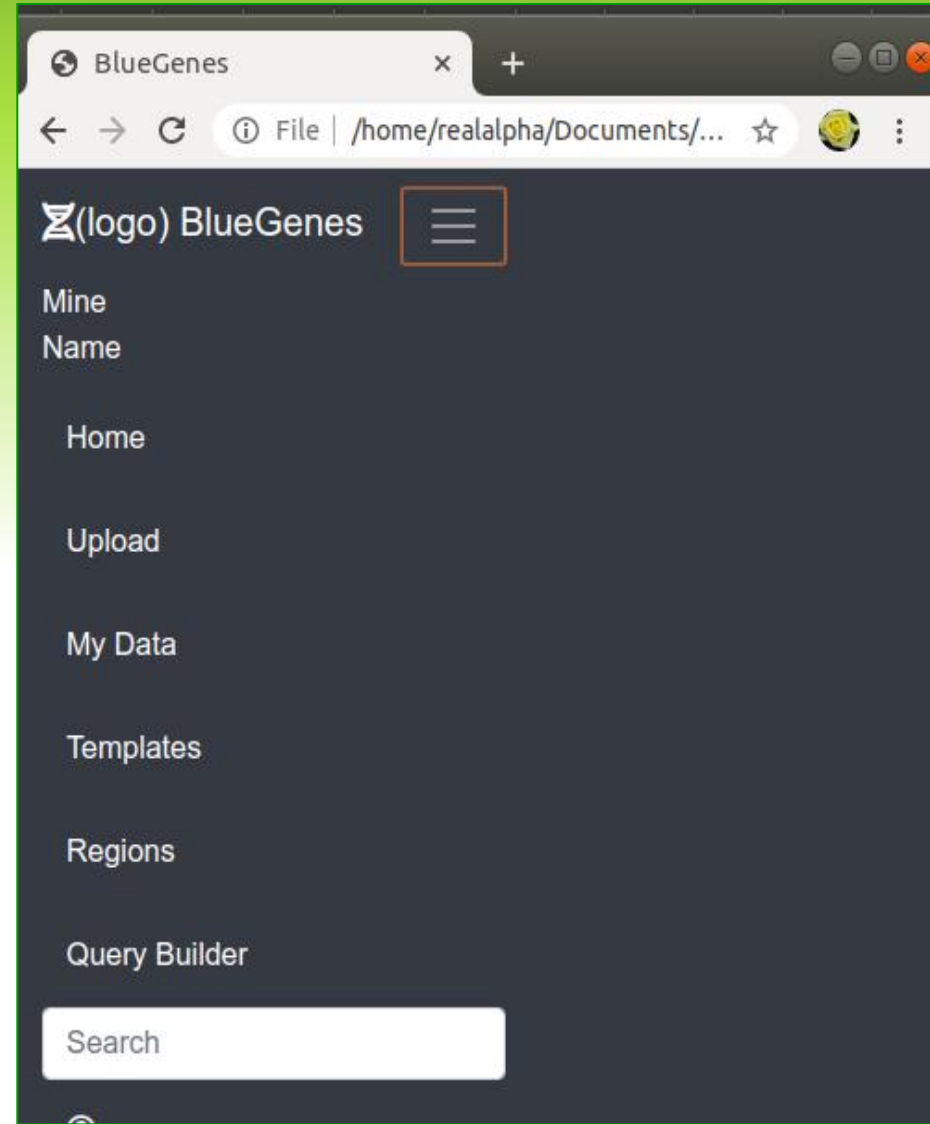
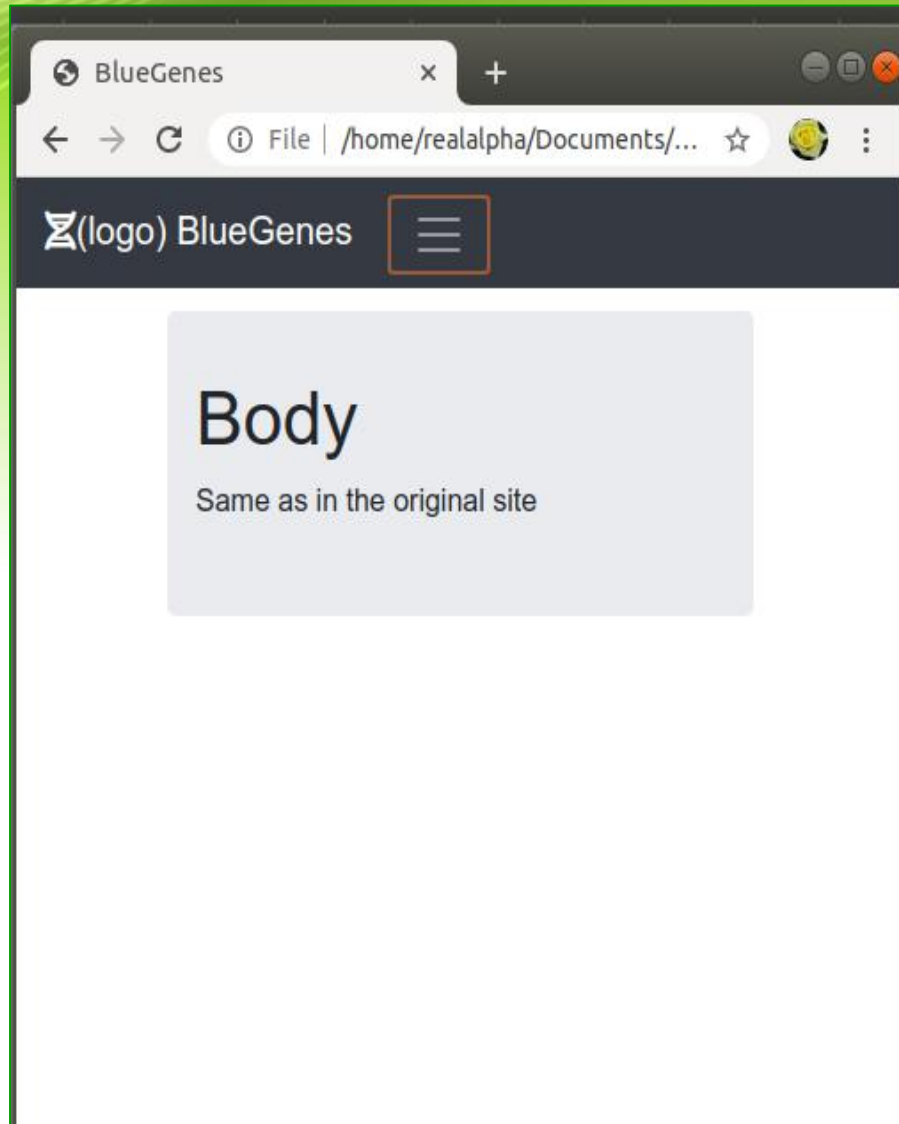
SUGGESTION FOR MOBILE VIEW



Suggestion : Adding a header of 'Bluegenes'.
In mobile view all Navbar option should convert to dropdown rather than clustering in small space.

Footer should stay at the bottom of the page.

Suggested changes in navbar of mobile view



Filter by category

All Function Expression Comparative Genomics Genomics Homology

Gene Ontology Transcriptional Regulation Regulation Gene Expression

Resources Interactions Pathways Literature Proteins

Filter by description

Filter text...

Mutagen class → Alleles

Find all D. melanogaster gene alleles created in a certain way. Give the corresponding gene for the allele. (Data Source: FlyBase).

Mutagen > Description

=

P-element :

Results Preview

Alleles > DB identifier	Alleles > Secondary Identifier	Template categories: Secondary Identifier	Function Gene Symbol	Mutagen > Description
FBal0000404		CG17941	ds	P-element activity
FBal0000540		CG3340	Kr	P-element activity
FBal0000709		CG31762	bru1	P-element activity
FBal0000722		CG3905	Su(z)2	P-element activity
FBal0000810		CG2210	awd	P-element activity

+ 16406 more results

VIEW 16411 ROWS

Convert them to vertical menu after reducing to a specific size.(for eg, in mobile screen)

Proper margin spacing between sections.

- Size doesn't reset properly on mobile size. So have to scroll horizontally.
- Words get overlapped.

nes.apps.intermine.org 32

My Data Templates Regions Query Builder Log In

Model Browser

Gene BROWSE Query Editor

Summarise Expand Selected Collapse All

- Brief Description
- Cytological Location
- Description
- Length
- Name
- DB identifier
- Score
- Score Type
- Secondary Identifier
- Symbol
- + CDSs Summary
- + UTRs Summary
- + Alleles Summary
- + Child Features Summary
- + Chromosome Summary
- + Chromosome Location Summary
- + Clones Summary
- + Cross References Summary
- + Data Sets Summary
- + Diseases Summary
- + Downstream Intergenic Region Summary
- + Exons Summary
- + Flanking Regions Summary
- + GO Annotation Summary
- + Homologues Summary
- + Interactions Summary
- + Introns Summary
- + Located Features Summary
- + Locations Summary
- + mRNA Expression Results Summary

Manage Columns

- Gene > Secondary identifier
- Gene > Symbol
- Gene > Primary identifier
- Gene > Organism > Name
- Gene > Brief description

SHOW ALL SAVE QUE CLEAR QU

This text is not visible in mobile view. So need to reduce the size of 'model browser' region in mobile view.

Also improving marginal spacing.

nes.apps.intermine.org

Log In

Log in to FlyMine

Gene

Email Address

Password

I don't have an account

SIGN IN

- UTRs Summary
- Alleles Summary
- Child Features Summary
- Chromosome Summary
- Chromosome Location Summary
- Clones Summary
- Cross References Summary
- Data Sets Summary
- Diseases Summary
- Downstream Intergenic Region Summary
- Exons Summary
- Flanking Regions Summary
- GO Annotation Summary
- Homologues Summary
- Interactions Summary
- Introns Summary
- Located Features Summary
- Locations Summary
- mRNA Expression Results Summary

Gene > Primary identifier

Gene > Organism > Name

Gene > Brief description

SHOW ALL

SAVE QUE

CLEAR QU

Separate button for register and sign in. Confirm Password option to be included too for registering.

SUGGESTION FOR TRAINING PORTAL

flymine.readthedocs.io/en/latest/

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Welcome to the InterMine User Documentation

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- [Tutorial](#)
 - [Exercise1: Faceted Search](#)
 - [Exercise1 answers](#)
 - [Exercise2: Exploring a gene](#)
 - [Exercise2: Answers](#)
 - [Exercise3: List Upload](#)
 - [Exercise3: Answers](#)
 - [Exercise4: List Analysis Pages:](#)
 - [Exercise4: Answers](#)
 - [Exercise5: Template searches](#)
 - [Exercise5: Answers](#)
 - [Exercise6: Using template searches](#)
 - [Exercise6: Answers](#)
 - [Exercise7: Query Builder](#)
 - [Exercise7: Answers](#)
 - [Exercise8: Analysis workflows](#)
 - [Exercise8: Answers](#)
 - [Exercise9: Region Search](#)
 - [Exercise9: Answers](#)

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Quick search

Go

v: latest

flymine.readthedocs.io/en/latest/

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- [Exercise4: Answers](#)
- [Exercise5: Template searches](#)
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Quick search

Go

v: latest

Takes lots of screen space and need to scroll down. Can provide expand option for each Content.

The screenshot shows a web browser window with the address bar containing the URL `flymine.readthedocs.io/en/latest/genindex.html#`. The page has a purple header with the text "InterMine User Guide »" on the left and "index" on the right. Below the header, the word "Index" is displayed in a large font on the left, and a "Quick search" box with a "Go" button is on the right. A second purple header is visible below the main content area, also containing "InterMine User Guide »" and "index". The main content area is a large, empty grey rectangle. In the bottom right corner of this area, there is a small dark box with the text "v: latest" and a dropdown arrow. At the bottom of the page, there is a copyright notice: "© Copyright 2013, Rachel Lyne. Created using Sphinx 1.7.9."

Link of `genindex.html` is broken. Need to be fixed.