

# GEP Project Management System: Claiming Projects

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## Author

Wilson Leung

[wleung@wustl.edu](mailto:wleung@wustl.edu)

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## Version

GEP Project Management System (Version alpha)

## Introduction

The GEP Project Management System is designed to keep track of the status of the GEP annotation, finishing, and Transcription Start Site (TSS) projects. The “Claim Annotation Projects”, “Claim Finishing Projects”, and “Claim TSS Projects” sections of the GEP Project Management System allow you claim annotation, finishing, and TSS projects, respectively. In this tutorial, we will demonstrate how to use these interfaces in the Project Management System to claim projects.

**Note:** Each GEP project is claimed and submitted by at least two groups for quality assurance purposes. Projects that have been submitted by at least two groups will be removed automatically from the claim list.

The main purpose of claiming projects from the Project Management System is to enable the GEP staff to monitor the overall progress of the GEP projects. Claiming projects will also allow you to access project packages built by the GEP. The contents of these packages will vary depending on the project type. However, all of the project packages contain a README plain text file that describes the contents of each package. In general, annotation packages will contain (at a minimum) the annotation report, sequence file, RepeatMasker output, and Genscan gene predictions. Finishing packages will contain the initial *Consed* assembly (e.g. sequence traces, phd files, and ace files). TSS packages will contain (at a minimum) the TSS report, sequence file, RepeatMasker output, and the reconciled gene models.

## Procedure for Claiming Projects

1. Login to the GEP Project Management System (Figure 1)

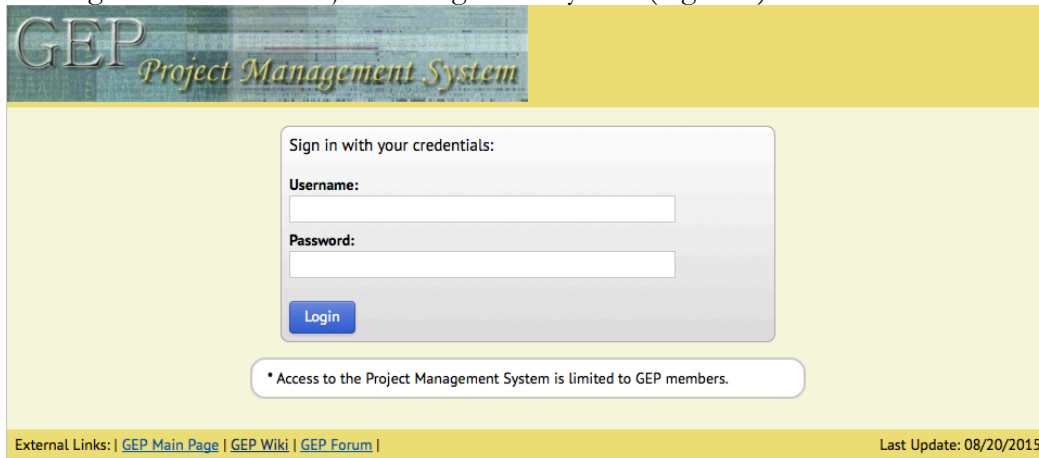


Figure 1 Login screen for the GEP Project Management System

- Navigate to the GEP Project Management System through the GEP home page (<http://gep.wustl.edu> → “Projects” → “Project Management System”)
- Enter the username and password provided to you by the GEP:
  - Username: [<first letter of first name><last name>]
  - Default password: gep<year joined> (e.g., gep2007)
- Click “Login”

## Claiming Annotation Projects

2. Navigate to the Claim Annotation Project Screen  
Click on the “Claim Annotation Projects” link (Figure 2) on the home page.



Figure 2 Click on the "Claim Annotation Project" link to claim annotation projects.

## 3. Claiming annotation projects using the claim table


The claim table shows all the projects that are currently available to be claimed (Figure 3).

Claim?	Project Name	Difficulty	# Claimed	# Submitted	# Genscan	% Repeat
<input type="checkbox"/>	<a href="#">delegans_3L.control_Aug2015_contig4</a>	4	0	0	4	49%
<input type="checkbox"/>	<a href="#">delegans_3L.control_Aug2015_contig5</a>	4	0	0	5	38%
<input type="checkbox"/>	<a href="#">delegans_3L.control_Aug2015_contig14</a>	4	0	0	5	21%
<input type="checkbox"/>	<a href="#">delegans_3L.control_Aug2015_contig17</a>	4	0	0	5	11%
<input type="checkbox"/>	<a href="#">delegans_3L.control_Aug2015_contig18</a>	4	0	0	7	9%
<input type="checkbox"/>	<a href="#">delegans_3L.control_Aug2015_contig19</a>	4	0	0	7	9%
<input type="checkbox"/>	<a href="#">delegans_3L.control_Aug2015_contig20</a>	4	0	0	7	12%
<input type="checkbox"/>	<a href="#">delegans_3L.control_Aug2015_contig23</a>	4	0	0	6	7%
<input type="checkbox"/>	<a href="#">delegans_3L.control_Aug2015_contig24</a>	4	0	0	10	7%
<input type="checkbox"/>	<a href="#">delegans_3L.control_Aug2015_contig25</a>	4	0	0	10	3%
<input type="checkbox"/>	<a href="#">delegans_3L.control_Aug2015_contig31</a>	4	0	0	6	1%
<input type="checkbox"/>	<a href="#">delegans_3L.control_Aug2015_contig32</a>	4	0	0	9	1%

Figure 3 The available annotation projects are listed in the project claim table.

Column	Description
<b>Claim?</b>	Select the checkbox to claim the project.
<b>Project Name</b>	<p>Unique project name assigned by GEP. The project name corresponds to the species and the assembly on the GEP UCSC Genome Browser mirror.</p> <p>For example, the project name <i>derecta_dot_Aug2006_contig1</i> corresponds to contig1 from the Aug. 2006 assembly of the <i>D. erecta</i> dot chromosome on the GEP UCSC Genome Browser mirror.</p> <p>Clicking on the hyperlink in this field will open a new page with the corresponding project in the GEP UCSC Genome Browser mirror.</p>
<b>Difficulty*</b>	Estimated difficulty of the project (more difficult projects have higher values).
<b># Claimed</b>	<p>Number of times the project has been claimed by GEP faculty members.</p> <p>Projects that have been claimed more than three times are highlighted in red.</p>
<b># Submitted</b>	<p>Number of times the project has been submitted by GEP faculty members.</p> <p>Projects that have been submitted twice will be removed from the claim list.</p>
<b># Genscan</b>	Number of genes predicted by Genscan
<b>% Repeat</b>	Repeat density reported by RepeatMasker

\* The estimated difficulty of a project is based on the number of computational gene predictions and the repeat density. Hence a given project might be substantially easier or more difficult than the estimated difficulty shown in the project claim table.

- Select the checkboxes under the “Claim?” field that corresponds to the projects you would like to claim (Figure 4).
- Click on the “Claim Projects” button once you have selected all the projects that you would like to claim.
- You will see a confirmation dialog that displays the list of projects you have previously selected. Click on the  icon to remove the projects you do not wish to claim (Figure 5).
- Click on the “Claim Projects” button. If all goes well, you should see a list of links that corresponds to the projects you have previously selected. Right click on the links and select “Save Link As” or “Download Linked file As” to save the project packages to your computer (Figure 6).



Select the projects you want to claim under the 'Claim' column

Claim?	Project Name	Difficulty	# Claimed	# Submitted	# Genscan	% Repeat
<input checked="" type="checkbox"/>	<a href="#">delegans_3Lcontrol_Aug2015_contig4</a>	4	0	0	4	49%
<input type="checkbox"/>	<a href="#">delegans_3Lcontrol_Aug2015_contig5</a>	4	0	0	5	38%
<input checked="" type="checkbox"/>	<a href="#">delegans_3Lcontrol_Aug2015_contig14</a>	4	0	0	5	21%
<input type="checkbox"/>	<a href="#">delegans_3Lcontrol_Aug2015_contig17</a>	4	0	0	5	11%
<input type="checkbox"/>	<a href="#">delegans_3Lcontrol_Aug2015_contig18</a>	4	0	0	7	9%
<input type="checkbox"/>	<a href="#">delegans_3Lcontrol_Aug2015_contig19</a>	4	0	0	7	9%
<input type="checkbox"/>	<a href="#">delegans_3Lcontrol_Aug2015_contig20</a>	4	0	0	7	12%
<input type="checkbox"/>	<a href="#">delegans_3Lcontrol_Aug2015_contig23</a>	4	0	0	6	7%
<input type="checkbox"/>	<a href="#">delegans_3Lcontrol_Aug2015_contig24</a>	4	0	0	10	7%
<input type="checkbox"/>	<a href="#">delegans_3Lcontrol_Aug2015_contig25</a>	4	0	0	10	3%
<input type="checkbox"/>	<a href="#">delegans_3Lcontrol_Aug2015_contig31</a>	4	0	0	6	1%
<input type="checkbox"/>	<a href="#">delegans_3Lcontrol_Aug2015_contig32</a>	4	0	0	9	1%

Claim Projects Cancel

Figure 4 Select the checkbox under the "Claim" column next to the annotation project you wish to claim.

Verify the list of projects to claim

-  [delegans\\_3Lcontrol\\_Aug2015\\_contig4](#)
-  [delegans\\_3Lcontrol\\_Aug2015\\_contig14](#)

Claim Projects Cancel

Figure 5 Verify the list of projects and then click on the "Claim Projects" button to claim the projects.

 Click on the links below to download the annotation project packages.

#	Project Package Links
1	<a href="#">delegans_3Lcontrol_Aug2015_contig4.zip</a>
2	<a href="#">delegans_3Lcontrol_Aug2015_contig14.zip</a>

Claim Additional Projects

Figure 6 Right-click on the links and choose "Save link As" or "Download Linked File As" to download the project packages.

#### 4. Opening the annotation packages

The annotation packages are compressed zip archive files. Typically, you can expand the archive simply by double-clicking on the archive file on the three major platforms (Windows, Mac OS X, and Linux). There are also many third-party programs that can expand zip files. These tools include WinZip (<http://www.winzip.com>) and 7-zip (<http://www.7-zip.org>) for Windows, Stuff-It Expander for Mac OS X, and the gunzip command-line tool in both Mac OS X and Linux. The GEP can also supply the packages in an alternate format upon requests.

### Claiming Finishing Projects

#### 1. Navigate to the "Claim Finishing Projects" page

The process of claiming finishing projects is similar to those used to claim annotation projects. Once you login to the Project Management System, click on the link "Claim Finishing Projects" on the home page (Figure 7).

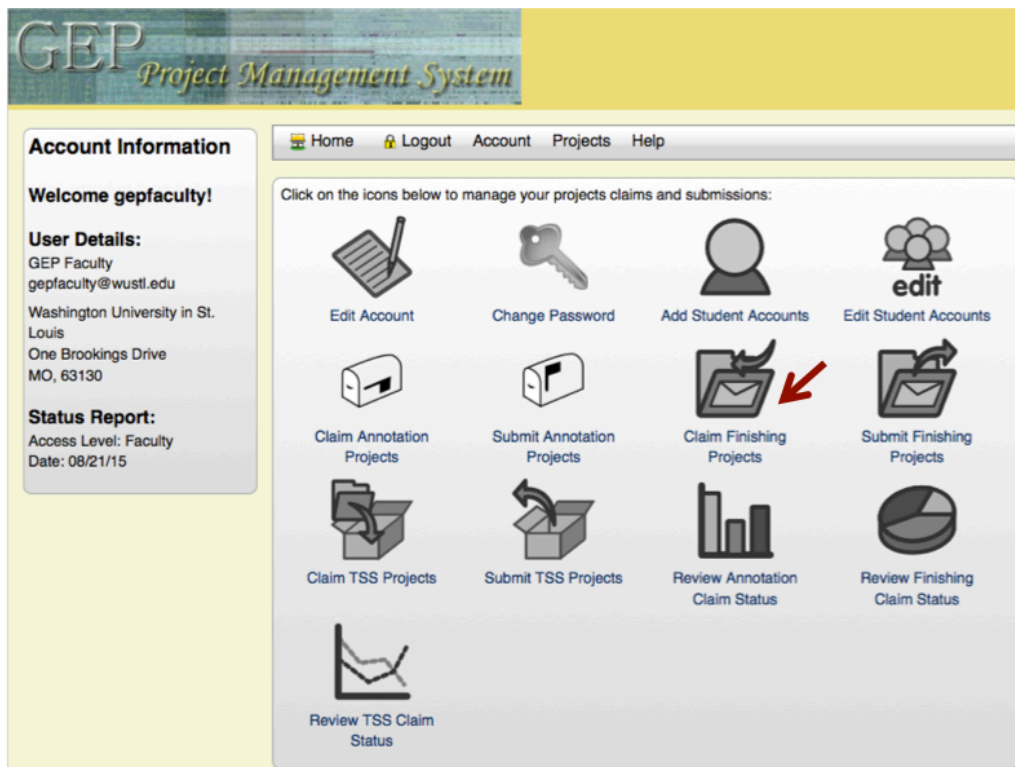


Figure 7 Click on the "Claim Finishing Projects" link on the home page to claim finishing projects.

You should see a finishing project claim table that is very similar to the annotation project claim table (Figure 8).

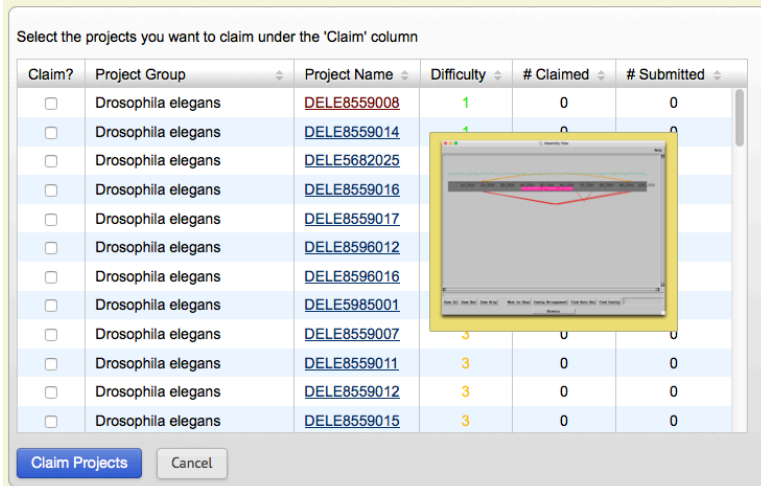


Figure 8 Hover over the name of the project in the "Project Name" column to see a preview of the initial assembly view. Click on the link under the "Project Name" column to examine some basic statistics (e.g., number of high quality discrepancies, gaps).

The list of available projects is shown in a table with the following columns:

Column	Description
<b>Claim?</b>	Select the checkbox to claim the project.
<b>Project Group</b>	Species from which the project was derived (e.g., <i>D. elegans</i> )
<b>Project Name</b>	Unique project name assigned by the GEP.
	Hover over the project name to see a thumbnail of the assembly view for the project. Click on the hyperlink to examine the Assembly View at a higher resolution and to obtain additional statistics (e.g., number of high quality discrepancies, gaps) for the project.
<b>Difficulty</b>	Estimated difficulty of the project (more difficult projects have higher values).
<b># Claimed</b>	Number of times the project has been claimed by GEP faculty. Projects that are claimed more than three times are highlighted in red.
<b># Submitted</b>	Number of times the project has been submitted by GEP faculty members. Projects that have been submitted twice will be removed from the claim list.

## 2. Claiming finishing projects using the claim table

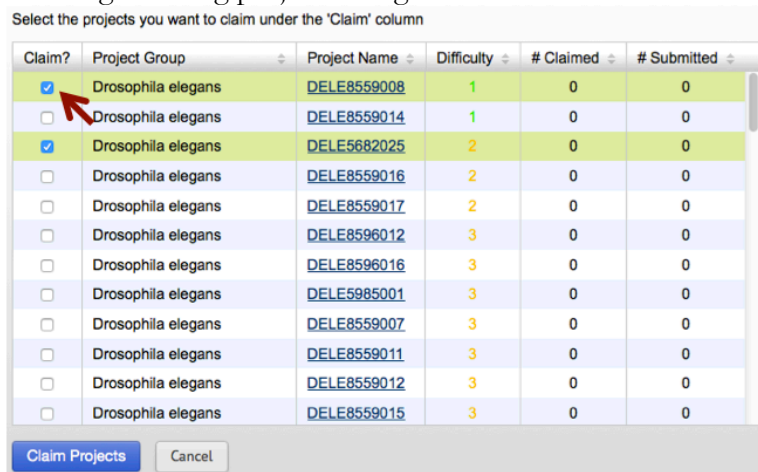



Figure 9 Select the checkbox under the "Claim" column next to the finishing project you would like to claim.

- Select the checkboxes under the “Claim” field that corresponds to the finishing projects you would like to claim (Figure 9).
- Click on the “Claim Projects” button once you have selected all the finishing projects that you would like to claim.
- You will see a confirmation dialog that displays the list of projects you have selected. Click on the  icon to remove the projects you do not wish to claim.
- Click on the “Claim Projects” button. If all goes well, you should see a list of links that corresponds to the finishing projects you have previously selected. Right click on the links and select “Save Link As” or “Download Linked File As” to save the project packages to your computer (Figure 10).

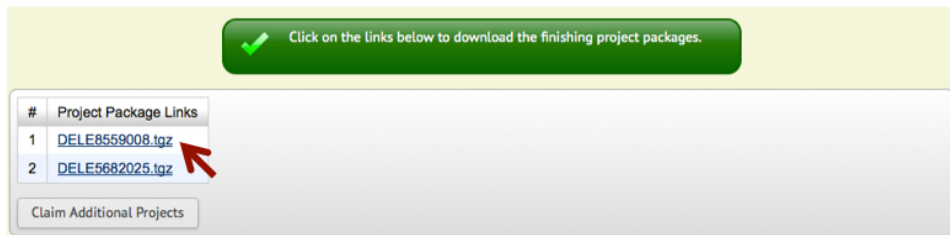


Figure 10 Right-click and select "Save Link As" or "Download Linked File As" to download the project packages.

### 3. Opening the finishing packages

All the finishing packages are compressed tar gzip files. On Mac OS X and Linux, you can expand the archives simply by double-clicking on the archive file. You can also use other programs (*e.g.*, WinZip and 7-zip for Windows, Stuff-It Expander for Mac OS X, and the tar command-line tool in both Mac OS X and Linux) to expand the archive file. The GEP can also supply the packages in a different format upon requests.

## Claiming TSS Projects

### 5. Navigate to the Claim TSS Project Screen

Click on the “Claim TSS Projects” link (Figure 11) on the home page.

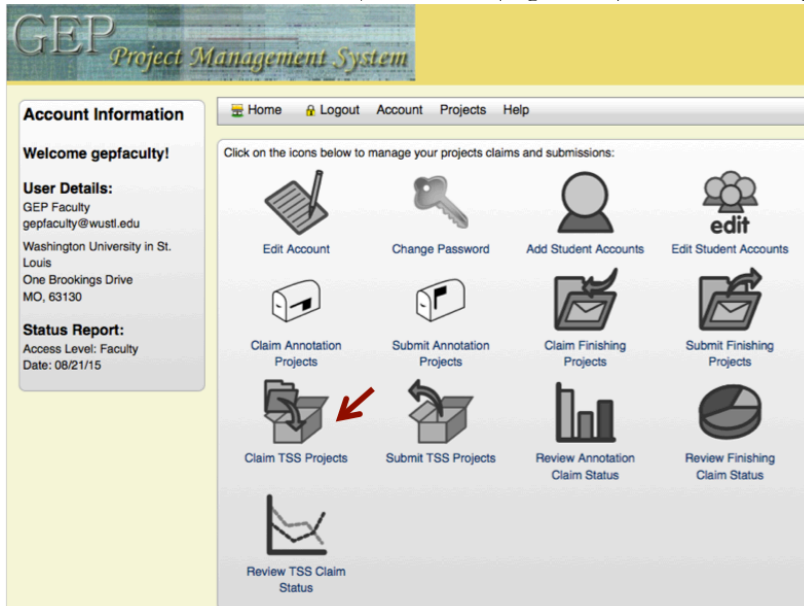


Figure 11 Click on the "Claim TSS Project" link to claim TSS projects.

## 6. Claiming TSS projects using the claim table

The claim table shows all the projects that are currently available to be claimed (Figure 12).

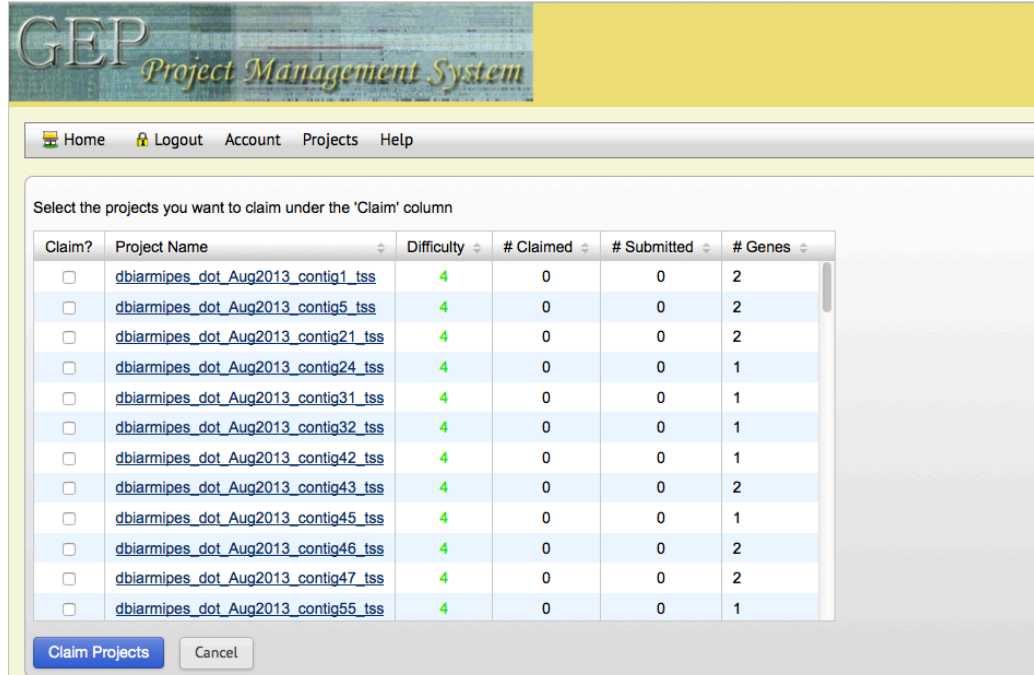



Figure 12 The list of available TSS projects is listed in the project claim table.

Column	Description
<b>Claim?</b>	Select the checkbox to claim the project.
<b>Project Name</b>	<p>Unique project name assigned by GEP. The project name corresponds to the species and the assembly on the GEP UCSC Genome Browser mirror, followed by the “_tss” suffix.</p> <p>For example, the project name <i>dbiarmipes_dot_Aug2013_contig1_tss</i> corresponds to contig1 from the Aug. 2013 assembly of the <i>D. biarmipes</i> dot chromosome on the GEP UCSC Genome Browser mirror.</p> <p>Clicking on the hyperlink in this field will open a new page with the corresponding project in the GEP UCSC Genome Browser mirror.</p>
<b>Difficulty</b>	Estimated difficulty of the project based on the number of TSS that needs to be annotated (more difficult projects have higher values).
<b># Claimed</b>	Number of times the project has been claimed by GEP faculty members.
<b># Submitted</b>	<p>Projects that have been claimed more than three times are highlighted in red.</p> <p>Number of times the project has been submitted by GEP faculty members.</p> <p>Projects that have been submitted twice will be removed from the claim list.</p>
<b># Genes*</b>	Number of reconciled genes in the project

\* Each gene model was submitted by at least two groups and the reconciled gene models are available through the “**Reconciled Gene Models**” track on the GEP UCSC Genome Browser (available under the “Genes and Gene Prediction Tracks” section).

- Select the checkboxes under the “Claim?” field that corresponds to the TSS projects you would like to claim (Figure 13).
- Click on the “Claim Projects” button once you have selected all the projects that you would like to claim.
- You will see a confirmation dialog that displays the list of TSS projects you have selected. Click on the  icon to remove the projects you do not wish to claim.
- Click on the “Claim Projects” button. If all goes well, you should see a list of links that corresponds to the TSS projects you have previously selected. Right click on the links and select “Save Link As” or “Download Linked file As” to save the project packages to your computer (Figure 14).

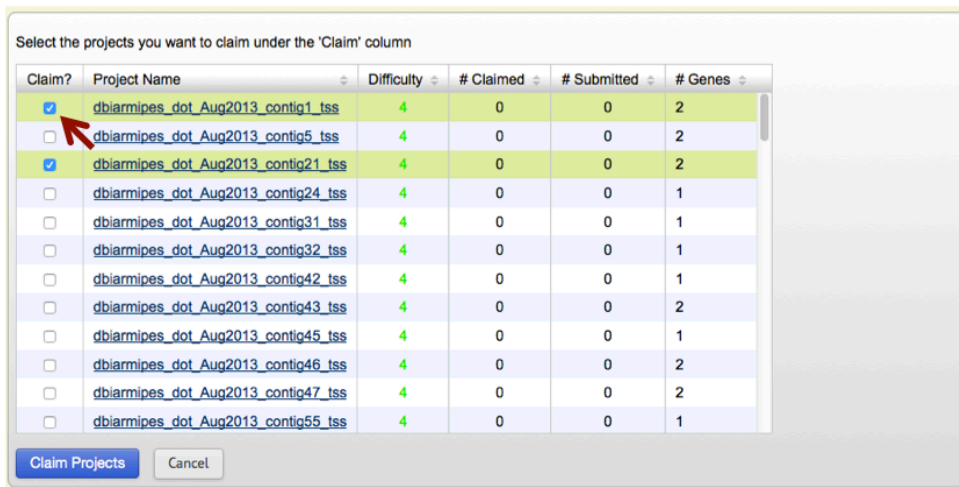


Figure 13 Select the checkbox under the "Claim" column next to the TSS project you would like to claim.



Figure 14 Right-click on the links and choose "Save link As" or "Download Linked File As" to download the project packages.

## 7. Opening the TSS packages

The TSS packages are compressed zip archive files. Typically, you can expand the archive by double-clicking on the archive file on the three major platforms (Windows, Mac OS X, and Linux). There are also many third-party programs that can expand zip files. These tools include WinZip (<http://www.winzip.com>) and 7-zip (<http://www.7-zip.org>) for Windows, Stuff-It Expander for Mac OS X, and the gunzip command-line tool in both Mac OS X and Linux. The GEP can also supply the packages in an alternate format upon requests.

## Additional Resources

Please contact Wilson ([wleung@wustl.edu](mailto:wleung@wustl.edu)) if you encounter any problems during the project claiming process or if you have any questions about the Project Management System.