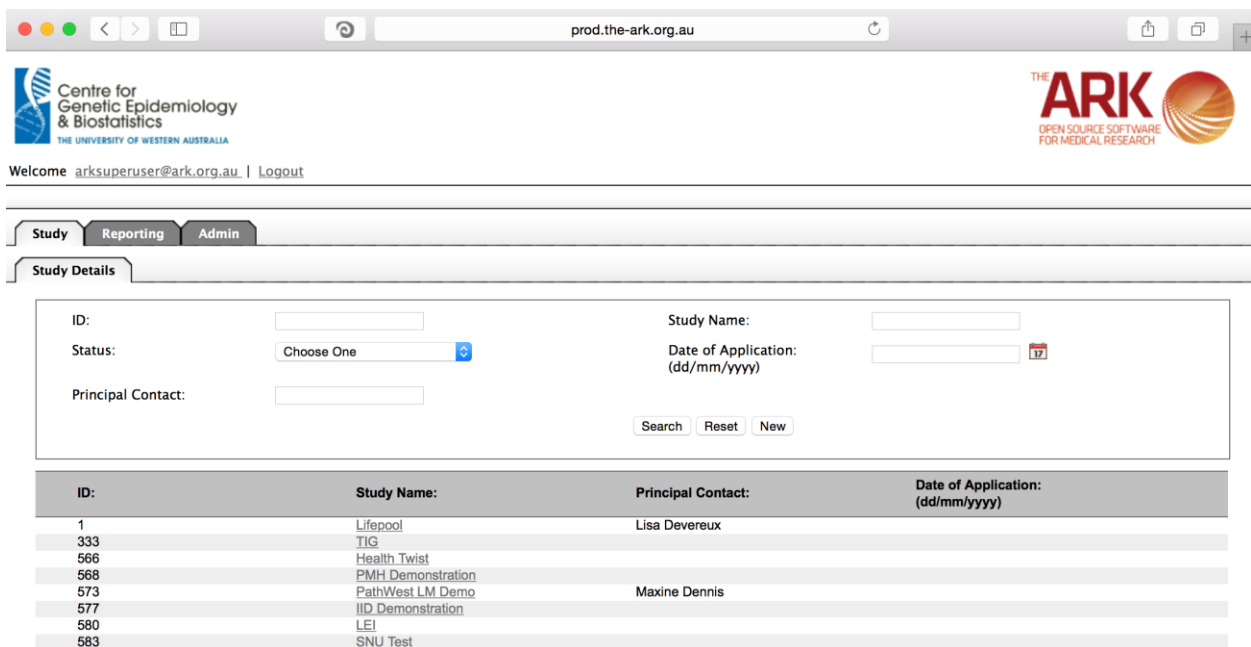


The Ark Documentation.

Analysis

Log in and select your study by clicking the hyperlink corresponding to the name of your study.

Once you have chosen your study we will be able to adjust study details or select modules and functions available in that study (for which you have privileges).



The screenshot shows a web browser window with the URL `prod.the-ark.org.au`. The page header includes the logo for the Centre for Genetic Epidemiology & Biostatistics at The University of Western Australia, and the logo for THE ARK OPEN SOURCE SOFTWARE FOR MEDICAL RESEARCH. A welcome message reads: "Welcome arksuperuser@ark.org.au | Logout".

Below the header, there are three tabs: "Study", "Reporting", and "Admin". The "Study" tab is active, and a sub-tab "Study Details" is selected.

The "Study Details" form contains the following fields:

- ID:
- Status:
- Principal Contact:
- Study Name:
- Date of Application: (with a calendar icon)

At the bottom of the form are three buttons: "Search", "Reset", and "New".

Below the form is a table with the following columns: ID, Study Name, Principal Contact, and Date of Application (dd/mm/yyyy).

ID:	Study Name:	Principal Contact:	Date of Application: (dd/mm/yyyy)
1	Lifepool	Lisa Devereux	
333	TIG		
566	Health Twist		
568	PMH Demonstration		
573	PathWest LM Demo	Maxine Dennis	
577	IID Demonstration		
580	LEI		
583	SNU Test		

Alternatively if you have a very long list of studies under your management you may use the search palette/panel at the top of the page. You can search/filter by id, name, and principal contact, status of the study or date of application. Once you have added your filtering criteria, click the search button;

prod.the-ark.org.au

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Study Reporting Admin

Study Details

ID: Study Name:

Status: Choose One Date of Application:

Principal Contact:

ID:	Study Name:	Principal Contact:	Date of Application: (dd/mm/yyyy)
1	Lifepool	Lisa Devereux	
333	TIG		
566	Health Twist		
568	PMH Demonstration		
573	PathWest LM Demo	Maxine Dennis	
577	IID Demonstration		
580	LEI		
583	SNU Test		
584	random_new		
585	IMRC_Test		

As you can see the filter has helped us find our chosen study and we can click the hyperlinked study name as discussed before;

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Study Reporting Admin

Study Details

ID: Study Name:

Status: Choose One Date of Application:

Principal Contact:

ID:	Study Name:	Principal Contact:	Date of Application: (dd/mm/yyyy)
579	Pedigree WIP	Dr Adrian Bickerstaffe	07/02/2014

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* indicates a child study

Once you have chosen your study we will be able to adjust study details or select modules and functions available in that study (for which you have privileges). The module we wish to select is Genomics – Analysis.

Genomics module is created with the intention of allowing collaborating researchers to administer the existing GWAS datasets and execute GWAS analysis inside High-performance computing sources via a single web user interface.

This simple page is for controlling the execution of the GWAS analysis (These analysis entries has given opportunity to researchers to select a GWAS dataset and execute analysis algorithm available in selected micro service). Also, enable the researchers to monitor the status of their analysis and download the results. As you can see the same standard lay out of a list and filterable fields starts us off.

Study: spark

Study Subject Datasets LIMS Reporting Work Tracking Disease **Genomics** Global Search Admin

Micro Service Data Centre Computation **Analysis**

ID: Name:

ID:	Name:	Micro Service:	Data Source:	Algorithm:	Status:		
1	analysis1	spark-local	10	Plink-QC	Completed	<input type="button" value="Run Analysis"/>	<input type="button" value="Download Result"/>
2	analysis2	spark-local	10	Plink-QC	Completed	<input type="button" value="Run Analysis"/>	<input type="button" value="Download Result"/>
3	analysis3	spark-local	10	Plink-QC	Completed	<input type="button" value="Run Analysis"/>	<input type="button" value="Download Result"/>
4	analysis4	spark-local	10	Plink-QC	Completed	<input type="button" value="Run Analysis"/>	<input type="button" value="Download Result"/>
5	analysis5	spark-local	10	Plink-QC	Completed	<input type="button" value="Run Analysis"/>	<input type="button" value="Download Result"/>
6	analysis6	spark-local	10	Plink-QC	Completed	<input type="button" value="Run Analysis"/>	<input type="button" value="Download Result"/>
7	analysis7	spark-local	100	Basic_Association_Analysis	Undefined	<input type="button" value="Run Analysis"/>	<input type="button" value="Download Result"/>

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We will now add a new analysis for execution. Start by clicking the new button. The following will appear; The fields are all self-explanatory. The only note is that any field with a “*” is required/compulsory.

Study: spark

Study Subject Datasets LIMS Reporting Work Tracking Disease Genomics Global Search Admin

Micro Service Data Centre Computation Analysis

ID: Name:

Description:

Algorithm:

Result File Name:

Status: Undefined

Micro Service:

Data Source:

Parameters:

Job ID:

Then click save;

If you have no issues and it has correctly saved, then you will have the green message at the top of the page telling you so. If there were any issues (rare on this page), a message will show up in red describing what you have done wrong.

Click on Cancel button will return to the analysis search list screen.

Analysis tab search lists the existing SPARK analysis with the Id, Name, Micro Service, Data Source, Algorithm and Status. In addition, Run Analysis, and Download Results buttons in the right corner.

Study: spark

Study Subject Datasets LIMS Reporting Work Tracking Disease Genomics Global Search Admin

Micro Service Data Centre Computation Analysis

ID: Name:

ID:	Name:	Micro Service:	Data Source:	Algorithm:	Status:		
1	analysis1	spark-local	10	Plink-QC	Completed	<input type="button" value="Run Analysis"/>	<input type="button" value="Download Result"/>
2	analysis2	spark-local	10	Plink-QC	Completed	<input type="button" value="Run Analysis"/>	<input type="button" value="Download Result"/>
3	analysis3	spark-local	10	Plink-QC	Completed	<input type="button" value="Run Analysis"/>	<input type="button" value="Download Result"/>
4	analysis4	spark-local	10	Plink-QC	Completed	<input type="button" value="Run Analysis"/>	<input type="button" value="Download Result"/>
5	analysis5	spark-local	10	Plink-QC	Completed	<input type="button" value="Run Analysis"/>	<input type="button" value="Download Result"/>
6	analysis6	spark-local	10	Plink-QC	Completed	<input type="button" value="Run Analysis"/>	<input type="button" value="Download Result"/>
7	analysis7	spark-local	100	Basic_Association_Analysis	Undefined	<input type="button" value="Run Analysis"/>	<input type="button" value="Download Result"/>

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There, click on the Run analysis button will execute the analysis and disable the Run analysis button

Click on the Download Results button will download the completed analysis to the local computer.

When analysis has started, it is not allowed to delete from the system.