

# The Ark Documentation.

## Add new subject: subject biospecimen.

Once you have seen the confirmation message that the new subject has been created, you can proceed to add additional information.



Welcome to The Ark

prod.the-ark.org.au/ark/home?3

Centre for Genetic Epidemiology & Biostatistics THE UNIVERSITY OF WESTERN AUSTRALIA

THE ARK OPEN SOURCE SOFTWARE FOR MEDICAL RESEARCH

Welcome [arksuperuser@ark.org.au](#) | Logout

Study: Pedigree WIP Subject UID: 999

Study Subject Datasets LIMS Reporting Work Tracking Disease Admin

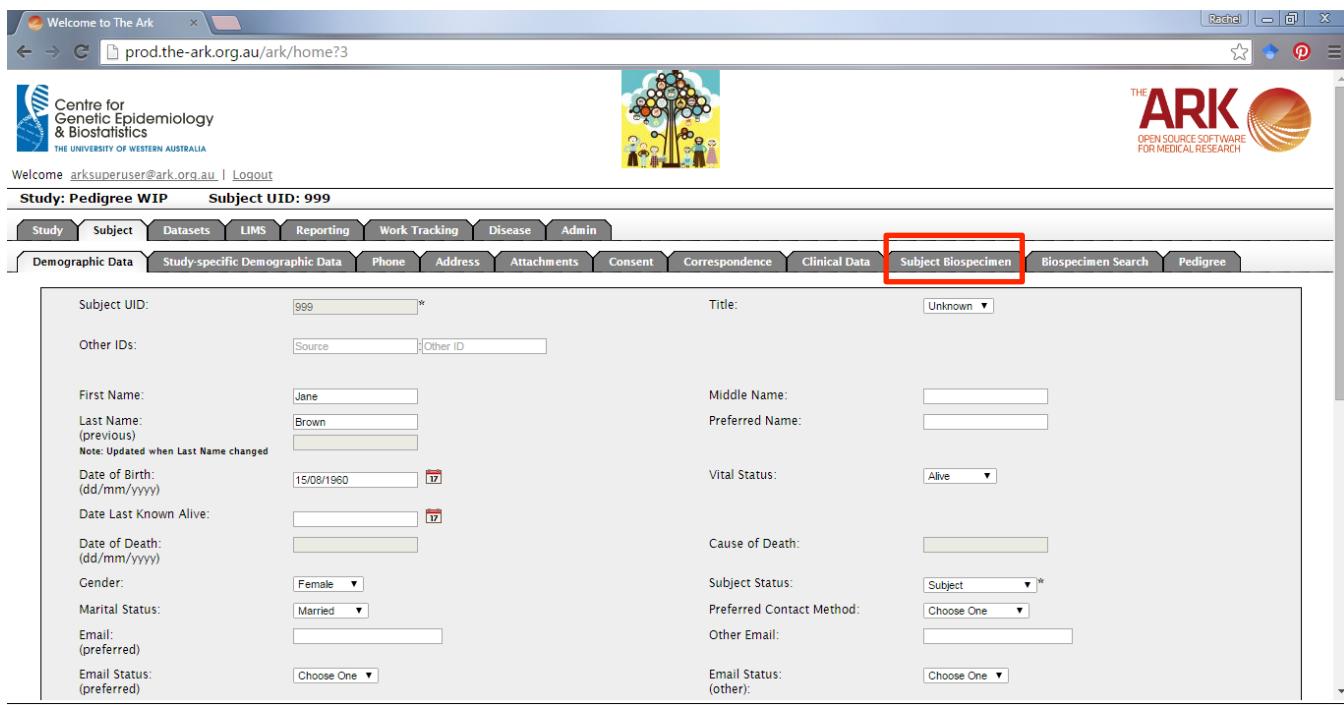
Demographic Data Study-specific Demographic Data Phone Address Attachments Consent Correspondence Clinical Data Subject Biospecimen Biospecimen Search Pedigree

The Subject with Subject UID: 999 has been created successfully and linked to the study in context: Pedigree WIP.

Subject UID: 999 Title: Unknown

A screenshot of the The Ark software interface. The title bar shows 'Welcome to The Ark' and the URL 'prod.the-ark.org.au/ark/home?3'. The header includes the Centre for Genetic Epidemiology & Biostatistics logo and the THE ARK logo. The main menu has tabs for Study, Subject, Datasets, LIMS, Reporting, Work Tracking, Disease, Admin, Demographic Data, Study-specific Demographic Data, Phone, Address, Attachments, Consent, Correspondence, Clinical Data, Subject Biospecimen, Biospecimen Search, and Pedigree. A message box displays the text: 'The Subject with Subject UID: 999 has been created successfully and linked to the study in context: Pedigree WIP.' Below the message, there are fields for 'Subject UID' (999) and 'Title' (Unknown). A red box highlights the 'Subject Biospecimen' tab in the navigation bar.

Click on the Subject Biospecimen function.



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Demographic Data Study-specific Demographic Data Phone Address Attachments Consent Correspondence Clinical Data Subject Biospecimen Biospecimen Search Pedigree

Subject UID: 999 Title: Unknown

Other IDs: Source Other ID

First Name: Jane Middle Name:

Last Name: Brown Preferred Name:

Note: Updated when Last Name changed

Date of Birth: 15/08/1960 Vital Status: Alive

Date Last Known Alive:

Date of Death:

Gender: Female Subject Status: Subject

Marital Status: Married Preferred Contact Method: Choose One

Email: Other Email:

Email Status: (other) Choose One

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A screenshot of the The Ark software interface. The title bar shows 'Welcome to The Ark' and the URL 'prod.the-ark.org.au/ark/home?3'. The header includes the Centre for Genetic Epidemiology & Biostatistics logo and the THE ARK logo. The main menu has tabs for Study, Subject, Datasets, LIMS, Reporting, Work Tracking, Disease, Admin, Demographic Data, Study-specific Demographic Data, Phone, Address, Attachments, Consent, Correspondence, Clinical Data, Subject Biospecimen, Biospecimen Search, and Pedigree. The 'Subject Biospecimen' tab is highlighted with a red box. The form contains fields for Subject UID (999), Title (Unknown), Other IDs (Source, Other ID), First Name (Jane), Middle Name, Last Name (Brown), Preferred Name, Note (Updated when Last Name changed), Date of Birth (15/08/1960), Vital Status (Alive), Date Last Known Alive, Date of Death, Gender (Female), Subject Status (Subject), Marital Status (Married), Preferred Contact Method (Choose One), Email, Other Email, and Email Status (other). A note at the bottom states 'Note: Updated when Last Name changed'. A copyright notice at the bottom right reads 'the-ark 1.2 Copyright © the-ark.org.au. All rights reserved.'

The following page will appear.

This screenshot shows the Ark software interface for managing a pedigree. At the top, there's a navigation bar with links to various services like Google, UWA Staff Email, and Google Scholar. The main header says "Welcome to The Ark" and "prod.the-ark.org.au/ark/home?2". Below the header, there's a logo for the Centre for Genetic Epidemiology & Biostatistics at the University of Western Australia, and the ARK logo with the tagline "OPEN SOURCE SOFTWARE FOR MEDICAL RESEARCH". The main content area is titled "Study: Pedigree WIP Subject UID: 999". A sub-menu bar below it includes "Study", "Subject", "Datasets", "LIMS", "Reporting", "Work Tracking", "Disease", and "Admin". The "Subject" tab is selected. A large form for a "Demographic Data" entry is displayed, containing fields for Subject UID (999), First Name (Jane), Date of Birth (15/08/1960), Date of Death (empty), Gender (Female), Title (Unknown), Last Name (Brown), Vital Status (Alive), and Cause of Death (empty). A "Cancel" button is at the bottom right of this form. Below this, there's a section for "Collection" management with tabs for "ID", "Collection UID", "Collection Name", "Collection Date (dd/mm/yyyy)", and "Comments". A "New" button is visible here. Another section below shows fields for "ID", "Biospecimen UID", "Study", "Collection UID", "Sample Type", "Quantity (avail.)", "Location", and "Is barcoded?". Buttons for "New" and "Batch Create" are also present. At the very bottom of the page, a copyright notice reads "the-ark 1.2 Copyright © the-ark.org.au. All rights reserved."

To add a new specimen Collection, click New.

This screenshot is identical to the one above, showing the Ark software interface for managing a pedigree. The "New" button in the "Collection" management section is now highlighted with a red box to indicate it should be clicked to add a new specimen collection.

The following page will appear.

This screenshot shows the Ark software interface. At the top, there's a navigation bar with links like 'Welcome to The Ark', 'prod.the-ark.org.au/ark/home?2', and various university and external links. On the left, there's a sidebar with 'Study' and 'Demographic' tabs, and a tree view showing a node labeled '999'. The main area displays a 'Collection Detail' dialog box. This dialog has fields for 'ID' (with a required asterisk), 'Name', 'Comments', 'Collection UID' (set to '001'), 'Collection Date' (set to '17/08/2015'), and a 'Collector' field. Below these are 'Save' and 'Cancel' buttons. At the bottom of the dialog, there's a 'No. of labels:' dropdown set to '1', and links for 'Print Collection Label(s)', 'Print All Biospecimens for Collection', and 'Print All Straw Biospecimens for Collection'. The background of the main window shows a table header with columns: ID, Biospecimen UID, Study, Collection UID, Sample Type, Quantity (avail.), Location, Is barcoded?. There are also buttons for 'New' and 'Batch Create'.

Add in the required information for the subject's biospecimen collection using the comment boxes and calendar function.

This screenshot is similar to the previous one, showing the 'Collection Detail' dialog box. The 'Collection Date' field is highlighted with a red box. The 'Save' button is also highlighted with a red box. The rest of the interface is identical to the first screenshot.

When you are finished, click Save.

You will see a collection has been created. You can now exit and return to the Subject Biospecimen Function.

The screenshot shows the Ark software interface. At the top, there's a banner for the Centre for Genetic Epidemiology & Biostatistics, THE UNIVERSITY OF WESTERN AUSTRALIA, and the ARK logo. The main window title is "Welcome to The Ark". Below it, the URL is prod.the-ark.org.au/ark/home?2. The user is logged in as "arksuperuser@ark.org.au". The study is "Pedigree WIP" and the subject UID is "999". A modal dialog box titled "Collection Detail" is open, containing fields for ID (91175), Name (empty), Comments (empty), Collection UID (001), Collection Date (16/08/2015), and Collector (empty). A success message "Biospecimen collection 001 was created successfully" is displayed in a green box at the top of the modal. There are "Save", "Cancel", and "Delete" buttons at the bottom of the modal. Below the modal, there's a table header with columns: ID, Biospecimen UID, Study, Collection UID, Sample Type, Quantity (avail.), Location, Is barcoded?. Buttons for "New" and "Batch Create" are also visible. The footer of the page says "the-ark 1.2 Copyright © the-ark.org.au. All rights reserved."

You will now see a new collection entry. You can click on the Collection UID to edit at any time, or to print labels.

The screenshot shows the Ark software interface again. The user is still logged in as "arksuperuser@ark.org.au" for study "Pedigree WIP" and subject UID "999". The "Subject Biospecimen" tab is active. In the main area, there are demographic data fields for a subject with UID 999: First Name (Jane), Date of Birth (15/08/1960), Date of Death (empty), Gender (Female). To the right, there are fields for Title (Unknown), Last Name (Brown), Vital Status (Alive), and Cause of Death (empty). A "Cancel" button is at the bottom of this section. Below this, a table lists collections. The first row shows ID 91175, Collection UID 001, Collection Name (empty), Collection Date (16/08/2015), and Comments (empty). This row is highlighted with a red border. Below the table, there's a "New" button and a table header with columns: ID, Biospecimen UID, Study, Collection UID, Sample Type, Quantity (avail.), Location, Is barcoded?. Buttons for "New" and "Batch Create" are also present. The footer of the page says "the-ark 1.2 Copyright © the-ark.org.au. All rights reserved."

To add Biospecimens to the collection, click on New.

The screenshot shows the 'Subject' tab of a study record for 'Pedigree WIP' with Subject UID '999'. The subject's details are as follows:

Subject UID:	999	Title:	Unknown	
First Name:	Jane	Last Name:	Brown	
Date of Birth:	15/08/1960	Vital Status:	Alive	
Date of Death:		Cause of Death:		
Gender:	Female	[Cancel]		

Below this, there is a table for collections:

ID:	Collection UID:	Collection Name:	Collection Date: (dd/mm/yyyy)	Comments:			
91175	001		16/08/2015				
<< < > >>							
New							
ID:	Biospecimen UID:	Study:	Collection UID:	Sample Type:	Quantity (avail.):	Location:	Is barcoded?:
<< >>							
New Batch Create							

At the bottom, it says "the-ark 1.2 Copyright © the-ark.org.au. All rights reserved."

The following page will appear.

The screenshot shows the 'Biospecimen Detail' form for the subject with Subject UID '999' and Last Name 'Brown'. The form fields include:

Subject UID:	999	First Name:	Jane
Last Name:	Brown	Date of Birth:	15/08/1960
ID:	*	Biospecimen UID:	*
Sample Type:	Choose One *	Parent UID:	
Sample Date:	(dd/mm/yyyy) <input type="text" value="17"/>	Collection:	Choose One *
Processed Date:	(dd/mm/yyyy) <input type="text" value="17"/>	Sample Time:	:
Comments:			
Grade:	Choose One	Processed Time:	:
Anticoagulant Type:	Choose One	Barcode:	<input type="checkbox"/>
Protocol:	Choose One	Is barcoded?:	<input type="checkbox"/>
Quality:	Choose One	Presumed when barcode printed, label is attached	
Laboratorian <input type="text"/>			
Initial Quantity:	*	Stored In:	Choose One
	*	Status:	Choose One
	*	Purity (260/280):	

At the bottom, it says "the-ark 1.2 Copyright © the-ark.org.au. All rights reserved."

## Enter a biospecimen UID.

The screenshot shows the 'Biospecimen Detail' form in the Ark software. The 'Biospecimen UID' field is highlighted with a red box. Other fields visible include Subject UID, First Name, Date of Birth, ID, Sample Type, Collection, Sample Date, Sample Time, Processed Date, Processed Time, Comments, Grade, Anticoagulant Type, Protocol, Quality, Barcode, Is barcoded?, Presumed when barcode printed, label is attached, Stored In, Status, Purity, Initial Quantity, Treatment, and Laboratorian.

## Select a sample type from the drop-down menu.

The screenshot shows the 'Biospecimen Detail' form in the Ark software. The 'Sample Type' dropdown menu is open, displaying a list of options including 'Choose One', 'Choose One', 'Blood / Whole Blood', 'Blood / Peripheral Blood Lysed', 'Blood / Peripheral Blood DNA', 'Blood / Blood', 'Blood / Buffy Coat', 'Blood / Buffy Coat (ACD)', 'Blood / Buffy Coat (EDTA)', 'Blood / Buffy Coat (LH)', 'Blood / Cord blood', 'Blood / Clots', 'Blood / EDTA Blood', 'Blood / Frozen Lymphocytes (F)', 'Blood / Lithium Heparin', 'Blood / Mothers Blood', 'Blood / PBMC-EDTA', 'Blood / Plasma', 'Blood / Plasma (ACD)', 'Blood / Plasma (EDTA)', and 'Blood / Plasma (LH)'. The 'Choose One' option is currently selected. Other fields visible include Subject UID, First Name, Date of Birth, ID, Collection, Sample Time, Processed Date, Processed Time, Comments, Grade, Anticoagulant Type, Protocol, Quality, Barcode, Is barcoded?, Presumed when barcode printed, label is attached, Stored In, Status, Purity, Initial Quantity, Treatment, and Laboratorian.

## Add the biospecimen to a collection.

The screenshot shows the Ark biospecimen entry interface. The 'Collection' dropdown menu is open, displaying the options 'Choose One' and '001'. A red box highlights this dropdown. Other fields visible include 'Subject UID' (999), 'First Name' (Jane), 'Last Name' (Brown), and various sample details like 'Sample Type' (Blood / Blood) and 'Comments'.

Enter additional information for the biospecimen using the drop-down menus and comment boxes. Quantities can be added at the bottom of the page, and units can be selected using the drop-down menu.

The screenshot shows the Ark biospecimen entry interface. The 'Initial Quantity' dropdown menu is open, displaying a list of units including 'Choose One', 'unit', 'mm', 'mm Hg', 'L', 'S', 'm', 'vial', 'pcs', 'units', 'mS', '%', 'Gy', 'mm', 'kg', 'U', 'cm', 'mL', 'pg', and 'grams'. A red box highlights this dropdown. Other fields visible include 'Sample Type' (Blood / Blood) and 'Comments'.

How the sample will be stored can also be selected using the Treatment menu.

The screenshot shows the Ark software interface for managing samples. A dropdown menu for 'Treatment' is open, displaying a list of options. The options include: Choose One, 70% Alcohol Fixed, Fix-all prep, Formalin Fixed, Frozen, Nucleic Acid, RNA Later, RNA later, then Formalin Fixed, RNA later, then Snap Frozen, Tissue Cultured, TRIS EDTA, Unknown, Unprocessed, and Choose One again. The 'Treatment' field in the main form is set to 'Choose One'. The 'Save' button at the bottom is highlighted with a red box.

ID: [ ] \* Biospecimen UID: [ ] \*  
Sample Type: Blood / Blood \* Collection: Choose One \*  
Sample Date: [dd/mm/yyyy] Use Collection Date Sample Time: [ ] : [ ]  
Processed Date: [dd/mm/yyyy] Processed Time: [ ] : [ ]  
Comments: Barcode:   
Grade: Choose One Is barcoded?: Presumed when barcode printed, label  
Anticoagulant Type: Choose One is attached  
Protocol: Choose One  
Quality: Choose One  
Stored In: Choose One  
Status: Choose One  
Purity (260/280): Choose One  
Initial Quantity: [ ] \* Choose One \* Treatment: Choose One  
Concentration: Amount (qty \* conc): 0  
Laboratorian: [ ]  
Save Cancel

When you are finished, click Save.

The screenshot shows the Ark software interface with the 'Treatment' dropdown menu closed. The 'Treatment' field now contains a specific selection from the previous screenshot. The 'Save' button at the bottom is highlighted with a red box.

ID: [ ] \* Biospecimen UID: [ ] \*  
Sample Type: Blood / Blood \* Collection: Choose One \*  
Sample Date: [dd/mm/yyyy] Use Collection Date Sample Time: [ ] : [ ]  
Processed Date: [dd/mm/yyyy] Processed Time: [ ] : [ ]  
Comments: Barcode:   
Grade: Choose One Is barcoded?: Presumed when barcode printed, label  
Anticoagulant Type: Choose One is attached  
Protocol: Choose One  
Quality: Choose One  
Stored In: Choose One  
Status: Choose One  
Purity (260/280): Choose One  
Initial Quantity: [ ] \* Choose One \* Treatment: Choose One  
Concentration: Amount (qty \* conc): 0  
Laboratorian: [ ]  
Save Cancel

Note: you must enter all fields marked with an asterisk.

You will see that a new biospecimen has been created. You can now exit and return to the Subject Biospecimen Function.

The screenshot shows the Ark software interface for creating a biospecimen. A red box highlights the message "Biospecimen 1010 was created successfully". The main form contains fields for Subject UID (999), First Name (Jane), Last Name (Brown), ID (638389), Biospecimen UID (1010), Sample Type (Blood / Blood), Collection (001), Sample Date (16/08/2015), Processed Date (16/08/2015), Comments, Grade, Anticoagulant Type, Protocol, Quality, and various status dropdowns. At the bottom, there is a "Labororian" field and a "Quantity (avail.): (Total of transactions)" field set to 5.0 ul. The status bar at the bottom right reads "the-ark 1.2 Copyright © the-ark.org.au. All rights reserved."

To clone, process or aliquot the biospecimen, use the options at the bottom of the screen when you re-enter the biospecimen page. Use clone to make an identical biospecimen with a unique Biospecimen ID.

The screenshot shows the Ark software interface for managing a biospecimen. The top part of the screen displays the biospecimen details from the previous step. The bottom part shows a table of transaction history and allocation details. A red box highlights the "Clone|Process|Aliquot" button at the bottom of the page. The status bar at the bottom right reads "the-ark 1.2 Copyright © the-ark.org.au. All rights reserved."