

ANDE FAIRS™ CLAIMED RELATIONSHIPS



ANDE FAIRS™: Claimed Relationships is a secure module within the ANDE FAIRS Windows-based application that provides an easy-to-use interface allowing operators with no knowledge of genetics or pedigrees to produce real-time claimed relationships results that show the probability of the veracity of such claims. This module leverages years of investment in algorithms routinely used in AABB-accredited labs.



FAIRS Claimed Relationships module provides a non-technical user with a simple step-by-step interface to capture, test and verify the claimed relationships associated with a case.

The user selects an Anchor and the remainder of the Family Members to be included in the evaluation. The FAIRS Claimed Relationships module then walks the user through a guided set of simple questions that allows the set of claimed relationships to be captured for testing.

Claimed relationships to the Anchor, the Other Parent and for the Siblings are verified using Algorithms that are routinely used in AABB-accredited labs. To maximize user productivity, the results are color coded to easily distinguish between claimed relationships that may require further action and those that are successfully verified.

A technical user can drill down on the high-level results to view reports that include the genetic profiles, allele frequencies and formulae used when calculating the results.

For more information:

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FAIRS™ Claimed Relationships

The FAIRS Claimed Relationships module uses the underlying capabilities of the FAIRS application to securely import and manage DNA IDs and metadata associated with subjects of the claimed relationships tests.

The FAIRS application provides a comprehensive structure of User Management roles to allow for Operator, Admin or Supervisory functions. The application also establishes a secure relationship with any connected ANDE Rapid DNA Instrument to facilitate the import of DNA IDs by Ethernet connection or USB drive.

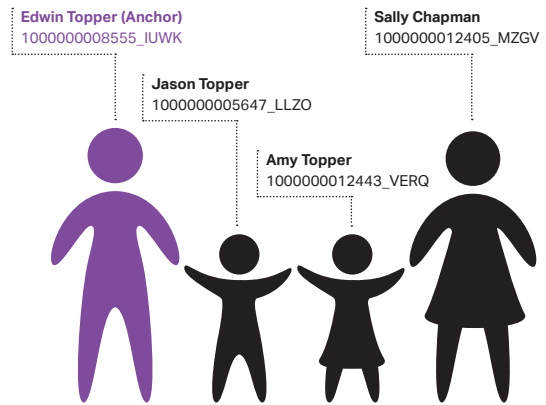
DNA IDs residing in the FAIRS database can be exported and shared with other approved federated sources.

The ANDE FAIRS Claimed Relationship module and its underlying algorithms will form the basis for ANDE's future planned innovations in the Kinship arena.

System Requirements

Windows 7 or 10, i7 Intel Processor, 8 GB DRAM, .NET Framework 4.6 or newer

Edwin and Sally claim to be the parents of Jason and Amy



ANDE FAIRS Select Anchor

Database: All | Instrument #: All | Search Start Date: March 23, 2018 | Search End Date: March 23, 2018

Enter search terms separated by spaces

Case File ID	Last Name	First Name	Date Of Birth	Sample ID	Import Date	Instrument
<input type="checkbox"/>				VDT510_Child		
<input type="checkbox"/>				VDT510_Mother		
<input type="checkbox"/>				1000000012187_L1		
<input type="checkbox"/>				1000000002504_R1		
<input type="checkbox"/>				1000000005044_U		
<input type="checkbox"/>	Selkirk	Brian	02/01/2000	1000000011057_JC		
<input checked="" type="checkbox"/>	Topper	Edwin	02/01/1960	100000008555_JL		
<input type="checkbox"/>				1000000010145_LV		
<input type="checkbox"/>				1000000011425_A		
<input type="checkbox"/>				1000000010676_B		
<input type="checkbox"/>				1000000010074_W		
<input type="checkbox"/>	Selkirk	Robert	01/01/1960	100000008852_H		
<input type="checkbox"/>	Garland	Ginger	03/01/1970	NB2137		

First Prev 2 of 4 Next Last

Select Anchor Back

ANDE FAIRS Add Claimed Relationship

	Last Name	First Name	Date of Birth
Anchor	Topper	Edwin	02/01/1960
Family Member 1	Topper	Jason	01/01/2000
Family Member 2	Topper	Amy	01/01/2005
Family Member 3	Chapman	Sally	03/01/1965

Family Member 1, Jason Topper is the Son of Anchor Edwin Topper

Is Family Member 1, Jason Topper related to any one of the following people? Please check all relatives.

	Last Name	First Name	Related?
Family Member 2	Topper	Amy	<input type="radio"/> Yes <input type="radio"/> No
Family Member 3	Chapman	Sally	<input type="radio"/> Yes <input type="radio"/> No

Jason Topper is the Brother of Family Member 2, Amy Topper

Jason Topper is the [dropdown] of Family Member 3, Sally Chapman

[dropdown] options: Father, Son, Brother, Half Brother, Husband, Ex-Husband, Grandfather, Grandson, Uncle, Nephew, No Relation

Next Save Case

ANDE FAIRS Add Identifying Data - Anchor

Enter the information about sample ID: VDT502Child

1. Name: First [input] Middle [input] Last/Surname [input]

2. Date of Birth: Select Month [dropdown] Select Year [dropdown]

3. Gender: Select Gender [dropdown]

4. Population: Select Population [dropdown]

5. Case File ID #: e.g. Alien Registration, Recipient (WAC), other [input]

Save Next Back Save Case

ANDE FAIRS Results: Claimed Relationship to Anchor

Role	Last Name	First Name	Date of Birth	Claimed Relationship to Anchor	Is Claimed Relationship Verified?
Anchor	Topper	Edwin	02/01/1960		
Family Member 1	Topper	Jason	01/01/2000	Son	Yes
Family Member 2	Topper	Amy	01/01/2005	Daughter	Yes

Note: Double click on a row to View Combined Relatedness Index

Back More Results Claimed Relationship Main Menu

ANDE FAIRS™

BULK FAMILIAL SEARCH



ANDE® FAIRS™ Bulk Familial Search is a secure module within the ANDE® FAIRS™ Windows-based application that provides an easy-to-use interface allowing users with no knowledge of genetics or pedigrees to search a given DNA ID(s) against a database to determine the probability of first or second degree relationships (Parent/Child and Full Siblings).

FAIRS™ Bulk Familial Search module provides a non-technical user with a simple step-by-step interface to be able to search known or unknown DNA IDs against a database of known or unknown DNA IDs to quickly highlight the ranked probability of relationships of interest. Searches can be accomplished within seconds.

The user simply selects the DNA ID(s) to be searched and clicks one button to produce a list of possible first and second degree relationships. The user can then review the detailed report associated with each possible relationship identified. At a later date, the user can review searches and reports previously generated.

This module allows the user to use different population frequency tables as part of the relatedness calculations, and gives them the ability to configure various thresholds that are used.

FAMILIAL SEARCHES CAN BE ACCOMPLISHED WITHIN SECONDS



Rapid DNA Victim Identification Report

Date of Issue :	23 October 2019 09:45 AM
Case ID :	Yellow_102319_0945
Searched Sample :	7411AF.1
Hit Sample :	7411CH.1
CRI :	36,216,344.503
Probability (w=50.00%) :	99.99%

The probability of relatedness, assuming a 50.00% prior probability, is 99.99% as compared to untested, unrelated individuals in the NIST General population.

7411AF.1 (Yellow, Ep Van) cannot be excluded as a first degree (Parent/Child) relative of 7411CH.1 (Yellow, Trung Thanh).

The FAIRS™ Bulk Familial Search module uses the underlying capabilities of the FAIRS™ application to securely import and manage DNA IDs and metadata associated with known and unknown samples. The DNA IDs can be directly imported from the ANDE® 6C Rapid DNA System or from third-party sources.

The FAIRS™ application provides a comprehensive structure of User Management roles to allow for Operator, Admin or Supervisory functions. The application also establishes a secure relationship with any connected ANDE® Rapid DNA™ Instrument to facilitate the import of DNA IDs by local or distant network connection or USB drive.

System Requirements

Windows 7 or 10, i7 Intel Processor, 8 GB DRAM, .NET Framework 4.6 or newer.



Search Type	CRI	Probability	% of Loci Matching	Anchor	Other	
<input type="checkbox"/> Parent/Child	36,216,344.503	99.9999972388158%	100.0%	7411AF.1	7411CH.1	Create / View Report
7411AF.1 (Yellow, Ep Van) cannot be excluded as a first degree relative of 7411CH.1 (Yellow, Trung Thanh).						
<input type="checkbox"/> Parent/Child	1,948,473.252	99.9999486777924%	100.0%	7411AF.1	7411CH.2	Create / View Report
7411AF.1 (Yellow, Ep Van) cannot be excluded as a first degree relative of 7411CH.2 (Yellow, Mong Thu Thi).						
<input type="checkbox"/> Sibling	1,000,743.905	99.999900744351%	100.0%	7411AF.1	7411CH.1	Create / View Report
7411AF.1 (Yellow, Ep Van) cannot be excluded as a first degree relative of 7411CH.1 (Yellow, Trung Thanh).						

Perform Bulk Familial Search

Display DNA IDs on Screen by:

Database: Familial (157) | Population Name: NIST General | Start Date: June 14, 2018 | End Date: September 9, 2019

[Select All](#)

<input type="checkbox"/>	Sample ID	First Name	Middle Name	Last Name	DOB	Agency ID	Gender	Database	Source ID	ANDE Run ID
<input checked="" type="checkbox"/>	7411AF.1	Ep	Van	Yellow	3/30/1958		M	Familial	None	None
<input type="checkbox"/>	7411CH.1	Trung	Thanh	Yellow	10/8/1984		M	Familial	None	None
<input type="checkbox"/>	7411CH.2	Mong	Thu Thi	Yellow	4/8/1981		F	Familial	None	None
<input type="checkbox"/>	7608AF.1	Alfred		Gray	9/27/1988	Buccal swab	M	Familial	None	None
<input type="checkbox"/>	7608CH.1	Charlie		Gray	8/26/2013	Buccal swab	F	Familial	None	None
<input type="checkbox"/>	7608CH.2	Miracle		Gray	3/17/2015	Buccal swab	F	Familial	None	None
<input type="checkbox"/>	7608CH.3	Casey		Gray	5/13/2016	Buccal swab	M	Familial	None	None
<input type="checkbox"/>	7608MO.1	Corletta		Gray	11/7/1990	Buccal swab	F	Familial	None	None
<input type="checkbox"/>	Tuyet	Tuyet	Van Thi	Yellow	1/1/1960		F	Familial	None	None
<input type="checkbox"/>	7512AF.1	Tafai	Enade	Green	9/27/1976	Buccal swab	M	Familial	None	None

First Prev 1 of 11 Next Last

Selected DNA ID: 7411AF.1 | Select Database(s) to Search: All

Perform Bulk Familial Search
Review Case
Return to FAIRS Home

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