

GPS-ibd makes relationship analysis simple



Paternity, ancestry and kinship analysis – Relationship analysis made simple

GPS-ibd is an automated relationship testing application that can dramatically improve the speed, efficiency and cost-effectiveness of your laboratory processes.

GPS-ibd is so easy to use and feature-rich that an experienced DNA analyst using the system can analyse and report a paternity, immigration or other relationship testing casework problem in just a few minutes.

Easy to set up, easy to use

Like all our DNA Expert Software Solutions, GPS-ibd is built to the highest possible scientific and technical standards, yet is specifically designed to be easy to use.

Through a clear graphical user interface, analysts can undertake simple or complex relationship analyses by creating hypothetical pedigree trees using a 'drag and drop' technique.

With just a few clicks of the mouse they can then add in DNA data. They can also determine exactly how the analysis will be carried out, as the application can account for potential mutations and allow for rare alleles (size-bias) and Fst corrections.

GPS-ibd can import DNA profiles from commercial DNA interpretation software or from a MS Excel spreadsheet.

Enjoy a rich set of features

To make life even simpler for analysts, GPS-ibd already contains a palette of pedigree patterns for common relationship problems – paternity, single parent and sibling analysis – which can be edited or combined to investigate more complex relationships.

The system is supplied with every common STR marker system built in and the 'gene pool' data for each of these has already been generated for UK and US populations. The user can modify or edit this data within the application to create a customised laboratory tool.

In addition, GPS-ibd includes an advanced report generation tool that documents all stages of the analysis. Users can also request laboratory-specific statements for court or clients which the system will create in a matter of seconds.

Reap the benefits of GPS-ibd

Developed by forensic scientists for forensic scientists, GPS-ibd can deliver a wide range of benefits to your organisation:

- Lets you create your own laboratory specific system using the in-built data
- · Improves the productivity and efficiency of your lab
- · Reduces the unit cost of your DNA relationship testing
- Speeds up analysis and reporting processes
- · Allows for easy analysis of the most complex relationships

For more information contact

forensics@vidavia.com

Re: Name of Alleged Child

Ref. No. of Proceedings: Case Reference

Case No.: Case Number

 GPS abd User Nama, hereby declare that I have carried out an analysis of the samples provided by the persons named in this report, within a laboratory of GPS-lod User Organisation, that meets with government approved standards, for the purpose of Part III of the Family Reform Act, 1999.

Summary of Results

The results of the DNA Profiling tests carried out provide evidence to support the assertion that Name of Alleged Father and Name of Alleged Mother are the natural parents of Name of Alleged Child

Sample Receipt

On dates specified the following buccal swab samples were received at the GPS-ibd User Organisation. The unique numbers shown have been allocated to these samples.

Samples Table	Date received	Name	Alleged relationship
Sample No.			
Test Sample No.	Test Date	Test Name	Test Relationship
Test Sample No.	Test Date	Test Name	Test Relationship

Purpose of Examination

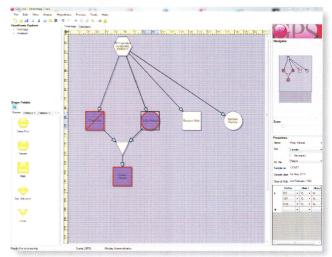
In this case I have been asked to test the buccal swab samples to assist in determining whether or not Name of Alleged Fathet, and Name of Alleged Mother, are the natural parents of Name of Alleged Child.

Clients are advised that the identification of the buccal swab samples received for testing is based on information supplied with the samples.



Highly flexible report template system for custom report generation

An intuitive and easy-to-use desktop for building and manipulating pedigree trees



Comprehensive technical reporting

DNA Profiling Data

Multiplex = sgmplus for multiprofile 20081010, F et = 0, Adjustment = Size Bias, Mutation = No.

Name Fred Film: Molly Malone Charlle Mai Sample No. 123466 123467 123468 D3 11,12 13,14 11,14 VW 11,12 13,14 11,13

6 11, 12 13, 14

Genepool = RC1 sgmplus multiprofile 20081010, F_{S1} = 0, Adjustment = Size Bias, Mutation = No

Allele Frequencies Genepool: RC1 sgmplus multip Locus Allele (frequency)

D3 11 (0.00227272999472918) , 12 (0.00227272999472916) , 13 (0.00681817997246981) , 14 (0.132954999804497) , x (0.855682015419006)

7VW 11 (0.00227272999472916), 12 (0.0013633999150574), 13 (0.00227272999472916), 14 (0.098638016845703), x (0.895455002784729)

11 (0.28863599896431), 12 (0.28863598896431), 13 (0.1875), 14 (0.0295455008745193), x (0.205815994557881)

x' - frequency of remaining alleles re. (1... (the sum of frequencies of the displayed alleles))

Hypotheses, probabilities and Likelihood Ratio Hypothesis 1 * Parentage, Hypothesis 2 * Unrelated

Locus Probability (Hypothesis 1) Probability (Hypothesis 2) Likelihood Ratio

 Locus
 Probability (Hypothesis 1)
 Probability (Hypothesis 2)
 Likelihood F

 03
 4.6872-68
 1.3319E-11
 213.875

 VW
 5.80295E-10
 2.99791E-14
 24000

 D16
 0.000461524
 0.000196619
 2.90871

 Total
 1.246303374E-21
 5.24247598595461E-29
 2.30271



Multiple processing options available via menu or keyboard shortcuts

Find out more







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Gene Pool Systems is a division of VidaVia.

VidaVia is a leading developer in forensic software solutions.

VidaVia's forensic solutions expertise includes:

- DNA Expert Systems
- · Familial Search
- · DNA Database Systems and Integration
- · Fingerprint Workbenches
- · Ultra-High Resolution Image Manipulation & Markup
- · Shoemark Databases

Gene Pool Systems also provides:

- · Installation and training
- · Support and maintenance
- A range of consultancy services in relation to DNA processing and interpretation

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