

Club Managed DNA Parentage

Genetic Testing Services for Canine Professionals



European Distributor:



Software:



Laboratory Services:



Program Goal

The Club Managed Parentage program is designed to give clubs the ability to independently certify parentage and register pets utilizing the latest DNA technology. This program provides clubs with materials and tools that enable them to:

- Collect DNA samples
- Record identifying information about each dog
- Execute Proof of Parentage tests
- Provide and internationally compatible DNA service



Benefits



Choose DNA

- Only unalterable form of Pet Identification
- Non-invasive for the canine
- Promotes breeding integrity
- Internationally recognized
- Additional revenue source for clubs



Experience a Full Featured Program

- **Service**

- Dedicated relationship manager
- Worldwide affiliates
- Competitive pricing
- Free training
- Program rollout support

- **Laboratory**

- Swift processing time
- Accuracy greater than 99.9%
- Lifetime DNA storage
- Re-run and Re-Swab service

- **Software**

- Lifetime membership for Registered Pets
- No membership fees
- Unlimited amount of data storage
- International compatibility
- Customized Certificates
- Free software upgrades
- Easy-To-Use tools
- Patent Pending DNA Analysis tools



Promote Your Club

- All public profiles display
 - **Parentage Certification**
 - **Club affiliation**
 - **Pedigree**
- Clubs receive Public Profiles
 - **Contact information**
 - **Websites**
 - **Number of registered dogs**
- Printed materials contain club-branded images and messages.



Secure Your Data

- Clubs manage the primary identification information for each member dog
- Owners/breeders manage their own information
- Only the Club creator of a record can edit that record ensuring an accurate history of the dog
- Alvalley provides a contract to the parent club of each country to sell and promote the DNA Proof of Parentage Test



Invest in your future

- Cost effective DNA collection materials and DNA processing
- Registered dogs' DNA is permanently stored in the system and is available for future testing
- Only new puppies require new DNA samples



From the United States Patent Office

United States Patent Application: 20100211532

Kind Code: A1

Irion; Dawn ; et al.

August 19, 2010

Computerized analysis of genetic profiles via internet portals

Abstract

A computer-implemented process and apparatus for storing, accessing, and comparing genetic profiles in a form suitable for amateur human analysis is provided. The process includes imputing and storing data that represent individual genetic profiles which have been created using conventional genetic analysis processes. The process and apparatus allow remote consumer access via the Internet to genetic profiles owned by consumer which can then be compared against other genetic profiles according to a genetic profile comparison process selected from several available processes. The resulting output of the process is a summary of the genetic profile comparison which answers the question posed by the consumer.

Inventors:

Irion; Dawn; (Knoxville, TN) ; Boyd; Michael; (Knoxville, TN) ; Jones; Kevin David; (Knoxville, TN) ; Boyd; Mark; (Knoxville, TN) Correspondence Address: **Law Office of Van R. Irion, PLLC 9040 Executive Park Drive, Suite 223 Knoxville TN 37923 US** Assignee: **BioPet Vet Lab**

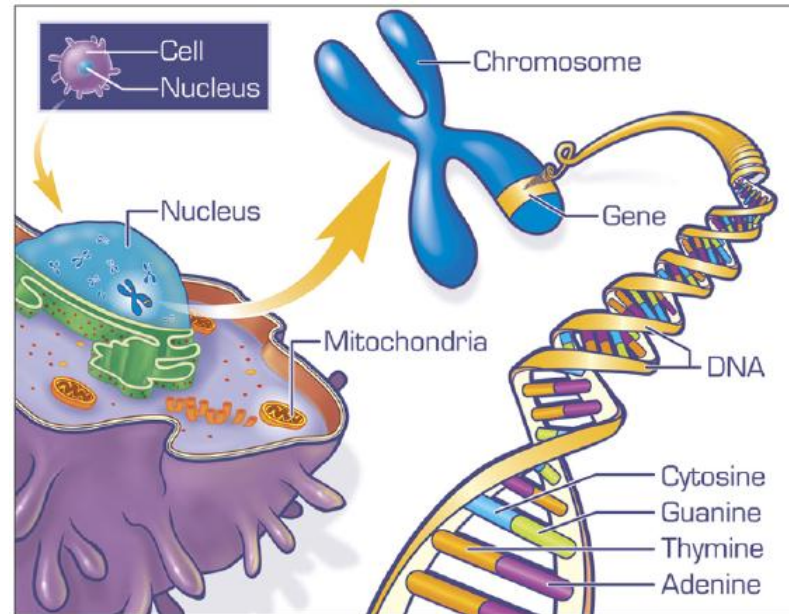
Serial No.:**658405** Series Code:**12** Filed: **February 10, 2010** Current U.S. Class:**706/11; 702/19; 706/13; 706/54** Class at Publication: **706/11; 702/19; 706/54; 706/13** International Class: G06N 3/12 20060101 G06N003/12; G06N 5/02 20060101 G06N005/02

How it works



How DNA is used for Parentage

- Almost every cell in a dog contains DNA
- Each of these cells has one complete copy of the DNA that is “code” for that dog
- Rubbing off some cells from the inside of the cheek gives us enough DNA to compare that dog to it’s parents.



How DNA is used for Parentage

- DNA Extraction
 - Cheek cells are placed in a solution
- PCR
 - DNA is amplified (copied 60 billion times) specific parts of DNA are targeted using BioPet's designed primer.
- Reading the DNA
 - A machine called an Analyzer reads the targeted DNA segments
- Genotyping
 - Converts raw data into numerical values used in analysis
- Checking Genotypes
 - Automated and manual processes are used to verify data
- Format and upload
 - Data is uploaded to the DNA World Pet Registry for DNA Proof of Parentage testing

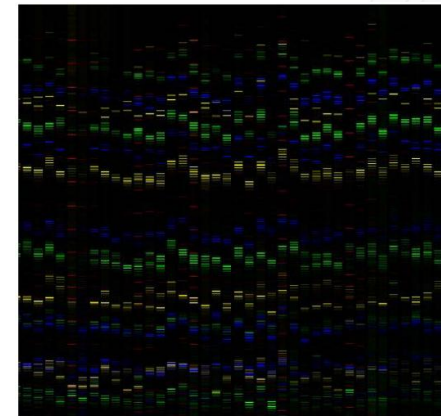
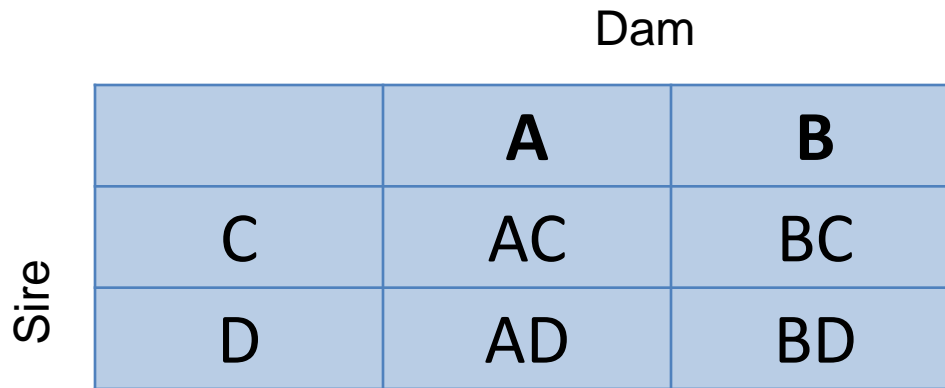


Image of DNA fragments

How Genetic Parentage Matching Works



		Dam	
		A	B
Sire	C	AC	BC
	D	AD	BD

- Each Parent contributes one pair of genotypes
- A puppy must have one of these genotypes from each parent
- If a genotype is found that was not contributed by one of the parents, the puppy is disqualified as an offspring of these two parents
- DNA Proof Of Parentage compares the 4 possible combinations each of these markers

The BioPet Vet Lab Marker Panel

- 16 microsatellite markers are used for typical DNA Proof of Parentage*
- If additional analysis is required BioPet has available
 - 7 Additional ISAG standard markers
 - 43 BioPet custom markers
- Compatible with commonly used panels
 - 14 of 16 are in the AKC marker panel**
 - 6 of 16 are in the ISAG marker panel**

*raw marker data can be made available to a club upon request

**Each lab reports data on these markers slightly differently

Club Managed DNA Parentage

How the Club Program works

Club

- Collect DNA
- Microchip
- Verify Paperwork
- Enter Pet Data

Lab

- Extracts DNA
- Performs Quality Assurance Tests
- Upload DNA Profiles


Club

- Manage pets
- Execute Proof Of Parentage tests
- Print results

Breeder/Public

- View DNA test results
- Display public pet profiles

Club Managed DNA Parentage – Online Club Profile




**DNA World
Pet Registry**
www.DNAWPR.com

Help | [Terms and Conditions](#) | [Privacy](#) | [About](#)

Member Login
Username Password
 Remember me on this computer
[forgot password?](#) | [Did not get your New Account Email?](#)






Select Language


Powered by  Google™ Translate

[Home](#) [MyPets](#) [PetCare](#) [Dog Resources](#) [Browse Pets](#) [Parentage](#) [BreedID](#) [Join](#) [Help](#) [Log Out](#)


Dog Resources

GeneralTip: This is the 3rd tip

-  **Breed Information** - Learn more about your favorite breed of dog.
-  **Dog Parks** - We've got 99 Dog Parks in 6 states listed in our database.
-  **News Feeds** - Read dog news from around the web.
-  **Clubs** - See details about our participating clubs.
-  **Breed Sponsors** - See details about our participating Breed Sponsors



The Dog Club



STATISTICS:

Customers:	0
Registered Dogs:	0
DNA Parentage Certified:	0
Microchipped:	0

[Browse Group dogs](#)

DESCRIPTION:

The Dog Club is a fictional club used by the DNA World Pet Registry for system demonstration purposes. This club can act like any other club in the system. It's dogs however are not real.

DETAILS:

Name:
The Dog Club

Address 1:
123 Main St

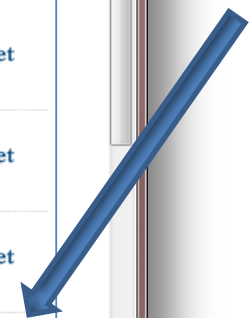
City:
knoxville

State:
TN

Club Managed DNA Parentage – Public Pet Listing

The screenshot shows the DNA World Pet Registry website. At the top left is the logo for DNA World Pet Registry with the URL www.DNAWPR.com. To the right is a 'Select Language' dropdown menu and a 'Powered by Google Translate' logo. A navigation bar contains links for Home, MyPets, PetCare, Dog Resources, Browse Pets, Parentage, BreedID, BioPet, BTI, Admin, Help, and Log Out. Below the navigation bar is a large 'Browse Pets' heading with a magnifying glass icon. A 'TrainingTip' states: 'Starting your puppies training around 6 weeks old will yield the best results'. On the left side, there are three categories: 'Browse Pets' (Browse through all the pets we have in our database.), 'Available Pets' (Pets shown here are For Sale or Adoption.), and 'Lost and Found' (The pets shown here are missing and their owners would love to find them.). The main content area is titled 'Browse All Pets' and includes a search filter, a checkbox for 'Show pets with photos only', and pagination for 'All pets: viewing pets 51 through 60'. A list of six pet entries is shown, each with a 'No Photo Available' icon, the pet's name and ID, location and country, a 'More...' link, and a BioPet logo. The entry for 'WINSTON (ORTIZ) MEX FCI - DN0003870' has a red BioPet logo with a dog icon. A blue arrow points from the text 'Club Logo displays next to all club dogs' to this red logo.

Club Logo displays next to all club dogs



Club Managed DNA Parentage – Public Pet Profiles

- Examinar Mascotas** - Consulta todas las mascotas que tenemos en nuestra base de datos.
- Mascotas Disponible** - Se aceptan animales se muestran están en venta o adopción.
- Perdido y Encontrado** - Los animales domésticos se muestran se han perdido y sus dueños gustaría encontrarlos.

Perfil de mascotas
para ANONIMO [Volver a resultados de la búsqueda](#)

En línea de confirmación de paternidad de ADN

Fecha Probado: 11/08/2010 12:43:00 PM

ANONIMO
Número de DN: DN0003848
es el fruto de ADN certificados de:

Pres Sakanarra Molly	Padre Nicola Eastman's
--	--

Número de DN: DN0003820 Microchip 226C2C541D Registro Original: Federación Canófila Mexicana, AC LOE1845880	Número de DN: DN0003819 Microchip: 146527215A Registro Original: Federación Canófila Mexicana, AC FCM02644
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Este perro no tiene descendencia ADN certificado

No Photo Available
ANONIMO no tiene fotos

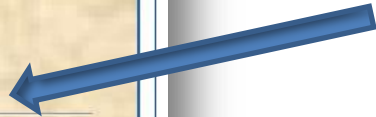
Primaria de identificación
Número de DN: DN0003848
Nombre: Anonimo
Fecha de Nacimiento: 05/28/2010
Sexo: Hombre
Pres: MOLLY SAKANARRA
Padre: PENDIENTE
Original Número de Registro: Federación Canófila Mexicana, AC PENDIENTE
Microchip: 151574373A
Tatuaje: *no especificado*
Información proporcionada por: Federación Canófila Mexicana, AC

Clubes y Asociaciones

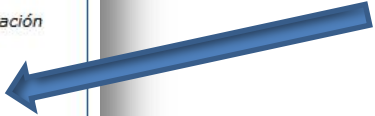
Federación Canófila Mexicana, AC

Especies y razas
Especie: Perro
Raza:
Norwich Terrier

Online DNA confirmation



Club information will appear for each dog



Club Managed DNA Parentage – Administration Tools

The screenshot shows a web browser window displaying the DNA World Pet Registry administration page for 'The Dog Club'. The page features a navigation menu with options like Home, MyPets, PetCare, Dog Resources, Browse Pets, Parentage, BreedID, BioPet, BTI, Admin, Help, and Log Out. The main content area is titled 'Administration for The Dog Club' and includes a search bar, a sidebar with navigation options, and a dashboard with various statistics and tools.

Navigation Menu: Home, MyPets, PetCare, Dog Resources, Browse Pets, Parentage, BreedID, BioPet, BTI, Admin, Help, Log Out

Account Information: Your account can perform administrative tasks for more than one organization/company. Switch To [Dropdown]

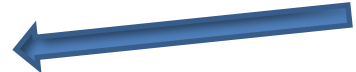
Dashboard Statistics:

Pets:	3
Customers:	1
Customer Service:	resolved
	2
Sample Status Summary:	
DNA Sample Received	1
Pet Profile Created	2
Parentage Testing and Results	
Results to Print:	0
Tests to run:	0

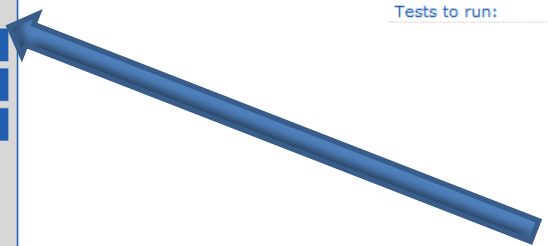
Navigation Sidebar:

- GENERAL TOOLS
 - Dashboard
- CUSTOMERS
 - Add Customers and Pets
 - Search
- CLUB TOOLS
 - Run Parentage Test
 - View Tests to run
 - View Test to print

Quick view of club statistics



Manage users and run parentage tests



Club Managed DNA Parentage - Custom Printed



Certificado de ADN

Huberts Patxi

DN0003828

Fecha de Nacimiento: 5/17/2010

Microchip: 15157447A

No. de registro de FCM: Pending

Es descendiente de

Madre

Huberts Queen of Hearts

DN0003825

Fecha de Nacimiento: 5/17/2010

Microchip: 132449617A

No. de registro de FCM: FCMR8383-B

Padre

Rockwell Boom-Boom At Hurburts

DN0003826

Fecha de Nacimiento: 5/17/2010

Microchip: 151355224A

No. de registro de FCM: FCMQ8685



BioPet
Vet Lab

Resultados disponibles en el



**DNA World
Pet Registry**

www.DNAWPR.com

4/13/2010

Fecha certificada

Amey Burnett

Director of Laboratory Services
BioPet Vet Lab

Dr. Jose Luis Pyro

Presidente Federacion
Canofila Mexicana, A.C.



Club Managed DNA Parentage

Getting Started

1. Assign relationship manager
2. Complete Contract
3. DNA World Pet Registry Account Creation
 1. Users (club administrators)
 2. Club Information
 3. Preferred Shipping Method/Rates
 4. Custom Documents and Certificates
4. Training
5. Define Rollout Plan
 1. Establish DNA usage goals
 2. Promote DNA benefits to breeders
 3. Define collection methods
6. Enjoy the benefits of DNA Proof of Parentage



Club Managed DNA Parentage

Thank you



Please contact us with any questions:

Distribution / Sales

Alvalley LLC

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Urbana, IL 61802
Phone: 765-4919796
USA



Alvalley Ltda.

Avenida 8 Nte. # 16 N 45
Tel. 57-2-6601255/56
Cali - Colombia

Laboratory

BioPet Vet Lab

6701 Baum Dr., Suite 110
Knoxville, TN 37919
865-546-2862



Software

DNA World Pet Registry

c/o Boyd Tech Inc.
6701 Baum Dr., Suite 105
Knoxville, TN 37919
865-824-3362

