




The Most Competitive Donor Gamete Bank Worldwide

## About Ovobank



**Ovobank is the world's leading gamete bank**, established in 2012 to provide a solution for assisted reproduction clinics and their patients in the search for and selection of donors for their treatments. **Ovobank** optimises fertility treatments thanks to our high-quality gametes and a highly effective batch delivery system. This is endorsed by the fact that over 600 centres worldwide have already placed their trust in us.



**Ovobank collaborates with over 600 fertility clinics around the world**

**Ovobank** has state-of-the-art facilities and advanced equipment which enable us to provide top quality services from our laboratories.

We have several donation centres in strategic locations around the world.



## Why choose Ovobank?

- ✓ We guarantee the highest quality vitrified gametes.
- ✓ Our rigorous donor screening process.
- ✓ Ovotracker, our pioneering system to monitor and track gametes during transit.
- ✓ An extensive donor pool with over 150 phenotypic varieties.
- ✓ Our team of experts specialising in assisted reproduction and cryopreservation.
- ✓ Our quick response to requests, thanks to Ovotracker and the use of vitrified oocytes.



## Collaborate with Ovobank: Getting Started

- 01 Get in touch with our team by emailing [info@ovobank.com](mailto:info@ovobank.com), or by filling out the contact form on our website: [www.ovobank.com](http://www.ovobank.com)
- 02 Once the collaboration contract has been signed, we will create a user name and password so you can access our **Ovotracker** system, where you will be able to complete the application form with the physical and immunological characteristics of the recipient couple.
- 03 **Within 24/48 hours you can receive your order** of eggs or sperm. In addition, thanks to Ovotracker, you will be able to monitor your shipments in real time.

# The 3 Keystones of Ovobank



## Diversity

**Ovobank** has a number of strategically located donor centres, and our diverse donor pool includes over 150 phenotypic varieties.



## No waiting lists

Donors are just a few clicks away, thanks to our extensive database. Clinics can schedule their patients for treatment at the time of their choice.



## Success rates

We guarantee a specified number of mature eggs and top quality IUI-ready sperm.

# Quality and Ethics

At **Ovobank**, we understand that quality must be one of the core principles behind all our decisions and actions.

Our mission is to guarantee the quality and traceability of our work. To this end, we have obtained the **ISO 9001:2015 certificate** for the integral management of egg and sperm donor banks and the **UNE 17907:2013 certificate** that

accredits an excellent quality management system for assisted reproduction laboratories, both audited by **BUREAU VERITAS**.

We have also obtained a **quality certificate** from the prestigious Italian entity **Artemide S.R.L.** after successfully passing the audit related to the process of egg donation and their subsequent distribution.



## Ovobank training

**Ovobank** also provides our Collaborating Centres with continued training through free workshops in order to perfect techniques and optimise results using our vitrification, thawing and endometrial preparation protocols.



**Continued  
training**



**Protocol  
implementation**



**Optimisation of  
results**



## Innovation and 24/7 Support

Our R&D&I team has developed multiple systems to reinforce the security of our gamete shipments and improve the success rates of our Collaborating Centres.

**Ovoscan, Ovotrack and Ovotracker** are the three tools that provide complete traceability of our egg and sperm shipments. Our coordination team offers training sessions on how to use and take full advantage of these platforms

We also provide professional training in our laboratories with our **Ovolearning** courses, which instruct embryologists on how to perfect various techniques, including embryo biopsy and ICSI, and on laboratory quality control.



# Ovobank donors

Our female donors are between 18 and 33 years old, and our male donors are under 35 years old. All donors must be in good physical and mental health. To guarantee this, they undergo an extensive series of **psychological, serological, genetic, andrological and urological tests**.

Only 30% of female candidates are deemed eligible to become donors, and in the case of men, 19%.



## Legislation

Ovobank complies with Spanish legislation on Assisted Reproduction, Law 14/2006, as well as Royal Decree Law 09/2014 and 09/2017 (transpositions of the respective European directives).



## Donation

The donation process takes place within our reproduction clinics to minimise any possible risks. Then our expert laboratory staff treat the extracted oocytes for vitrification.



## Treatment

The aim is to provide guidance and advice to donors throughout the donation process. For female donors, their medication is adjusted based on their hormonal study, BMI, and other relevant characteristics.



## Exclusion criteria

Only 30% of Ovobank's candidates for egg or sperm donation are eventually deemed suitable, due to the exhaustive tests they undergo.



## Initial evaluation

Potential donors must pass an initial evaluation and several filters before starting the process. In addition, family and personal history, including psychological and transmissible diseases, are analysed.



## Medical check-up

The medical check-up is conducted by our specialised team and includes a hormonal study, a complete gynaecological examination, and blood and serology tests.



## Blood tests

Blood tests are a fundamental step in this process, including pathological anatomy, haemogram, biochemistry, coagulation, serology, real-time blood tests, and genetic studies.



## Psychological study

Through an in-depth personal interview and a psychological study conducted by our specialists, we can determine whether there are any psychiatric or psychological disorders or unhealthy habits.

## Genetic studies

In our constant quest to optimise the safety levels of donated gametes, **Ovobank** carries out recessive mutation carrier studies\* (Genetic Compatibility Test) on new donors to minimise the transmission of genetic diseases to children born from our donors' gametes.

These tests allow us to exclude candidates with any of the following conditions from the programmes:

✓ Cystic Fibrosis

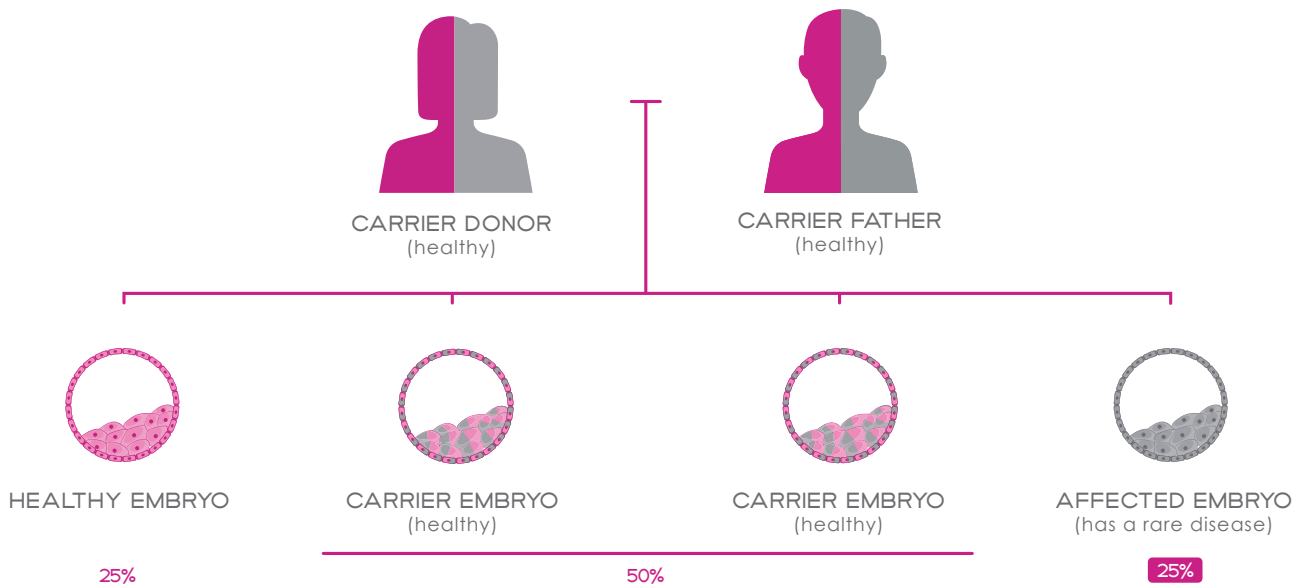
✓ Beta Thalassaemia

✓ Alfa Thalassaemia

✓ Spinal Muscular Atrophy

✓ Non-syndromic deafness

✓ X-linked diseases (egg donors only)



Additionally, on request, we can conduct a **genetic compatibility test** between donors and patients. This involves examining genetic information to confirm the absence of any of the studied recessive mutations, thereby reducing the risk of passing on a genetic disease to their children.

The vast majority of our donors have been

studied on an "Exome" basis, which offers the possibility of universal matching with the various existing genetic panels available on the market.

If necessary, we can add any other diagnostic study at the request of our Collaborating Centres.









# Oocyte Vitrification

**Vitrification** is currently the most effective method of cryopreserving oocytes, with a survival rate of up to 97%. This procedure is simple and safe, and can be performed in all assisted reproduction clinics, as long as the thawing

protocols established by **Ovobank** are followed.

Vitrification has revolutionised the field of cryobiology, allowing for successful **cryopreservation of both oocytes and embryos.**

Fresh Eggs 	vs	 Vitrified eggs
Delays due to the donor search, selection protocols, etc.	<b>Time</b>	No delays
Synchronisation with recipient required	<b>Cycle preparation</b>	No synchronisation required
Limited	<b>Donor pool</b>	Large donor pool
Uncertain	<b>Mature oocytes obtained</b>	6 mature oocytes every time
Around 15%	<b>Cycle cancellation rate</b>	0%
Limited	<b>Availability</b>	100%
High cost due to tests, lab work, medication, donor compensation, etc.	<b>Costs</b>	Significant cost reduction
Waiting list	<b>Patient recruitment</b>	Increases due to reduced treatment time



*By implementing the Universal Warming Protocol, we achieve survival rates of 97%.*

## Sperm freezing

**Sperm freezing** is a process that consists of adding cryoprotective agents to the semen sample to prevent damage to the inside of the spermatozoa, with the aim of **preserving them in liquid nitrogen at a temperature of  $-196^{\circ}\text{C}$** . Sperm freezing makes it possible to preserve a man's fertility and to have healthy and fertile sperm that can be used in assisted reproduction techniques.

Once the semen sample has been frozen, it can be stored for as long as necessary without its quality being affected. **Ovobank** follows a rigorous process to ensure that **high-quality frozen semen straws** are sent to patients who require donor sperm for their assisted reproduction treatment.



As a guideline, the minimum semen parameter values for the acceptance of semen donors should be:

- a) Volume  $\geq 1.5$  mL
- b) Sperm concentration  $\geq 40 \times 10^6/\text{mL}$
- c) Progressive motility  $\geq 50\%$
- d) Normal morphology  $> 3\%$
- e) Leucocytes  $< 1 \times 10^6/\text{mL}$ <sup>(7,8)</sup>



## Shipping Methods

**Ovobank** uses special boxes that have been designed in our facilities by our R+D+i team to transport cells. They provide extra protection for the **Dry Shipper** containers where the eggs and semen straws are transported.



### Standard Courier Service

An external courier company collects the personalised Ovobank boxes and delivers them to the Collaborating Centre within a maximum of 24 to 48 hours.



### Air Lab2Lab

The boxes are transported by Ovobank personnel in the aircraft cabin, thereby avoiding X-rays, and are hand-delivered from our laboratory to the Collaborating Centre's facilities.



### Land Lab2Lab:

This method involves land shipments using a special vehicle adapted to transport cryopreserved cells. The boxes are hand-delivered by Ovobank personnel.

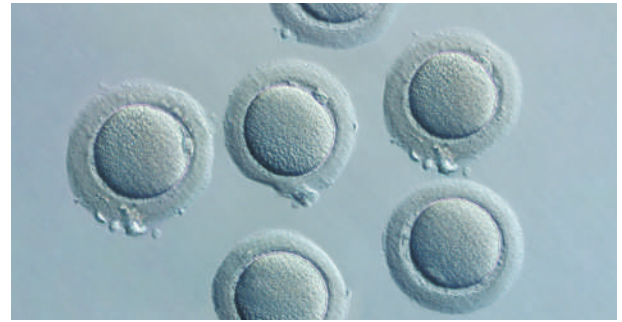
**Security, traceability, and control in your shipments.**



## Egg batches

**Ovobank** can supply Collaborating Centres with different sizes of egg batches, ensuring an efficient response to all their patients' needs. We only send **vitrified eggs in Metaphase II**, after thorough scrutiny to guarantee optimal morphological quality.

*\* For embryo shipments, consult conditions*



### Mini-batch



3 vitrified eggs

### Batch



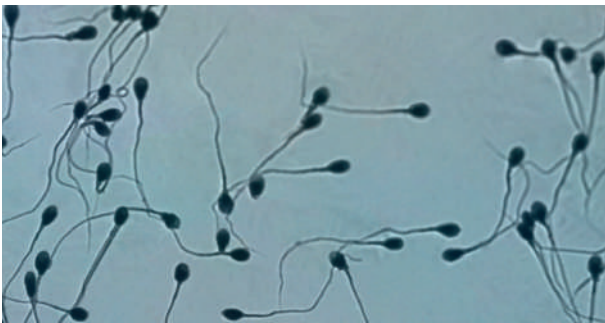
6 vitrified eggs

### Maxi-batch



8 vitrified eggs

## Semen straws



**Ovobank** supplies two types of **high-quality semen straws** that can be shipped anywhere in the world, thanks to the freezing technique carried out in our laboratories.

*\*Special samples available: straws that have been tested using the FISH technique to discard those spermatozoa with anomalies. Additional techniques available on request.*

### ICI straw



Unwashed Semen

Semen sample with a minimum of **20 million spermatozoa** with progressive motility.

### IUI-READY straw



Washed Semen

Direct use samples (READY-TO-USE) **6 million spermatozoa** with progressive motility

## Tools that mark the difference

**Ovobank** provides our Collaborating Centres with state-of-the-art tools to streamline and optimise their daily work.

**Ovolabel** and **Ovoscan** minimise the risk of human errors and streamline the cryotop identification process. Once the **Ovobank** shipment has been received, all the destination clinic personnel have to do is scan the barcodes of each item to verify that the contents are correct.



Using the scanner to read the barcodes on the cryotops **makes the verification** of the shipment contents a fast and simple process.



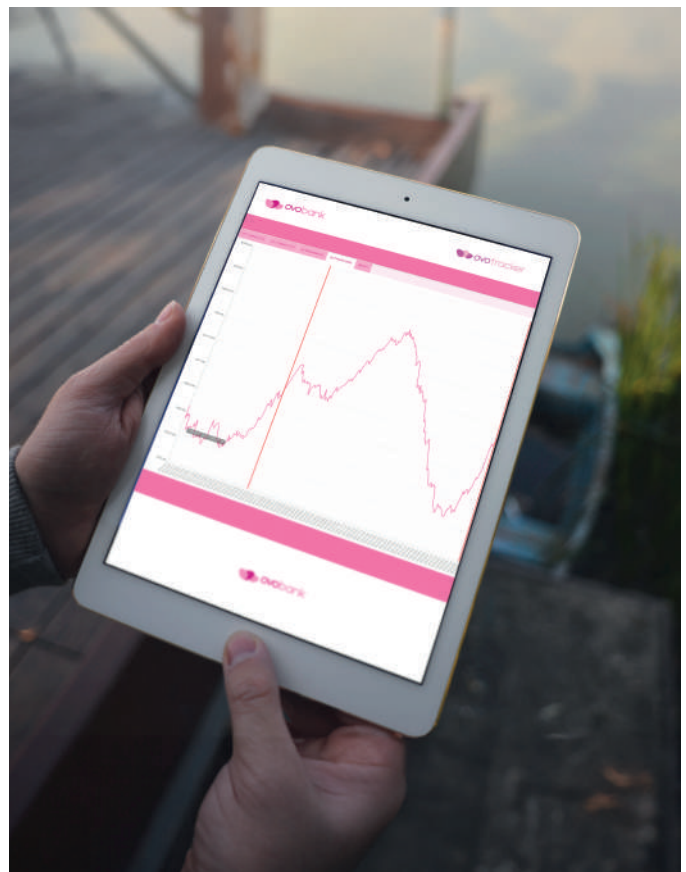
This system **automatically prints out** all the labels needed for clear, **error-free cryotop identification.**



**Ovotracker** is an advanced telematic system created by Ovobank's R&D&I department. It monitors each stage of the process the gametes go through, from the moment the request is received until the samples reach their destination.

Thanks to this tool, it is possible to **obtain precise information on important parameters** such as temperature, humidity, atmospheric pressure or the GPS position of each shipment, fully automating the process and minimising the possibility of human error.

Our Collaborating Centres can use the Ovobank website to order all the samples they need and download the relevant reports, while Ovotracker guarantees the safety of your shipment in real time.





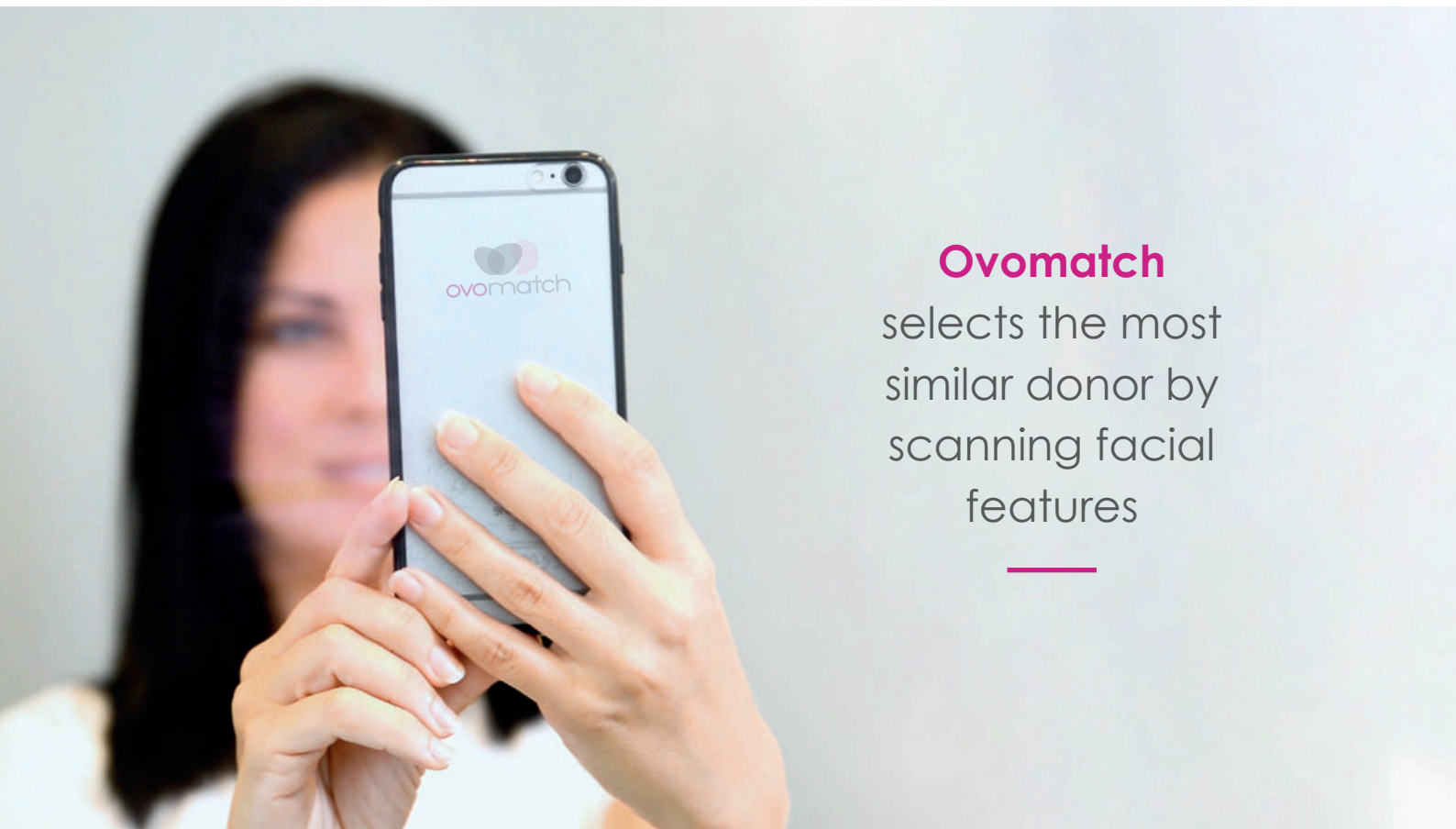
When a patient decides to undergo **egg donation treatment**, the most common concern is whether the donor will look like them.

Our team carries out matching work that takes into account phenotypic traits, blood type, and now, with the addition of facial recognition technology, multiple facial points are scanned and

compared using a **mathematical algorithm** to find the most similar donors in our extensive database.

Anonymity is guaranteed, and the donor is chosen based on an objective process. In addition to sharing the same blood group as the recipient patient, the selected donor will also have a high facial resemblance.

## ***Facial recognition technology in Ovobank egg treatments***



### **Ovomatch**

selects the most similar donor by scanning facial features





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### Group Headquarters Awards



European awards in medicine 2021  
Medicine Category



Isaac Peral National Research.  
Science and Innovation Awards 2021



A Tu Salud Award 2019  
Reproductive Medicine and Fertility Category



Andalucía Excellence Award 2018  
Medicine Category



National Medical Awards 2018  
Reproductive Medicine Category



National Medical Awards 2019  
Reproductive Medicine Category