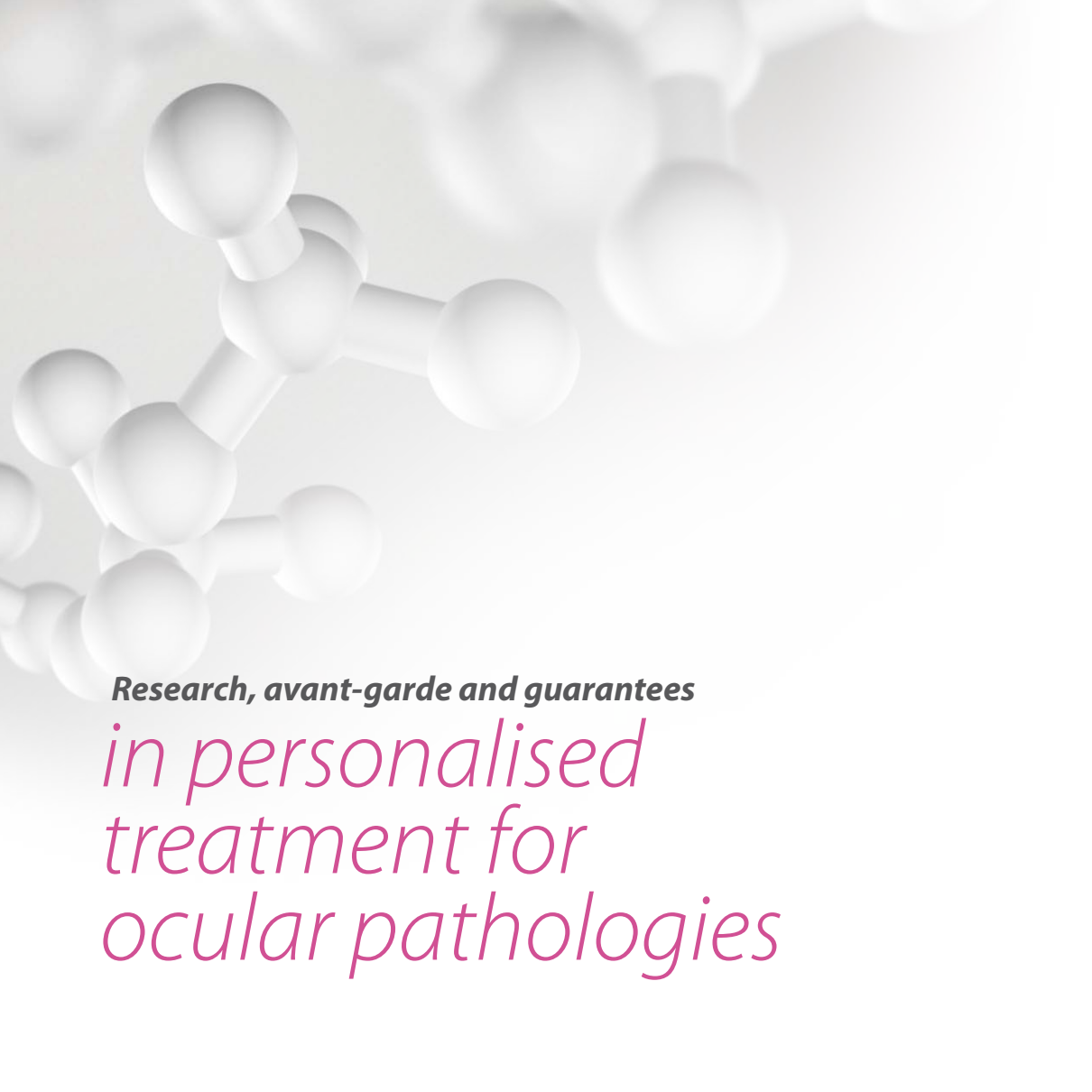




# *Regenerative medicine*

*for treating the  
ocular surface*

TREATMENT WITH PLASMA RICH  
IN GROWTH FACTORS



***Research, avant-garde and guarantees***

*in personalised  
treatment for  
ocular pathologies*

## ***Investigación***

**Regenerative medicine aims to** use our body's own resources to regenerate tissues and recover damaged functions.

Along these lines, the therapeutic use of plasma rich in growth factors in different medical fields such as dental medicine, trauma, dermatology, ophthalmology, sports medicine and cosmetic medicine and many others has been developed.



## ***Guarantees***

**The technology of plasma rich in growth factors that it is used at this institute is backed by over a hundred scientific articles** in specialised journals and hundreds of presentations in national and international conferences.

In addition, **the staff of this institute are duly qualified and accredited for the use of this product, having received specific training** in BTI technology with plasma rich in growth factors.

# What is it?

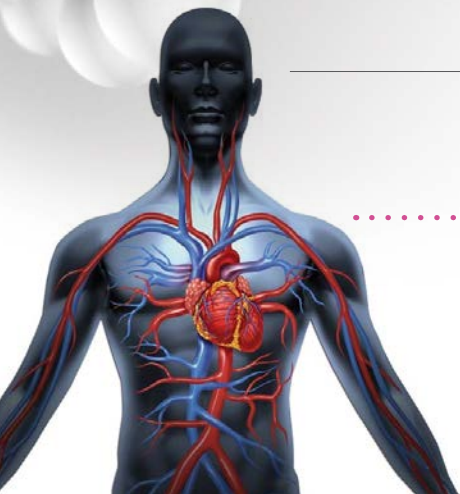
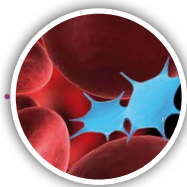
**What does the technology related to plasma rich in growth factors consist of?**

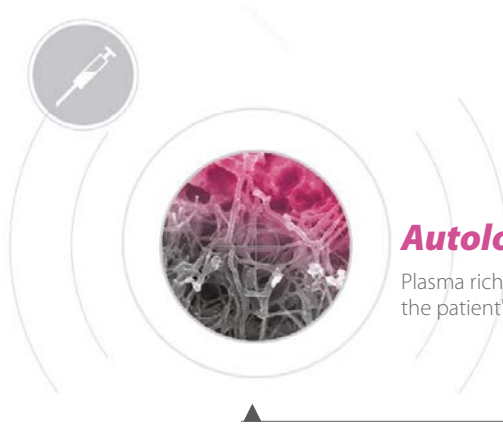
Nowadays it is possible to increase the ability of the human body to heal itself. Through the technology of plasma rich in growth factors **it is possible to isolate, concentrate and remove proteins from the blood that perform an essential function in the repair and regeneration processes of the tissues.**

## Regeneration process

### **Our body**

Our blood contains plasma and millions of platelets, responsible for the repair of tissues.





## ***Autologous technology***

Plasma rich in growth factors is obtained from the patient's own blood.

**Growth factors** are proteins that are naturally found in the blood plasma and inside platelets. These growth factors are involved in the processes related to tissue regeneration.

By applying plasma rich in growth factors **it is possible to reactivate and increase the natural repair activity of the ocular surface** with the subsequent therapeutic benefits in diverse ocular pathologies.



### ***Growth factors***

They are released when the platelets are activated and have the ability to stimulate self-repair in tissues.



### ***Natural regeneration***

The application of growth factors results in an improvement of the eye's general state of health.

# Benefits

*of the technology of plasma rich in growth factors*

The ability of plasma rich in growth factors to activate tissue regeneration counteracts the functional deficits of the eye, improving the structure and lubrication of the ocular surface.

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## ***Regenerates in an orderly, homogenous and safe way***

It stimulates the proliferation of the cells and their migration to the various tissues that comprise the ocular surface.

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## ***Decreases inflammation and pain***

Some of the growth factors released by the platelets decrease inflammation and the sensation of pain, minimising the need for other pharmacological therapy.



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### ***Protects and favours transparency***

It has a protective effect against the risk of the formation of fibrosis and corneal scarring, favouring the transparency of the cornea after its regeneration.

▼

### ***Maintains the integrity of the tissue***

Favours the formation of mature and functional tissue.

▼

### ***Improves lubrication***

The recovery of a functional tissue favours a more natural and effective lubrication, significantly decreasing the symptoms of dry eye.



# Treatment

## ***How and when is this technique applied?***

Treatment using eye drops with plasma rich in growth factors is recommended for patients with moderate to severe dry eye and other pathologies linked to defects of the tissues that comprise the ocular surface.

### ***Therapeutic process***

- EXTRACTION OF BLOOD FROM THE PATIENT.
- CONCENTRATION OF PLATELETS.
- SEPARATION OF THE FRACTION OF PLASMA RICH IN GROWTH FACTORS.
- PREPARATION AND DISPENSING OF THE EYE DROPS.



### ***Results after applying the eye drops***

- ✓ Increase in the quality of the ocular surface tissues.
- ✓ Improved ocular lubrication.
- ✓ Reduced inflammation.
- ✓ Reduced pain.
- ✓ Reduction of symptoms.
- ✓ Reduction in the use of corticosteroids and cyclosporine.



## **Treatment duration**

- Each tray of 32 dispensers is intended for **a treatment of 3 months**. During this time, the pack is stored in the freezer (-20°C).
- The treatment can be extended in cycles of three months **with the recommendation and monitoring of the ophthalmologist**.



# *Advantages*

## **of the treatment application**

- The eye drops are applied with a **dispenser that can be used for three days** and can be kept **at ambient temperature** and that, once open, preserve the growth factors and biologically active proteins.
- The eye drops **are transported in a practical dispenser** that is fully watertight and resistant.
- All of these advantages enable the eye drops with plasma rich in growth factors **to be used anywhere at any time**.



# Centres known

**Who can apply the technology related to plasma rich in growth factors?**



- For your health and safety, **avoid imitations and request the identification of your single-use kit** for the preparation of your eye drops. This identification guarantees that the process complies with all the requirements of health, quality and traceability of your eye drops.
- For your safety, check that the pack that contains the dispensers for **your eye drops is sealed and labelled.**
- The material used to collect and process the blood must be **single-use for your treatment** and must have the corresponding sanitary approval.



# Commitment to quality

***The professionals of this centre have received specific training in BTI's technology related to plasma rich in growth factors.***

BTI's technology related to plasma rich in growth factors **meets all the regulatory and quality requirements established by the competent sanitary authorities.**

This technology was designed to be applied using precise and very rigorous protocols that **guarantee the quality of the final product obtained.**

