**Website**

# Home Page - Header

EndoGene.Bio

Building a legacy in female health

# Technology

## What is endometriosis

* + Endometriosis is a complex gynecological condition characterized by the presence of endometrial-like tissue outside the uterus, which induces a chronic, inflammatory response. This tissue, behaving similarly to the lining of the uterus, thickens, breaks down, and bleeds with each menstrual cycle. However, because it is located outside the uterus, it has no way to exit the body, leading to pain, inflammation, and the formation of scar tissue. Symptoms can vary but often include severe menstrual cramps, chronic pain in the lower back and pelvis, pain during or after sexual intercourse, intestinal pain, and infertility in some cases.
  + Diagnosis of endometriosis can be notably challenging and is frequently delayed. On average, it takes from 7 to 10 years from the onset of symptoms for a woman to receive a definitive diagnosis. This delay is due to a combination of factors, including the normalization of menstrual pain, the variability of symptoms, and the necessity for a definitive diagnosis to be made through laparoscopy—a surgical procedure that allows a physician to observe the pelvic organs directly and take tissue samples for examination. The complex nature of endometriosis and the broad spectrum of its manifestations contribute to the prolonged period many women experience before receiving an accurate diagnosis.

## The importance of menstrual blood for diagnosis

* + Menstrual blood, often regarded as waste, serves as an excellent diagnostic tool. It contains materials shed during menstruation, such as endometrial tissue, immune cells, proteins, and microorganisms. In fact, menstrual blood boasts over 300 unique proteins not found in other blood or body parts. The proportions of different cell types in menstrual blood differ significantly from those in other areas of the body, presenting novel diagnostic targets.
  + Using menstrual blood for diagnostics is non-invasive and does not require a needle. This method offers the potential to identify diseases, determine a patient's likely response to specific treatments, and predict current health status. Furthermore, it can forecast future risks of gynecological or reproductive disorders in subsequent menstrual cycles
  + One patient, one model.

## What is epigenetics and why do we use it?

* + Epigenetics explores how environmental factors and behaviors influence gene expression. Throughout our growth and development, various factors act on our genome, regulating the activation and deactivation of genes at specific times and locations. These regulatory mechanisms can be significantly affected by our environment and lifestyle choices, such as stress levels, or whether an individual smokes. Consequently, these influences may lead to changes that activate or deactivate genes in ways that deviate from their normal patterns.
  + Crucially, alterations in these regulatory factors can lead to diseases by improperly activating or deactivating genes.

# About Us/Our Team

EndoGene.Bio is a women’s health biomarker discovery company. We use menstrual blood as a non-invasive source to identify epigenetic biomarkers. We want to use precision medicine to transform how conditions like endometriosis are diagnosed and treated.

CEO-Founder

Dr. MT Pérez Zaballos

Head of Science & Ops

Dr. C Fernández Molina

Senior Bioinformatics Scientist

Dr. C Bafligil Suomi

Endometrium Scientist

Dr. Sarah Harden

Sr. Lab Specialist

Sophie Ribeiro

R&D Project Manager

Dr. R Notario Manzano

Sr. Immunologist

Dr. Ioanna Tiniakou

Corporate Ops

Laura Plaza Arroyo

# Collaborate with us

[Info@endogene.bio](mailto:Info@endogene.bio)

# News

* Which would be kept hidden up until we are closer to the funding round.

**At the bottom of all pages**

**Funding**

BPI

**Partnerships**

Genopole

Station F

**Fonts we have been using**

Montserrat

**Colours we have been using**

See Canva mockup

Microsoft colours (with preference in this order):

* Purple/plum: #6a2d34 - rgba(106,45,52,255)
* Blue: #6acac2 - rgba(106,202,194,255)
* Yellow : #f5b64 - rgba(245,182,71,255)

Websites we like

* Dama health
* 23 and me
* Galvani.bio
* <https://www.flyhyer.com>
* Sphère
* Mitra.bio
* Nostos-genomics
* Blossom
* magicdesign

Specific things we like from some websites:

* Owkin – adding the languages we speak, the phd, etc.

**A screenshot of a computer

Description automatically generated**