**PROTECTIVE EFFECT AGAINST OXIDATIVE DAMAGE**

**STIMULATION OF HAIR GROWTH**

**ANTI-POLLUTION EFFECT**

**SCALP CARE**

**ANTI-HAIR LOSS EFFICACY**

# RESVINIA®

## Cosmetic active ingredient

Grapevine extract manufactured in **France**

### ACTIVE MOLECULES

Resveratrol & *epsilon*-Viniferin
Extracted from French vine shoots
**INCI name:** *Vitis vinifera* (grape) vine extract

### POSSIBILITY OF STANDARDIZATION

- natural butylene glycol

UPCYCLED PART OF VINE

SUSTAINABLE DEVELOPMENT

PLANT-BASED INGREDIENTS

COSMOS
Approved by ECOCERT RAW MATERIAL
COSMOS APPROVED

MADE IN FRANCE

100% NATURAL ORIGIN

**Tested ingredient:** Natural RESVINIA® 2% Sol. (2% of Resveratrol & *epsilon*-Viniferin)

ACTICHEM
NATURAL GRAPEVINE RESVERATROL

# HAIR CARE

## Clinical study

### Anti-hair loss efficacy

**NEW**

🕐 Once a day

👥 29 participants
2 women/ 27 men
(having a chronic hair loss)

🔄 36-63 years

📅 3 months

🧴 HairSerum by Actichem
(Only one active ingredient: RESVINIA®)

〰️ Phototrichogram method
(Treated half-head vs
Untreated half-head)

**Tested dose: 3% of** RESVINIA®

% of variations of anagen hairs
Untreated    Treated

-1.3%    -1.4%    -0.9%
-2.9%

■ After 42 days
■ After 84 days

% of variations of telogen hairs

■ After 42 days
■ After 84 days

12.9%
5.7%    6.2%    4.0%
Untreated    Treated

% of variations of ratio
anagen/telogen
Untreated    Treated    1.7%

-6.1%    -8.2%
-13.0%

■ After 42 days
■ After 84 days
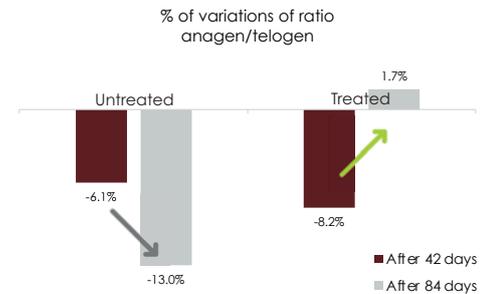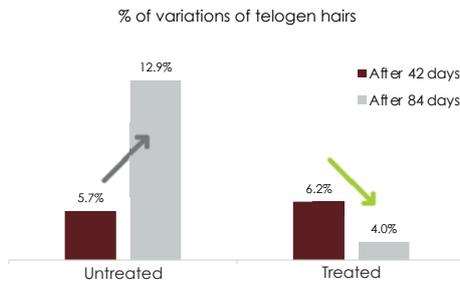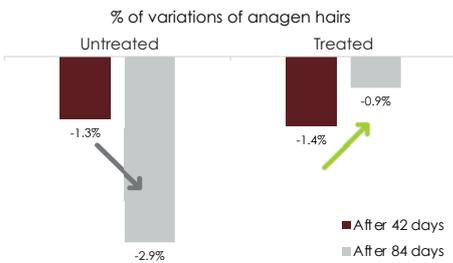
RESVINIA® helps **maintain hair balance** by restoring
the anagen/telogen ratio compared to the untreated zone

### Self evaluation, on average:

**Hair loss seems to have stabilized/
is no longer increasing**

**68%***
after 42 days
of application

**73%***
after 84 days
of application

### after three months of application:

I lose
less hair
**70%***

When brushing,
I lose
less hair
**70%***

When washing,
I lose
less hair
**77%***

I find less hair
on the pillow
and clothes
**73%***

My scalp is
less visible
**60%**

My scalp is
revitalized
**63%**

The hair
looks fuller
**63%**

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## Clinical study

### Scalp care/ Hair growth efficacy

**NEW**

🕐 Once a day

👥 30 participants
30 women

🔄 18 - 64 years

📅 3 months

🧴 HairSerum by Actichem
(Only one active ingredient: RESVINIA®)

🫀 Bleaching method
(Treated half-head vs
Untreated half-head)

**Tested dose: 3% of** RESVINIA®

% of subjects presenting an improvement for
hair growth vs untreated zone

63%
50%
26%

■ D28
■ D56
■ D84

### Self evaluation after three months
of application, on average:

My hair growth
seems stimulated
**60%**

The scalp is
comfortable
**73%***

Sensations of
scalp discomfort
are reduced
**60%**
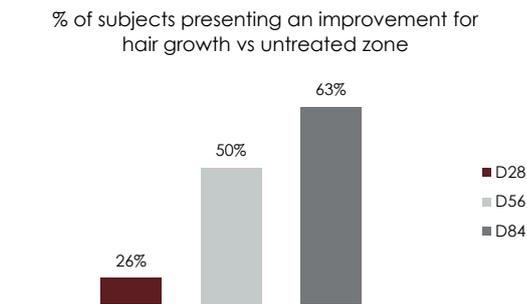
RESVINIA® increases **scalp comfort** and
**stimulates hair growth** for more than 60% of volunteers

*:p<0.05 **:p<0.01 ***:p<0.001

# HAIR CARE

## Ex vivo

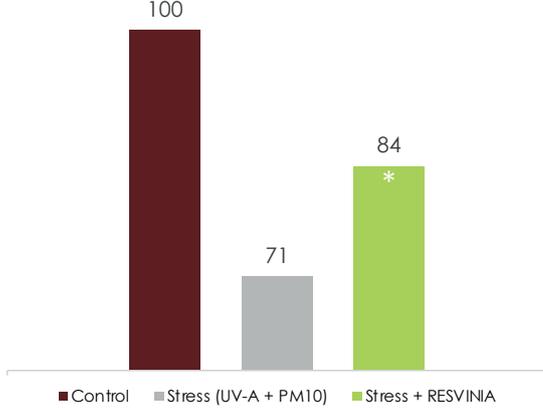🕐 One application

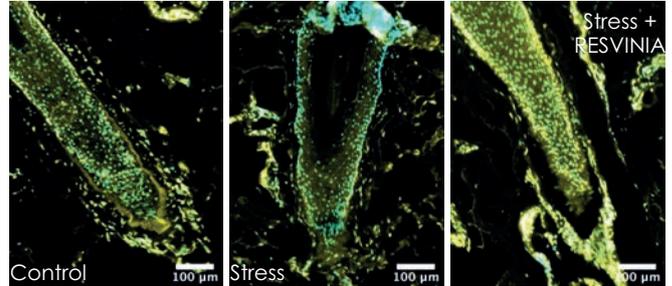🏭 Stress: UV-A + PM10 pollution

🧬 Scalp explant from a 74-year-old woman

**Tested dose:** 5% of RESVINIA®

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## Stimulation of hair growth via IGF-1

Labelled IGF1 cells levels (vs control group)
Follicles (%)



- Control: 100
- Stress (UV-A + PM10): 71
- Stress + RESVINIA: 84 *

■ Control  ■ Stress (UV-A + PM10)  ■ Stress + RESVINIA

Labelled IGF-1 levels in hair follicles



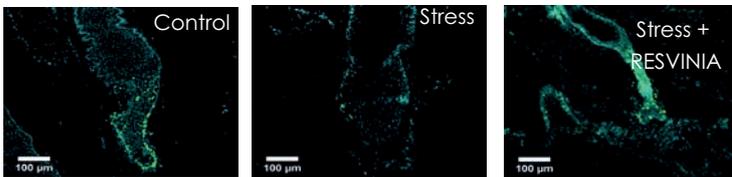Control — 100 µm | Stress — 100 µm | Stress + RESVINIA — 100 µm

● Labelled IGF-1 cells  ● Cellular nuclei

RESVINIA® tends to maintain IGF-1 level, thus **stimulating hair growth**
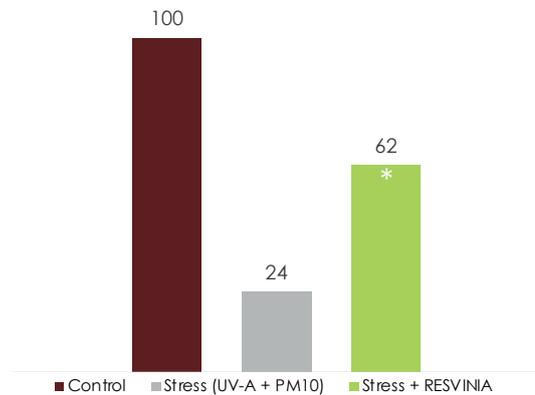
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## Prevention of hair loss via Ki67

Labelled Ki67 levels in hair follicles



Control — 100 µm | Stress — 100 µm | Stress + RESVINIA — 100 µm

● Labelled Ki67 cells  ● Cellular nuclei

RESVINIA® preserves the vitality of follicles, thus **preventing hair loss**

Labelled KI67 cells levels (vs control group)
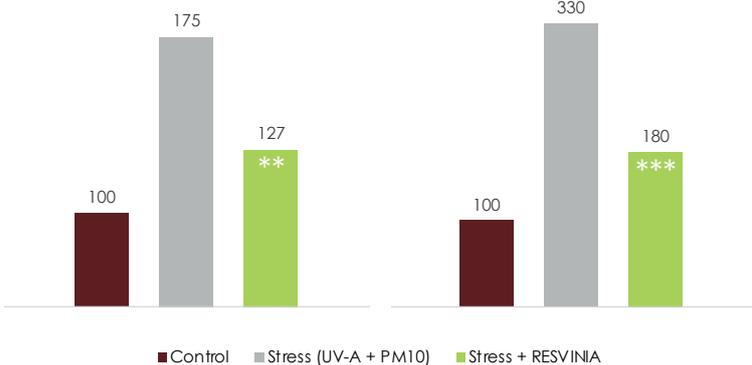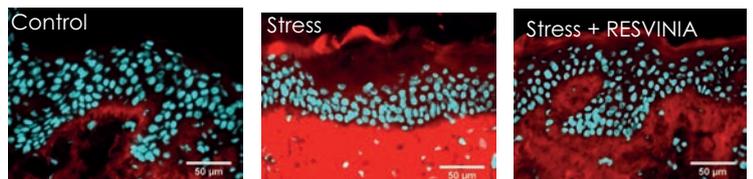Follicles (%)



- Control: 100
- Stress (UV-A + PM10): 24
- Stress + RESVINIA: 62 *

■ Control  ■ Stress (UV-A + PM10)  ■ Stress + RESVINIA

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## Protective effect against oxidative damage

Carbonylation levels (vs control group)
Follicles (%)



- Control: 100
- Stress (UV-A + PM10): 175
- Stress + RESVINIA: 127 **

Carbonylation levels (vs control group)
Whole scalp (%)

- Control: 100
- Stress (UV-A + PM10): 330
- Stress + RESVINIA: 180 ***

■ Control  ■ Stress (UV-A + PM10)  ■ Stress + RESVINIA

Carbonylation of protein levels in interfollicular region



Control — 50 µm | Stress — 50 µm | Stress + RESVINIA — 50 µm

● Oxidation of protein levels  ● Cellular nuclei

RESVINIA® offers **healthy aging and antioxidant properties** in follicles and scalp

RESVINIA® **protects the scalp** from urban pollution

# ACTICHEM
## NATURAL GRAPEVINE RESVERATROL

## Actichem

Actichem is a French family company.

Since 1998, we have been developing and producing natural active ingredients from grapevine extracts standardized in Resveratrol monomers and oligomers for cosmetic markets. We have patented a unique extraction process of Resveratrol and its derivatives from vine.

Our values are based on **innovation and quality, driven by a family spirit** to give the **best service to our customers.**

## Sourcing

The raw materials used to produce our active ingredients are harvested exclusively in the famous French vineyards.

We use the **renewable** part of the grapevines - upcycled vine: vine shoots , pruned every year in winter.

We manage the harvesting and extraction stages. Manufacturing and control are carried out locally, allowing for real traceability and quality assurance.

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