



ORYCALM

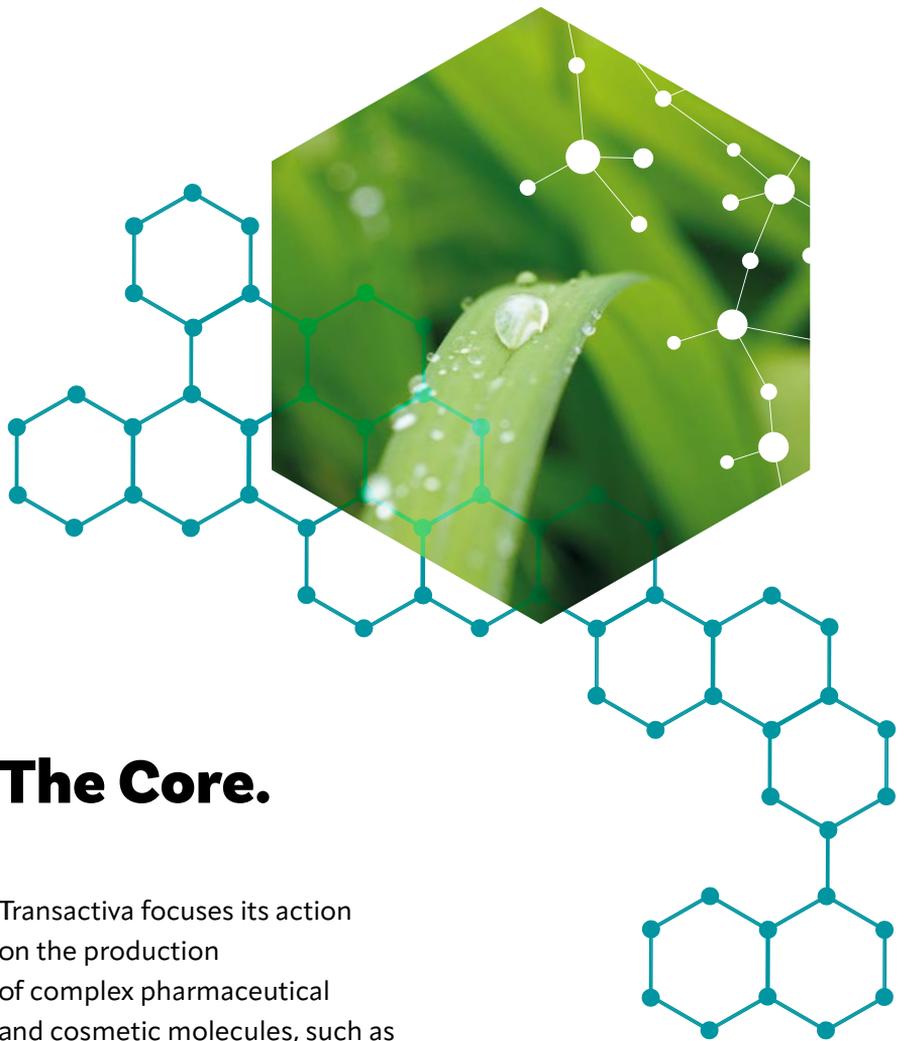
The most innovative
and soothing polypeptide,
faster and green care
for your skin.



Transactiva
is an Italian company
located in the Friuli
Venezia Giulia region

The Company.

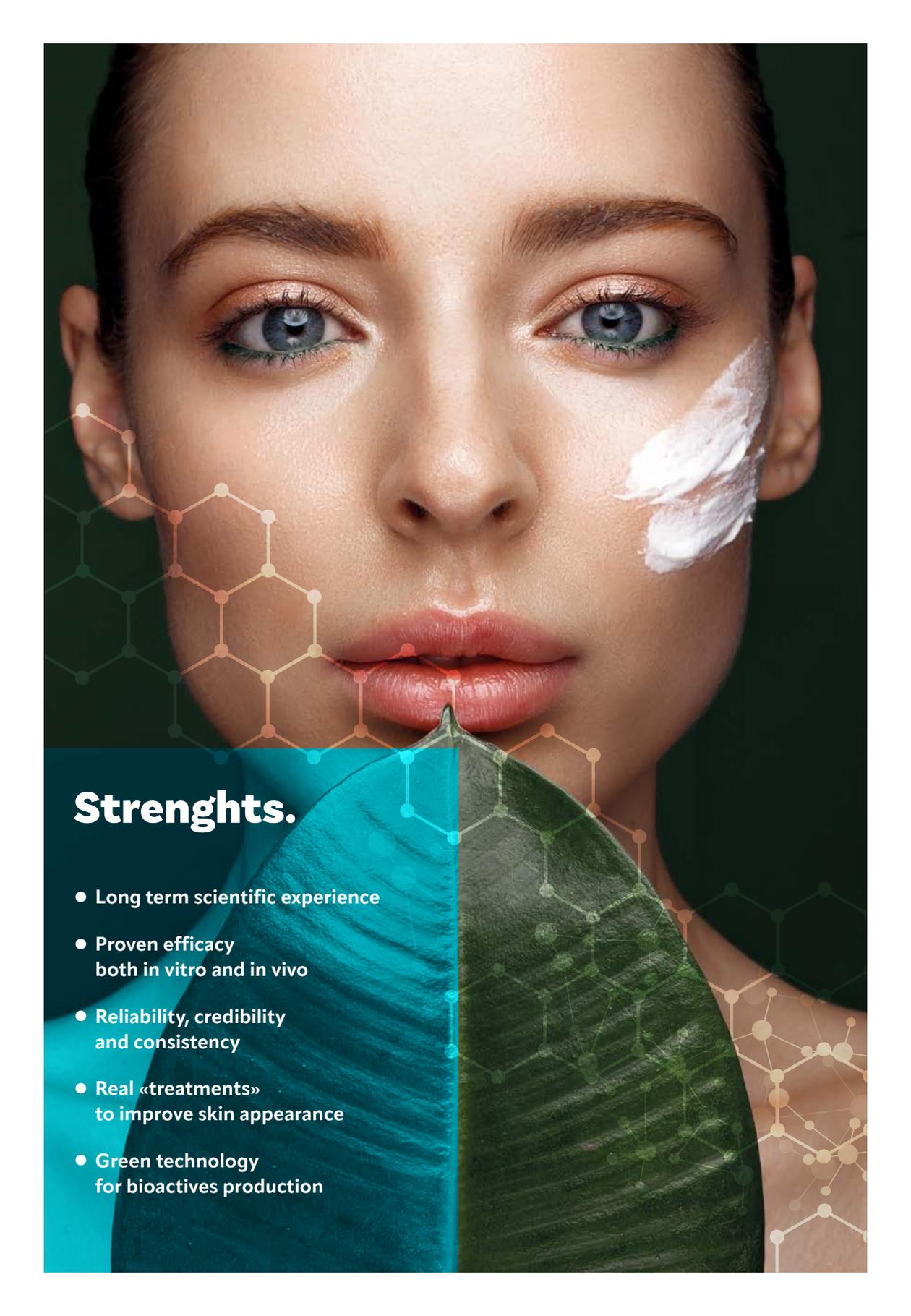
Transactiva is a research and development company born from biomedical research, dedicated to the development of innovative therapies based on **Plant Molecular Farming**. An innovative and green vision of medical and biological skills is shared by the people of Transactiva, with the aim of promoting a greater accessibility and sustainability of the produced biopharmaceuticals and dermocosmetics. **Research, development** and **innovation** are the keywords that describe the company's core business and values.



The Core.

Transactiva focuses its action on the production of complex pharmaceutical and cosmetic molecules, such as bioactive polypeptides, whose production is impossible by chemical synthesis and requires innovative technologies. Transactiva develops and participates in research and development programs in collaboration with international companies and research centers.

- **Active polypeptides**
- **Enzymes**
- **Bioactive proteins**



Strenghts.

- Long term scientific experience
- Proven efficacy both in vitro and in vivo
- Reliability, credibility and consistency
- Real «treatments» to improve skin appearance
- Green technology for bioactives production

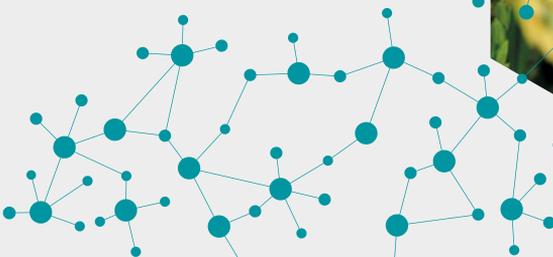
Technology + products.

Plant Molecular Farming technology allows Transactiva to produce bioactive peptides with a stable system in *Oryza sativa* (common rice). The biomimetic peptide is stored in rice seeds, tissue naturally dedicated to preservation.

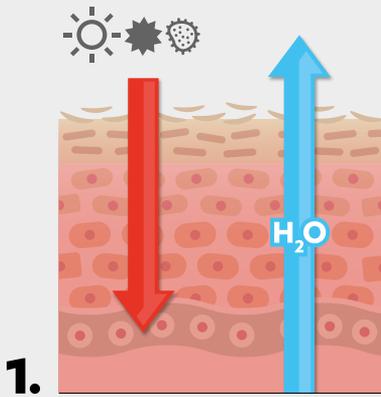
ORYCALM

INCI: Glycerin, Phosphate buffered saline, Hydrolyzed rice protein, Phenoxyethanol.

ORYCALM is perfect for formulations with high water content, such as serums, hydrogels or creams. The efficacy of this product makes it usable at very low concentrations.

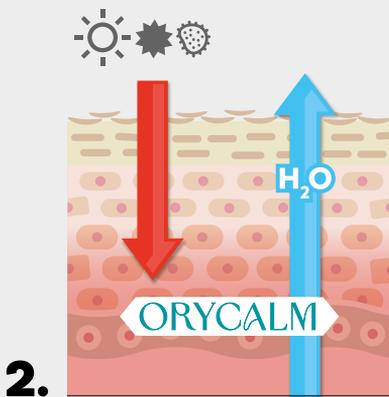


How it works.



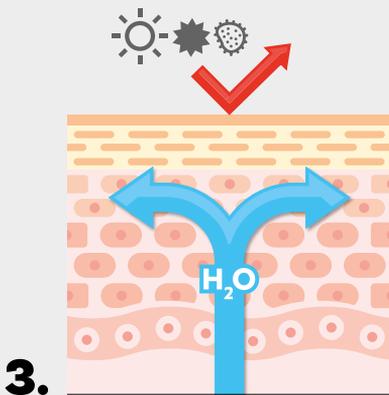
IMPAIRED SKIN BARRIER

Continuous inflammation results in skin redness, water loss and eventually pathogens infiltration.



SOOTHED SKIN

ORYCALM biomimetic peptide helps to reduce irritation of sensitive and inflamed skin. Reduces water loss and redness disappears helping the barrier regeneration.



REPAIRED SKIN BARRIER

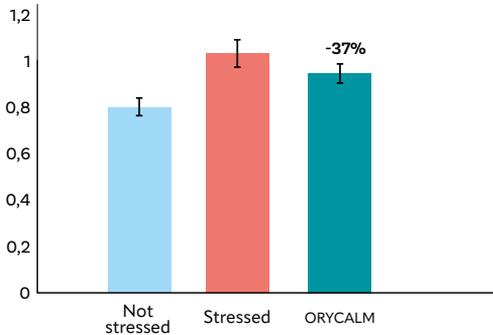
The skin is restored, the barrier is rebuilt, able to defend itself and maintain proper hydration.



germs, pollutants,
UV and radicals

Tests results.

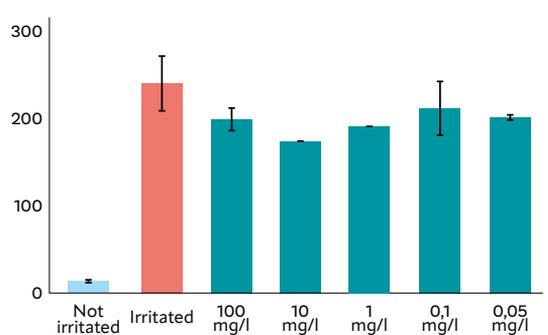
RELATIVE ABSORBANCE
(ICAM-1 Release)



ICAM-1 TEST

In Vitro reduction in the release of ICAM-1 inflammatory marker in presence of the ORYCALM biomimetic peptide.

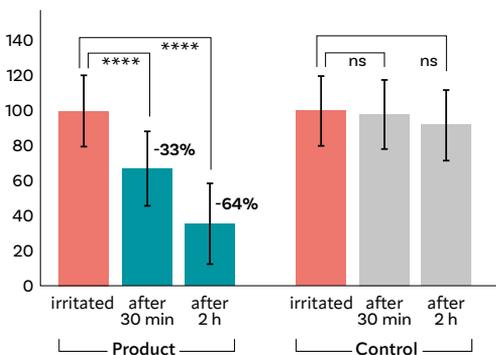
RELATIVE ABSORBANCE
(IL-1 α Release)



SOOTHING TEST

on artificial skin model
Reduction in interleukin 1 α level after in Vitro treatment with ORYCALM of "irritated" artificial skin.

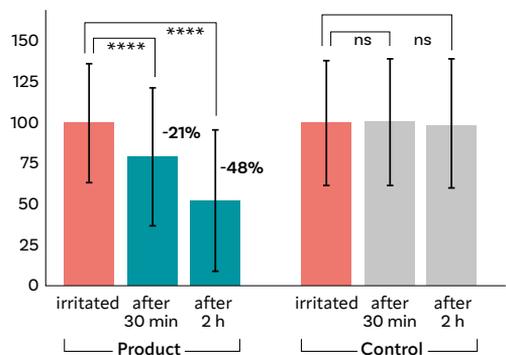
% REDNESS



ERYTHEMA SOOTHING TEST

In Vivo erythema reduction after ORYCALM application:
-33% redness in 30 min
-64% redness in 2 hrs.

% TEWL



TEWL SOOTHING TEST

In Vivo water loss evaluation on irritated skin (TEWL), after ORYCALM application:
-21% water loss in 30 min
-48% water loss in 2 hrs.



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