

Chondro-
protective
effect



chondro
CMR®

**from fresh artichoke leaf grown
and extracted by eVear EXTRACTION**

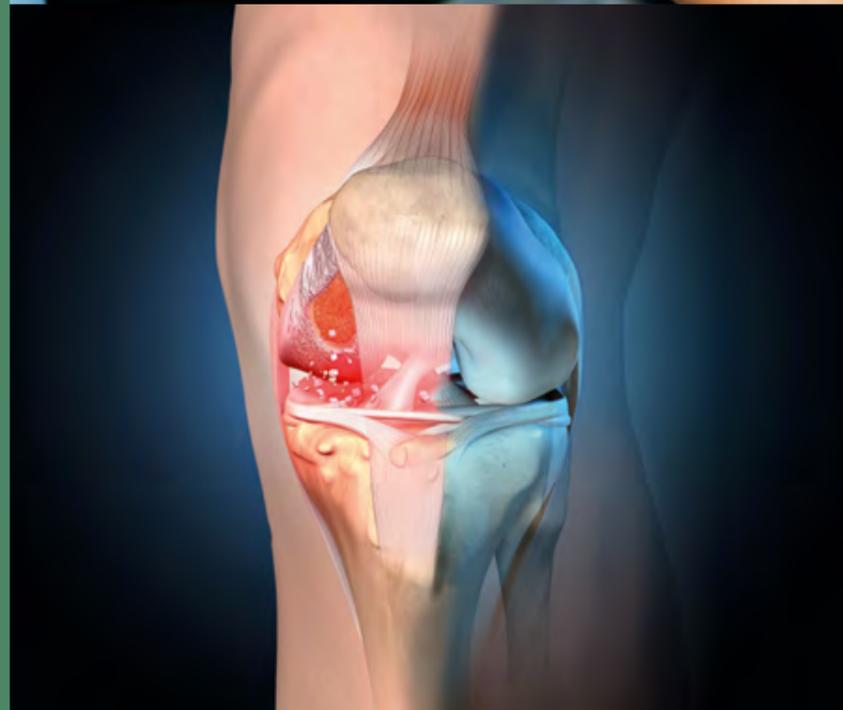


eVear

Clinic'n'Cell Ex-vivo **clinical trials**®

Protected and licensed

protocol



inflammatory stress

- **100% traceability** from Artichoke leaves to dry extract **chondroCYNAR**®
- **Fresh leaves** extraction.
- Aqueous extraction - **no solvent** involved.



Metabolic and anti-inflammatory protective properties of human enriched serum following **chondroCYNAR**® absorption.

Rapid and relevant scientific evidences regarding the biological activity of **chondroCYNAR**® through human metabolism.

Phase 1 :

- **chondroCYNAR**® administration to volunteers.
- Determination of maximum absorption of **chondroCYNAR**® in venous blood : 100 minutes after ingestion.

Phase 2 :

- Serum collected at peak absorption.
- Incubation of serum with targeted primary human chondrocyte cells.
- Determination of biological activities.

Scientific study available and published

by

NUTRIENTS

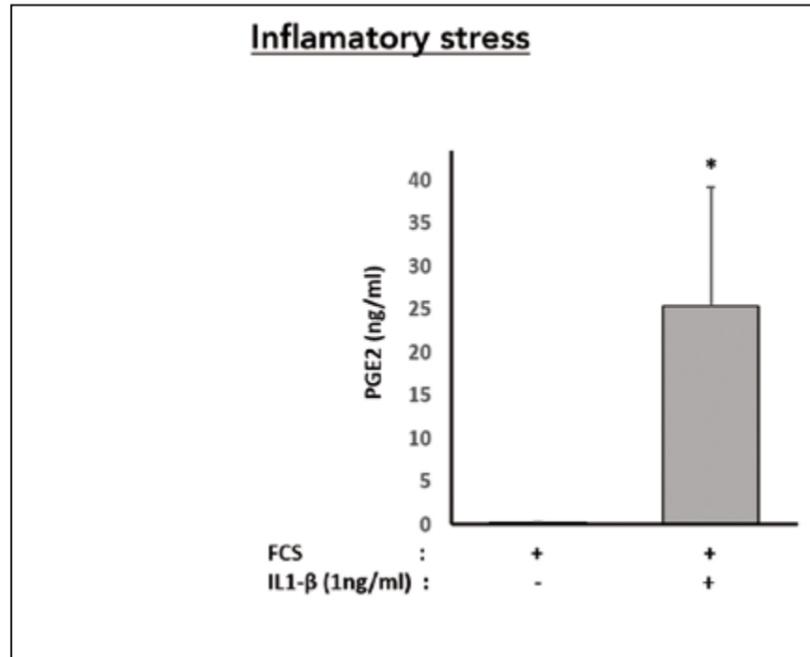
with an impact factor of

5,517

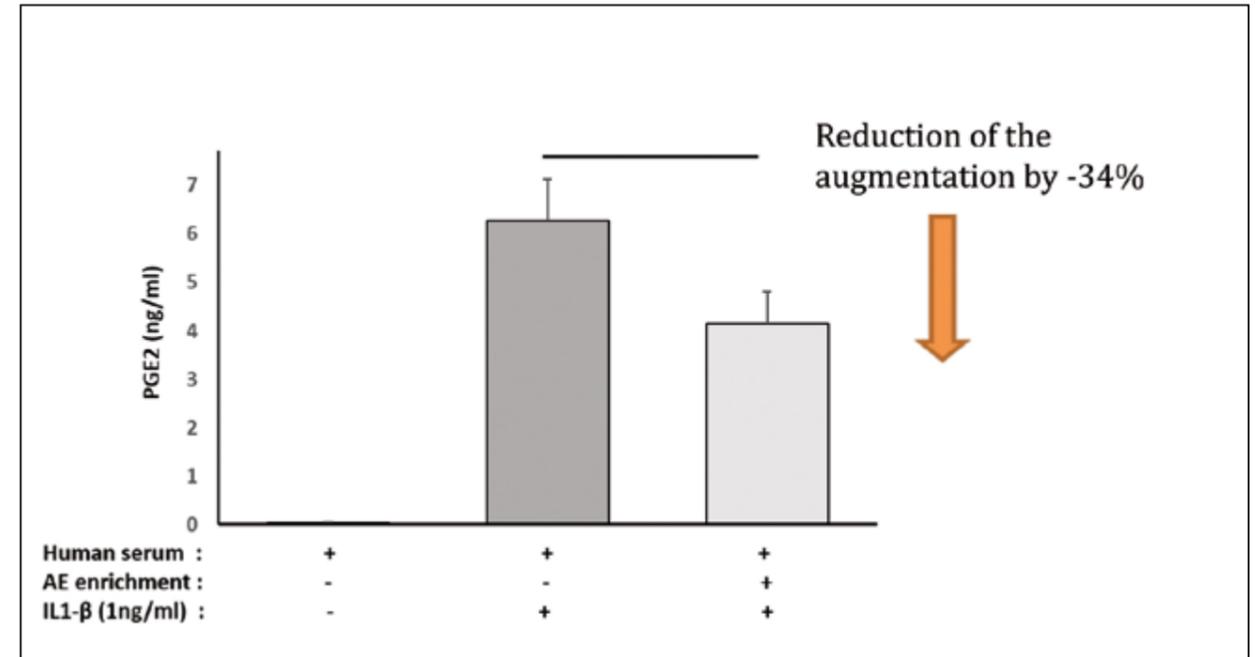
DOI : 10.3390/nu13082653

Relevance of results :

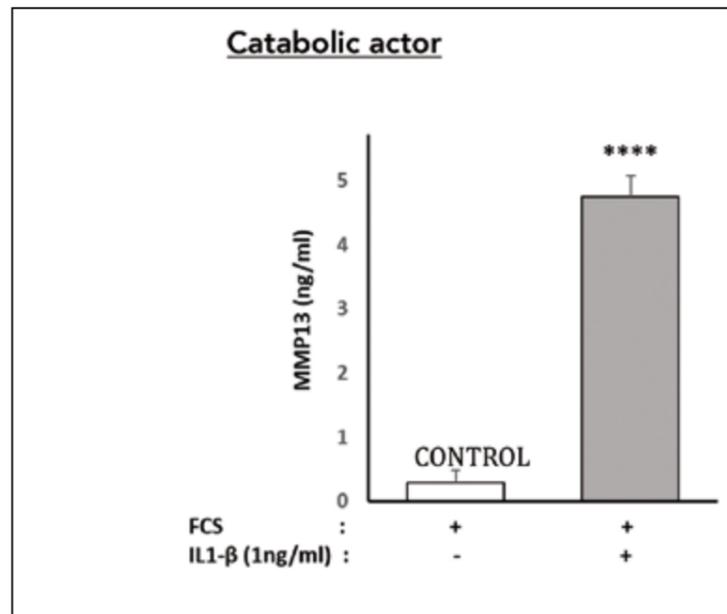
Cells are treated with the enriched human serum from **chondroCYNAR®** and not directly with the extracts.



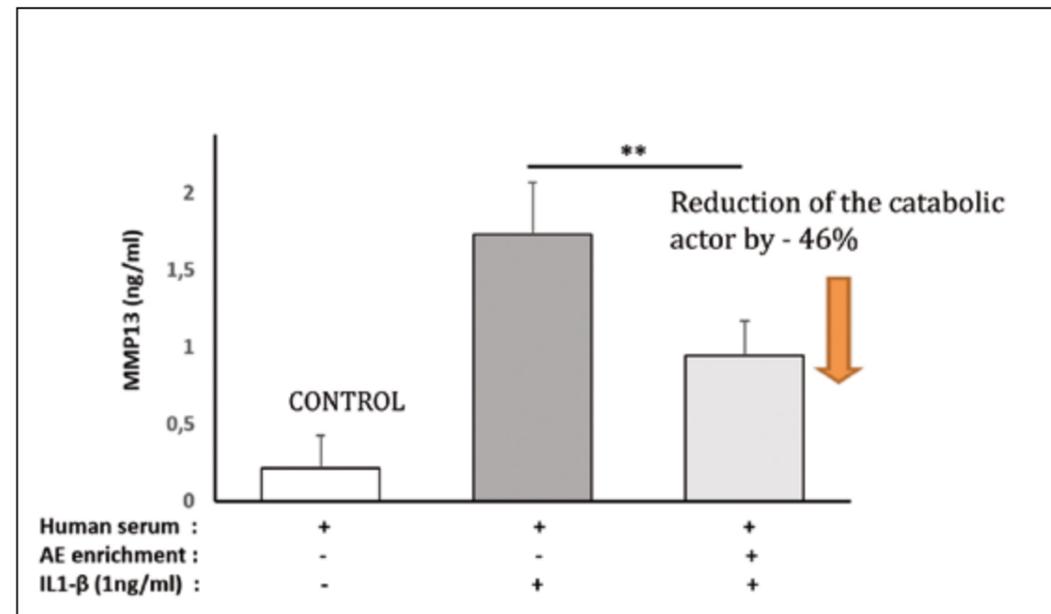
Human serum enriched with **chondroCYNAR®** metabolites



significantly **breaks the vicious circle of inflammatory arthristis by - 34%**



Human serum enriched with **chondroCYNAR®** metabolites



significantly **reduce the production of catabolic actor by -46%**



Conclusions

The metabolites of

chondroCYNAR®

protect primary human chondrocytes
against inflammatory stress
mimicking an osteoarthritis
context via a :

- **Breaking** the vicious circle of inflammatory arthristis
by -34% (PEG2)
- **Inhibition** of catabolic actor
by -46% (MMP13)
- **Rescuing** anabolic actor similar to **control cells**

eUear *extraction solution*

French manufacturer of titrated and standardised plant extracts
for the pharmaceutical, cosmetic and food supplement industries.

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