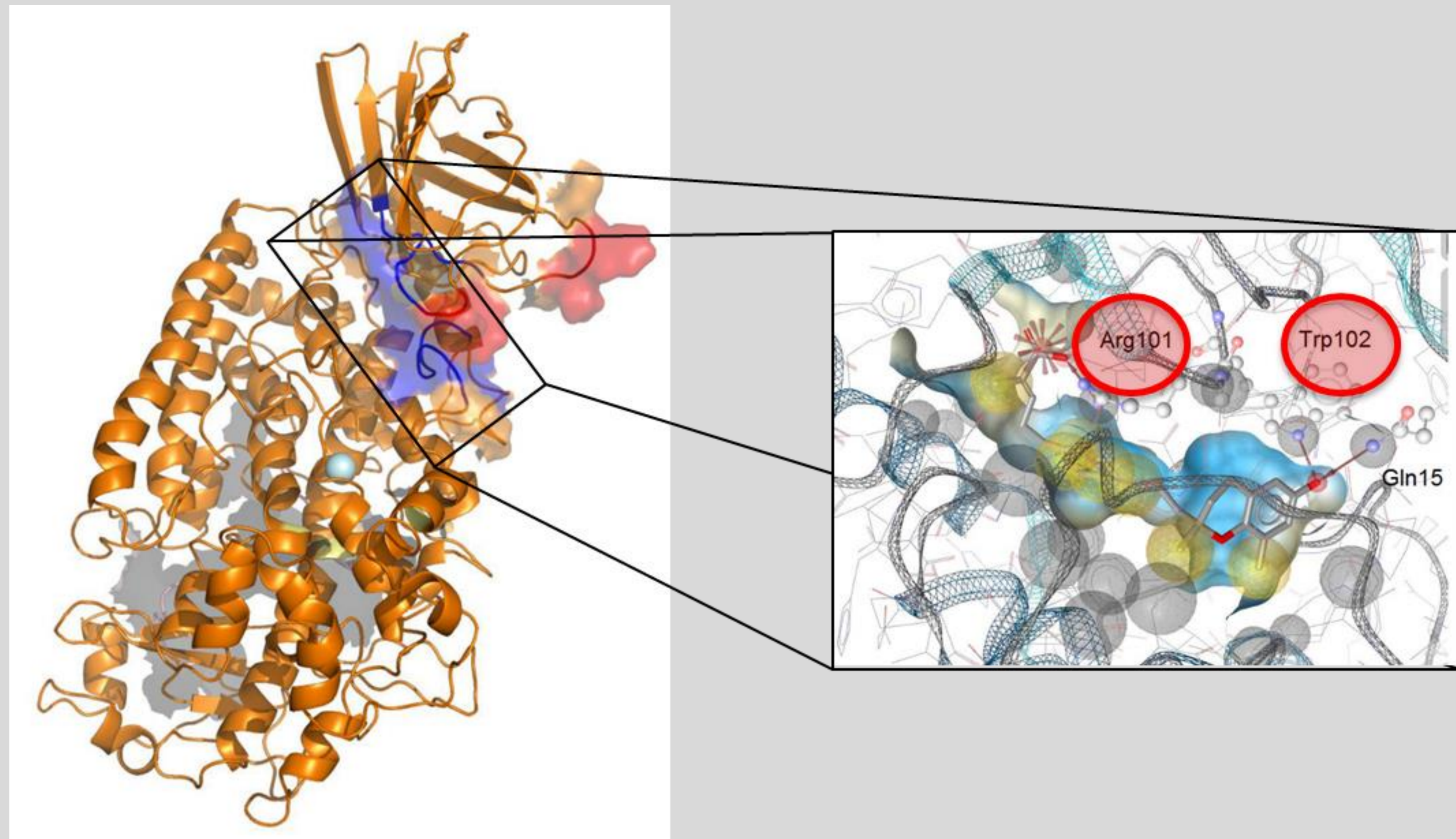


GARCINOÏC ACID : AN EFFICIENT 5-LIPOXYGENASE INHIBITOR TO PREVENT SKIN INFLAMMATION

APPLICATIONS • CASE STUDIES

- Inflammation of the skin
- Atopic dermatitis (on-going tests)



Establishments :

Université d'Angers
Université d'Innsbruck
Université de Léna

Technology Transfer Office :

SATT Ouest Valorisation

Contact :

Hervé Le Deit
14C, rue du Patis Tatelin,
35 000 Rennes

Website:

www.ouest-valorisation.fr

TECHNOLOGY DESCRIPTION

5-LOX catalyzes leukotrienes synthesis. Leukotrienes promote inflammation through the body.

Garcinoïc acid is a natural ω -oxidized tocotrienol derivative that strongly inhibits 5-lipoxygenase activity and leukotrienes formation (IC_{50} : 57 nM).

Garcinoïc acid is extracted and purified in large amounts from edible *Garcinia kola* seeds, or « bitter kola », a tropical tree cultivated in Western and Central Africa.

BENEFITS AND EARNINGS

- Natural compound from edible seeds
- Efficient at very low doses
- Environmentally friendly process, easy to scale-up

