

FROM NATURAL COMPOUND TO VALIDATED PRE-CLINICAL LEAD

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SOURCING OF NATURAL COMPOUNDS

Acces to complexity and originality

Selection of high potential species

Species choice made on bibliography, traditional uses, assumption based on relevant biotopes



Large capacity of discovery: already hundreds of plant extracts with potential active compounds

Aeroponic conditions for Stimulation of plants industrial root exploitation and root content and maestry **Optimization of plant capacities** SIMULATIONS 2 Plant sourcing and nultiplication HARVEST Up to 50 fold increase in rare **1** Species selection molecules **5** Molecular root exudation of living **3** Finalizatior Novel process Renewable industrial production Natural - 3 to 8 yearly harvests on the molecule same plant

- 2 production sites for industrial scale production security of supply with back-up factory chain
- Standardized lots all our activities are ISO9001 certified

Exclusive aeroponic greenhouses R&D and production centers

- Easy access to root-specific natural products
- Global mastery of plant environment, enabling specific optimization of plant physiology and compounds
- Unlock the potential of chemical biodiversity from any plants, as well as from root part
- Study of hundreds of new plant species each year at PAT



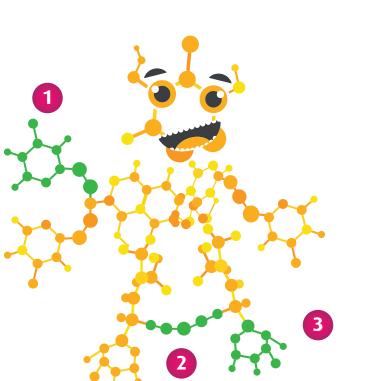
Plant Advanced Technologies

PAT is the pioneer in root optimization and exploration thanks to PAT's patented technology PAT plant milking[®]. The plant biotechnology company specializes in identifiving, optimizing and producing rare, new active compounds of plant origin designed for pharmaceutical, cosmetic and agrochemical markets.

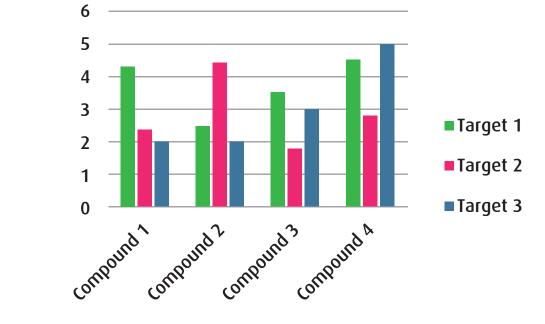


Medicinal Chemstry





Natural compound 1 Compound 1 2 Compound 2 **6** Compound 3



Compounds efficacy

and efficacy







Increase pharmacology

Proof of concept with TEM1657, novel pharmaceutical APIs in dermatology

TEM1657 is an hemisynthetic compound. The natural scaffold is obtained in the PAT greenhouse using PAT Plant milking[®] technologies. The hemi-synthesis has been performed in PAT chemistry laboratory.

The remarkable efficiency of the compound in inflammation model brings it to advanced preclinical stage. This asset is now the property of TEMISIS which carried out the clinical development.

Some significant results:

Microscopic view of PMA-inflamed Human Keratinocytes

TEM1657 restores skin shape in a dose-dependant manner

Healthy control	Inflamed control	+ TEM1657	+ Dexamethasone

After 48h, TEM1657 not only decreases the inflammation, but it also preserves cell integrity

Perspective:

Assays to run:

Regulatory toxicology (end of 2018) Clinical phase I (*mid-2019*) → Clinical phase II (not planned yet) → FDA & EMA review

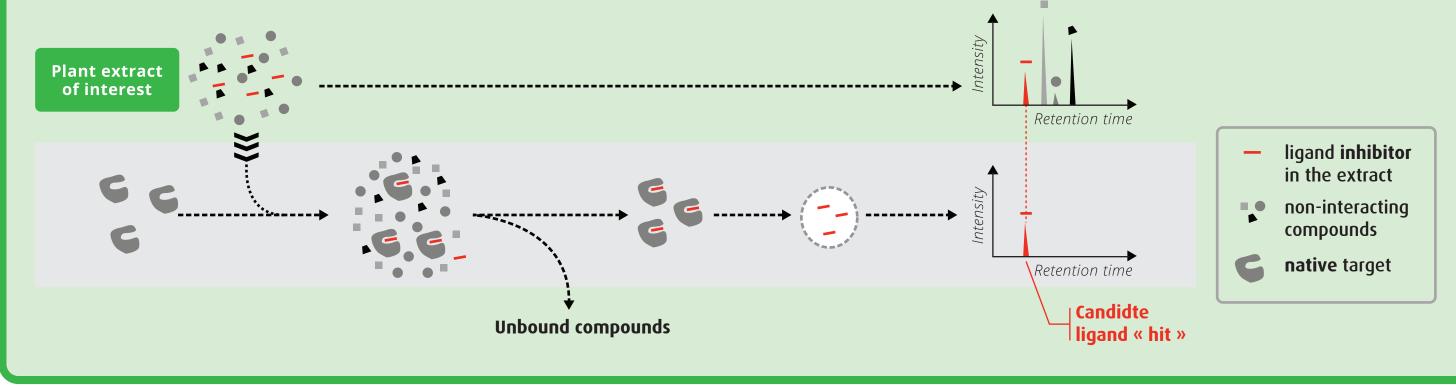
TEMISIS AT A GLIMPSE: Temisis is a company of the Plant Advanced Technologies PAT Group. The company is a therapeutic company focusing on the development of small-molecule assets for the treatment of unmet needs in dermatology. Its main asset, TEM1657, shows similar efficacy as market reference corticosteroids to remove psoriasis symptoms at pre-clinical stage, but with no observed side-effects

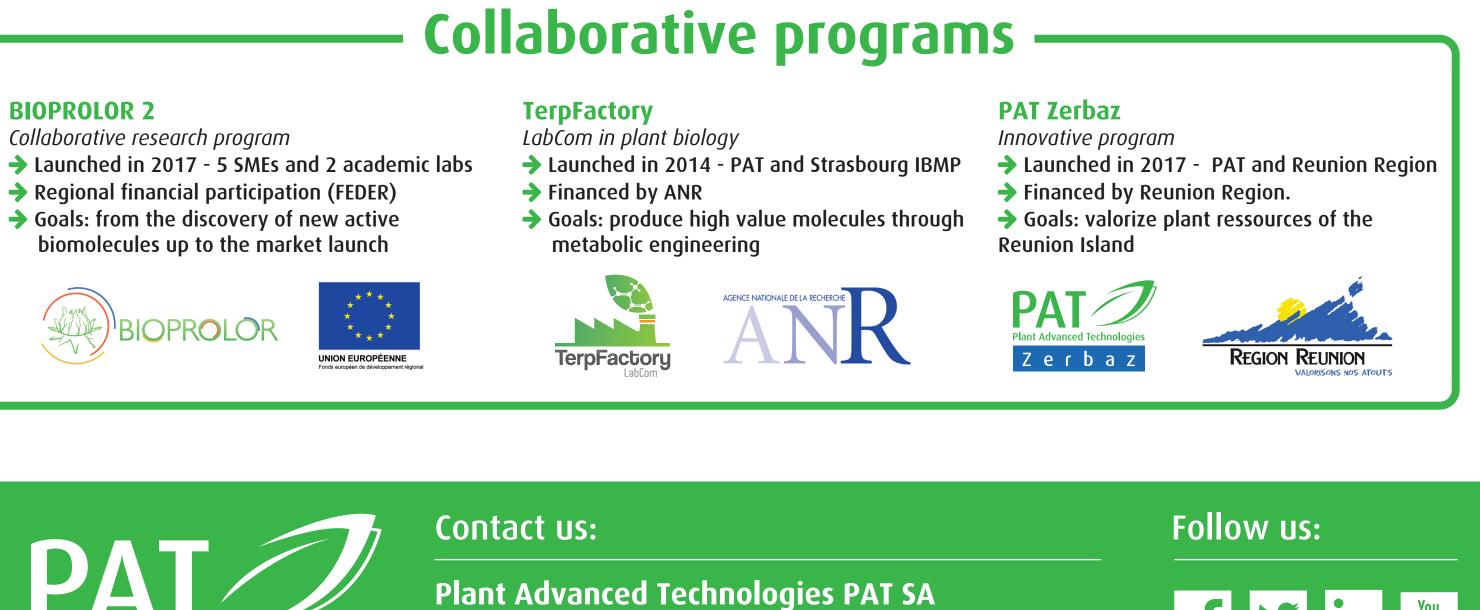






Dedicated platform to fastly fish your hits in plant extracts The target Binding[®] technology





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