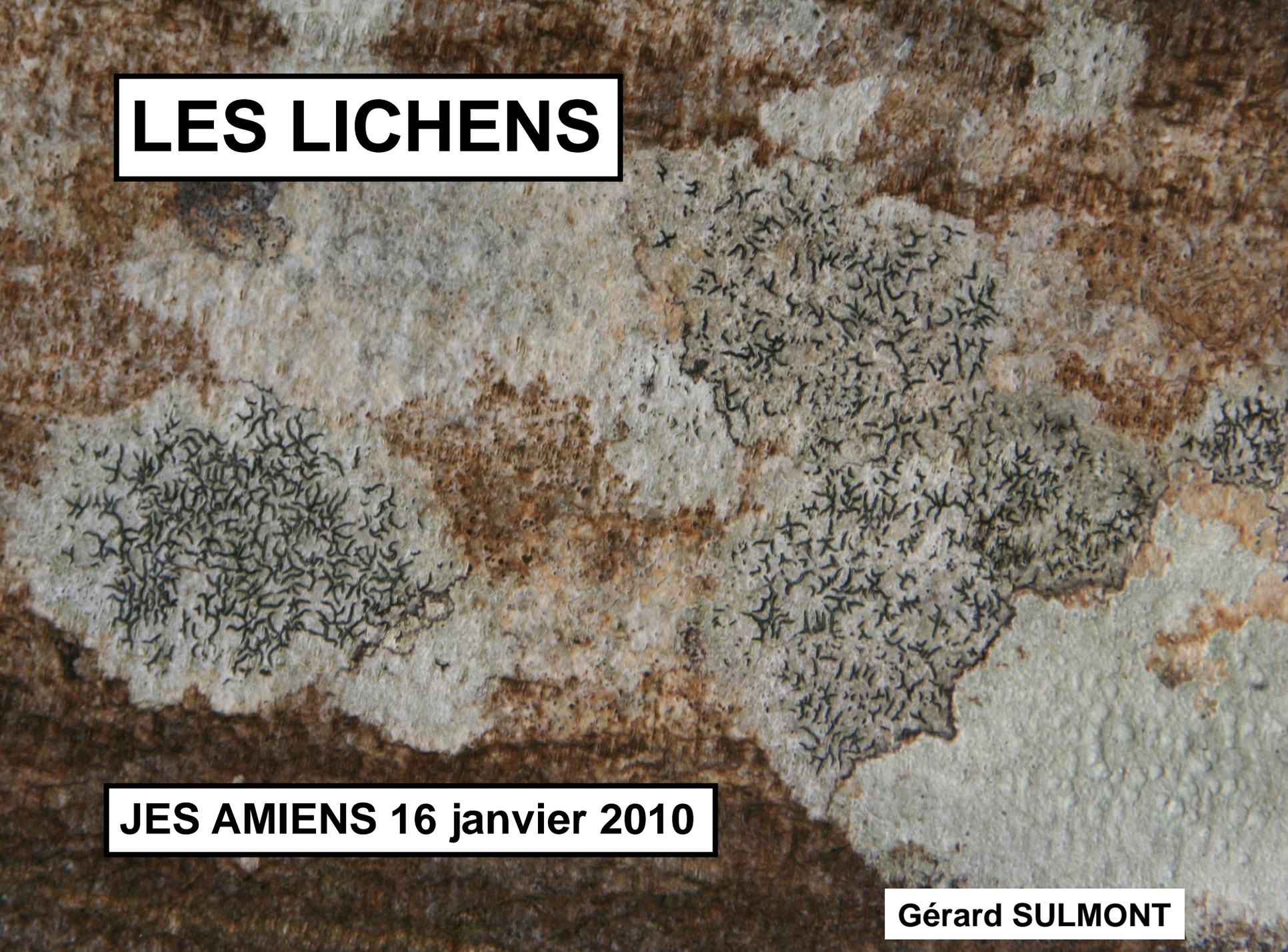


# LES LICHENS



JES AMIENS 16 janvier 2010

Gérard SULMONT

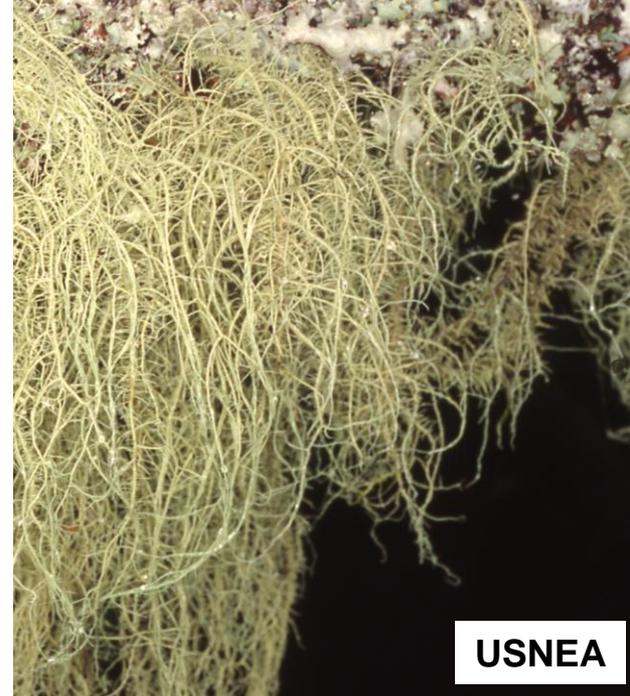
**ASPECTS DES LICHENS**



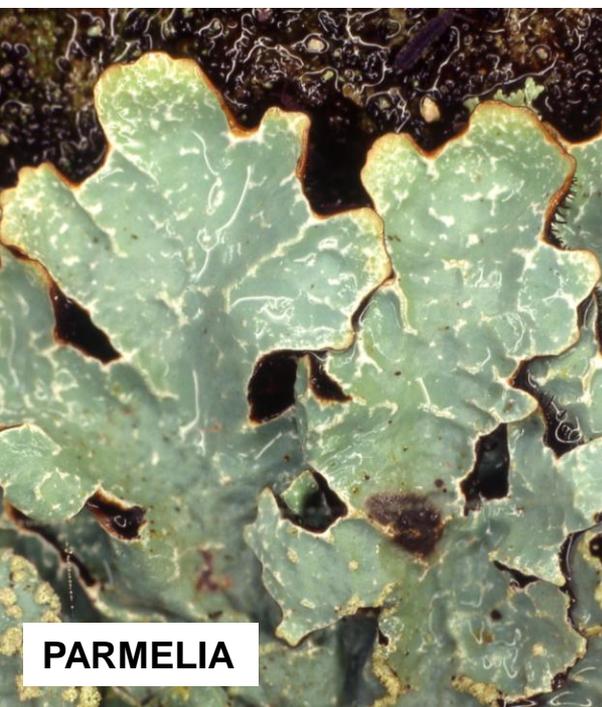
**LECANORA**



**LECIDEA**



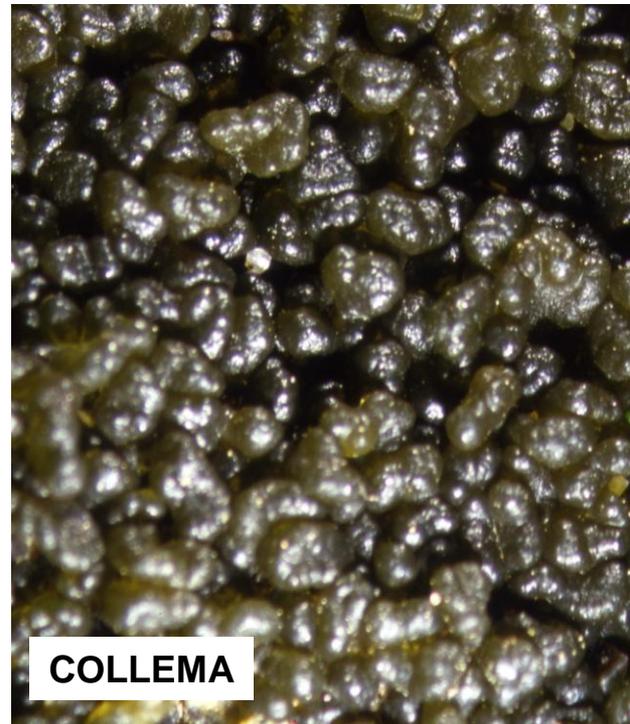
**USNEA**



**PARMELIA**



**CLADONIA**



**COLLEMA**

# COULEURS DES LICHENS



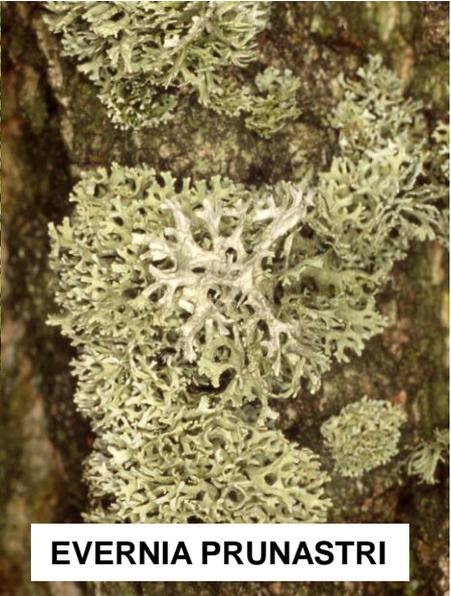
PHISCONIA GRISEA

A photograph of Phisconia grisea, a greenish-grey lichen with a lobed, leaf-like appearance, growing on a dark, textured surface.



PARMELIA SULCATA

A close-up photograph of Parmelia sulcata, a blue-grey lichen with a distinctively cracked, scaly surface texture.



EVERNIA PRUNASTRI

A photograph of Evernia prunastri, a yellowish-green, branched lichen growing on a dark, vertical rock surface.



CETRARIA ISLANDICA

A photograph of Cetraria islandica, a reddish-brown, leafy lichen with a complex, branching structure, growing on a dark surface.



VERRUCARIA MAURA

A photograph of Verrucaria maura, a dark, almost black lichen with a rough, cracked texture, growing on a dark rock surface.



LETHARIA VULPINA

A photograph of Letharia vulpina, a bright yellow, branched lichen growing on a dark, vertical rock surface.



XANTHORIA ELEGANS

A photograph of Xanthoria elegans, a bright orange-red, leafy lichen with a dense, rounded growth habit, growing on a light-colored rock surface.



THAMNOLIA VERMICULARIS

A photograph of Thamnolia vermicularis, a greyish-white, worm-like lichen with a highly branched, vermicular structure, growing on a dark rock surface.



**CLADONIA RANGIFORMIS**



**RHIZOCARPON GEOGRAPHICUM**



**SOLORINA CROCEA**



**LECANORA SUBFUSCA**



**CLADONIA FIMBRIATA**



**UMBILICARIA CYLINDRICA**



**CLADONIA FLOERKEANA**

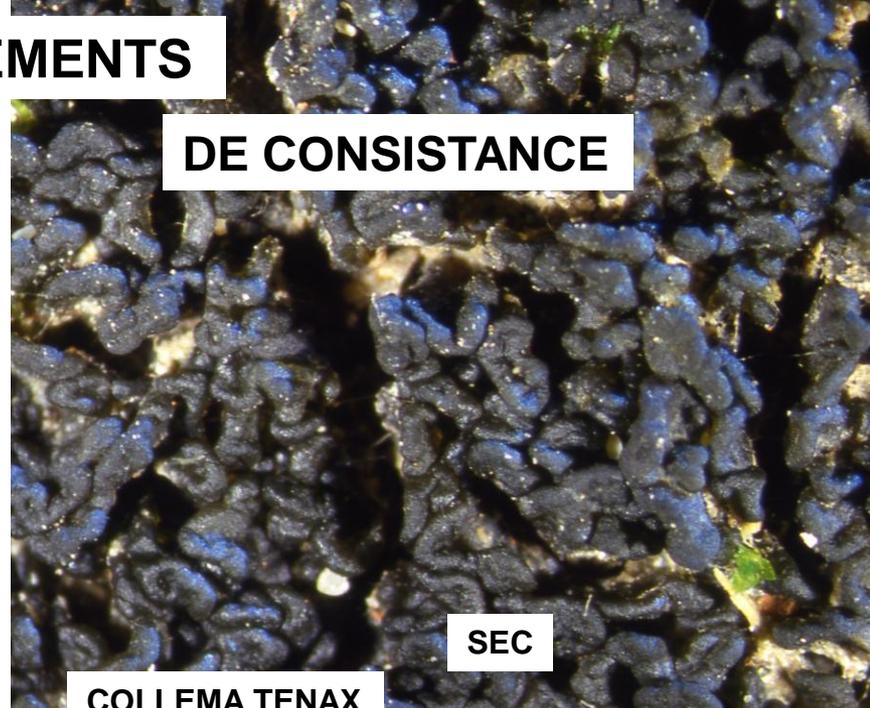
# CHANGEMENTS

DE COULEUR



PELTIGERA APHTHOSA

DE CONSISTANCE



SEC

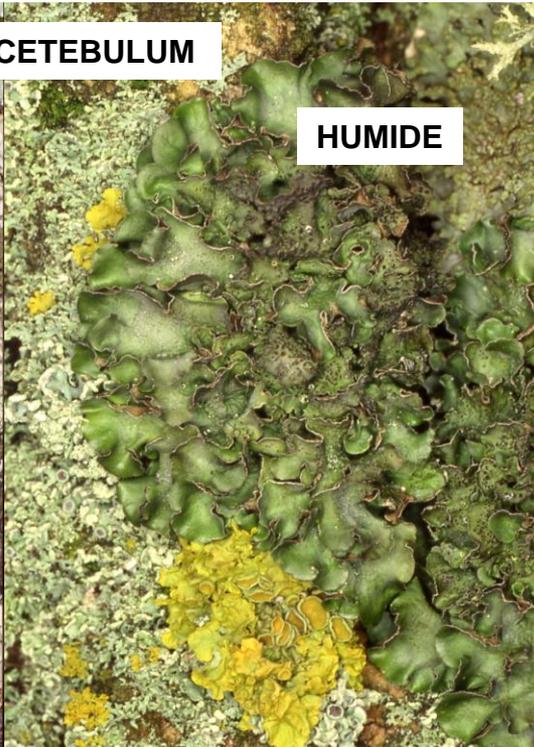
COLLEMA TENAX

PARMELIA ACETEBULUM

SEC



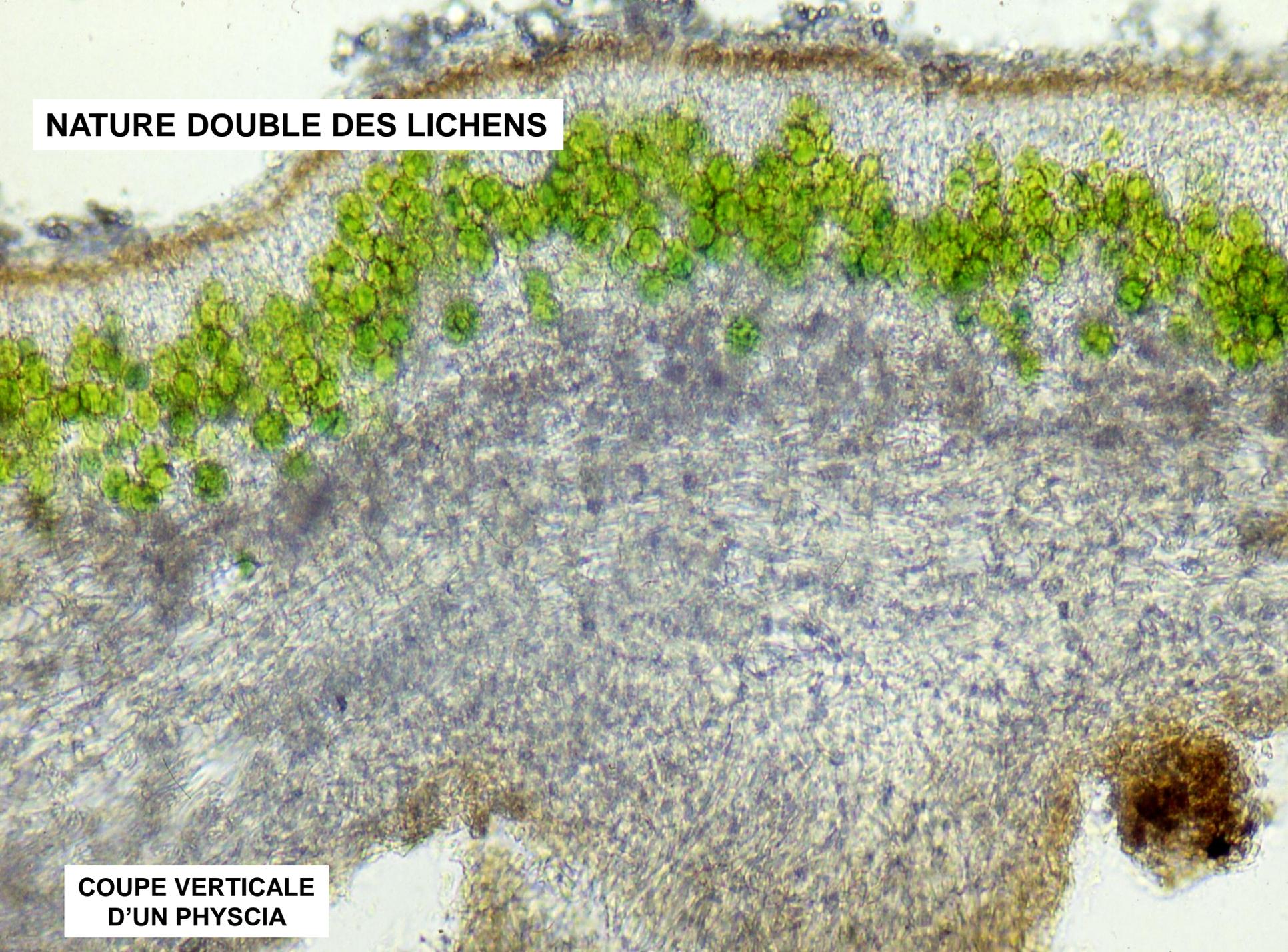
HUMIDE



HUMIDE



**NATURE DOUBLE DES LICHENS**



**COUPE VERTICALE  
D'UN PHYSCIA**

**ELEMENT CHLOROPHYLLIEN**

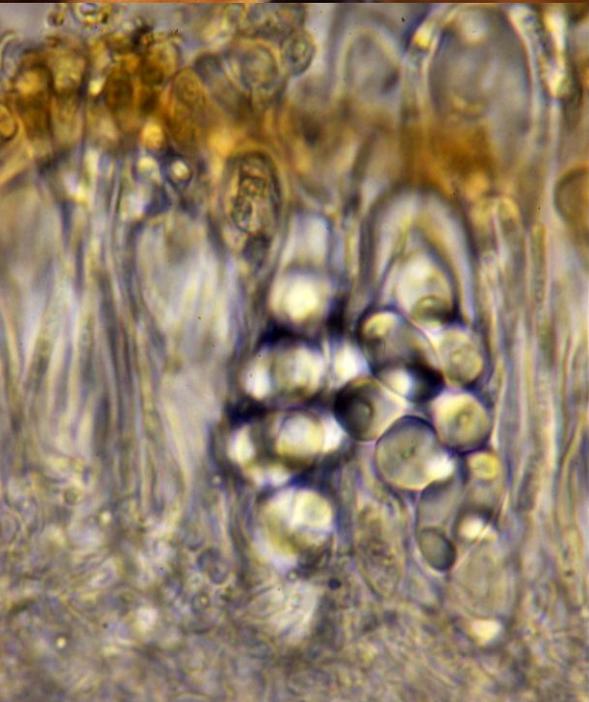
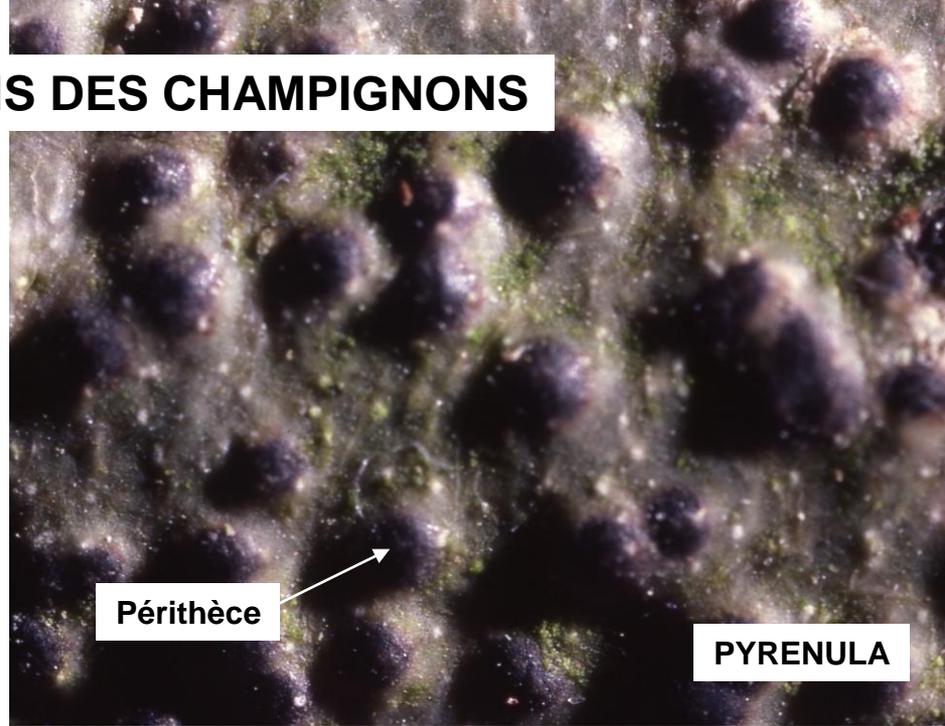
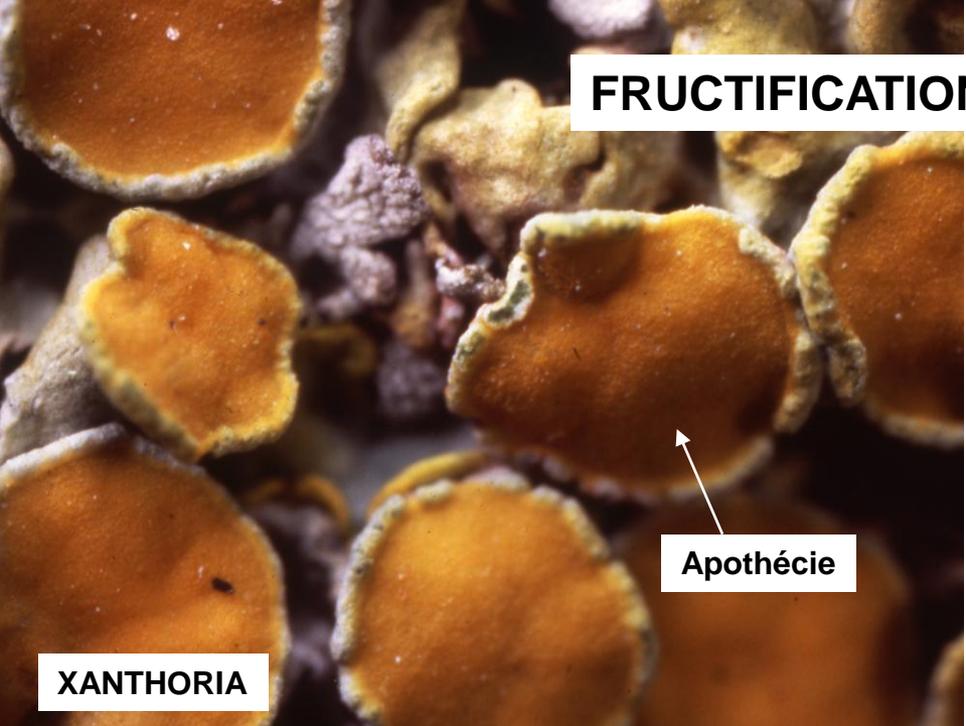


**TRENTEPOHLIA**  
Chlorophycées

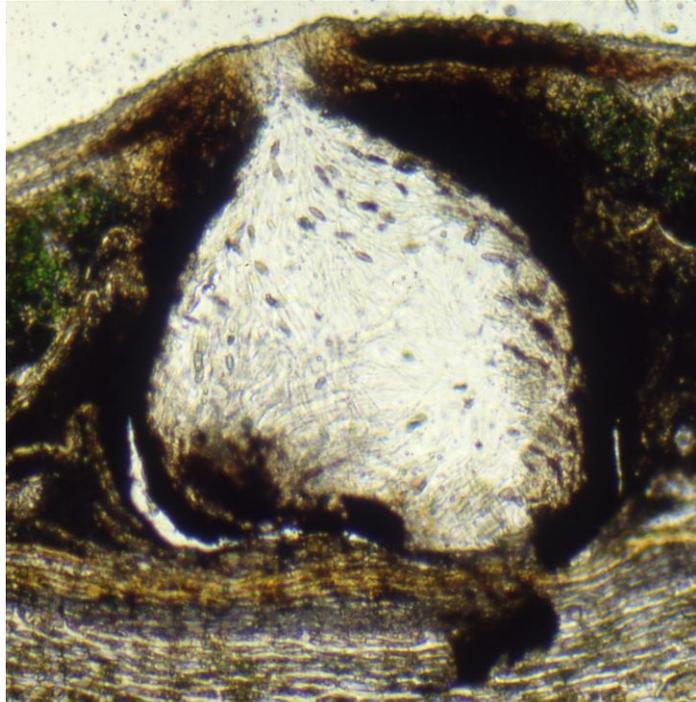


**NOSTOC**  
Cyanophycées

# FRUCTIFICATIONS DES CHAMPIGNONS



ASCOMYCETES  
DISCOMYCETES      PYRENOMYCETES



# REPRODUCTION VEGETATIVE DES LICHENS

PAR ISIDIES



PSEUEVERNIA FURFURACEA

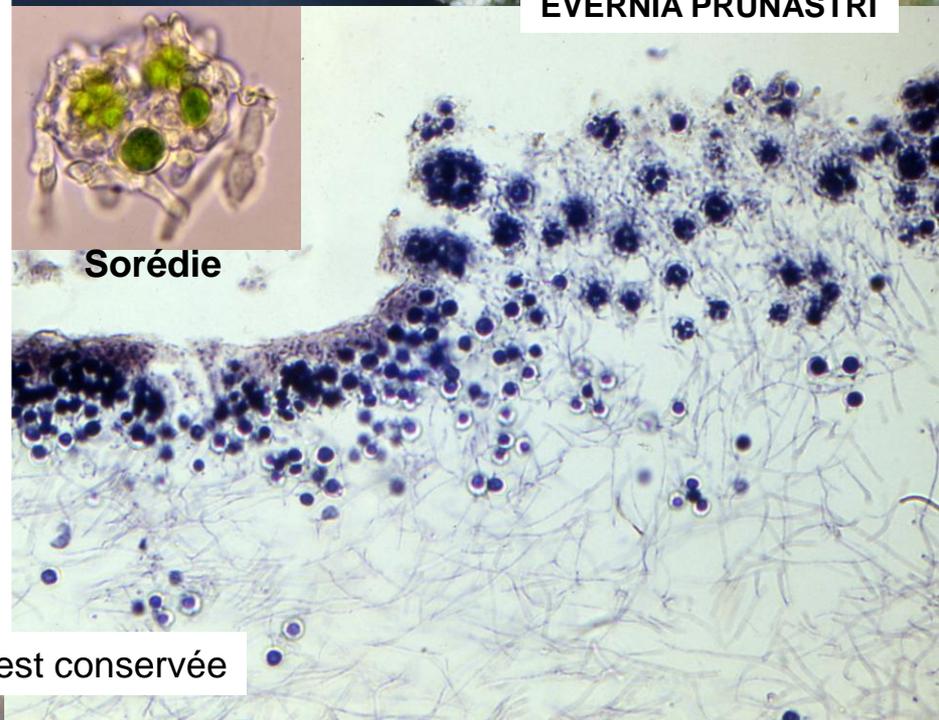
PAR SORALIES



EVERNIA PRUNASTRI



PARMELIA EXASPERATULA



Sorédie

La symbiose est conservée

# PRINCIPAUX SUPPORT DES LICHENS



**ROCHERS**



**ECORCES**



**SOLS**



VERRE



PLASTIQUE



OS



FONTE



EMAIL



CUIR



CORDE

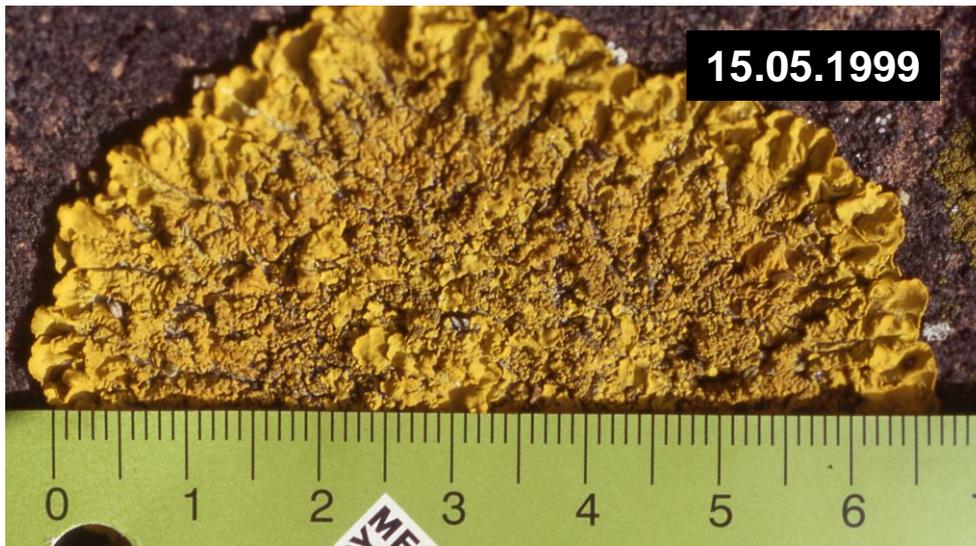
**CROISSANCE TRES LENTE**

**LICHENS CRUSTACES**

**0,5 à 2 mm par an**

**LICHENS FOLIACES**

**0,5 à 4 mm par an**



**XANTHORIA CALCICOLA**

**2 cm par an pour ce thalle développé sur un milieu riche en substances nutritives**

# RÔLE PIONNIER DES LICHENS



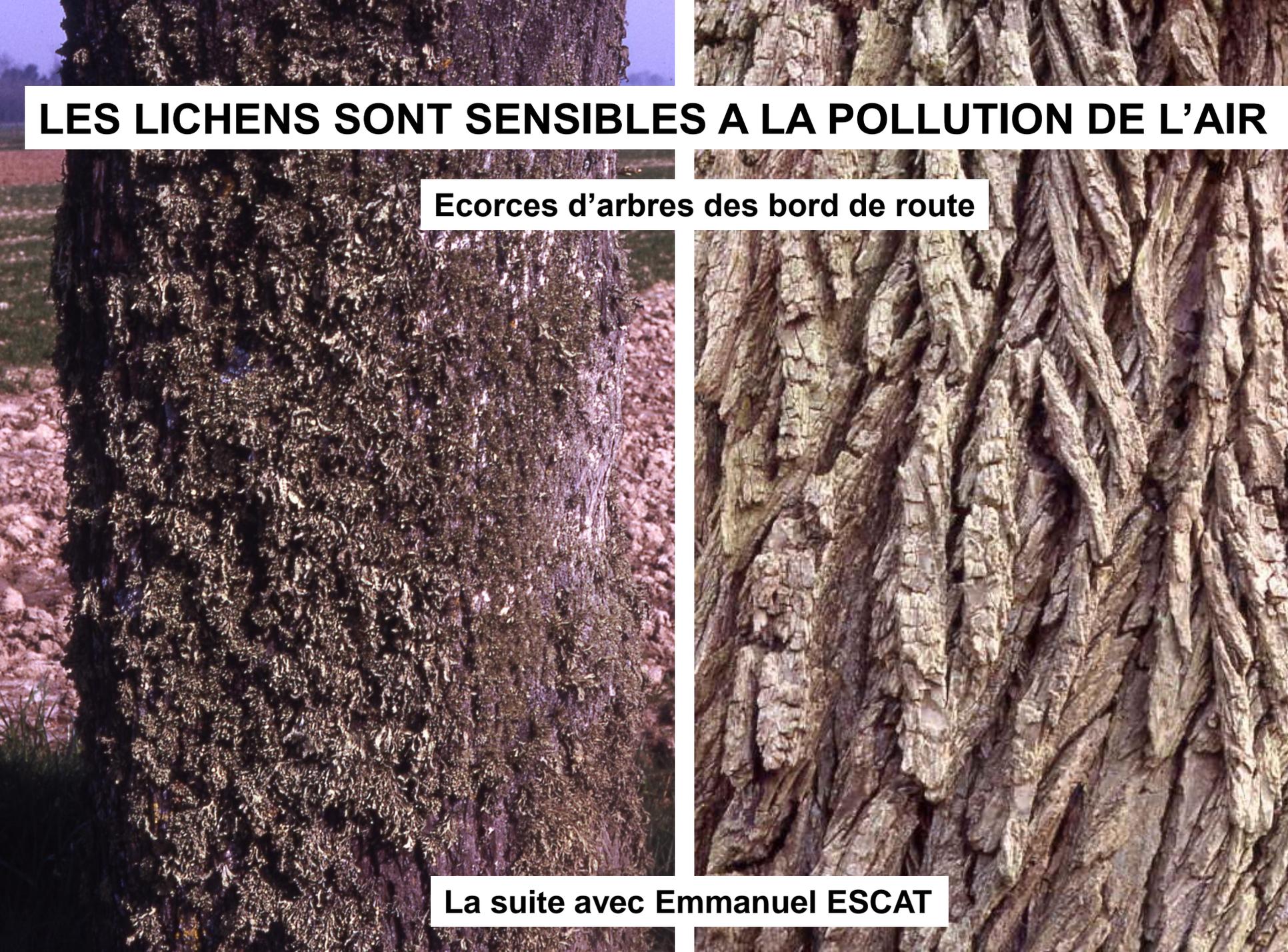
Jeunes mousses sur PHYSCIA



Concurrence entre mousse et CLADONIA



Saxifrages sur mousse sur lichens



# **LES LICHENS SONT SENSIBLES A LA POLLUTION DE L'AIR**

**Ecorces d'arbres des bord de route**

**La suite avec Emmanuel ESCAT**



