



Genetic structure of populations of the bryozoan *Myriapora truncata*, builder and component of the Coralligenous

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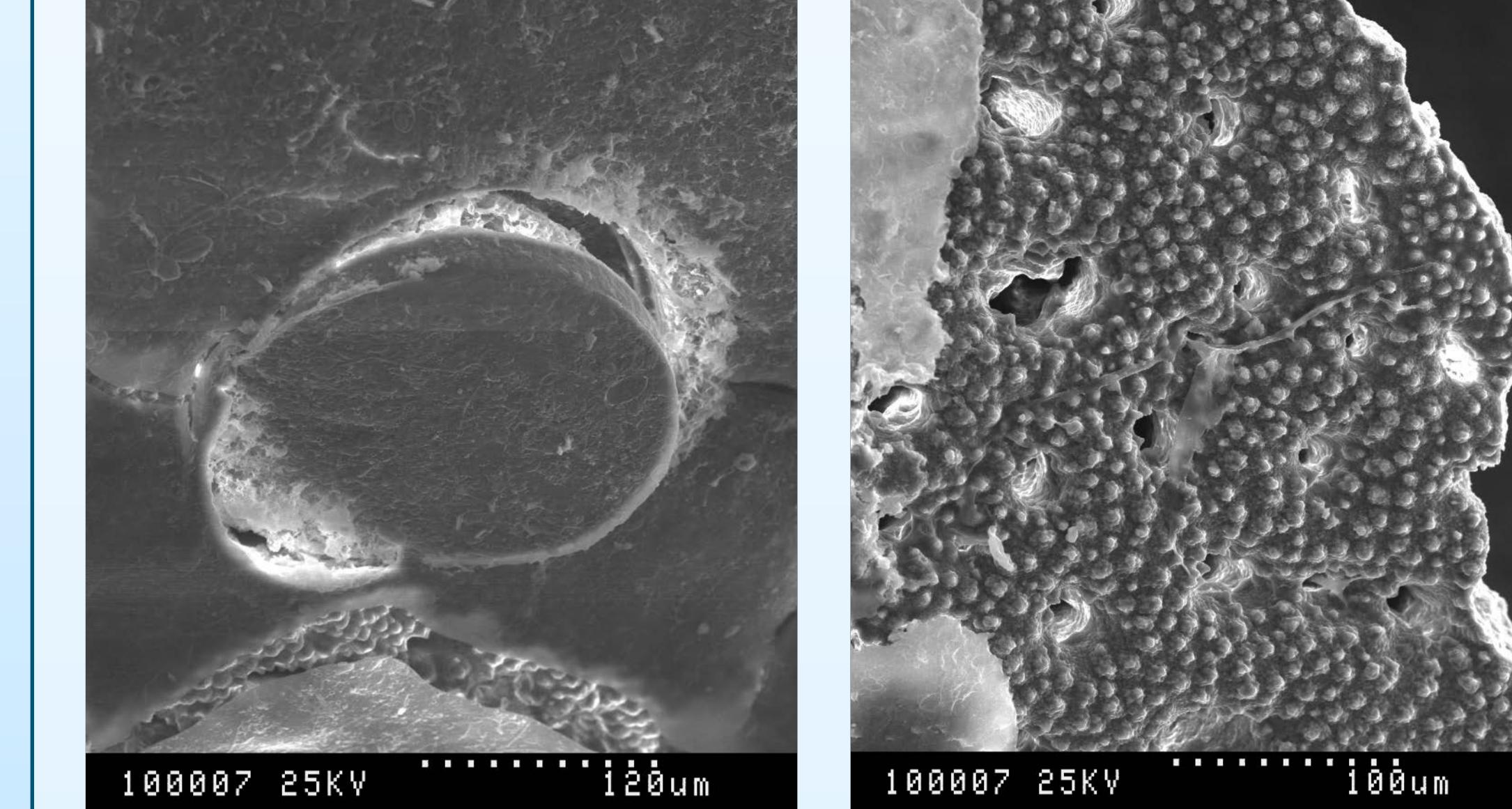
Myriapora truncata



- Colonial organism formed zooids (polypid + cystid)
- Reproductive pattern IV (macrolecithal oogenesis, brooding, placentation)

Phylum	Class	Order
Bryozoa	Gymnolaemata	Cheilostomata

Perspectives (microscopy)



We are also using SEM to compare :

- the size and the thickness of the operculum
- the space between neighbouring zooids
- the skeleton's structure

And check for possible morphologic differences between the haplotype groups and profiles.

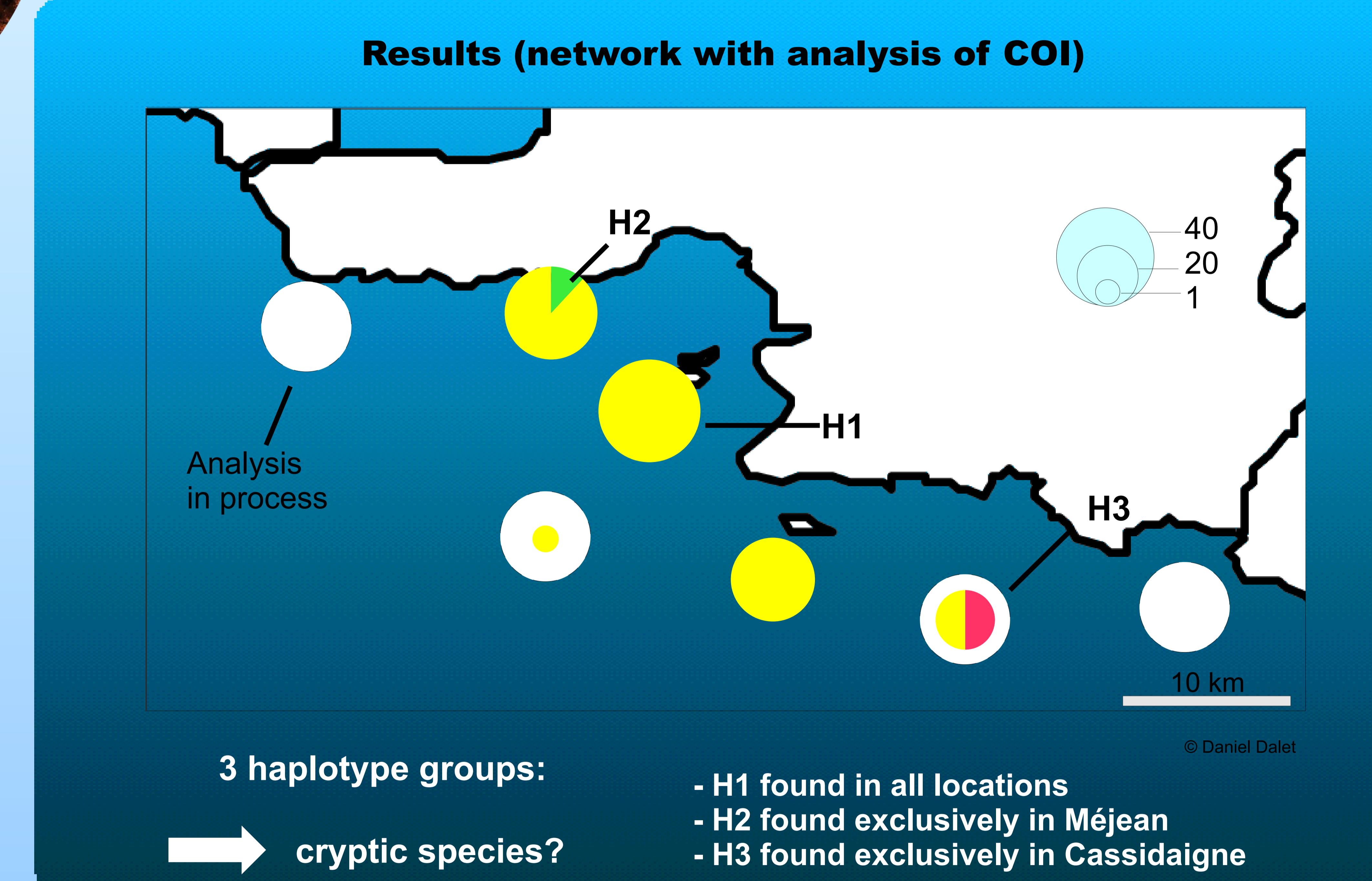
The aims

- Phylogeny of *Myriapora truncata*
Cryptic species?
- Phylogeography with sampling of the Eastern Mediterranean Sea
- Study of the connectivity
Effects of ecologic parameters?

Material and Methods

Sampling of about thirty fragments on each site at 28 ± 1 m depth, distributed on two different profiles.

Genetic analysis with the amplification of a mitochondrial marker (COI) and a nuclear marker (EPIC i21).



CIGESMED and the Coralligenous

The Coralligenous habitat is a whole set of mediterranean ecosystems and habitats which are important in terms of complexity and biodiversity. It provides protection and feeding area to many species. In this context, the European program CIGESMED studies the Good Environmental Status of this habitat focusing on the ecology and the genetic of biobuilders species such as *Lithophyllum* spp. and *Myriapora truncata*.

