



# Microbes from corals and a coral predator (St. Paul's Archipelago)



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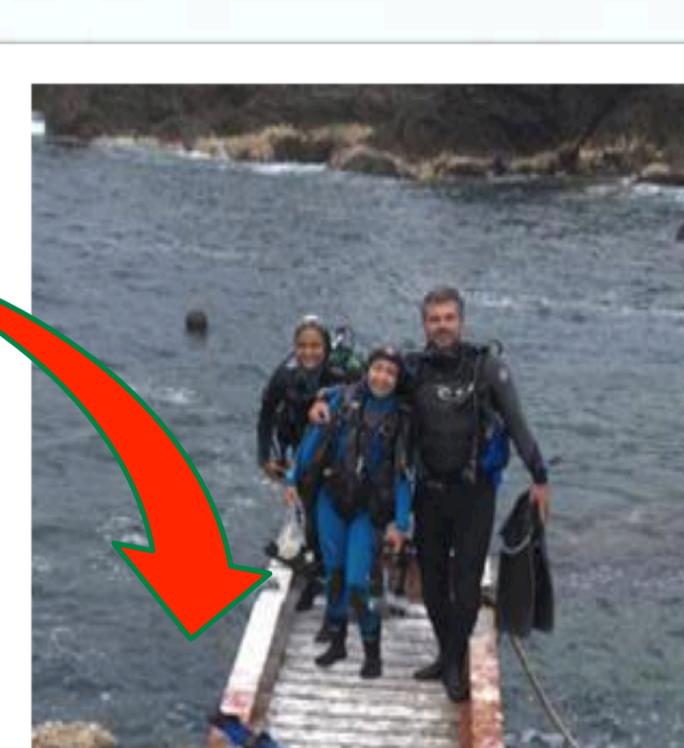
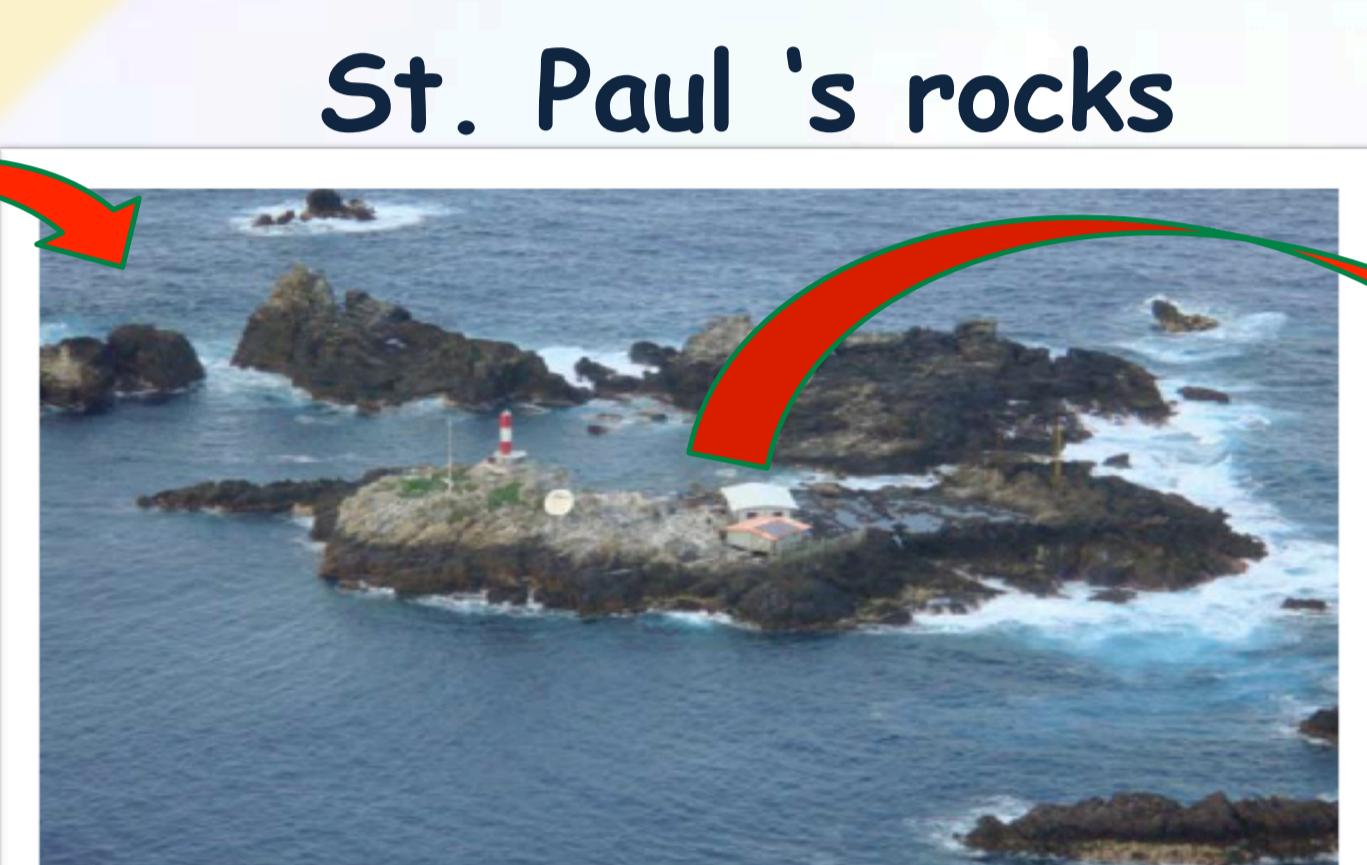
## First taxonomic survey of corals and fireworm associated bacteria from the pristine archipelago St. Peter & St. Paul (Mid-Atlantic Ridge)

Environmental stress factors affect coral' symbionts populations and may cause disease. The best understood case is bleaching of *Oculina patagonica* by *Vibrio shiloi* (= *mediterranei*). The polychaete *Hermodice carunculata* (fireworm) is the bacterial reservoir and vector.

Mid-Atlantic Ridge



St. Paul 's rocks



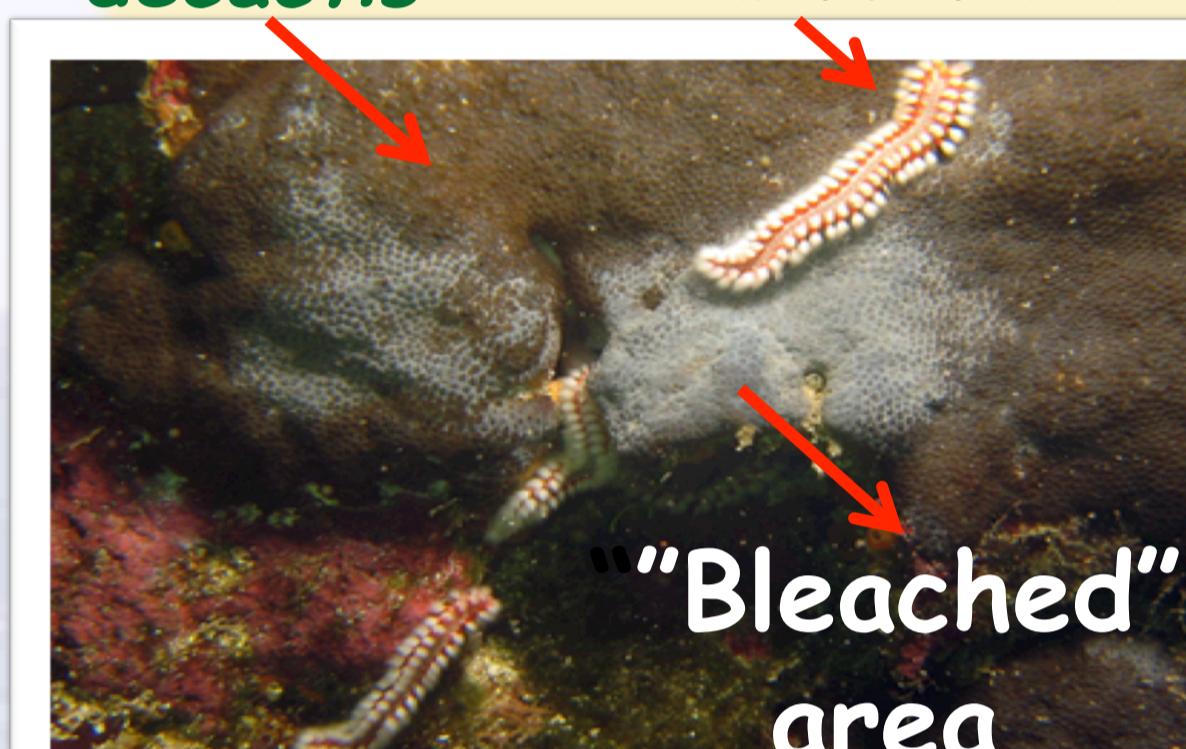
Hermatypic corals

*Scolymia cf. wellsi*

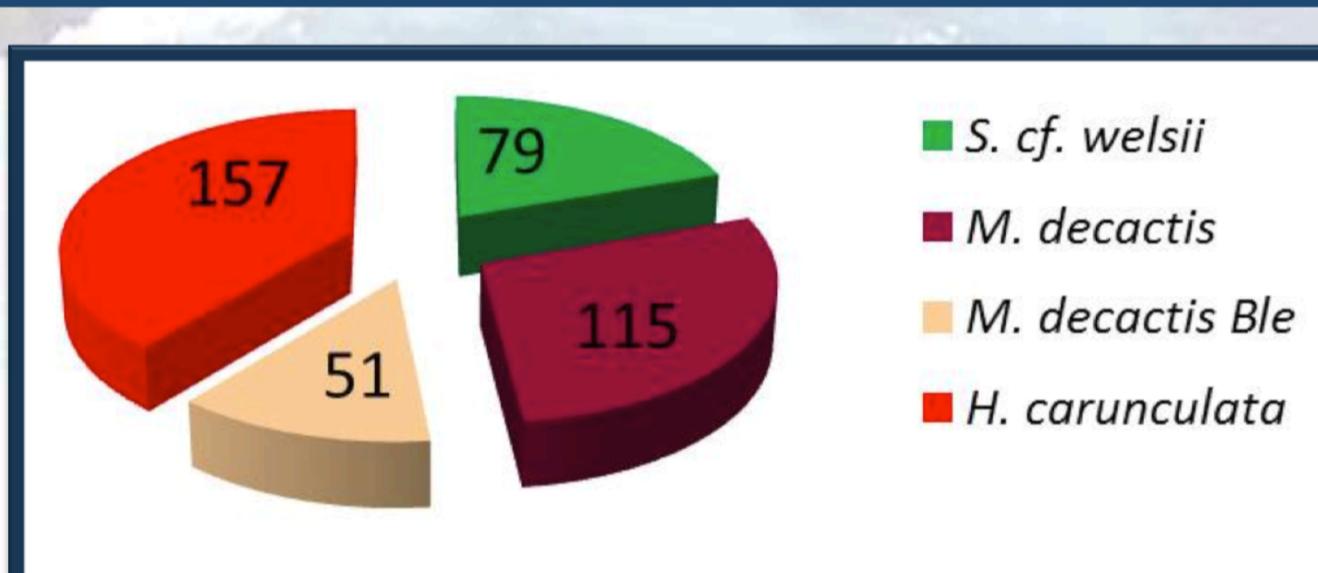
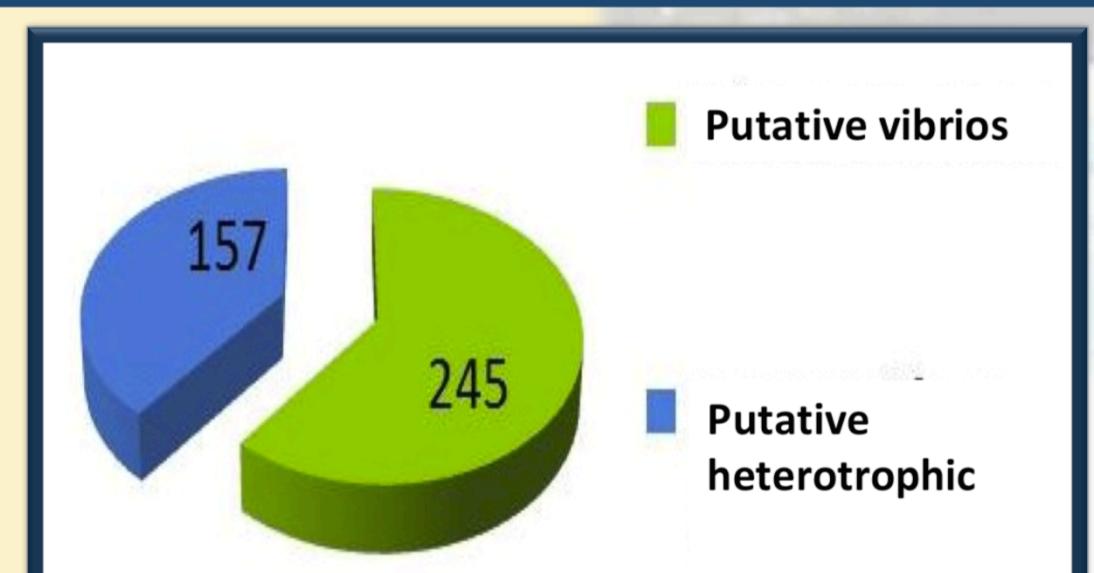


Polychaete

*Madracis decactis*

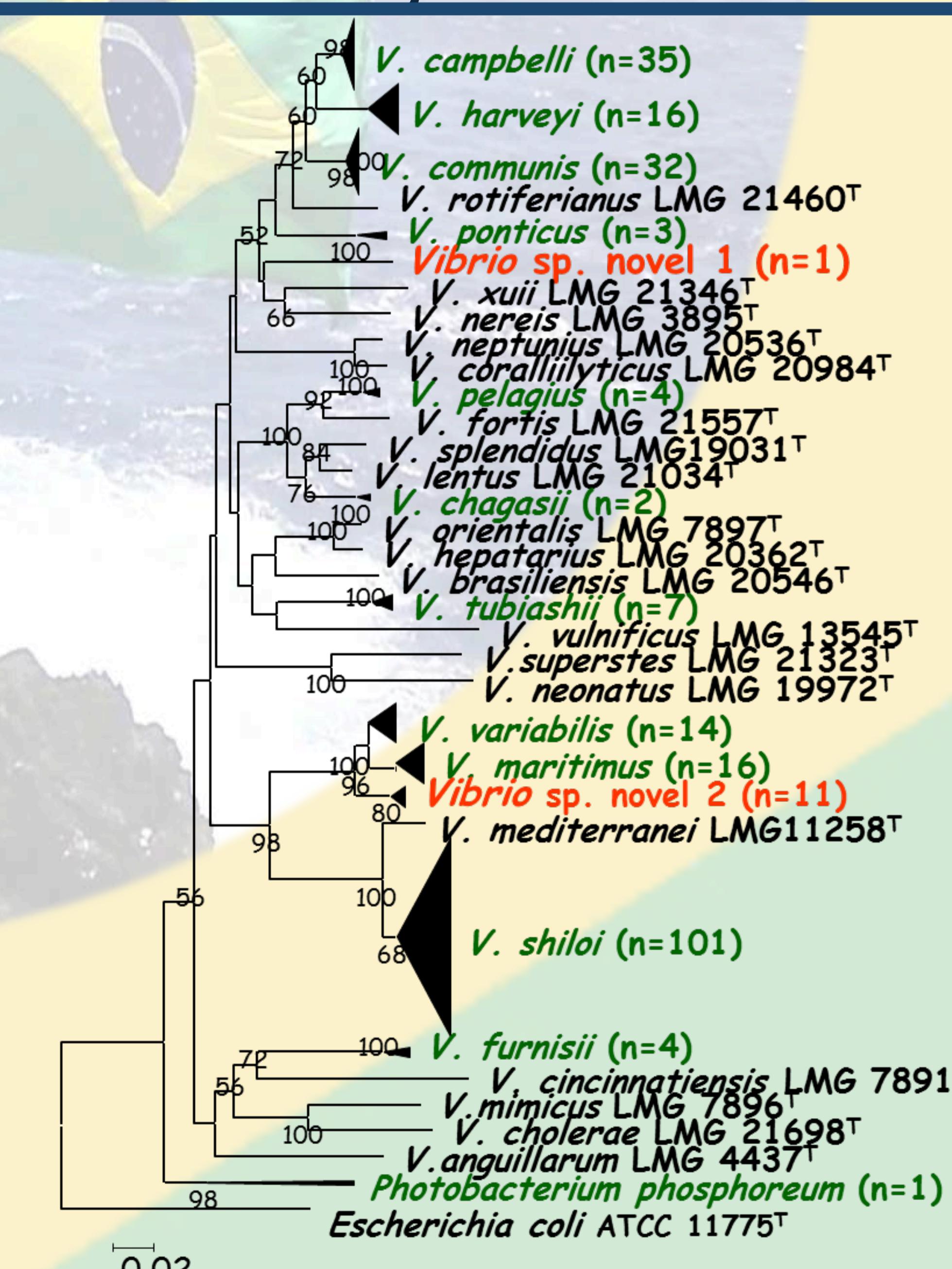
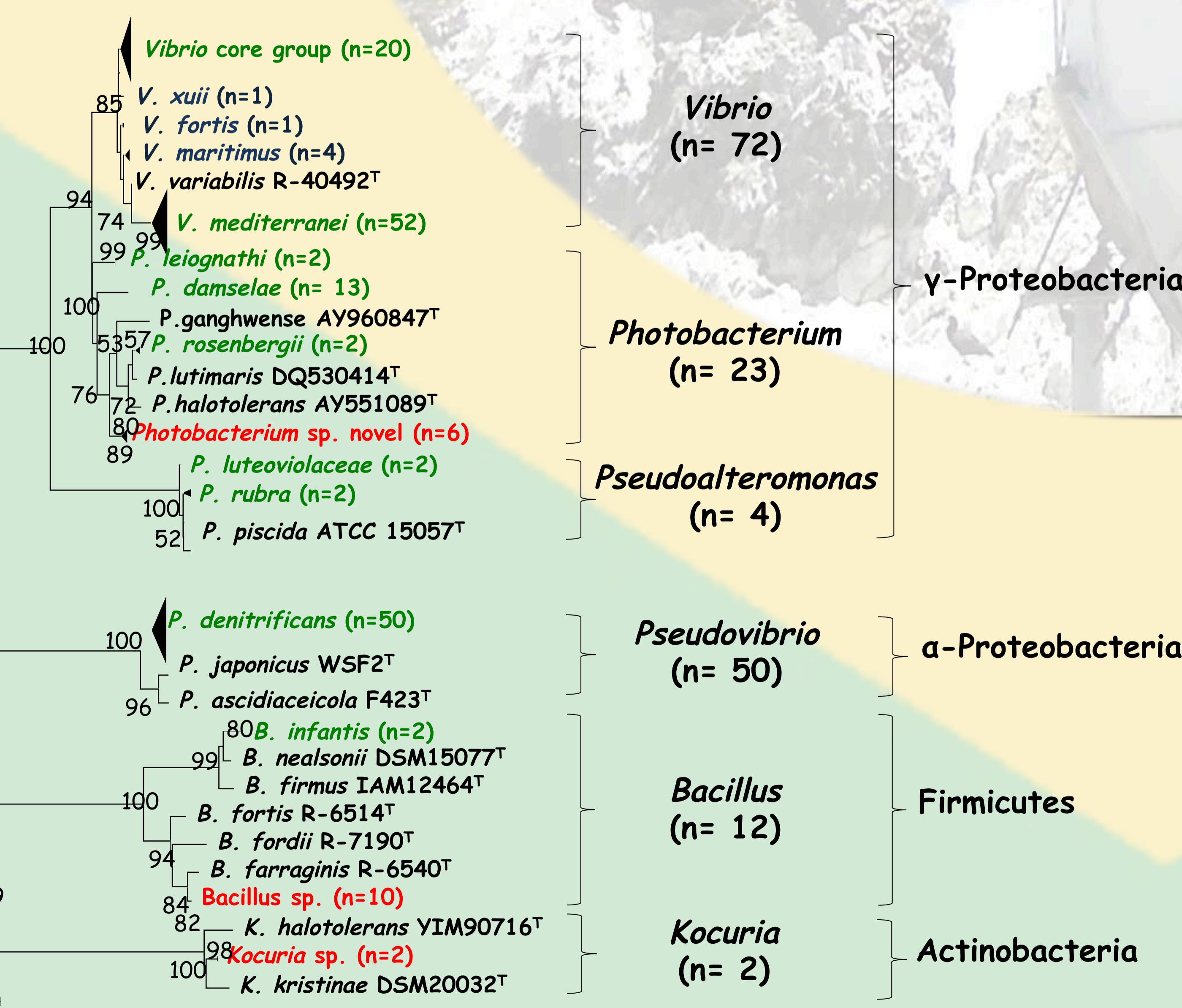


Isolates collection (n=403)



*V. shiloi* (= *mediterranei*) - isolated from the fireworm and *M. decactis* - dominates among vibrios

16S screening: Vibrios are prevalent within 6 groups



## Results Summary

