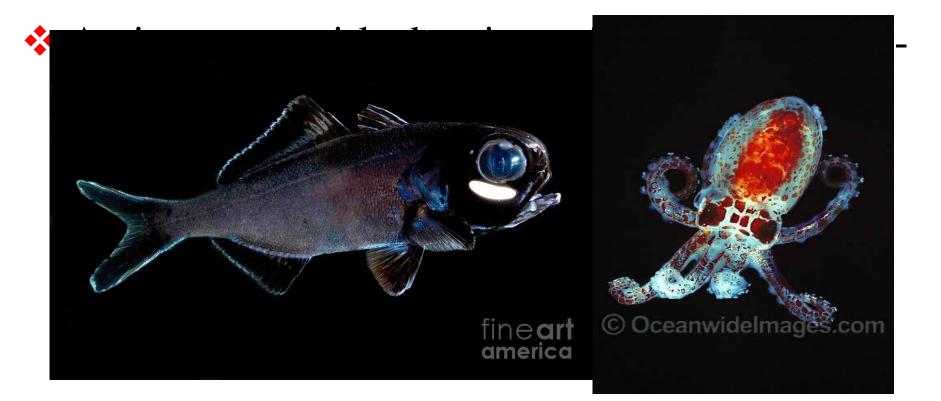
## ANTIBACTERIAL PROPERTY OF MICROBIAL SYMBIONTS ISOLATED FROM DONKEY'S EAR ABALONE Haliotis asinina



John Roderick Madarcos and Jhonamie Mabuhay-Omar College of Fisheries and Aquatic Sciences Western Philippines University Puerto Princesa Campus

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Cnidarians- photosynthetic symbionts (Rowan 1998)



### Sponge – bacterial symbionts (Beer and Ilan)



## Vestimentiferans – chemoautotrophic symbiotic bacteria (Cavanaugh 1994)





## Isolate microbial symbionts from Donkey's Ear Abalone *Haliotis asinina*

Determine the antibacterial property of isolated microbial symbionts

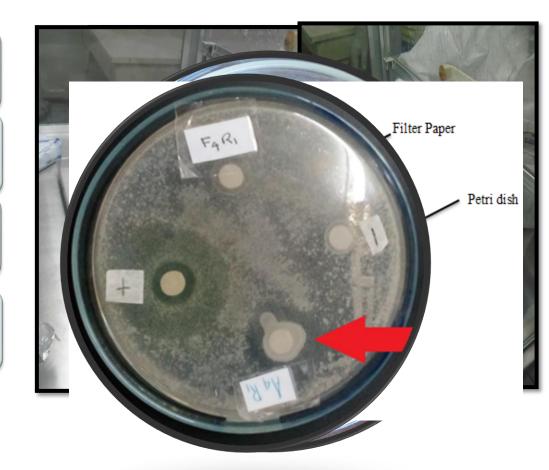
## **METHODOLOGY**

#### SOURCE OF SAMPLE

#### PREPARATION OF HOMOGENATES

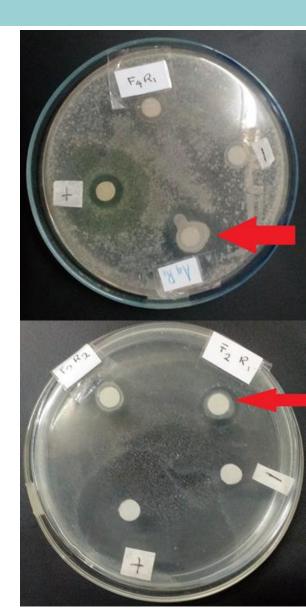
ISOLATION OF MICROBIAL SYMBIONT

ANTIMICROBIAL TESTING OF MICROBIAL SYMBIONTS

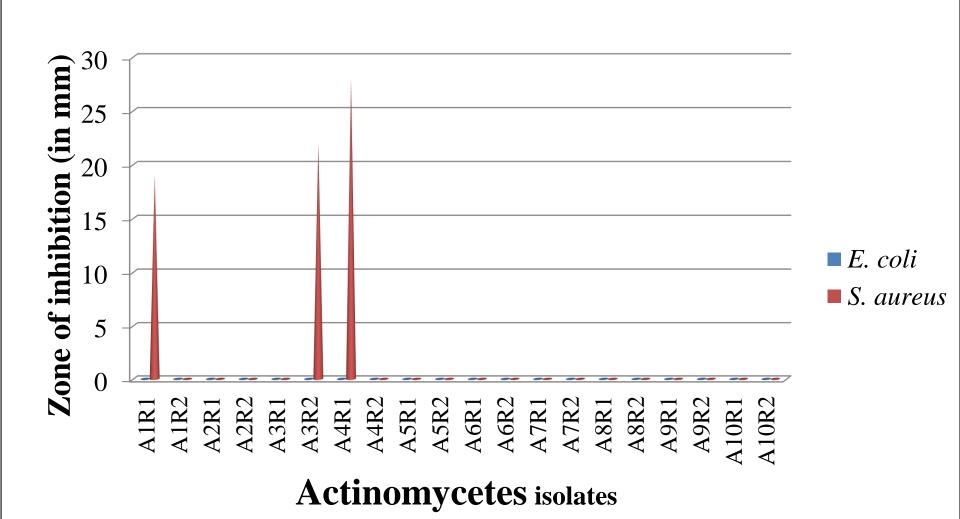


## **RESULTS AND DISCUSSION**

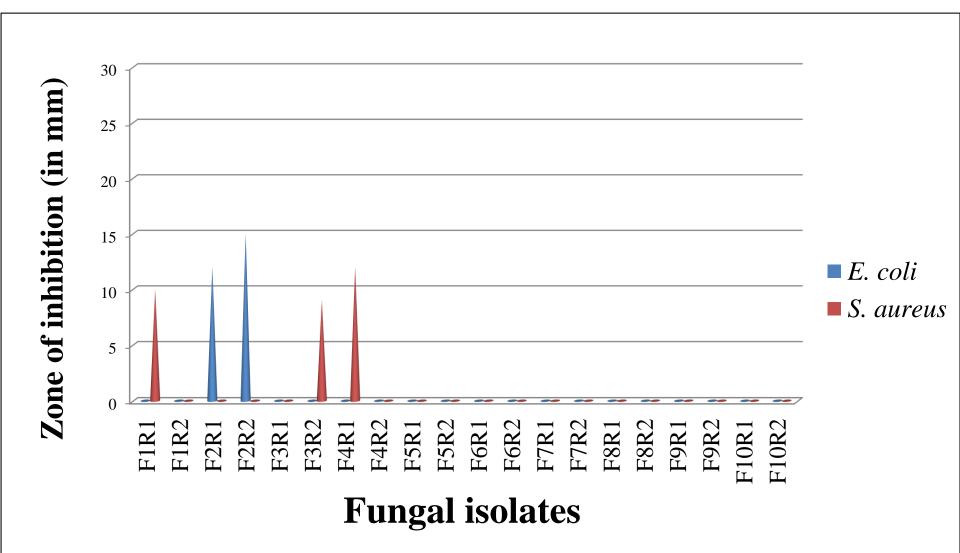
- Microbial symbionts were succesfully isolated(Fungi and Actinomycetes).
- There was a total of 20 isolates, 10 for each of the Actinomycetes and Fungi
- There were 3 actinomycetes isolates and 5 fungal isolates which showed antibacterial property.



# Antibacterial property of Actinomycetes isolates



## Antibacterial property of Fungal isolates



## CONCLUSION

It is proven that there are actinomycetes and fungal symbionts from tropical abalone.

Among these actinomycetes and fungal symbionts, there exist species which are antibiotic producing.

## RECOMMENDATIONS

Isolation and identification of bioactive compounds.

Similar studies using other marine organism like sponge, cnidarians and fishes.

Similar studies using other species of Abalone that is locally available in Palawan.

## Acknowledgements





## Malampaya

## ANTIBACTERIAL PROPERTY OF MICROBIAL SYMBIONTS ISOLATED FROM DONKEY'S EAR ABALONE Haliotis asinina



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