



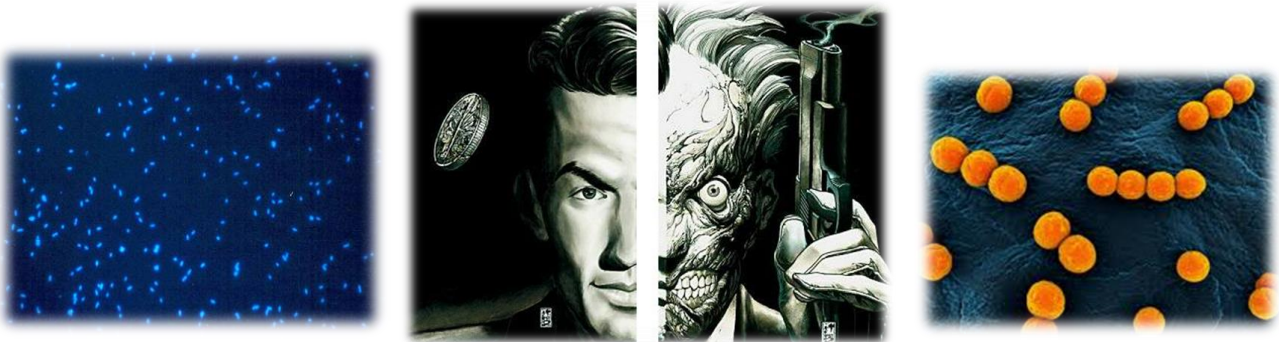
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Giovedì 4 Febbraio 2016

ORE 11:30 SALA RIUNIONI

SEMINARIO APERITIVO



“The good and bad side of marine microbes”

Gian Marco Luna

Ricercatore ISMAR Ancona

Life in the ocean is dominated by unicellular microbes, which account for the largest, yet unseen, fraction of biomass and biodiversity. Planktonic microbes drive the global biogeochemical cycles, regulate the gaseous composition of the atmosphere, influence the Earth's climate, recycle nutrients and organic matter, and decompose chemical pollutants. Millions of microbes populate each drop of ocean water, and their global biomass rivals that of fifty millions of blue whales. While the large majority of marine prokaryotes are essential to sustain life, a small fraction of them can threaten the health of humans and marine organisms by causing diseases. In this talk I will summarize the recent investigations carried out in our laboratories at the ISMAR-CNR in Venice. By combining traditional microbiological approaches with the modern methods based on next generation sequencing of environmental DNA, we have been interested in describing the diversity patterns of aquatic microbes across spatial and temporal scales and down to the deep ocean, understanding how the anthropogenic impact is altering marine microbes, and investigating the spread of pathogens along the coastal ocean, along with their implications for the water quality.

Il seminario sarà seguito da un (piccolo) aperitivo!