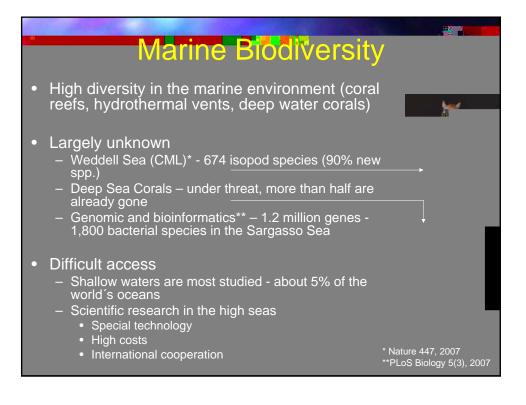
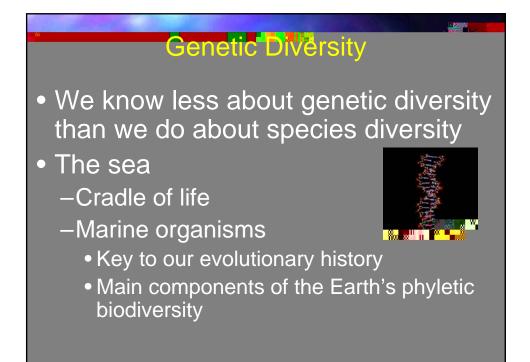
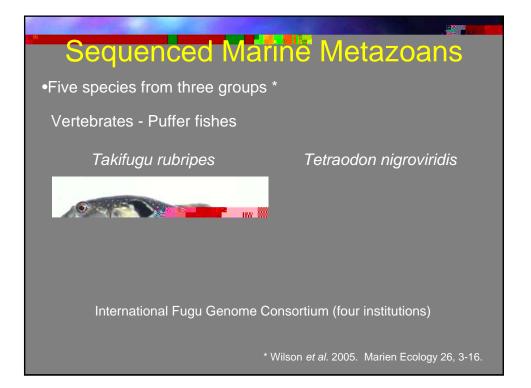
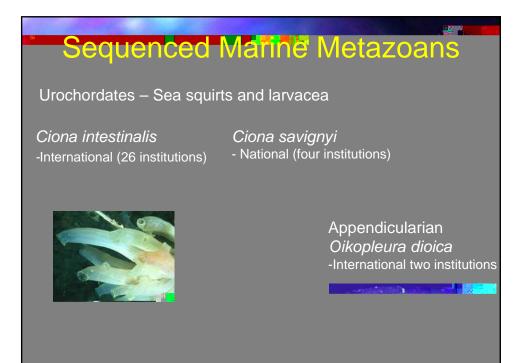


on Oceans and the Law of the Sea – 8th Meeting





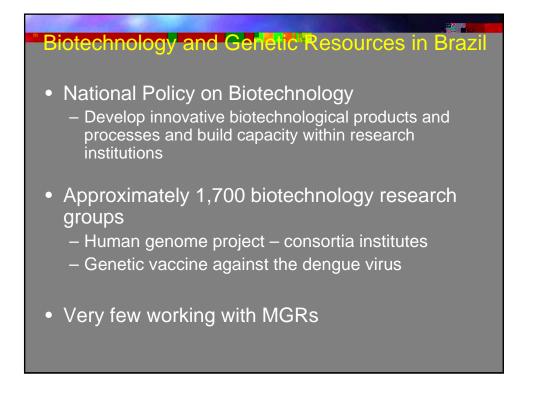




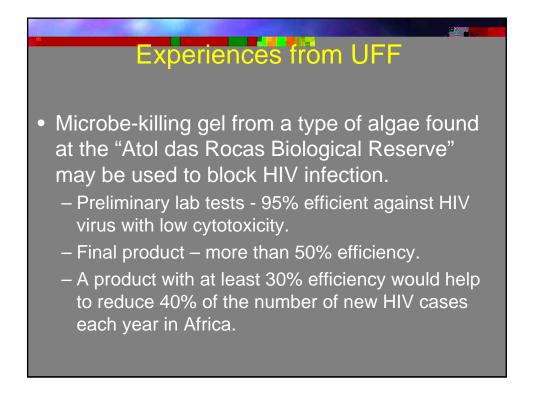


Marine Genetic Resources

- New set of tools
 - Genomics, bioinformatics and proteomics
 - Small microoorganisms
- Promise for understanding
 - Species physiological responses to the environment
 - Gene-environment interactions that determine biodiversity at multiple scales
- Biotechnology
 - Aquaculture (disease control)
 - Pharmaceuticals
 - Cosmetics
 - Environmentally friendly technology

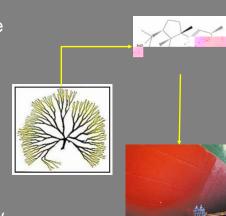






Experiences from UFF

- A secondary metabolite from a seaweed collected at the "Atol das Rocas Biological Reserve" showed antifouling activity.
- Further studies potential use as an environmentally friendly antifouling paint



Extremophiles from the Deep Sea

- Organism which thrives in 'extreme' conditions
- Found on the deep ocean floor, hydrothermal vents
- Genes that help the adaptation of the organism to extreme conditions
- Potential industrial application
 - Lipases catalyze the hydrolysis of long chain triglycerides
 - Biotechnological applications
 - fat and oleochemical industry
 - biodegradable polymers
 - detergent industry
 - Cosmetics
 - production of biodiesel
 - Oceanobacillus iheyensis Proteolytic enzymes, detergents.

Marine Genetic Resources Legal Framework

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- United Nations Convention on the Law of the Sea (UNCLOS)
 - Living resources + Marine Scientific Research
 - Benefit of mankind as a whole
- Convention on Biological Diversity (CBD)

 Jurisdictional Scope

Marine Genetic Resources Conclusions

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- Ad Hoc Working Group, established by the UNGA, to be convened in 2008.
- MGRs uses beyond national jurisdiction should aim to provide benefits to all populations.

THANK YOU