



Announcement iAtlantic Online Seminar

Date: 2 September 2020

Time: 16:00 SAST

Topic: Biodiversity inventories by environmental DNA – a short Introduction, plans for iAtlantic, advantages and possible improvements

Speaker: Babett Günther, French National Centre for Scientific Research

Synopsis: The metabarcoding of environmental DNA (eDNA) opened large prospects for future biomonitoring of marine environments. During the ATLAS project, a molecular and bioinformatics pipe was developed for metabarcoding standardized mitochondrial COI and ribosomal 16S, 18S barcodes, allowing the inventory of biodiversity from bacteria until vertebrates. I will present our plans for iAtlantic, including advanced analyses with various abiotic factors. The metabarcoding of eDNA allows fast, cheap, better-standardized inventories with ongoing improvements for conservative and reliable assessments. However, most species in the deep sea are unknown; the lack in reference systems and analysis of relatively short fragments limits the reconstruction of robust phylogeny resulting in taxonomic biases. Therefore, I will briefly introduce the long sequencing technology offered by Oxford Nanopore and a first capture by hybridization protocol.

Joining instructions:

Zoom webinar link: <https://us02web.zoom.us/j/81619059968>

Webinar ID: 816 1905 9968

Or join by telephone: <https://us02web.zoom.us/u/kbMjUPWzOg>

The iAtlantic Project is a multidisciplinary research programme seeking to assess the health of deep-sea and open-ocean ecosystems across the full span of the Atlantic Ocean. For more information on the iAtlantic Project, please visit <http://www.iatlantic.eu/>