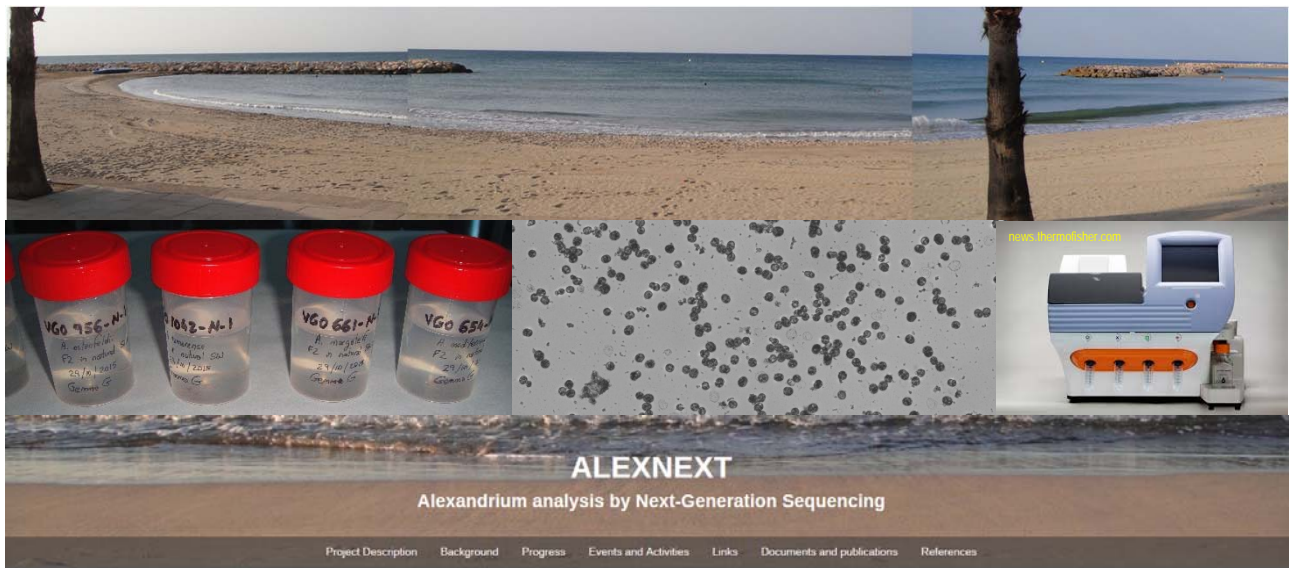


ALEXNEXT Alexandrium analysis by Next-Generation Sequencing

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MAIN GOALS:

- ❑ To adapt Next-Generation Sequencing (NGS) techniques for the routine identification and quantification of harmful algae, with special focus on toxic dinoflagellates



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EXPECTED RESULTS:

- ❑ Assessment of the suitability of NGS techniques, specifically Ion Torrent™ technique, for the identification and quantification of marine harmful algae, applied on a genus with toxic and non toxic species, *Alexandrium* sp.
- ❑ Identification of challenges, gaps and opportunities for the development and implementation of a NGS technique-based protocol for the routine monitoring and risk assessment of marine harmful algae and harmful algae blooms (HABs).