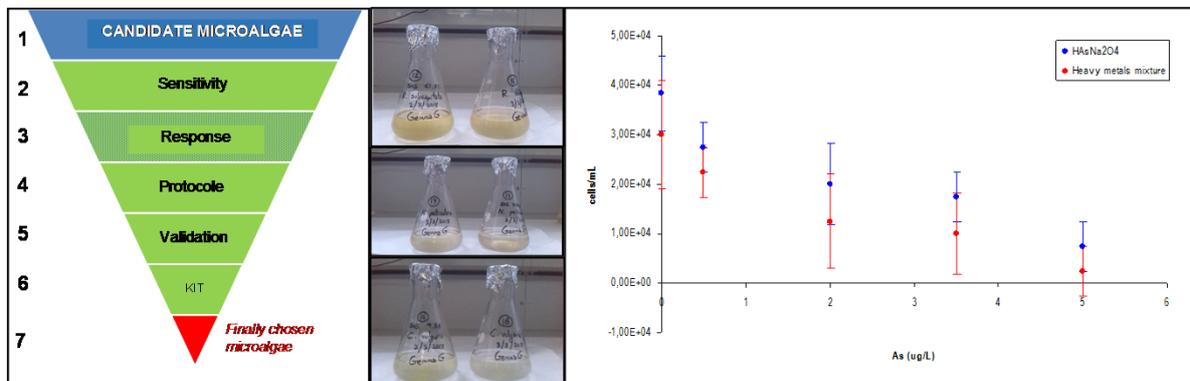


MALGARES: MicroALGae-based RESearch Exploring the feasibility of microalgae-based pollutant detection kits

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MAIN GOALS:

- To assess the feasibility of a kit for heavy metals detection based on microalgae
- To identify which freshwater microalgae specie/s is/are the most suitable for this purpose



EXPECTED RESULTS:

- Identification of the most suitable freshwater microalgae to be part of a biosensor or detection kit for heavy metal detection
- Characterisation of microalgae performance under suboptimal test conditions (growth stage, exposure time, environmental conditions, etc.)
- Assessment of the effects mixtures (pollutants' mixtures and natural samples' mixtures) on the microalgae growth inhibition assay performance
- Identification of challenges, gaps and opportunities for the development of a living freshwater microalgae-based tool for the detection of heavy metal contamination