Biohydrogen production from anaerobic digestion of carbohydrate organic matter

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Investigations carried out by CWBI

- Selection and characterization of bacteria strains
- Optimization of culture conditions for the most interesting bacteria strains i.e. *Clostridium sp* : influence of pH and H₂ partial pressure, ...
- Design of highly efficient bioreactors : biofilm formation, H₂ transfer, ...
- Scale-up of the biotechnological process : 20 L → 650 L, fuel cell operation, biomethanisation, ...

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**Dark fermentation is more adapted for industrial H₂ production from wastewater and biomass**

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