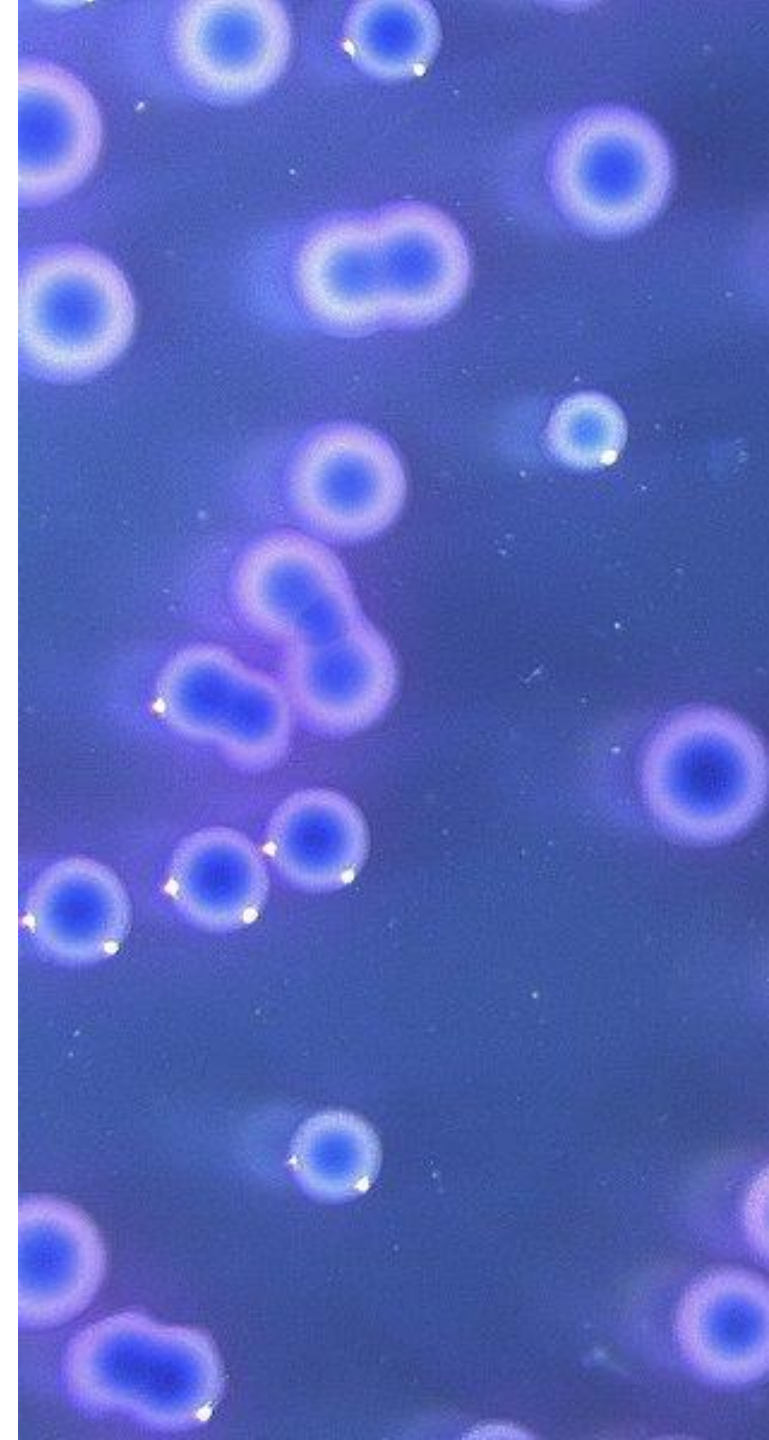




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R&D

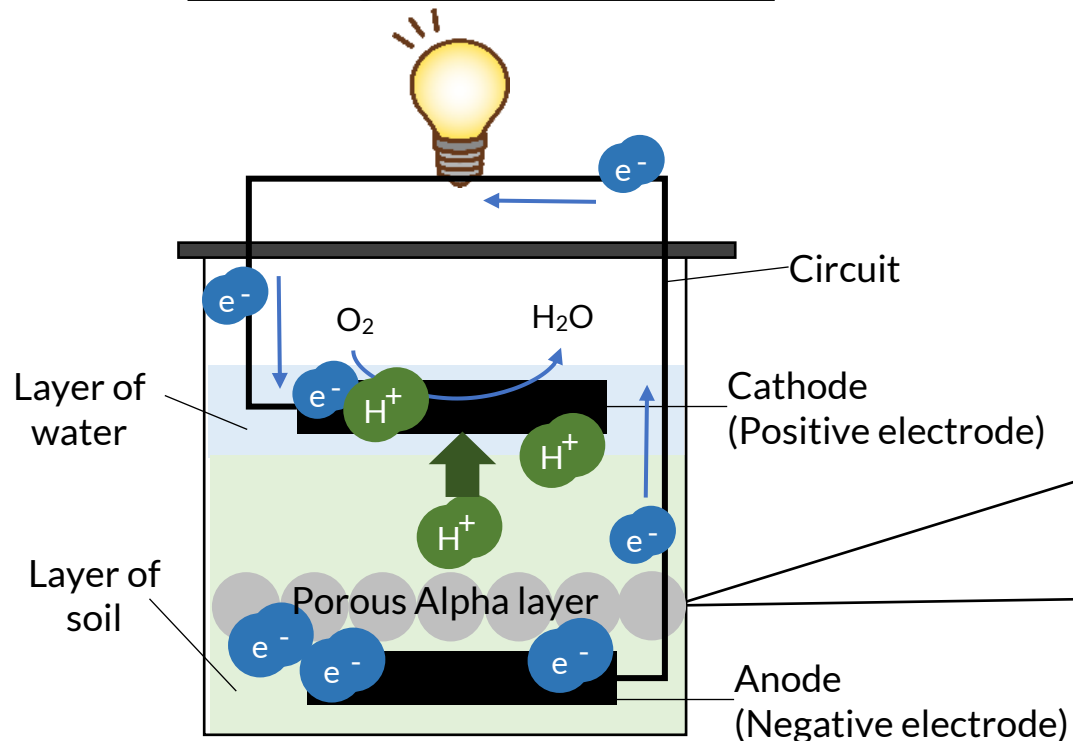
Microbe Fuel Cells



Porous Alpha energy generation concept

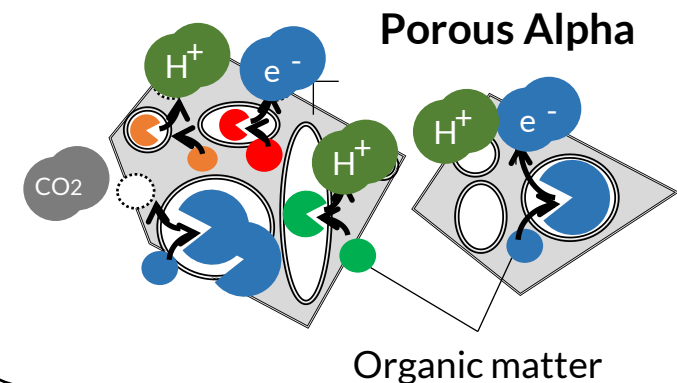
MFC generates electricity using the electrons that are produced when microbe in Porous Alpha decompose organic matters

How to generate electricity



Concept image in the Porous Alpha

Anaerobic microorganisms decompose organic matter into hydrogen ions, electrons, and carbon dioxide

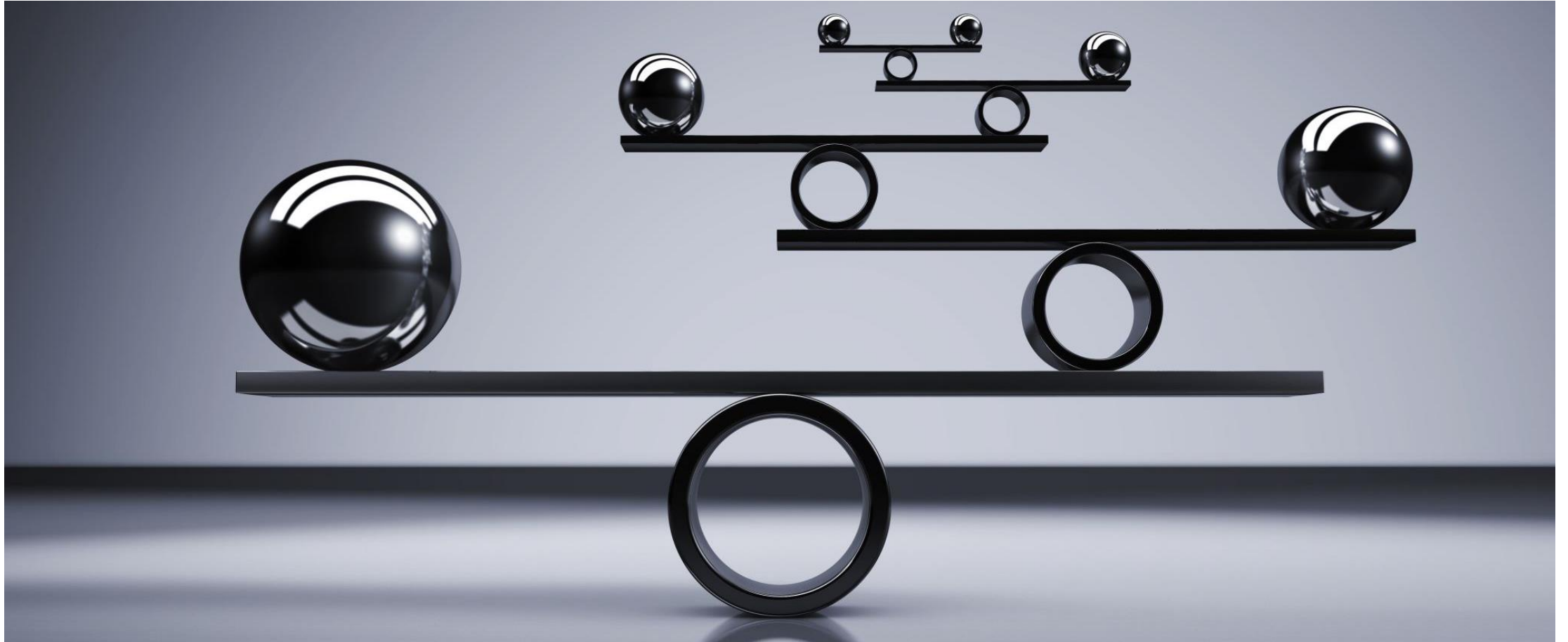


1. Electrons (e^-) and hydrogen ions (H^+) are generated by decomposition of microbe
2. The electrons (e^-) flow from Anode to Cathode through the circuit
3. The electrons are digested by redox reaction at Cathode (hydrogen ion (H^+) reacts with oxygen (O_2) to become H_2O). $<4H^+ + O_2 + 4e^- \Rightarrow 2H_2O>$
4. By this process, the electrons flow through the circuit between Anode and Cathode, and energy is generated

Lab and Live Testing



Scale Up





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