



Urine-fuelled generation of organo-fertilisers and liquid derivatives (UGOLD)



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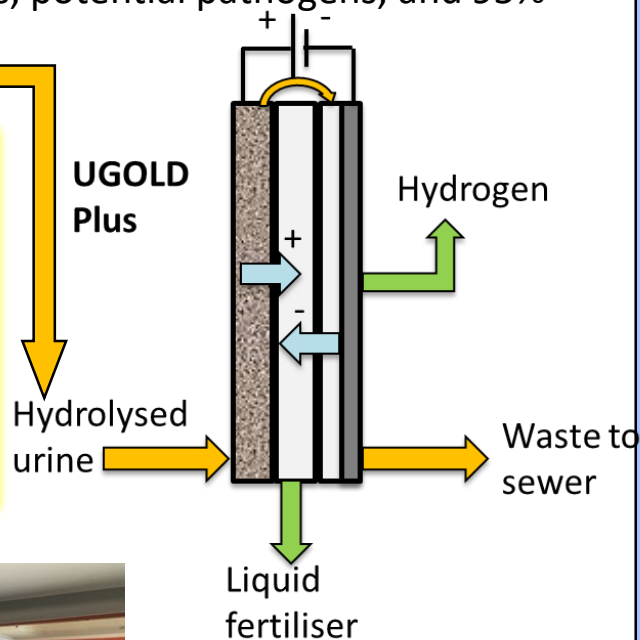
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Benefits and risks of separating urine at the source

- **Water savings** up to 20% of current consumption due to avoided flushing
- **Reduced costs** and increased **flexibility** of urban wastewater treatment in fast-changing urban environments
- **Environmental protection**: removing pollutants upstream of sewer networks
- **Reduced sewer corrosion and odour**: urine accounts for 75% of sulfate in human excreta
- **BUT...**urine needs to be treated because it contains pharmaceuticals, potential pathogens, and 95% water.

Ugold Plus is a bioelectrochemical technology that captures nutrients from urine while rejecting bacteria, viruses and pharmaceuticals. It also produces hydrogen as a valuable by-product.



Tomato trials

No fertiliser Ugold



Ugold Raw urine

UGOLD composition (example)

N: 2.4%

P: 0.16%

K: 0.8%

Na: 0.2%

Acetic acid: 1.9%