

Biobatteries

Electricity from mud microbes



Vast areas in the world are not connected to the power grid. When in need of electricity, the people who live there will need to use alternative energy sources. Solar, wind and hydro energy are probably the best known options, but only few people know that bacteria that live in the soil can generate electricity too.

During this workshop we will build our own biomud battery reactors. A series of quick experiments will give insight on how bacteria produce energy and how this can be put to use.

The workshop consists of two parts:

- 1) Setup of the bioreactors and online datalogger.
- 2) Analysing and interpreting the data (after one week).

Duration:

3 hours

Number of participants:

Max 30

Subjects:

Microbial fuel cells
Metabolism
Electricity / Conductivity
Ohms Law
Soil microbiology

All Open Wetlab workshops consist of an introduction into the subject and it's making, a concise biosafety training, the making itself an optional artists presentation and a dialogue with the participants about the theme and background of the workshop.

More information can be obtained by contacting wetlab@waag.org and at waag.org/openwetlab

Booking: Open Wetlab Workshops can be booked by contacting diensten@waag.org