



open wetlab  
waag society



# Mystery Meat PCR

*Diagnose your hamburger's DNA*



Identify whether your favourite meat product contains chicken, beef, pork, horse, goat or sheep. We will extract DNA from the samples, add a blend of the DNA primers, added PCR mix, and then run each solution through the PCR process using only Open Source hardware equipment.

This experiment is based on a simplified version of DNA barcoding and teaches some of the most common and useful concepts in molecular biology, including DNA extraction, polymerase chain reaction (PCR), and gel electrophoresis.

Additionally the event can be extended with a "build-your-own open hardware" workshop that will be used during the experiment.

**Duration:**

5 hours

**Number of participants:**

Max 30

**Subjects:**

DNA extraction  
Polymerase Chain Reaction  
DNA gel electrophoresis  
Data analysis  
Open Source Hardware

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](mailto:wetlab@waag.org) and at [waag.org/openwetlab](http://waag.org/openwetlab)

**Booking:** Open Wetlab Workshops can be booked by contacting [diensten@waag.org](mailto:diensten@waag.org)

*Pictures by Claudia Marginean; Protocol based on methodology of MadLab and La Paillasse*