

Lab-on-Paper technology

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A. Main topics

- Exploitation of the properties of paper as platform for laboratory applications
- Hydrophilic and hydrophobic materials

B. targeted audience

- 5-18 years old students

C. Key concepts

- Versatility of paper
- Hydrophilic/hydrophobic materials
- Microfluidics

D. Experimental activity

In this toolkit there are three envelopes with three different activities to explore the Lab-on-Paper technology. These activities aim to help the students explore the properties and wide variety of applications of paper and learn about hydrophobic and hydrophilic materials.

This toolkit is very comprehensive, and the activities can be carried out by participants from 5 to 18 years old. The deepening of the concepts inherent to the experiment must be done according to the age of the participants.

E. Toolkit material

- Three envelopes with three different activities
- Plastic pipettes
- Aqueous food dye solutions
- Paper holders

F. RM Tutors

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