RESEARCH TOOLS

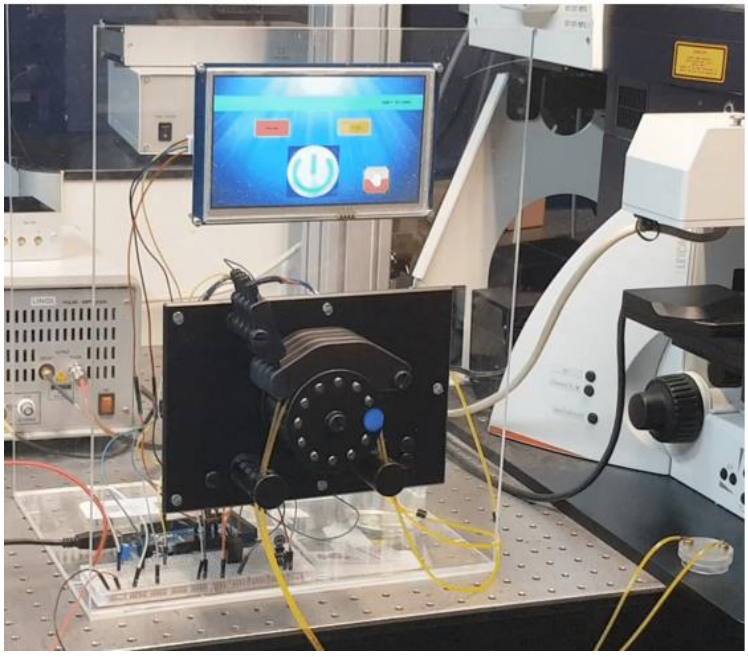
Embedded systems for perfusion and distribution of volatile molecules

During experiments you could have to synchronize injection of liquid or gas to image acquisition. Because a wrong synchronization can disturb the image acquisition you have to stay next to your experiment. We propose a software embedded in a touchscreen which allow you to synchronize automatically injection and image acquisition.

DESCRIPTION*

The technology is an autonomous and programmable system allowing a low volume injection of liquid (medium, drug, hormones, volatile molecules) or gas (odorous) solutions by a peristaltic pump.

This device is coupled to a real-time image acquisition (confocal microscope or any microscope with TTL driver system capabilities).



Full prototype with a peristaltic pump - © CBI

TECHNICAL SPECIFICATIONS

- Microscopes and systems can be connected to a trigger box and a microprocessor.
- The control interface is embedded in a touchscreen. The control is done by a programmed microprocessor.

COMPETITIVE ADVANTAGES

- Easy to use
- Computer free
- Programmable
- Real-time acquisition
- Unexpensive modules

APPLICATIONS

- Research tool
- Cellular Biology

INTELLECTUAL PROPERTY

- Copyright

DEVELOPMENT STAGE

- Technology validated in relevant environment

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LABORATORY & PARTNER

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