

A REVOLUTION IN CELL-CULTURE

To cultivate cells, what a biological scientist is looking for?

A classical incubator?

- quite often the imaging devices are placed in the incubator, this means that there's only one culture condition
- an incubator can't monitor multiple conditions in real-time, to do so several incubators are necessary
- an incubator isn't versatile and to mimick a biological environment the conditions should be variable on fine request

So an incubator isn't practical, its use is limited, it's bulky and static and isn't able to mimick a biological niche and its micro-environment

Or an advanced solution?

MiBA the ALL-IN-ONE

miniaturized incubator

- **Real-time observation** without disruption of the cell culture: intermittent or continual perfusion.
- Multi-time monitoring for long-term cell culture: from 1 until 21 days or more.
- **Independant monitoring** for each micro-incubator: variable parameters: pH, hypoxia, T°C...
- Multi-imaging: suitable for right-inverted microscopies/macroscopies
- Multi-units: incubators can be connected to each other in serial ou parallel configuration to mimick additive co-culture.
- Multi-samples: inserted chambered coverglass for multi-conditions analyses.
- **Multiplexed:** 1-3-6-9 or more units can be connected and monitored with feedback or loop control (paracrine effect, releasing...)
- Multiparameters: to mimick biological microenvironmental niches for cells and tissues (differentiation / maturation / growth/senescence/death)
- Mechanical Stress: applied shear stress to simulate specific laminar flow (vessel, capillary...)
- Mobility: suitable for culture at the office, core facility, ... powersupply 110-120 V
- Sharing: suitable for personal use or between collaborators
- Economic: all applications in one device for all
- Specific development for a special need: very fast change of medium / microenvironment / materials suitable for MRI . . .





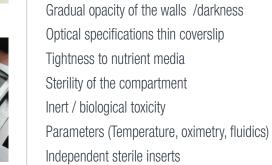
Miniaturization: multi-pathways





Monitored Single channel thermostation

Multipathways: 3 MIBA can be monitored independently



Multiplexing

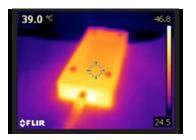


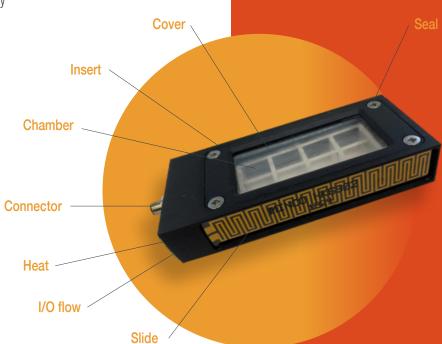
COMPATIBILITIES: Micro/Macro/DHM

Stage Microscope (Leica Microsystems, Zeiss, Olympus, Nikon, DHM...)

Material compatible (UV - Vis and IR)

Cell culture (chambered coverglass)





Miniaturization

(9 x 4 cm²)

For more information or a special need

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