

The DIVA Caps model extends the limits of experimentations on mature adipocytes

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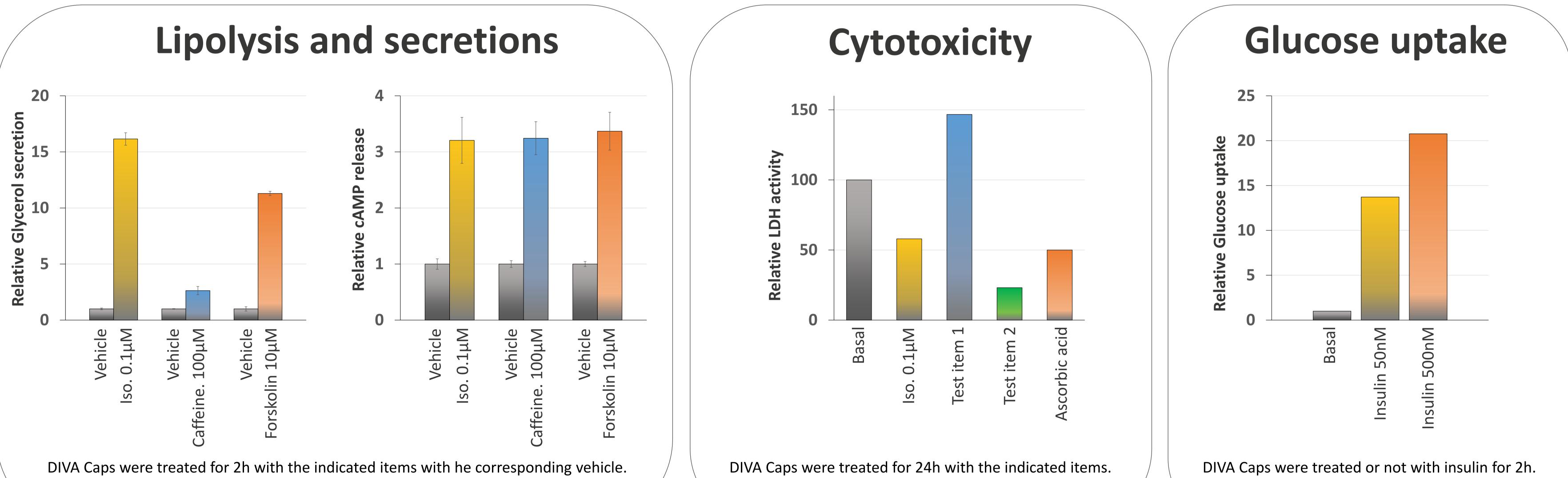


- Encapsulation of freshly isolated adipocytes
- Improvement of adipocytes survival up to 7 days
- Conservation of cell donor characteristics
- Adapted for multiparametric & high throughput screening
- Modulable gel composition to mimic microenvironment

A standardized process for a customized model

Select the capsule composition Select the anatomical Select the donor Select your tests among our 3. or environment validated assays characteristics localization • Insulin • Male/Female Sucutaneous Inflammed sensitivity • Age, BMI • Fibrosis & • Facial • Fibrotic Inflammation • Healthy/Sick • Visceral Pollution Metabolism

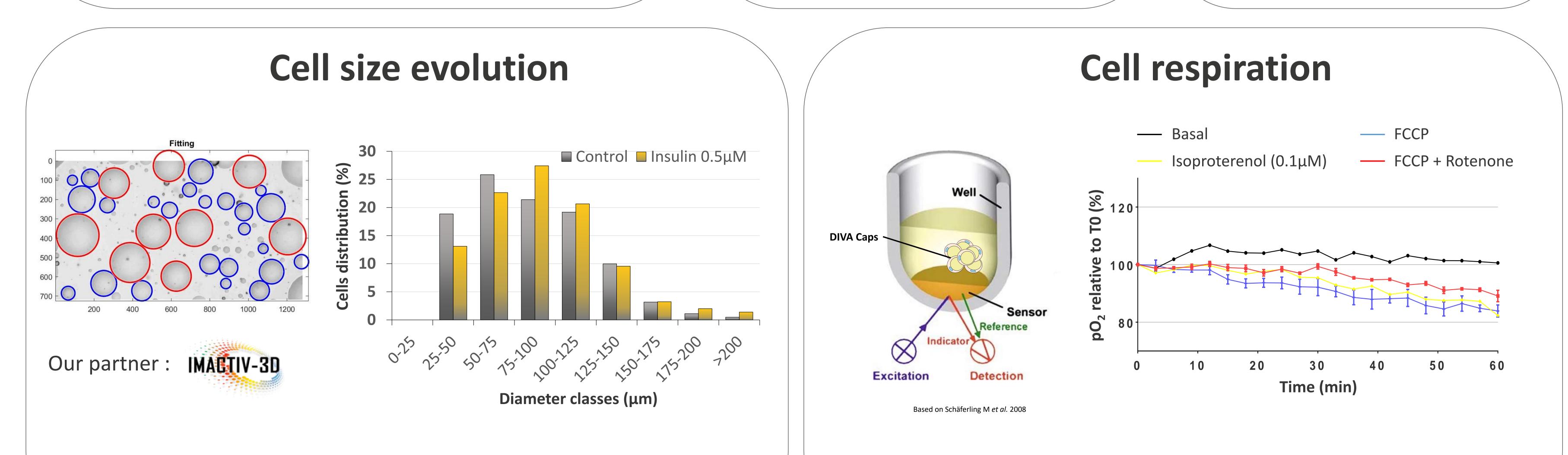
Application cases



Extracellular media were collected, and Glycerol or cAMP were quantified.

Extracellular media were collected, and Lactate Dehydrogenase released by dead cells was quantified.

Intracellular glucose up-taken by the cells was



DIVA Caps were treated or not with insulin for 72h. Capsules were then fixed and dissociated. Cell suspensions were imaged by optical microscopy and acquired images were analyzed via a specific software dedicated to adipocytes size analysis developed by IMACTIV 3D.

DIVA Caps were cultivated in Oxoplate 96 wells. Before measurements, the capsules were treated with the indicated items. FCCP= uncoupler of mitochondrial oxidative phosphorylation, for evaluating the maxima O₂ consumption capacity. Rotenone= inhibitor of respiration chain. The presence of O_2 in the medium was evaluated by detection of emitted fluorescence