## YOUR NEEDS

## OUR SOLUTIONS

- Monitor pre-adipocyte differentiation
- Quantify the production of lipid droplets
- Fully automated imaging and image analysis
- Robust data, short delay and cost-saving


## General Procedure

(D\|VA Cell isolation, culture and labelling EXPERTISE supported by DIVA Expertise



## Image acquisition:

- Acquisition done with structured light or confocal microscopy.
- Several fields of view to maximize the amount of data.
- Image stack for each field of view to get each cellular structure on their focal plane.



## Image processing:

(1)Segmentation of droplets clusters on the Bodipy channel, calculation of the recognized surface area representing the lipid production.
(2) Detection and counting of nuclei on the DAPI channel. Estimation of nuclei in differentiation by colocalization with lipid droplets.
(3) \& (4) Individual droplet detection, estimation of average
 diameter.
(5) Illustrative images on representative fields of view.



