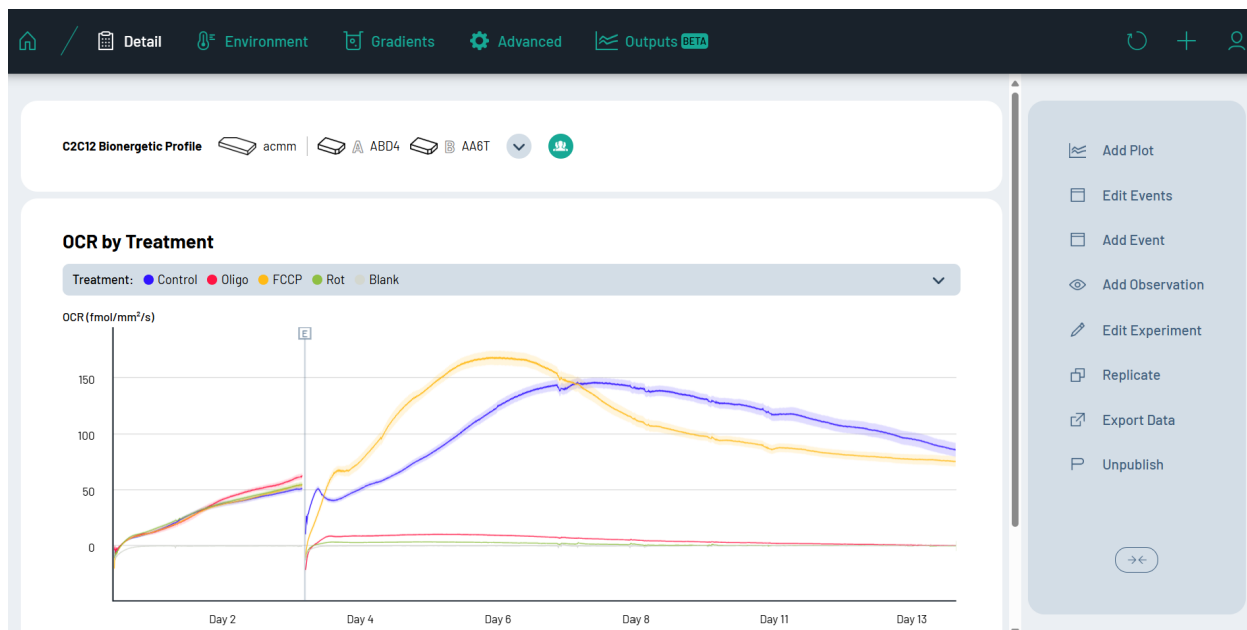
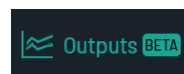


Timeprint Chart Guide



In the Lucid Lab app, on the top bar of your experiment click on the icon



To start creating your charts, click the chart creator icon on the right



You should now see your entire experiment, see example.



To choose the desired time frame and location for the bar chart, left click and drag to choose the time window. The window can also be moved by dragging the chosen window. Click again to reset.

General tab on the left:

Data Source: Pick the desired time series (every hour, 2hrs, 4hrs or 15 minutes).

Chart Title: Enter your desired chart title.

Chart Type: Choose "Time Series Rollup" to show the time series and the bar chart.

Choose "Error Type"

SEM - Standard Error Mean

Standard Deviation

Click box: Show per well points, if clicked, hover your browser over points that are outliers to show the exact wells. In the next section under the data tab, you will have the ability to remove your outlier wells from the plate map and data set.

Data tab on the Left:

Group by "treatment" or "plate"

Under Well Filtering, click on the conditions you want to include in the data and under plate map you can choose to exclude any outlier wells you see in the bar chart graph (by hovering the cursor over the points).

Resolution Interval or Auto Resolution

Check the “normalize to baseline” box to normalize and put in the timepoint value before addition of treatments.

When choosing to normalize the data set to the baseline OCR, the graph will default to “absolute OCR change” and change the chosen normalized point to 0, so the bar chart reflects the change in OCR compared to OCR baseline chosen prior to treatment.

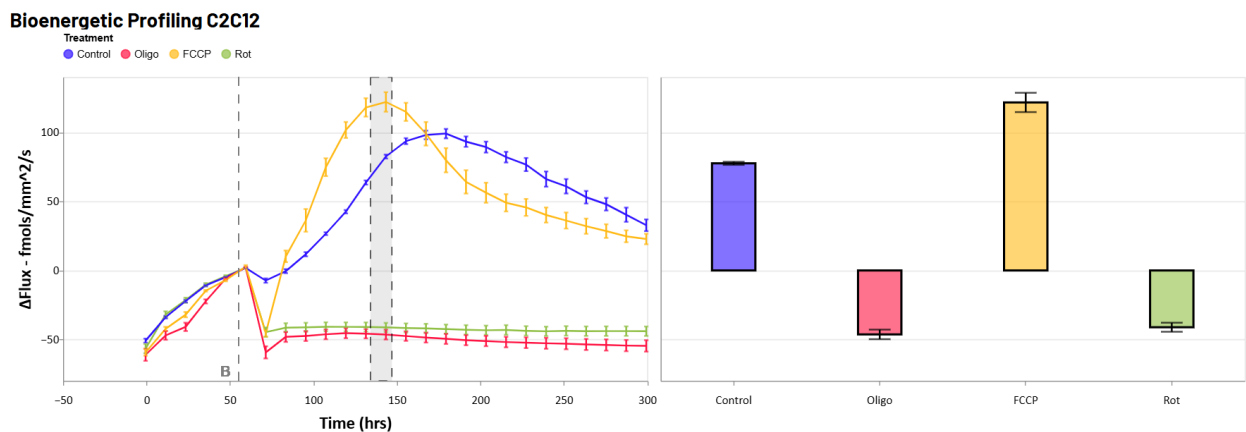
There are two options in the dropdown to choose from: Absolute OCR Change (fmols/mm²/s) and Relative OCR Change (fold change).

Absolute OCR change. $\Delta \text{OCR} = y - y_0$

Relative OCR change or Fold Change = y/y_0

It is important to note that if “relative OCR change” is chosen, due to the nature of the equation, one must go under conditions and have the blank wells unchecked.

Example normalized to baseline

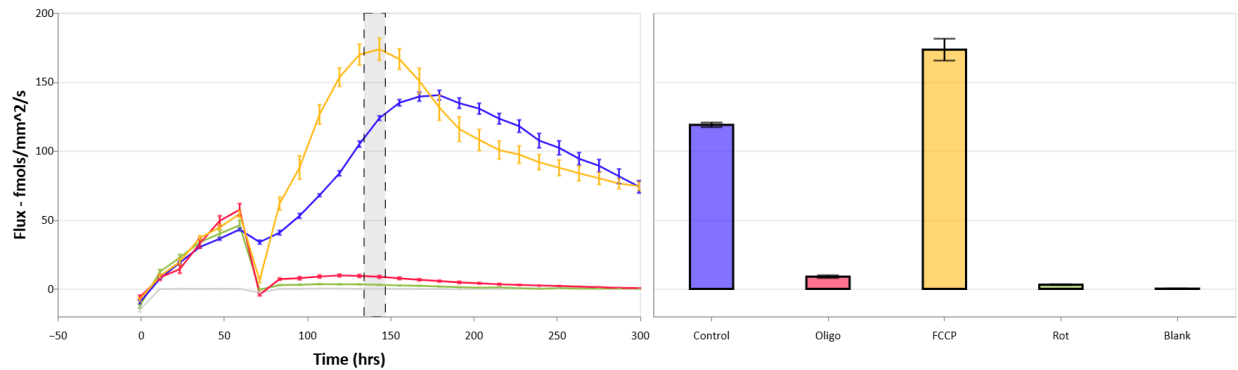


Example without normalization

Bioenergetic Profiling C2C12

Treatment

Control Oligo FCCP Rot Blank



Manipulation of time points

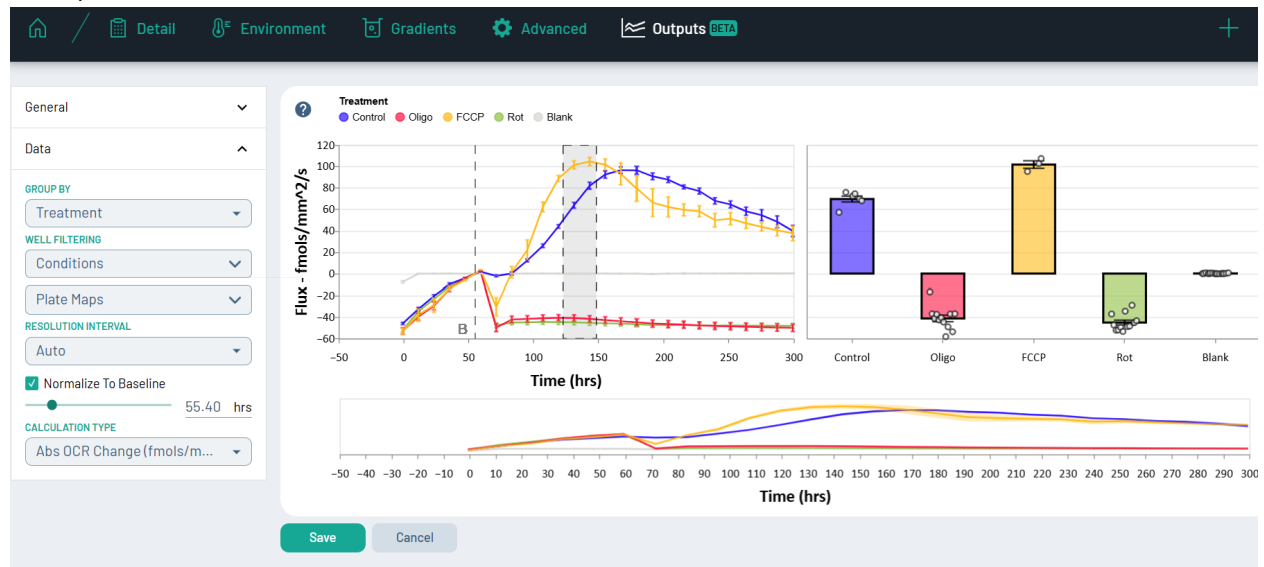
Time Series:

If only a specific subsection of the experiment is chosen, left-click and move the cursor on the bottom time series and the top left will adjust the graph and chart to only the time interval chosen. To go back and view the entire time series, click the mouse button

Timeprint Chart:

To choose the desired time frame for the bar chart, left click and drag to choose the time window. The window can also be moved by dragging the chosen window. Click again to reset.

Example:



Download your Timeprint Chart with your chosen time frames as PNG, Vega Spec or .csv file via icons shown on the right

Or

Click save to save this data output on Lucidlab. The data output may still be changed using the edit icon on the top right when accessing the saved data chart and graph.

Any feedback is welcomed for future developments.

Request a custom data visualization by clicking the lightbulb icon next to your created time-series

graph and chart . Please reach out to support@lucidsci.com for any assistance or use the support button under your account in LucidLab.