

Robustness and Information Transfer within IL-6-induced JAK/STAT Signalling

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Information on experimental raw data

These files contain all raw data from flow cytometry experiments used to calculate Mutual Information between STAT3 expression and cytokine-induced STAT3 activation and Channel Capacity of IL-6-induced JAK/STAT signalling.

Raw data were converted from .fcs files to Microsoft excel and named as follows:

The folders “MEF”, “MEF SOCS3 deficient”, “MEF STAT3 high”, “MEF STAT3-S727 high”, and “HepG2” contain all data based on analyses of the corresponding cell lines wild-type MEF, MEF SOCS3^{-/-}, MEF STAT3^{high}, MEF STAT3-S727^{high}, and HepG2.

Each folder contains subfolder for the individual experimental set-ups “15 min” (dose dependent short-time stimulation), “90 min” (dose dependent long-time stimulation), and “Kinetics” (time-dependent stimulation with 50 ng/ml Hy-IL-6).

Each sub-folder contains excel sheets with raw data from flow cytometry experiments. The files are labelled as follows: #internal experiment number_cell line_stimulus

Internal experiment numbers differentiate independent biological replicates.