

Fig. S3

Supplemental Figure S3

The graphs depict the ratio of the NAD(P)H /FAD fluorescence traces , when NMRI mouse islets were perifused with 0 mM glucose from 0 min to 60 min, with 30 mM glucose (left) or 10 mM KIC (right) from 60 min to 100 min and with 0 mM glucose thereafter (upper row) or when this protocol was executed in the presence of 500 μ M tolbutamide (lower row).

The black traces depict the NAD(P)H /FAD ratio of the 22h-cultured islets, the grey traces depict the NAD(P)H /FAD ratio of the fresh islets. When both traces are normalized to 100 % at 60 min, the larger relative increase of this ratio in cultured islets becomes visible with both nutrients. Nevertheless, the characteristic difference between glucose and KIC is visible in fresh as well as in cultured islets.