

Quality of recordings and kinetics

In a close up of the current response at 1000 μM it can be seen that the noise level is significantly increased during the NMDA activation compared to the base line (**Figure 3**). This is characteristic for the NMDA receptor response due to its high conductance, and can be seen clearly due to the high quality of the recording. Additionally, it is possible to determine activation and inactivation times of the receptor because of the accuracy and efficiency of the solution exchange.

Modulation of current response

Quinpirole, a dopamine D2 receptor agonist, was co-applied with NMDA to monitor the effect on NMDA-activated current response. Cells were pre-incubated with Quinpirole for 20s prior to NMDA exposure. The modulation of the NMDA current response by Quinpirole can clearly be seen in **Figure 4**.

Figure 2

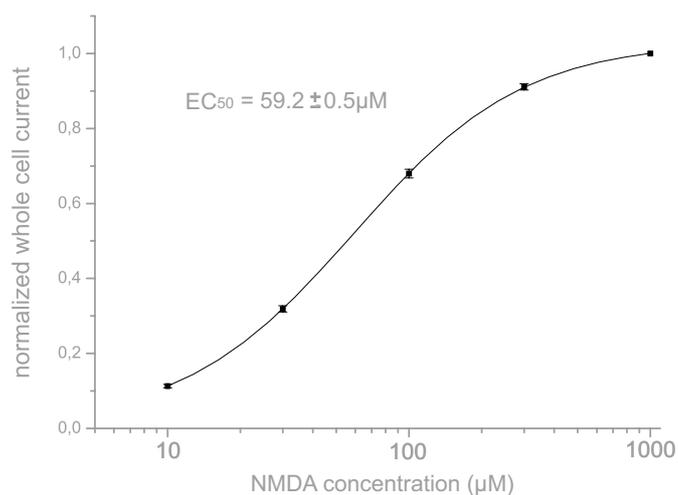


Figure 3

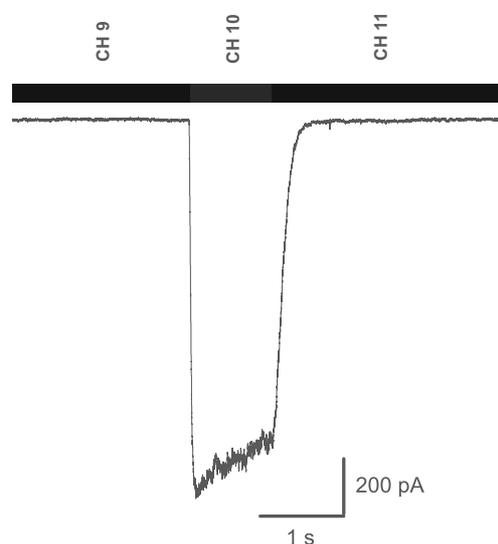
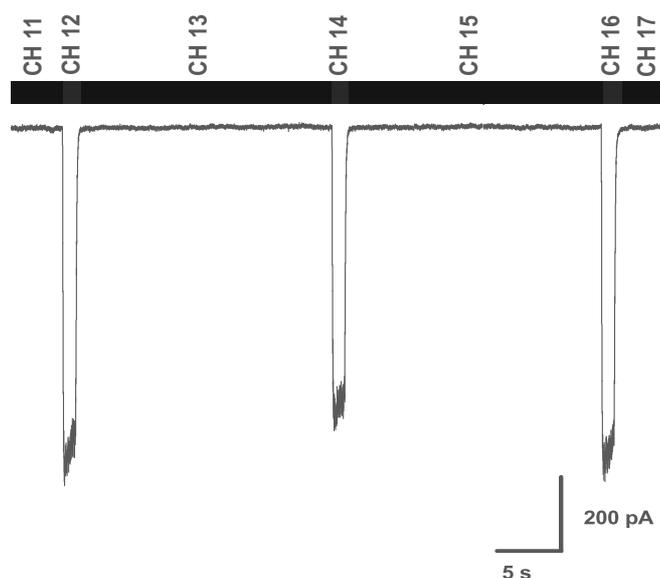


Figure 4

CH 11	buffer
CH 12	100 μM NMDA
CH 13	10 μM Quinpirole
CH 14	100 μM NMDA + 10 μM Quinpirole
CH 15	buffer
CH 16	100 μM NMDA
CH 17	buffer

CH = Dynaflo chip channel



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