Human $\alpha_7$ nicotinic Acetylcholine Receptor on the Patchliner

A stable cell line was kindly supplied by Galantos Pharma GmbH, Germany

Results

The human $\alpha_7$ nicotinic acetylcholine receptor expressing cells (stable) from Galantos Pharma GmbH were tested on the Patchliner.

Repeated stimulations with 100 $\mu$M nicotine were tested to validate the system. Figure 1 demonstrates the success rates. In the run shown in Figure 1, six out of eight cells could be measured. All six cells showed characteristic $\alpha_7$ currents (Figure 1). Average peak currents for the shown experiment were $0.9 \pm 0.2$ nA ($n = 6$) which is consistent with manual patch clamp results reported by Galantos Pharma.