

FITMASTER features analysis and fitting routines for electrophysiological data. Analysis can be performed on the levels of Sweeps/Traces and Series. Besides standard fit functions such as Polynomials, Exponentials, Gaussians, and Boltzmanns, tailored functions to fit e.g. whole-cell current traces according to Hodgkin&Huxley gating formalism, current-voltage relationships and dose-response curves allow publication-proof analysis of your data.

The experienced patch clamp investigator will be fascinated by the versatility of the program and logical structure of the functions. All of the features of PATCHMASTER's Online Analysis are also present in FITMASTER. In principle, FITMASTER extends these capabilities by adding more specific analysis features and the generation of an analysis tree. The way FITMASTER works is tightly linked to the tree structure of data generated by PATCHMASTER up to the level of a Series. Hence, FITMASTER has equivalent hierarchical levels of analysis corresponding to the tree levels featured in the Replay data tree. The analysis is organized in a structured way, relating to Sweeps and Series. The lowest level is the analysis of a raw data trace, a Trace. The TraceFit dialog provides tools for selecting a section of the trace for analysis and specifications of the type of analysis to be performed. The values determined by this sweep analysis can be further processed in SeriesFit. But in contrast to PULSEFIT, FITMASTER allows pooling of data on the level of the Series by introducing the new waves buffer concept. Several results of the TraceFit can be compiled in the waves buffer and then displayed in the SeriesFit graph. Several fit functions can be used to describe this ensemble of data points.

Features:

- Analysis is organized in a structured way
- Merging results form different experiments
- Analysis of train-type data
- Clipboard support
- Fit to raw data traces
- Current/voltage relationship

