

Current Biology, Volume 23

## Supplemental Information

### Spikes in Mammalian Bipolar Cells

#### Support Temporal Layering

#### of the Inner Retina

Tom Baden, Philipp Berens, Matthias Bethge, and Thomas Euler

#### Author Contributions

Experiments were designed by TB and TE and performed by TB. Data analysis was performed by TB, PB, MB, and TE. The manuscript was written by TB, PB, and TE.

#### Figure S1. Clustering (Related to Figure 1)

(A) Features used for clustering, in descending order: 1<sup>st</sup> five principal components of original fluorescence traces and 1<sup>st</sup> three principal components of their time-derivative.

(B) The Bayesian Information Criterion (BIC, Experimental Procedures) was smallest at n=7 clusters.

(C) Assessment of cluster quality. Rank ordered posterior probabilities for belonging to one cluster of all traces. A steep transition between 1 and 0 indicates good isolation. Colours correspond to the different clusters (cf. Figure 1C).

(D) Trials recorded in the same cell usually fall into the same cluster.

(E) Cells in original cluster 7 were divided into clusters 7 and 8 based on “spike index” (red line).

# Supplementary Figure 1 - Clustering

