Legends of Supplementary Figures

**Supplementary Figure 1: Cones with pedicle**

Morphology of 16 recorded cones with their pedicle, obtained through the inclusion of an Alexa dye in the intrapipette solution. For cones 1,2 and 8,, images taken at different depth of focus are represented. For 13 of them, superimposition with a DIC image of the ONL/OPL is also presented. Scale bar in 16: 30 µm.

**Supplementary Figure 2: Rods with spherule**

Morphology of ten recorded rods with their spherule. For rods 2 and 3, the image was taken after retrieval of the patch pipette, to which the cell soma remained attached. In 6, a cone previously recorded is labeled with a \*, next to the brighter rod.

**Supplementary Figure 3: Rods with outer segment but without spherule**

Morphology of 14 recorded rods identified through the presence of a long, thin outer segment, but which had lost their spherule during the slicing process.

**Supplementary Figure 1: Amplitude of the GABA-evoked current as a function of the time of recording.**

Amplitude of the current evoked by a 1 mM GABA puff of duration 5-10 (), 50 (), 100 () or 250 ms (). Recordings were obtained with intrapipette solutions with ECl = -30 mV (blue symbols) or ECl = 0 mV (green symbols, open for while-cell, dotted symbols for amphotericin perforated patch). For cones not recorded with the ECl = 0 mV intracellular solution, the current amplitude was corrected for the difference in driving force. Recordings obtained using gramicidin perforated patch are indicated by red symbols, and were left uncorrected