

Inner retina and signal processing; horizontal-, bipolar and amacrine cells (Thomas Euler)

Questions:

1. *How many classes of interneurons exist in the mammalian retina?*
2. *What is the origin of the term “amacrine” cells?*
3. *What is the general role of retinal bipolar cells?*
4. *What is the molecular/cellular basis of the ON- and OFF pathways in the retina?*
5. *Which retinal cell types contain synaptic ribbons?*
6. *Briefly describe the signal flow in the rod pathway.*
7. *What characterizes the so-called “midget pathway” in the central/foveal primate retina?*
8. *Which photoreceptors exist in the retinae of humans and mice?*
9. *Which neurons contact the cone photoreceptor endfoot/pedicle?*
10. *Which retinal cell types use graded signals and which ones use action potentials?*