

Neural Basis of Color Vision (Special Topics)

Color is an important part of our lives. The seminar course will cover color perception facts such as trichromacy, opponent colors, unique hues, color contrast, and color induction. Then we will read and discuss review articles and primary literature, both classical and recent, on the neural mechanisms in the retina and in the cerebral cortex that are the basis for color perception. We will focus on single opponent cells in the retina and double opponent cells in the visual cortex: their functional connectivity and response patterns, and their role in color perception.