

Retinal neurons card game!

Kellyanne Findlay, PhD, SFHEA

Players

Number of players: 2-4 players + 1 additional person to check responses are correct (the 'judge').

Cards

The retinal neurons card game includes:

- 14 rod photoreceptor cards
- 14 cone photoreceptor cards
- 6 bipolar cell cards
- 10 retinal ganglion cell cards
- 2 'blind spot' cards*
- 2 '3-dimensional perception' cards*

**The 'blind spot' cards and the '3-dimensional perception' cards are optional (more information below).*

Dealing

The judge shuffles the cards and deals them face-down, one at a time, to each player until all the cards have been dealt. Players should not look at their cards.

Play

The player to the left of the dealer starts. On their turn, a player turns over the top card from their face-down pile and places it face-up in front of them.

If the card that is turned over matches a card that is already face-up in front of the other player (i.e., both cards show or describe the same neuron), the first player to shout "Snap!" wins both piles of cards and adds them to the bottom of their face-down pile.

Card Pot

If two players shout "Snap!" at the same time, the two piles of face-up cards are placed in the centre of the table face-up. These cards form a "Card Pot."

If a player shouts "Snap!" and is incorrect, the cards in their face-up pile are added to the Card Pot.

The first player to turn over a card that matches the top card of the Card Pot wins the Card Pot and adds it to the bottom of their face-down pile.

Blind Spot cards

If a blind spot card is played, the player forfeits all their face-up cards to the Card Pot and the blind spot card is taken out of play.

3-dimensional vision cards

If using the '3-dimensional vision' cards, they can be used to match any card. They can only be played once and must be removed from play afterwards.

Ending the game

The game ends when one player has won all the cards.

If all players have played all of their cards and there have been no matches, the cards in each remaining player's face-up pile can be shuffled and put back into play as face-down cards.