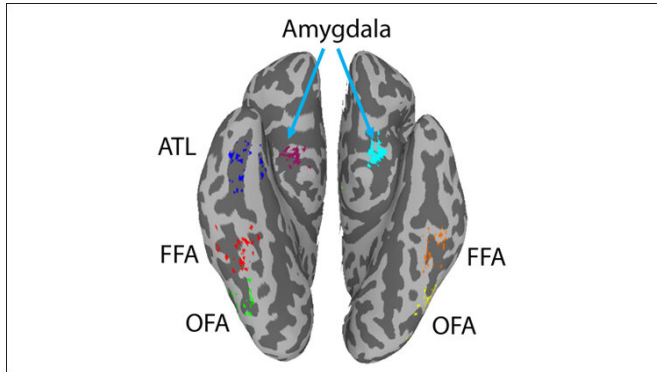


Widespread brain connections enable face recognition

29 April 2019



Individual centers of the seven ventral face ROIs. ATL - anterior temporal lobe face region (blue), FFA - fusiform face area (right - red, left - orange), OFA - occipital face area (right - green, left - yellow). Right amygdala shown in purple, left amygdala in cyan. Credit: Ramot *et al.*, *JNeurosci* (2019)

Remembering a familiar face engages a wider network of brain regions than previously thought, according to a study of healthy men and women published in *JNeurosci*.

First described in *JNeurosci* more than 20 years ago, the fusiform face area is a major component of a group of brain regions specialized for [face perception](#) known as the face network. The ability to recognize [familiar faces](#) varies, from individuals who are "face blind" to those with above-average facial recognition.

Michal Ramot and colleagues at the National Institute of Mental Health found that strength of connections within the face network were not associated with memory for faces.

By taking a broader view of the brain, the researchers demonstrate connectivity between the face network and other circuits involved in memory and processing of social, visual, and auditory

information predicted participants' performance on a facial memory task.

These findings suggest face recognition involves the integration of facial features with the social and multisensory context in which they appear in [everyday life](#).

More information: *JNeurosci* (2019). [DOI: 10.1523/JNEUROSCI.0217-19.2019](#)

A preprint of this manuscript has been posted on bioRxiv:

www.biorxiv.org/content/10.1101/382739v1

Provided by Society for Neuroscience

APA citation: Widespread brain connections enable face recognition (2019, April 29) retrieved 4 July 2022 from <https://medicalxpress.com/news/2019-04-widespread-brain-enable-recognition.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.