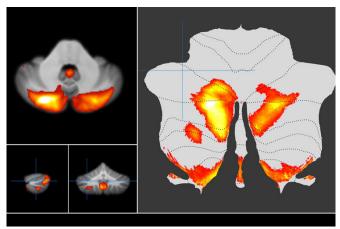


## Scientists map our underappreciated 'little brain'

23 July 2019, by Yasmin Anwar



Western University computational neuroscience professor Jörn Diedrichsen used <u>functional</u> <u>magnetic resonance</u> imaging (fMRI) to monitor <u>brain activity</u> as <u>study participants</u> performed numerous tasks.

They used the data to create a detailed map of the cerebellum that can be used as a <u>research tool</u> to better understand its function and to advance research into certain disorders.

**More information:** The map can be viewed at <u>this</u> link.

Researchers hope that the new images of the cerebellum can advance the study of certain brain disorders. Credit: Western University

Provided by University of California - Berkeley

Scientists at UC Berkeley and Western University in Canada have used brain imaging to map the cerebellum, a formerly underappreciated neural region that contains the vast majority of the brain's neurons, hence its Latin moniker "little brain."

The results of their study appear this month in the *Nature Neuroscience* journal.

"This is the first time the human cerebellum has been mapped using task-based data on the same set of subjects at this detail," said study lead author Maedbh King, a Ph.D. student in neuroscience at Berkeley.

Tucked into the base of the skull, the cerebellum plays a key role in higher-order cognition, such as language, working memory and problem-solving. It has also been linked to such mental disorders as schizophrenia and autism and to learning differences like dyslexia.

King, Berkeley neuroscientist Richard Ivry and

1/2



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