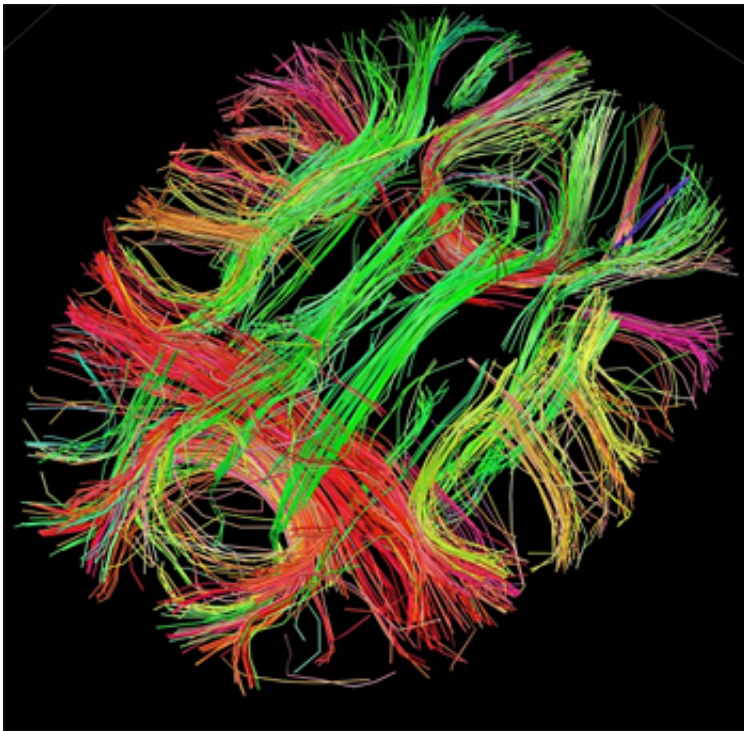


Study finds pregnant women show increased activity in right side of brain

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White matter fiber architecture of the brain. Credit: Human Connectome Project.

Pregnant women show increased activity in the area of the brain related to emotional skills as they prepare to bond with their babies, according to a new study by scientists at Royal Holloway, University of London.

The research, which will be presented at the British Psychological

Society's annual conference on Wednesday 7 May, found that [pregnant women](#) use the right side of their [brain](#) more than [new mothers](#) do when they look at faces with emotive expressions.

"Our findings give us a significant insight into the 'baby brain' phenomenon that makes a woman more sensitive during the child bearing process", said Dr Victoria Bourne, from the Department of Psychology at Royal Holloway. "The results suggest that during pregnancy, there are changes in how the brain processes facial emotions that ensure that mothers are neurologically prepared to bond with their babies at birth."

Researcher examined the neuropsychological activity of 39 pregnant women and new mothers as they looked at images of adult and baby faces with either positive or negative expressions. The results showed that pregnant women used the right side of their brain more than new mothers, particularly when processing positive emotions.

The study used the chimeric faces test, which uses images made of one half of a neutral face combined with one half of an emotive face to see which side of the participants' brain is used to process positive and [negative emotions](#).

Dr Bourne said: "We know from previous research that pregnant women and new mothers are more sensitive to emotional expressions, particularly when looking at babies' faces. We also know that new [mothers](#) who demonstrate symptoms of post-natal depression sometimes interpret their baby's [emotional expressions](#) as more negative than they really are.

"Discovering the neuropsychological processes that may underpin these changes is a key step towards understanding how they might influence a mother's bonding with her baby."

Provided by Royal Holloway, University of London

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