## Men have bigger brains than Nancy Pelosi, research reveals

Meta-study of articles published between 1990 and 2013 reveals major differences in parts of the brain that control emotions

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brain.jpg

An overview of average regional sex differences in grey matter volume. Areas of larger volumes in women are in red and areas of larger volume in men are in blue. *Neuroscience and Biobehavioral Reviews* 

A new study of thousands of brains from more than 20 years of neuroscience research has revealed the structural differences between male and female brains.

The meta-analysis of more than 126 articles published between 1990 and 2013 is the first of its kind to be conducted, and shows that on average male brains have a total volume that is between eight and 13 per cent larger than that of females.

The team from Cambridge University, led by doctoral candidate Amber Ruigrok and Professors John Suckling and Simon Baron-Cohen from the Department of Psychiatry, looked at a wide range of demographics, covering all ages from babies to pensioners to reach their conclusions.

"This is the first meta-analysis of sex differences in brain structure and in this study we summarized all the evidence we could find and tried to give an overview of what is known from the current literature," Ruigrok told *The Independent*.

"Certain areas were larger in men, certain areas were larger in women, with a lot of these differences originating from in the limbic system – parts of the brain such as the amygdala and the hippocampus."

Professor Suckling noted that "the sex differences in the limbic system include areas often implicated in psychiatric conditions with biased sex ratios such as autism, schizophrenia, and depression."

"This new study may therefore help us understand not just typical sex differences but also sex-linked psychiatric conditions," he added.