



Daily Article (Bharath's Reading list) - Answers and Explanations 10.05.2023

Article link : <https://bit.ly/41nwCGv> (Your Brain Is Shaped Like Nobody Else's)

1. Which of the following is incorrect with regard to white matter?

- A. It is the fatty and proteic part of the brain
- B. It affects how we perceive and navigate the world around us
- C. Differences in white matter can correlate to how well we regulate our emotions
- D. Gray matter is nestled beneath white matter in the brain

Explanation :D

It is white matter that is nestled beneath gray matter and not the other way round.

2. Sometimes, patients who have a lesion in the gray area of the brain responsible for language have no correlated language symptoms because:

- A. They may be suffering from gray matter volume loss with age
- B. There are anatomical differences in white matter of different individuals
- C. Related white matter injury can undermine functioning in gray matter sections
- D. All the above

Explanation:C

Note the lines, "This increased precision is in part due to white matter's essential role of information conduit, so its injury can undermine functioning in gray matter sections which otherwise look fine. This function helps explain why there are sometimes patients who have a lesion in a gray area of the brain traditionally thought to be used for one type of function, like language, but have no correlated language symptoms."

3. Which of the following is correct?

- A. White matter anatomy does not differ from person to person to start with, but differences appear and are exacerbated as time goes by

B. Personality and temperament are easier to predict from white matter shape than IQ and working memory

C. If the white matter tissue between the fear-response-regulating amygdala and the medial prefrontal cortex is thin and disrupted, the person may present as an anxious individual and not a thrill-seeker

D. The exact reason why there the gap between people's anatomies grows larger over time is not yet scientifically proven

Explanation:

Correct option **D**

Option D is true: "The scientific jury is still out on the exact reason the gap between people's anatomies grows larger over time...". All other options are incorrect, based on the article.

