Psychology Assessment Paper 1 Example (3 SAQs & 1 ERQ)

Answer all questions in this section. Marks will be awarded for focused answers supported by relevant knowledge and study.

Describe neuroplasticity, with reference to one study. [9 marks]

Neuroplasticity is the brain's ability to change in response to environmental demands. This occurs through neuronal unmasking and neural pruning. Neuronal unmasking is when the brain activates dormant neurons and strengthens them through practice, which increases neuronal density in the areas of the brain with recent patterns of activity. Long-term potentiation is the term used for the strengthening of neural networks through recent patterns of activity in specific regions of the brain that cause a long-lasting increase in signal transmission in those regions and this explains how the brain structure changes as a result of environmental demands. However, a lack of activity in neural networks leads to the weakening and the elimination of these networks which is known as neural pruning. Many studies have investigated neuroplasticity in action, namely Maguire et al. (2000) which investigated whether structural changes were evident in the brains of people with extensive experience in spatial navigation.

The study compared MRI scans of 16 right-handed male taxi drivers in London that have all been driving for at least 1.5 years to the MRI scans of 50 right-handed males from the London Hospital who were not taxi drivers. The mean age did not differ between the experimental group and the control group. They found that the taxi drivers had increased grey matter in the hippocampal areas as compared to the control group which suggests that the hippocampus plays a role in spatial navigation. Furthermore, they found that the taxi drivers had larger posterior hippocampi than the control group, whilst the control group had larger anterior hippocampus than the taxi drivers. This demonstrates long-term potentiation occurring in the taxi drivers' posterior hippocampi. Since, the taxi drivers use their spatial navigation skills frequently, the recent activity in the posterior hippocampus leads to the strengthening of the neural networks in that region which increases the neural density and is evident through the larger volume of the posterior hippocampus in the taxi drivers. Moreover, a positive correlation between the number of years driving and the volume of the posterior hippocampus was discovered, which creates a direct link between increased use of spatial navigation skills and the volume of that region. This further demonstrates the effects of long-term potentiation on brain structure and, therefore, the relationship between brain structure and environmental demands. They concluded that the structural changes were evident in the brains of the taxi drivers, with extensive experience in spatial navigation and the findings of this study act as evidence for neuroplasticity as the changes in the volume of the posterior hippocampus (a change in the structure of the brain) is shown to be impacted by the experience in spatial navigation (the environmental demand).

Feedback

Excellent links made.

You described two specific parts of neuroplasticity, but not what it is in general.

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Tobias Bleicker

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