# Article information:

Posterior parietal cortex plays a causal role in perceptual and categorical decisions - PubMed
<https://pubmed.ncbi.nlm.nih.gov/31296771/>

# Article summary:

1. Posterior parietal cortex (PPC) plays a causal role in decision-making, with preferential involvement in evaluating attended task-relevant sensory stimuli compared with motor planning.

2. Reversible inactivation of PPC affected both motor and sensory aspects of behavior, but preferentially impaired decisions when visual stimuli, rather than motor response targets, were in the inactivated visual field.

3. The study provides causal evidence for decision-related sensory evaluation in LIP (lateral intraparietal area) and suggests that PPC is involved in both perceptual and categorical decisions.

# Article rating:

May be slightly imbalanced: The article presents the information in a generally reliable way, but there are minor points of consideration that could be explored further or claims that are not fully backed by appropriate evidence. Some perspectives may also be omitted, and you are encouraged to use the research topics section to explore the topic further.

# Article analysis:

由于这篇文章是一篇科学研究论文，其内容相对客观和中立。然而，我们可以指出一些可能存在的偏见或限制。

首先，这项研究只涉及到了猴子的行为表现，而没有考虑人类的决策过程。因此，这项研究的结果可能不适用于人类决策过程。

其次，在实验设计中使用了可逆性失活技术来评估PPC在决策中的作用。然而，该技术可能会影响其他脑区或神经元群体，并且在实验中使用的剂量和时间可能会影响结果的解释。

此外，在文章中提到了PPC在感觉评估方面比运动规划更具优势。然而，这种结论可能受到任务类型和实验条件等因素的影响，并且需要进一步探索。

最后，虽然作者声明没有竞争利益，但仍需注意是否存在任何潜在利益冲突或资金来源问题。

# Topics for further research:

* Limitations of the study
* Reversibility inactivation technique
* Task type and experimental conditions
* Potential conflicts of interest
* Human decision-making processes
* Effects on other brain regions or neuron populations

# Report location:

<https://www.fullpicture.app/item/788c2e24c6b67845dcf5aa3196604c0f>