# Article information:

Functional connectivity MRI in infants: Exploration of the functional organization of the developing brain - ScienceDirect  
<https://www-sciencedirect-com.uaccess.univie.ac.at/science/article/pii/S1053811911002503>

# Article summary:

1. Functional connectivity magnetic resonance imaging (fcMRI) is a neuroimaging technique that uses spontaneous, low frequency (< 0.1 Hz), coherent fluctuations in blood oxygen level dependent (BOLD) signal to identify networks of functional cerebral connections.

2. fcMRI has been successfully applied to examine neonatal populations, defining normative patterns of large-scale neural network development in the maturing brain.

3. Despite these successes, optimal methods for fcMRI data acquisition and analysis for infants have not yet been defined, and appropriate schemes for interpretation and translation of fcMRI results remain unknown.

# Article rating:

Appears moderately imbalanced: The article provides some useful information, but is missing several important points or pieces of evidence that would be required to present the discussed topics in a balanced and reliable way. You are encouraged to seek a more balanced perspective on the presented issues by exploring the provided research topics and looking at different information sources.

# Article analysis:

该文章是一篇关于婴儿功能性连接磁共振成像（fcMRI）的综述，介绍了fcMRI在探索发育中大脑的功能组织方面的应用。文章指出，虽然通过这些研究对结构和功能之间复杂关系的理解有所提高，但仍存在许多问题需要解决。文章强调了fcMRI作为一种新型神经影像学方法，在研究婴儿方面具有巨大潜力。

然而，该文章存在一些偏见和不足之处。首先，它没有充分探讨fcMRI技术的局限性和缺陷，例如数据采集和分析方法等方面。其次，文章没有提到可能存在的风险和限制条件，如对婴儿进行长时间扫描可能会引起不适或其他不良反应。此外，该文章未能平等地呈现双方观点，并且缺乏对所提出主张的证据支持。

总之，尽管该文章介绍了fcMRI在研究婴儿大脑发育方面的应用前景，但它也存在一些偏见和不足之处。因此，在阅读此类综述时需要保持警惕，并考虑其他来源的证据来得出更全面、客观的结论。

# Topics for further research:

* Limitations of fcMRI technology
* Data collection and analysis methods
* Risks and limitations of scanning infants
* Biased presentation of viewpoints
* Lack of evidence to support claims
* Need for caution and consideration of other sources of evidence

# Report location:

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