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Review Article

Perfusion fixation: a vital process for neuroanatomical research

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ABSTRACT

Perfusion fixation is a vital technique that preserves tissues, also preparing them for further techniques in histology, histochemistry, immunohistochemistry and electron microscopy. The need for proper preservation of neural tissues for morphological and immunoreactivity studies led to the discovery of this technique which mostly makes use of the vascular system to allow for uniform tissue preservation. The technique makes use of electric pressure pump or gravitational force for perfusion based on the available equipments, and the type of fixative used is determined by the type of analysis to be done. However, this method is limited when tissues other than the target are required, or when there is a delay in tissue perfusion.

Keywords: Perfusion, Fixation, Vascular System, Neural tissues
