

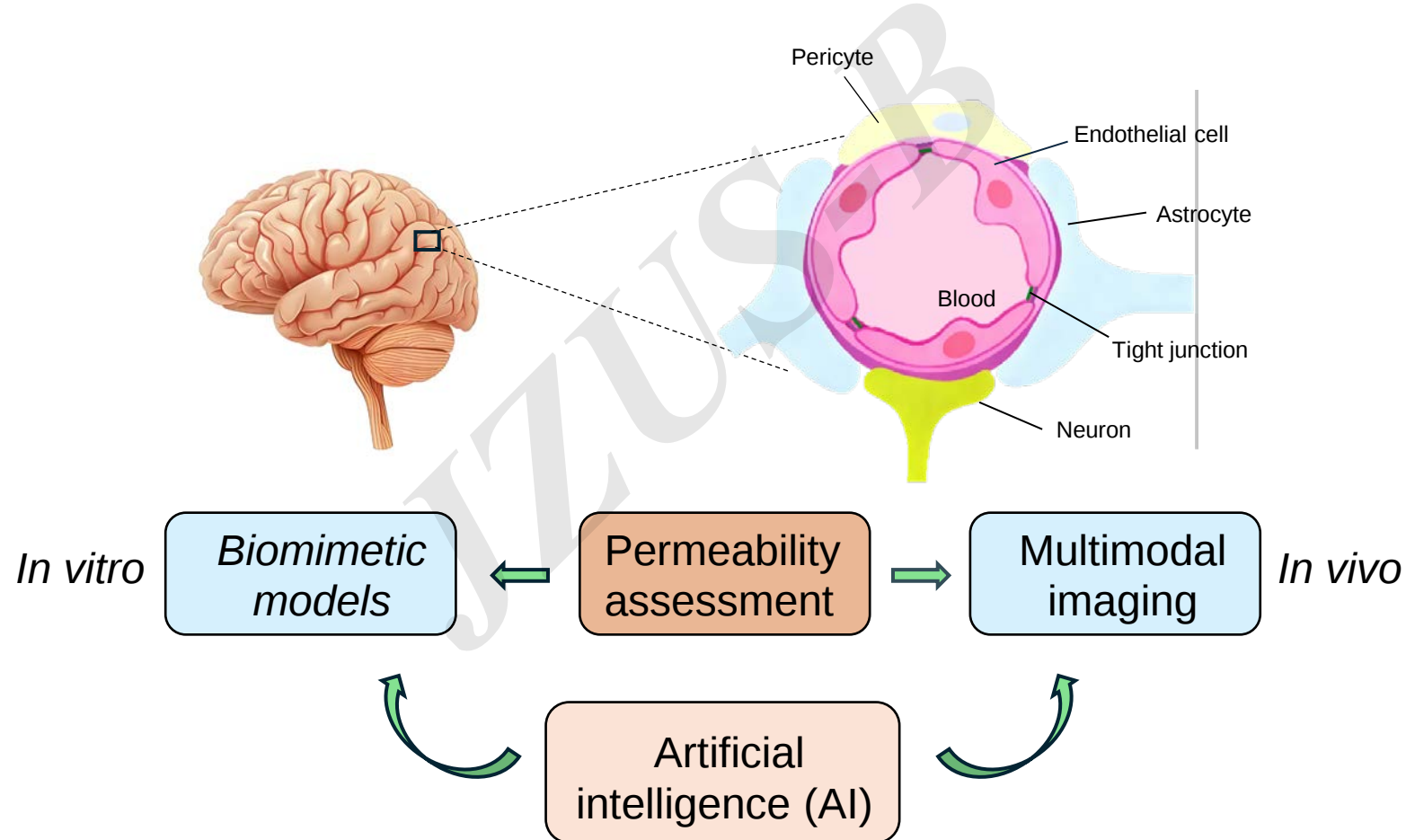
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Blood–brain barrier permeability assessment: from biomimetic models to multimodal imaging

Key words: Blood–brain barrier (BBB); Permeability assessment; In vitro BBB model; In vivo imaging; Central nervous system (CNS)

Research Summary

In this study, we systematically summarizes the latest advances in the assessment of blood-brain barrier(BBB) permeability.



Innovation points

- **Introduction** methodologies for assessing BBB permeability are paramount for elucidating the mechanisms underlying CNS pathologies and promoting the discovery of therapeutic agents.
- **Summary** a series of significant breakthroughs in detection technologies has been made in recent years, ranging from *in vitro* models to *in vivo* imaging, providing powerful tools for improving understanding of the BBB's function and regulatory mechanisms.
- **Emphasis** on techniques advancement for assessing BBB permeability.