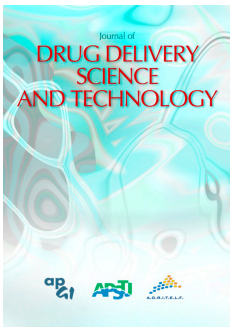
Accepted Manuscript



The expected characteristics of an *in vitro* human Blood Brain Barrier model derived from cell lines, for studying how ABC transporters influence drug permeability

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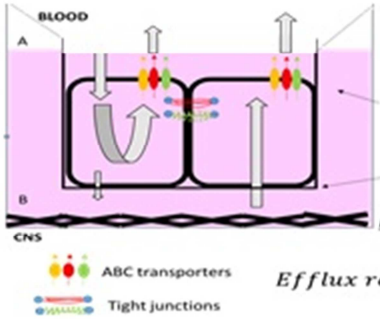
What is the ideal design for a human BBB established for drug transport studies?



Bidirectional transport

Medium ***without*** adjuvant

Human Brain Endothelial cells lines

Insert HD Pore size <3µm

Human astrocytes

$$Efflux\ ratio = \frac{Papp(B \rightarrow A)}{Papp\ (A \rightarrow B)}$$