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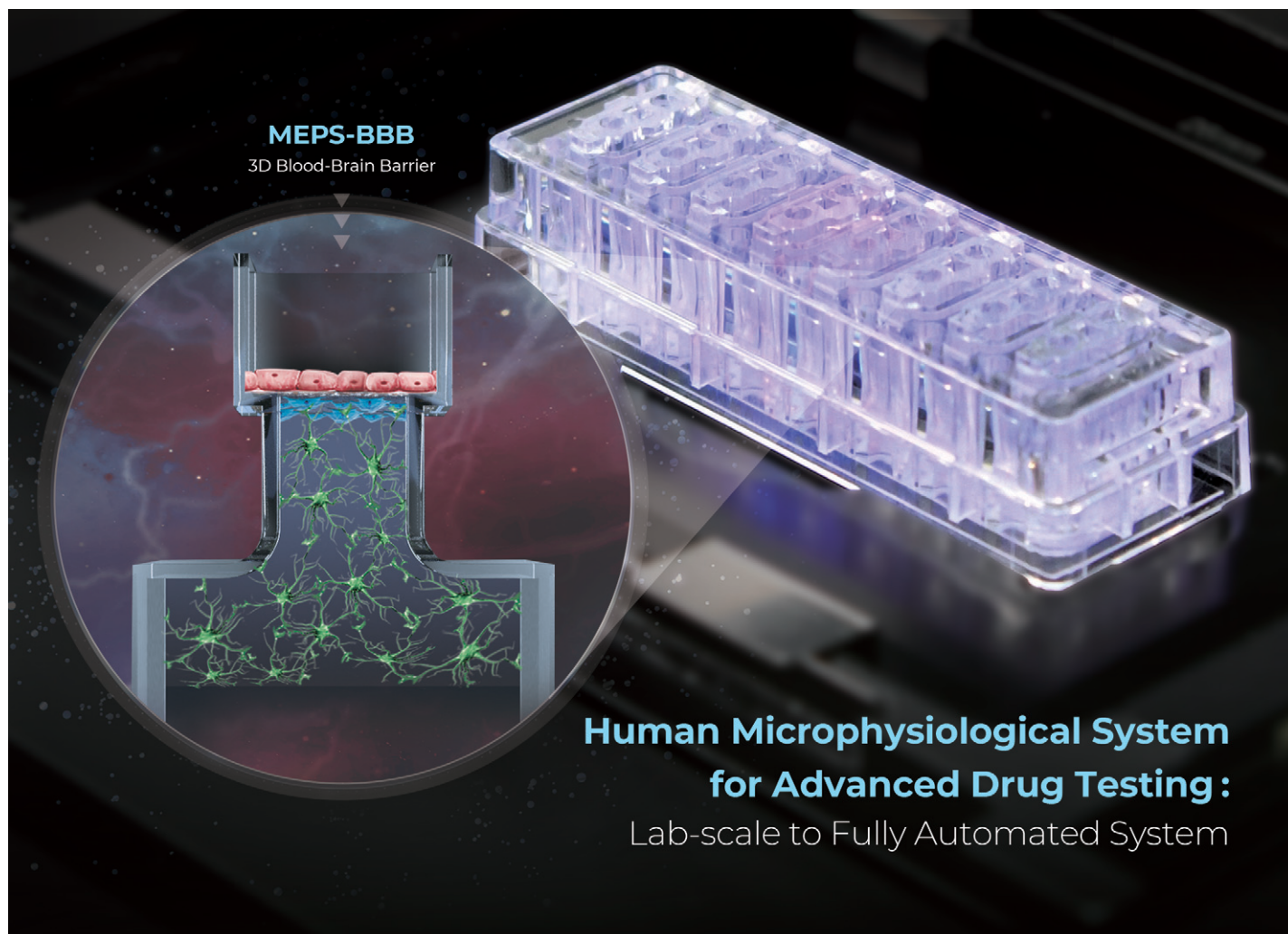
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Showcasing research from Professor YongTae Kim's laboratory, School of Mechanical Engineering, Georgia Institute of Technology, Georgia, USA.

Manufactured tissue-to-tissue barrier chip for modeling the human blood-brain barrier and regulation of cellular trafficking

This manuscript presents a manufactured form of 'micro-engineered physiological system-tissue barrier chip' called MEPS-TBC on which in the current study researchers can model the human blood-brain barrier (BBB) with a 3D perivascular space. The 2D-3D hybrid compartmentalized structure allows more physiologically relevant modelling with 3D tissue regions where astrocytes reside with polarization and end-foot processing. The manufactured chip technology with high precision and high reproducibility will construct reliable and standardized microphysiological models for disease mechanism studies and predictive drug screening.

As featured in:



See YongTae Kim *et al.*,
Lab Chip, 2023, **23**, 2990. Copyright
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