Showcasing research from Professor Qi Gu's laboratory, Key Laboratory of Organ Regeneration and Reconstruction, Chinese Academy of Sciences, Beijing, China.

Assessing bioartificial organ function: the 3P model framework and its validation

Gu et al. introduce the "3P Model", a machine learning framework for evaluating bioartificial organ function, focusing on liver tissue engineering. This innovative approach analyzes extensive experimental data to identify key parameters affecting organ functionality, such as albumin and urea secretion. The model's predictive capabilities aim to optimize culture conditions and improve the functional sustainability of bioartificial livers. This research marks a significant advancement in standardized organ chip manufacturing, promising enhanced efficiency and scalability in the fabrication of bioartificial organs.

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