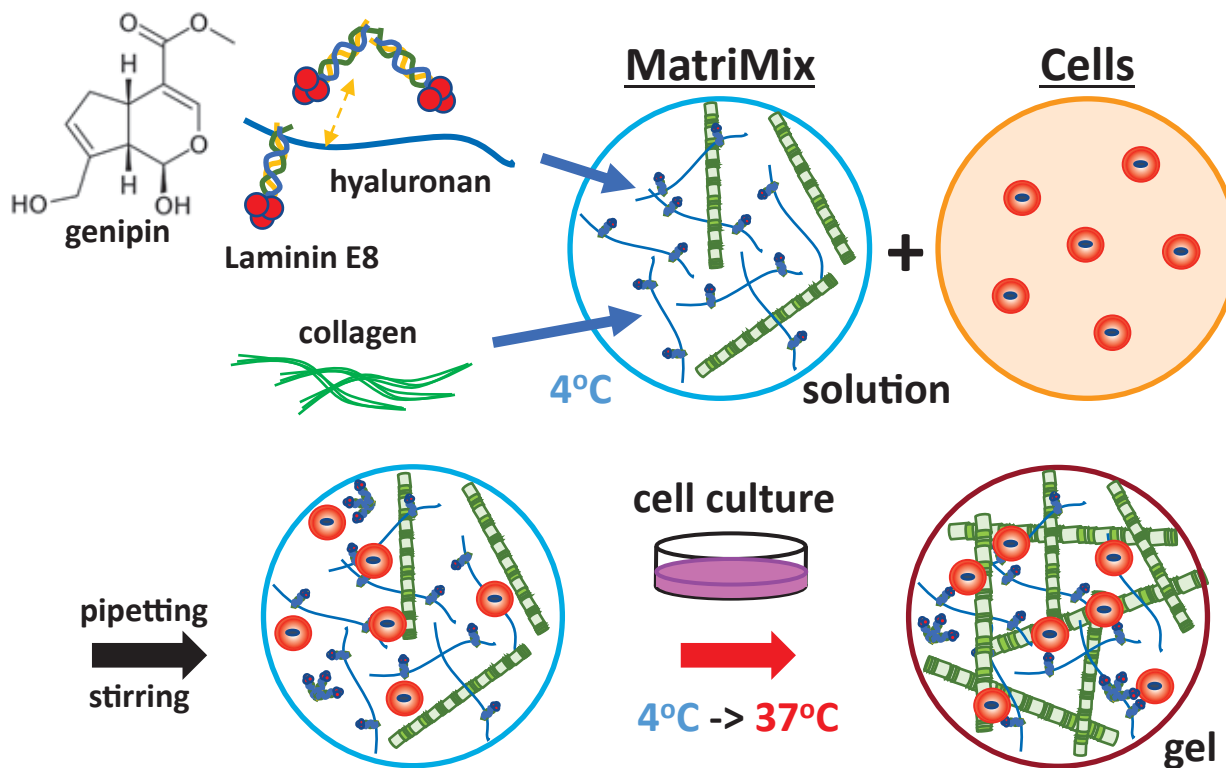


Matrimix

New 3D Culture Substrate

Matrimix for 3D cell culture

Matrimix is a new 3D culture substrate consisting of collagen, laminin E8 fragments (LM E8) and hyaluronan. The type, combinations, and concentrations of each ingredient can be customized to provide a microenvironment that is suitable for various types of cells. Matrimix is composed of 3 solutions (A; DMEM/LM E8-crosslinked hyaluronan, B; sodium bicarbonate, C; collagen), which are mixed just before incubation. The mixture, which is a solution in cold storage, gels by warming to 37 °C. Matrimix can be used not only for “in/on gel” cell culture, but also for cell transplantation into mice.



The laminin C-terminal E8 fragment, which is about 1/5 of the full-length laminin molecule, is recombinantly expressed. Laminin-511E8 has a strong interaction with cellular integrin $\alpha 6 \beta 1$ and induces cell motility.



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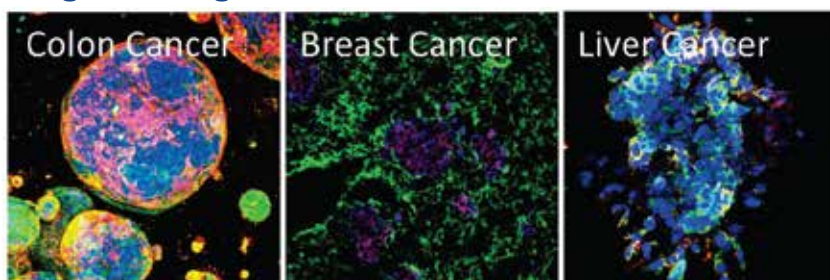
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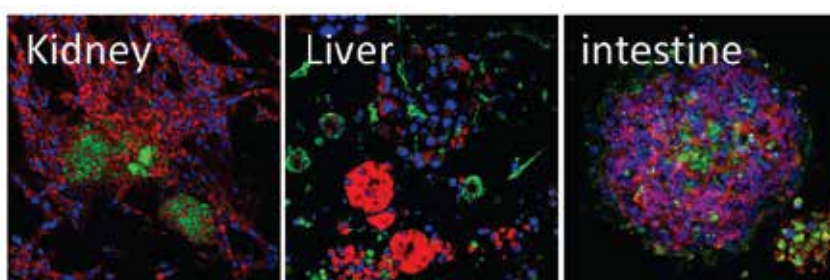
Induction of organoid formation by cancer cells and early embryo derived cells

Drug screening



- A new, a more “in vivo mimetic” in vitro model that solves various problems with the EHS tumor extracts.
- Excellent for cultured cells that are difficult to grow and organize in the EHS tumor extracts.
- Drug screening can be performed in vitro without transplantation into a mouse model.
- Drugs can be screened for highly malignant cancers with metastatic potential.

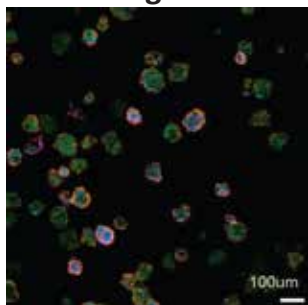
Organoid research



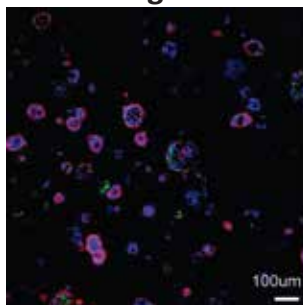
- Developed especially for scientists not satisfied with current 3D substrates

Effects of MatriMix gels on colon cancer patients derived spheroid cultures

Stage IV



Stage III



ZEB-1 (green), E-cad (red), DAPI (blue)

In MatriMix gels, cells derived from patients with Stage 4 metastatic cancer showed a cell population positive for the metastatic potential marker ZEB-1. In contrast, cells derived from Stage 3 patients with non-metastasis cancer demonstrated a suppression of ZEB-1 expression.



MatriMix gel can be used for the transplantation of cancer spheroids into nude mice similar to EHS tumor extracts.

For more information and for other applications, please contact us at: info@amsbio.com