3D tri-culture model provides a specialized platform for the investigation of cell-cell interactions and new insights into acute myeloid leukemia development and therapies.

**Leukemia cell lines**
- KG1a
- MOLM13
- OCI-AML3
- MV4-11

**Primary cells from AML patients**

3D tri-cultures

Matrix metalloproteinase-sensitive hydrogels
- poly(ethylene glycol)
- heparin
- mesenchymal stromal cells
- endothelial cells

- AML 3D tri-cultures demonstrate increased resistance to Daunorubicin and Cytarabine
- CXCR4 antagonist, AMD3100, induces AML mobilization from the vascular network

Bray et al., Haematologica, 2017