

# PRODUCT SPOTLIGHT



## HUMAN CANCER MODELS INITIATIVE

### PATIENT-DERIVED CANCER MODELS

As part of our pledge to elevate biological models, ATCC is collaborating with the Human Cancer Models Initiative (HCMI) to offer scientists a wide variety of next-generation 2-D and 3-D patient-derived in vitro cancer models, including organoids and conditionally reprogrammed cells (CRCs). ATCC is committed to making available a growing collection of models generated by the HCMI, which will include both common as well as rare and understudied examples of cancer from numerous tissues. These HCMI models are valuable tools to study cancer, identify and target novel therapies, and facilitate translational cancer research.

To enhance their clinical relevance, the sequence data and patient clinical information for each model is available to the research community.

Various types of 2-D and 3-D models

- All models are human patient-derived
- Diverse genetic backgrounds
- Advanced models such as organoids
- Clinical and sequencing data available via the HCMI portal
- Models from primary, metastatic, and recurrent cancer
- Rare and pediatric cancers included
- Model-specific, easy-to-follow culturing protocols

Patient-derived cancer models of the following physiological systems will be available:

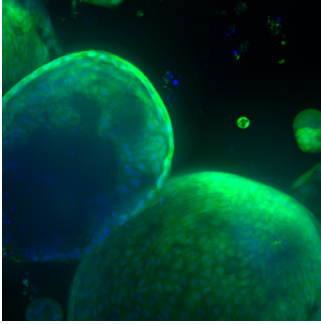
- Circulatory System
- Digestive System
- Excretory System
- Integumentary System
- Musculo-skeletal System
- Nervous System
- Reproductive System
- Respiratory System



[WWW.ATCC.ORG/HCFI](http://WWW.ATCC.ORG/HCFI)

## NEXT-GENERATION CANCER MODELS

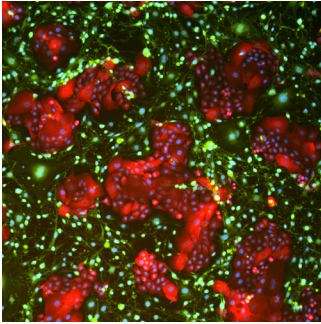
### ORGANOIDS



Organoids are complex, self-organizing microtissues grown embedded within 3-D extracellular matrix. Primary patient-derived organoids have been described for various tissues, healthy and cancerous, including colon, intestine, stomach, breast, esophagus, lung, liver, prostate, and pancreas. Organoids are invaluable pre-clinical models for studying cancer and offer many advantages over existing human or non-human animal cancer models.

- May contain multiple differentiated cell types
- Exhibit cellular polarization
- Often possess a central lumen or other in vivo-like architecture
- Can remain phenotypically and genotypically stable after long term expansion

### CONDITIONALLY REPROGRAMMED CELLS (CRCS) AND OTHER NON-ORGANOID MODELS

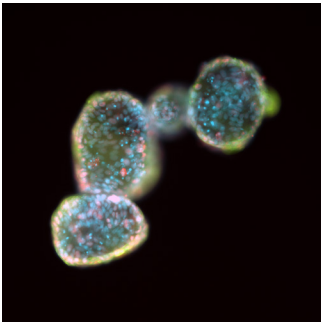


Conditional reprogramming is a cell culture technique that can be used to rapidly and efficiently establish patient-derived cell cultures from both normal and tumor cells. A major advantage of this system is that it:

- Eliminates the need for immortalization via transduction of viral or cellular genes
- Allows the expansion of a patient's tumor cells
- Reverts to differentiated phenotype in physiological culture conditions
- Makes it possible to identify the specific mutations in these cells and to screen the cells for sensitivity to drugs

In addition to CRCs, various other 2-D and 3-D model types, such as neurosphere models, are among the next-generation cancer models offered by the HCMI.

### ABOUT HUMAN CANCER MODELS INITIATIVE (HCMI)



HCMI is an international consortium that is dedicated to generating novel human tumor-derived culture models with associated genomic and clinical data. The HCMI consortium comprises funding agencies and cancer model development institutions. The consortium's funding agencies include:

- National Cancer Institute (NCI)
- Cancer Research UK (CRUK)
- Hubrecht Organoid Technology (HUB)
- Wellcome Sanger Institute (WSI)

NCI-funded model development institutions include the Broad Institute and the Cold Spring Harbor Laboratory. CRUK and WSI co-fund organoid development in the United Kingdom; CRUK provides the patient samples, while WSI derives and sequences the organoid models. The foundation HUB is a Netherlands-based not-for-profit organization that derives and sequences organoid models. ATCC was selected as the sole distributor for the HCMI models. At ATCC the models are authenticated, expanded, preserved, and made available for global distribution. The HCMI model data is provided as an open source to the research community.

| Tissue of Origin                              | Morphology                      | Disease               | ATCC® No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------|---------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ampulla Of Vater                              | Organoid                        | Carcinoma             | <a href="#">PDM-218™</a> , <a href="#">PDM-102™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Ampulla Of Vater; Metastatic Site: Lymph Node | Organoid                        | Cancer                | <a href="#">PDM-369™</a> , <a href="#">PDM-445™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Bone                                          | 2-D adherent                    | Osteosarcoma          | <a href="#">PDM-114™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Bone; Metastatic Site: Brain                  | 2-D adherent                    | Cancer                | <a href="#">PDM-227™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Bone; Metastatic Site: Pleural Cavity         | 2-D adherent                    | Ewing sarcoma         | <a href="#">PDM-125™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Bone; Metastatic Site: Pleural Cavity         | Mixed: adherent and suspension  | Ewing sarcoma         | <a href="#">PDM-113™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Brain                                         | 2-D adherent                    | Glioblastoma          | <a href="#">PDM-16™</a> , <a href="#">PDM-17™</a> , <a href="#">PDM-19™</a> , <a href="#">PDM-20™</a> , <a href="#">PDM-21™</a> , <a href="#">PDM-23™</a> , <a href="#">PDM-109™</a> , <a href="#">PDM-117™</a> , <a href="#">PDM-121™</a> , <a href="#">PDM-122™</a> , <a href="#">PDM-141™</a> , <a href="#">PDM-143™</a> , <a href="#">PDM-144™</a> , <a href="#">PDM-147™</a> , <a href="#">PDM-148™</a> , <a href="#">PDM-149™</a> , <a href="#">PDM-153™</a> , <a href="#">PDM-228™</a> , <a href="#">PDM-235™</a> , <a href="#">PDM-242™</a> , <a href="#">PDM-244™</a> , <a href="#">PDM-245™</a> , <a href="#">PDM-297™</a> , <a href="#">PDM-381™</a> , <a href="#">PDM-400™</a> , <a href="#">PDM-401™</a> , <a href="#">PDM-403™</a> , <a href="#">PDM-404™</a> , <a href="#">PDM-471™</a> , <a href="#">PDM-472™</a> , <a href="#">PDM-475™</a> , <a href="#">PDM-477™</a> , <a href="#">PDM-499™</a> , <a href="#">PDM-501™</a> , <a href="#">PDM-502™</a> , <a href="#">PDM-503™</a> , <a href="#">PDM-505™</a> , <a href="#">PDM-627™</a> , <a href="#">PDM-631™</a> , <a href="#">PDM-666™</a> , <a href="#">PDM-668™</a> |
| Brain                                         | Mixed: adherent and suspension  | Glioblastoma          | <a href="#">PDM-302™</a> , <a href="#">PDM-626™</a> , <a href="#">PDM-634™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Brain                                         | Mixed: suspension and aggregate | Glioblastoma          | <a href="#">PDM-22™</a> , <a href="#">PDM-18™</a> , <a href="#">PDM-123™</a> , <a href="#">PDM-132™</a> , <a href="#">PDM-140™</a> , <a href="#">PDM-299™</a> , <a href="#">PDM-300™</a> , <a href="#">PDM-301™</a> , <a href="#">PDM-320™</a> , <a href="#">PDM-402™</a> , <a href="#">PDM-405™</a> , <a href="#">PDM-504™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Brain                                         | Neurosphere                     | Glioblastoma          | <a href="#">PDM-378™</a> , <a href="#">PDM-379™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Breast                                        | Organoid                        | Cancer                | <a href="#">PDM-92™</a> , <a href="#">PDM-195™</a> , <a href="#">PDM-250™</a> , <a href="#">PDM-350™</a> , <a href="#">PDM-520™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Breast; Metastatic Site: Abdomen              | Organoid                        | Cancer                | <a href="#">PDM-523™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Breast; Metastatic Site: Lymph Node           | Organoid                        | Cancer                | <a href="#">PDM-411™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Colon                                         | Organoid                        | Adenocarcinoma        | <a href="#">PDM-1™</a> , <a href="#">PDM-45™</a> , <a href="#">PDM-46™</a> , <a href="#">PDM-50™</a> , <a href="#">PDM-51™</a> , <a href="#">PDM-52™</a> , <a href="#">PDM-53™</a> , <a href="#">PDM-54™</a> , <a href="#">PDM-56™</a> , <a href="#">PDM-57™</a> , <a href="#">PDM-58™</a> , <a href="#">PDM-59™</a> , <a href="#">PDM-60™</a> , <a href="#">PDM-61™</a> , <a href="#">PDM-64™</a> , <a href="#">PDM-94™</a> , <a href="#">PDM-95™</a> , <a href="#">PDM-98™</a> , <a href="#">PDM-183™</a> , <a href="#">PDM-184™</a> , <a href="#">PDM-185™</a> , <a href="#">PDM-186™</a> , <a href="#">PDM-188™</a> , <a href="#">PDM-189™</a> , <a href="#">PDM-256™</a> , <a href="#">PDM-260™</a> , <a href="#">PDM-261™</a> , <a href="#">PDM-262™</a> , <a href="#">PDM-265™</a> , <a href="#">PDM-266™</a>                                                                                                                                                                                                                                                                                                                       |
| Colon                                         | Organoid                        | Cancer                | <a href="#">PDM-99™</a> , <a href="#">PDM-187™</a> , <a href="#">PDM-247™</a> , <a href="#">PDM-255™</a> , <a href="#">PDM-354™</a> , <a href="#">PDM-356™</a> , <a href="#">PDM-357™</a> , <a href="#">PDM-359™</a> , <a href="#">PDM-363™</a> , <a href="#">PDM-364™</a> , <a href="#">PDM-375™</a> , <a href="#">PDM-408™</a> , <a href="#">PDM-416™</a> , <a href="#">PDM-420™</a> , <a href="#">PDM-422™</a> , <a href="#">PDM-513™</a> , <a href="#">PDM-539™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Colon                                         | Organoid                        | Adenoma               | <a href="#">PDM-48™</a> , <a href="#">PDM-274™</a> , <a href="#">PDM-276™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Colon; Metastatic Site: Brain                 | Mixed: suspension and aggregate | Adenocarcinoma        | <a href="#">PDM-104™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Colon; Metastatic Site: Colon                 | Organoid                        | Adenocarcinoma        | <a href="#">PDM-427™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Colon; Metastatic Site: Liver                 | Organoid                        | Adenocarcinoma        | <a href="#">PDM-42™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Colon; Metastatic Site: Liver                 | Organoid                        | Cancer                | <a href="#">PDM-372™</a> , <a href="#">PDM-410™</a> , <a href="#">PDM-418™</a> , <a href="#">PDM-425™</a> , <a href="#">PDM-426™</a> , <a href="#">PDM-537™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Colon; Metastatic Site: Lymph Node            | Organoid                        | Cancer                | <a href="#">PDM-275™</a> , <a href="#">PDM-277™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Colon; Metastatic Site: Pelvis                | Organoid                        | Cancer                | <a href="#">PDM-417™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Colon; Metastatic Site: Peritoneum            | Organoid                        | Cancer                | <a href="#">PDM-415™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Connective tissue                             | 2D adherent                     | Primary Desmoid Tumor | <a href="#">PDM-625™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Epithelial                                    | 2-D adherent                    | Epithelioid sarcoma   | <a href="#">PDM-229™</a> , <a href="#">PDM-236™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Esophagus                                     | Organoid                        | Adenocarcinoma        | <a href="#">PDM-68™</a> , <a href="#">PDM-69™</a> , <a href="#">PDM-70™</a> , <a href="#">PDM-71™</a> , <a href="#">PDM-72™</a> , <a href="#">PDM-74™</a> , <a href="#">PDM-75™</a> , <a href="#">PDM-76™</a> , <a href="#">PDM-77™</a> , <a href="#">PDM-78™</a> , <a href="#">PDM-79™</a> , <a href="#">PDM-80™</a> , <a href="#">PDM-81™</a> , <a href="#">PDM-82™</a> , <a href="#">PDM-84™</a> , <a href="#">PDM-85™</a> , <a href="#">PDM-86™</a> , <a href="#">PDM-87™</a> , <a href="#">PDM-88™</a> , <a href="#">PDM-89™</a> , <a href="#">PDM-120™</a> , <a href="#">PDM-124™</a> , <a href="#">PDM-131™</a> , <a href="#">PDM-159™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Tissue of Origin                             | Morphology                      | Disease                      | ATCC® No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------|---------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Esophagus                                    | Organoid                        | Cancer                       | <a href="#">PDM-65™</a> , <a href="#">PDM-67™</a> , <a href="#">PDM-73™</a> , <a href="#">PDM-225™</a> , <a href="#">PDM-339™</a> , <a href="#">PDM-469™</a> , <a href="#">PDM-512™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Esophagus                                    | Organoid                        | Malignant neoplasm           | <a href="#">PDM-83™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Esophagus; Metastatic Site: Abdominal Cavity | Organoid                        | Cancer                       | <a href="#">PDM-470™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Esophagus; Metastatic Site: Brain            | Mixed: suspension and aggregate | Cancer                       | <a href="#">PDM-246™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Esophagus; Metastatic Site: Liver            | Organoid                        | Adenocarcinoma               | <a href="#">PDM-119™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Esophagus; Metastatic Site: Liver            | Organoid                        | Cancer                       | <a href="#">PDM-468™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Esophagus; Metastatic Site: Peritoneum       | Organoid                        | Adenocarcinoma               | <a href="#">PDM-158™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Esophagus; Metastatic Site: Peritoneum       | Organoid                        | Cancer                       | <a href="#">PDM-488™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Esophagus; Metastatic Site: Pleura           | Organoid                        | Cancer                       | <a href="#">PDM-243™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Esophagus; Metastatic Site: Stomach          | Organoid                        | Cancer                       | <a href="#">PDM-490™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Extrahepatic Bile Duct                       | Organoid                        | Adenocarcinoma               | <a href="#">PDM-216™</a> , <a href="#">PDM-217™</a> , <a href="#">PDM-220™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gall bladder: IPMN                           | Organoid                        | Benign neoplasm premalignant | <a href="#">PDM-273™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Kidney                                       | 2-D adherent                    | Wilms tumor                  | <a href="#">PDM-115™</a> , <a href="#">PDM-182™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Liver                                        | Organoid                        | Cholangiocarcinoma           | <a href="#">PDM-219™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Lung                                         | Organoid                        | Adenocarcinoma               | <a href="#">PDM-3™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Lung                                         | Organoid                        | Cancer                       | <a href="#">PDM-683™</a> , <a href="#">PDM-685™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Lung; Metastatic Site: Brain                 | 2-D adherent                    | Cancer                       | <a href="#">PDM-305™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Lung; Metastatic Site: Brain                 | Mixed: suspension and aggregate | Cancer                       | <a href="#">PDM-112™</a> , <a href="#">PDM-154™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Neck                                         | Organoid                        | Cancer                       | <a href="#">PDM-428™</a> , <a href="#">PDM-431™</a> , <a href="#">PDM-440™</a> , <a href="#">PDM-441™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Ovary                                        | Organoid                        | Cancer                       | <a href="#">PDM-514™</a> , <a href="#">PDM-515™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Pancreas                                     | Organoid                        | Adenocarcinoma               | <a href="#">PDM-24™</a> , <a href="#">PDM-25™</a> , <a href="#">PDM-26™</a> , <a href="#">PDM-27™</a> , <a href="#">PDM-28™</a> , <a href="#">PDM-29™</a> , <a href="#">PDM-30™</a> , <a href="#">PDM-31™</a> , <a href="#">PDM-32™</a> , <a href="#">PDM-33™</a> , <a href="#">PDM-34™</a> , <a href="#">PDM-35™</a> , <a href="#">PDM-36™</a> , <a href="#">PDM-37™</a> , <a href="#">PDM-38™</a> , <a href="#">PDM-39™</a> , <a href="#">PDM-40™</a> , <a href="#">PDM-41™</a> , <a href="#">PDM-90™</a> , <a href="#">PDM-101™</a> , <a href="#">PDM-108™</a> , <a href="#">PDM-110™</a> , <a href="#">PDM-126™</a> , <a href="#">PDM-134™</a> , <a href="#">PDM-137™</a> , <a href="#">PDM-138™</a> , <a href="#">PDM-166™</a> , <a href="#">PDM-167™</a> , <a href="#">PDM-168™</a> , <a href="#">PDM-173™</a> , <a href="#">PDM-197™</a> , <a href="#">PDM-200™</a> , <a href="#">PDM-201™</a> , <a href="#">PDM-204™</a> , <a href="#">PDM-221™</a> , <a href="#">PDM-222™</a> |
| Pancreas                                     | Organoid                        | Cancer                       | <a href="#">PDM-203™</a> , <a href="#">PDM-205™</a> , <a href="#">PDM-270™</a> , <a href="#">PDM-421™</a> , <a href="#">PDM-423™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Pancreas                                     | Organoid                        | Cyst                         | <a href="#">PDM-573™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Pancreas; Metastatic Site: Abdomen           | Organoid                        | Adenocarcinoma               | <a href="#">PDM-169™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Pancreas; Metastatic Site: Liver             | Organoid                        | Adenocarcinoma               | <a href="#">PDM-106™</a> , <a href="#">PDM-289™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Pancreas; Metastatic Site: Liver             | Organoid                        | Cancer                       | <a href="#">PDM-288™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Pancreas; Metastatic Site: Liver             | Organoid                        | Malignant neoplasm           | <a href="#">PDM-179™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Pancreas; Metastatic Site: Lymph Node        | Organoid                        | Cancer                       | <a href="#">PDM-223™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Pancreas; Metastatic Site: Peritoneum        | Organoid                        | Adenocarcinoma               | <a href="#">PDM-164™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Pancreas; Metastatic Site: Pleural Cavity    | Organoid                        | Adenocarcinoma               | <a href="#">PDM-165™</a> , <a href="#">PDM-170™</a> , <a href="#">PDM-171™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Rectosigmoid Junction                        | Organoid                        | Adenocarcinoma               | <a href="#">PDM-6™</a> , <a href="#">PDM-100™</a> , <a href="#">PDM-264™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Rectum                                       | Organoid                        | Adenocarcinoma               | <a href="#">PDM-43™</a> , <a href="#">PDM-47™</a> , <a href="#">PDM-49™</a> , <a href="#">PDM-55™</a> , <a href="#">PDM-62™</a> , <a href="#">PDM-63™</a> , <a href="#">PDM-96™</a> , <a href="#">PDM-97™</a> , <a href="#">PDM-190™</a> , <a href="#">PDM-191™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Rectum                                       | Organoid                        | Adenoma                      | <a href="#">PDM-44™</a> , <a href="#">PDM-279™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Tissue of Origin                             | Morphology                      | Disease             | ATCC® No.                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------|---------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rectum                                       | Organoid                        | Cancer              | <a href="#">PDM-254™</a> , <a href="#">PDM-257™</a> , <a href="#">PDM-258™</a> , <a href="#">PDM-263™</a> ,<br><a href="#">PDM-330™</a> , <a href="#">PDM-331™</a> , <a href="#">PDM-414™</a>                                                                                                                                                                                                    |
| Rectum; Metastatic Site: Liver               | Organoid                        | Adenocarcinoma      | <a href="#">PDM-9™</a> , <a href="#">PDM-103™</a> , <a href="#">PDM-419™</a>                                                                                                                                                                                                                                                                                                                     |
| Sigmoid Colon                                | Organoid                        | Adenocarcinoma      | <a href="#">PDM-2™</a> , <a href="#">PDM-4™</a> , <a href="#">PDM-5™</a> , <a href="#">PDM-7™</a> , <a href="#">PDM-8™</a>                                                                                                                                                                                                                                                                       |
| Skin                                         | 2-D adherent                    | Melanoma            | <a href="#">PDM-484™</a>                                                                                                                                                                                                                                                                                                                                                                         |
| Skin; Metastatic Site: Ascites               | 2-D adherent                    | Melanoma            | <a href="#">PDM-509™</a>                                                                                                                                                                                                                                                                                                                                                                         |
| Skin; Metastatic Site: Brain                 | 2-D adherent                    | Melanoma            | <a href="#">PDM-282™</a> , <a href="#">PDM-384™</a> , <a href="#">PDM-481™</a> , <a href="#">PDM-485™</a> ,<br><a href="#">PDM-487™</a>                                                                                                                                                                                                                                                          |
| Skin; Metastatic Site: Brain                 | Mixed: Suspension and aggregate | Melanoma            | <a href="#">PDM-386™</a>                                                                                                                                                                                                                                                                                                                                                                         |
| Skin; Metastatic Site: Lymph Node            | 2-D adherent                    | Melanoma            | <a href="#">PDM-284™</a> , <a href="#">PDM-285™</a> , <a href="#">PDM-291™</a> , <a href="#">PDM-293™</a> ,<br><a href="#">PDM-294™</a> , <a href="#">PDM-319™</a> , <a href="#">PDM-387™</a> , <a href="#">PDM-388™</a> ,<br><a href="#">PDM-473™</a> , <a href="#">PDM-478™</a> , <a href="#">PDM-494™</a> , <a href="#">PDM-495™</a> ,<br><a href="#">PDM-496™</a> , <a href="#">PDM-498™</a> |
| Skin; Metastatic Site: Pleural Cavity        | 2-D adherent                    | Melanoma            | <a href="#">PDM-313™</a>                                                                                                                                                                                                                                                                                                                                                                         |
| Skin; Metastatic Site: Skin                  | 2-D adherent                    | Melanoma            | <a href="#">PDM-281™</a> , <a href="#">PDM-292™</a> , <a href="#">PDM-389™</a> , <a href="#">PDM-392™</a>                                                                                                                                                                                                                                                                                        |
| Skin; Metastatic Site: Small Bowel           | 2-D adherent                    | Melanoma            | <a href="#">PDM-395™</a>                                                                                                                                                                                                                                                                                                                                                                         |
| Small Intestine                              | Organoid                        | Adenoma             | <a href="#">PDM-368™</a>                                                                                                                                                                                                                                                                                                                                                                         |
| Small Intestine                              | Organoid                        | Cancer              | <a href="#">PDM-272™</a>                                                                                                                                                                                                                                                                                                                                                                         |
| Small Intestine; Metastatic Site: Lymph Node | Organoid                        | Cancer              | <a href="#">PDM-373™</a> , <a href="#">PDM-374™</a>                                                                                                                                                                                                                                                                                                                                              |
| Soft Tissue                                  | 2-D adherent                    | Leiomyosarcoma      | <a href="#">PDM-507™</a>                                                                                                                                                                                                                                                                                                                                                                         |
| Soft Tissue; Metastatic Site: Pleural Cavity | Mixed: adherent and suspension  | Rhabdomyosarcoma    | <a href="#">PDM-129™</a>                                                                                                                                                                                                                                                                                                                                                                         |
| Soft Tissue; Metastatic Site: Pleural Cavity | 2-D adherent                    | Rhabdomyosarcoma    | <a href="#">PDM-238™</a> , <a href="#">PDM-290™</a>                                                                                                                                                                                                                                                                                                                                              |
| Soft Tissue; Metastatic Site: Soft Tissue    | 2-D adherent                    | Epithelioid sarcoma | <a href="#">PDM-230™</a>                                                                                                                                                                                                                                                                                                                                                                         |
| Soft Tissue; Metastatic Site: Soft Tissue    | 2-D adherent                    | Malignant Neoplasm  | <a href="#">PDM-609™</a>                                                                                                                                                                                                                                                                                                                                                                         |
| Stomach                                      | Organoid                        | Adenocarcinoma      | <a href="#">PDM-136™</a> , <a href="#">PDM-146™</a>                                                                                                                                                                                                                                                                                                                                              |
| Stomach                                      | Organoid                        | Cancer              | <a href="#">PDM-233™</a> , <a href="#">PDM-226™</a> , <a href="#">PDM-296™</a> , <a href="#">PDM-308™</a> ,<br><a href="#">PDM-376™</a> , <a href="#">PDM-377™</a> , <a href="#">PDM-519™</a>                                                                                                                                                                                                    |
| Stomach; Metastatic Site: Ascites            | Organoid                        | Adenocarcinoma      | <a href="#">PDM-162™</a>                                                                                                                                                                                                                                                                                                                                                                         |
| Stomach; Metastatic Site: Ascites            | Organoid                        | Cancer              | <a href="#">PDM-315™</a> , <a href="#">PDM-316™</a> , <a href="#">PDM-323™</a> , <a href="#">PDM-489™</a>                                                                                                                                                                                                                                                                                        |
| Stomach; Metastatic Site: Lymph Node         | Organoid                        | Adenocarcinoma      | <a href="#">PDM-135™</a>                                                                                                                                                                                                                                                                                                                                                                         |
| Stomach; Metastatic Site: Pleural Cavity     | Organoid                        | Cancer              | <a href="#">PDM-161™</a>                                                                                                                                                                                                                                                                                                                                                                         |
| Stomach; Metastatic Site: Pleural Cavity     | Organoid                        | Adenocarcinoma      | <a href="#">PDM-116™</a>                                                                                                                                                                                                                                                                                                                                                                         |
| Stomach; Metastatic Site: Pleural Cavity     | Mixed: adherent and suspension  | Cancer              | <a href="#">PDM-163™</a>                                                                                                                                                                                                                                                                                                                                                                         |
| Thyroid Gland; Metastatic Site: Pleura       | 2-D adherent                    | Cancer              | <a href="#">PDM-662™</a>                                                                                                                                                                                                                                                                                                                                                                         |
| Uterus; Endometrium                          | Organoid                        | Cancer              | <a href="#">PDM-527™</a> , <a href="#">PDM-528™</a> , <a href="#">PDM-587™</a> , <a href="#">PDM-589™</a> ,<br><a href="#">PDM-590™</a> , <a href="#">PDM-603™</a>                                                                                                                                                                                                                               |

ORGANOID GROWTH KITS

| ATCC® No.                 | Growth Kit Name        | Applicable Organoid ATCC® No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">ACS-7100™</a> | Organoid Growth Kit 1A | <a href="#">PDM-1™</a> , <a href="#">PDM-2™</a> , <a href="#">PDM-4™</a> , <a href="#">PDM-5™</a> , <a href="#">PDM-6™</a> , <a href="#">PDM-7™</a> , <a href="#">PDM-8™</a> , <a href="#">PDM-9™</a> , <a href="#">PDM-64™</a> , <a href="#">PDM-94™</a> , <a href="#">PDM-95™</a> , <a href="#">PDM-96™</a> , <a href="#">PDM-97™</a> , <a href="#">PDM-98™</a> , <a href="#">PDM-99™</a> , <a href="#">PDM-100™</a> , <a href="#">PDM-103™</a> , <a href="#">PDM-183™</a> , <a href="#">PDM-184™</a> , <a href="#">PDM-185™</a> , <a href="#">PDM-186™</a> , <a href="#">PDM-187™</a> , <a href="#">PDM-188™</a> , <a href="#">PDM-189™</a> , <a href="#">PDM-190™</a> , <a href="#">PDM-191™</a> , <a href="#">PDM-247™</a> , <a href="#">PDM-254™</a> , <a href="#">PDM-255™</a> , <a href="#">PDM-256™</a> , <a href="#">PDM-257™</a> , <a href="#">PDM-258™</a> , <a href="#">PDM-260™</a> , <a href="#">PDM-261™</a> , <a href="#">PDM-262™</a> , <a href="#">PDM-265™</a> , <a href="#">PDM-266™</a> , <a href="#">PDM-263™</a> , <a href="#">PDM-264™</a> , <a href="#">PDM-272™</a> , <a href="#">PDM-273™</a> , <a href="#">PDM-274™</a> , <a href="#">PDM-275™</a> , <a href="#">PDM-276™</a> , <a href="#">PDM-277™</a> , <a href="#">PDM-279™</a> , <a href="#">PDM-354™</a> , <a href="#">PDM-356™</a> , <a href="#">PDM-357™</a> , <a href="#">PDM-359™</a> , <a href="#">PDM-363™</a> , <a href="#">PDM-364™</a> , <a href="#">PDM-372™</a> , <a href="#">PDM-408™</a> , <a href="#">PDM-410™</a> , <a href="#">PDM-414™</a> , <a href="#">PDM-415™</a> , <a href="#">PDM-416™</a> , <a href="#">PDM-417™</a> , <a href="#">PDM-418™</a> , <a href="#">PDM-419™</a> , <a href="#">PDM-420™</a> , <a href="#">PDM-422™</a> , <a href="#">PDM-425™</a> , <a href="#">PDM-426™</a> , <a href="#">PDM-427™</a> , <a href="#">PDM-537™</a> , <a href="#">PDM-573™</a> , <a href="#">PDM-539™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <a href="#">ACS-7101™</a> | Organoid Growth Kit 1B | <a href="#">PDM-24™</a> , <a href="#">PDM-25™</a> , <a href="#">PDM-26™</a> , <a href="#">PDM-27™</a> , <a href="#">PDM-28™</a> , <a href="#">PDM-29™</a> , <a href="#">PDM-30™</a> , <a href="#">PDM-31™</a> , <a href="#">PDM-32™</a> , <a href="#">PDM-33™</a> , <a href="#">PDM-34™</a> , <a href="#">PDM-35™</a> , <a href="#">PDM-36™</a> , <a href="#">PDM-38™</a> , <a href="#">PDM-39™</a> , <a href="#">PDM-40™</a> , <a href="#">PDM-41™</a> , <a href="#">PDM-69™</a> , <a href="#">PDM-90™</a> , <a href="#">PDM-101™</a> , <a href="#">PDM-106™</a> , <a href="#">PDM-107™</a> , <a href="#">PDM-108™</a> , <a href="#">PDM-110™</a> , <a href="#">PDM-116™</a> , <a href="#">PDM-119™</a> , <a href="#">PDM-120™</a> , <a href="#">PDM-124™</a> , <a href="#">PDM-126™</a> , <a href="#">PDM-131™</a> , <a href="#">PDM-134™</a> , <a href="#">PDM-135™</a> , <a href="#">PDM-136™</a> , <a href="#">PDM-137™</a> , <a href="#">PDM-138™</a> , <a href="#">PDM-146™</a> , <a href="#">PDM-158™</a> , <a href="#">PDM-159™</a> , <a href="#">PDM-161™</a> , <a href="#">PDM-162™</a> , <a href="#">PDM-164™</a> , <a href="#">PDM-165™</a> , <a href="#">PDM-166™</a> , <a href="#">PDM-167™</a> , <a href="#">PDM-168™</a> , <a href="#">PDM-169™</a> , <a href="#">PDM-170™</a> , <a href="#">PDM-171™</a> , <a href="#">PDM-173™</a> , <a href="#">PDM-179™</a> , <a href="#">PDM-197™</a> , <a href="#">PDM-198™</a> , <a href="#">PDM-200™</a> , <a href="#">PDM-201™</a> , <a href="#">PDM-203™</a> , <a href="#">PDM-204™</a> , <a href="#">PDM-205™</a> , <a href="#">PDM-216™</a> , <a href="#">PDM-217™</a> , <a href="#">PDM-218™</a> , <a href="#">PDM-219™</a> , <a href="#">PDM-220™</a> , <a href="#">PDM-221™</a> , <a href="#">PDM-222™</a> , <a href="#">PDM-223™</a> , <a href="#">PDM-226™</a> , <a href="#">PDM-233™</a> , <a href="#">PDM-246™</a> , <a href="#">PDM-270™</a> , <a href="#">PDM-288™</a> , <a href="#">PDM-289™</a> , <a href="#">PDM-296™</a> , <a href="#">PDM-308™</a> , <a href="#">PDM-315™</a> , <a href="#">PDM-316™</a> , <a href="#">PDM-323™</a> , <a href="#">PDM-368™</a> , <a href="#">PDM-369™</a> , <a href="#">PDM-373™</a> , <a href="#">PDM-374™</a> , <a href="#">PDM-421™</a> , <a href="#">PDM-423™</a> , <a href="#">PDM-445™</a> , <a href="#">PDM-468™</a> , <a href="#">PDM-469™</a> , <a href="#">PDM-470™</a> , <a href="#">PDM-488™</a> , <a href="#">PDM-489™</a> , <a href="#">PDM-490™</a> |
| <a href="#">ACS-7102™</a> | Organoid Growth Kit 1C | <a href="#">PDM-3™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <a href="#">ACS-7103™</a> | Organoid Growth Kit 1D | <a href="#">PDM-42™</a> , <a href="#">PDM-43™</a> , <a href="#">PDM-44™</a> , <a href="#">PDM-45™</a> , <a href="#">PDM-46™</a> , <a href="#">PDM-47™</a> , <a href="#">PDM-48™</a> , <a href="#">PDM-49™</a> , <a href="#">PDM-50™</a> , <a href="#">PDM-51™</a> , <a href="#">PDM-52™</a> , <a href="#">PDM-53™</a> , <a href="#">PDM-54™</a> , <a href="#">PDM-55™</a> , <a href="#">PDM-56™</a> , <a href="#">PDM-57™</a> , <a href="#">PDM-58™</a> , <a href="#">PDM-59™</a> , <a href="#">PDM-60™</a> , <a href="#">PDM-61™</a> , <a href="#">PDM-62™</a> , <a href="#">PDM-63™</a> , <a href="#">PDM-68™</a> , <a href="#">PDM-330™</a> , <a href="#">PDM-331™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <a href="#">ACS-7104™</a> | Organoid Growth Kit 1E | <a href="#">PDM-65™</a> , <a href="#">PDM-67™</a> , <a href="#">PDM-70™</a> , <a href="#">PDM-71™</a> , <a href="#">PDM-72™</a> , <a href="#">PDM-73™</a> , <a href="#">PDM-74™</a> , <a href="#">PDM-75™</a> , <a href="#">PDM-76™</a> , <a href="#">PDM-77™</a> , <a href="#">PDM-78™</a> , <a href="#">PDM-79™</a> , <a href="#">PDM-80™</a> , <a href="#">PDM-81™</a> , <a href="#">PDM-82™</a> , <a href="#">PDM-83™</a> , <a href="#">PDM-84™</a> , <a href="#">PDM-85™</a> , <a href="#">PDM-86™</a> , <a href="#">PDM-87™</a> , <a href="#">PDM-88™</a> , <a href="#">PDM-89™</a> , <a href="#">PDM-243™</a> , <a href="#">PDM-339™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <a href="#">ACS-7105™</a> | Organoid Growth Kit 1F | <a href="#">PDM-92™</a> , <a href="#">PDM-195™</a> , <a href="#">PDM-250™</a> , <a href="#">PDM-350™</a> , <a href="#">PDM-376™</a> , <a href="#">PDM-377™</a> , <a href="#">PDM-411™</a> , <a href="#">PDM-512™</a> , <a href="#">PDM-513™</a> , <a href="#">PDM-519™</a> , <a href="#">PDM-520™</a> , <a href="#">PDM-523™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <a href="#">ACS-7106™</a> | Organoid Growth Kit 1G | <a href="#">PDM-37™</a> , <a href="#">PDM-102™</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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