		endocrine	gastrointestinal	hepatic, pancreatic, biliary	mammary	neural	ereproductive	respiratory	urinary	other
higmolov	ation counts	neuroendocrinethyroid	esophagus large infestine - locally advanced rectal stomach - diffuse-type gastric other gastrointestinal	biliary liver pancreas	 mammary ER-positive breast triple-negative breast 	brain other neural	cervix ovary - Ingin—grade serous ovarian prostate - castration-resistant prostate - metastatic castration-resistant prostate - neuroendocrine prostate uterus	lung - non-small-cell lung	 bjadder kidney clear cell renal cell carcinoma renal cell carcinoma 	bone dermal ymphatic oral vascular other unidentified
	Lynch syndrome signet ring cell carcinoma small cell carcinoma squamous cell carcinoma		•							
			• • • • • • •	• • •		• •	• • • • • • •	• •		• •
model / source	patient-derived organoid patient-derived xenograft biobank GEMM assembloid	•	• • • • •	• • •	•	•	• • • •	•	• • •	• • •
therapy	personalized medicine chemotherapy chemoresistance targeted therapy immunotherapy adoptive cell therapy immune checkpoint monoclonal antibody oncolytic virus radiotherapy radioresistance neoadjuvant therapy photodynamic therapy photothermal therapy									
pharmacology	drug development drug testing drug delivery	•	• • • •	• • •	• •	• •	• • • • • •	• •	• • • •	
physiology	tumorigenesis cancer stem cell tumor heterogeneity tumor microenvironment hypoxia angiogenesis CAF metastasis EMT intra/extravasation circulating tumor cell MET microsatellite instability	• •				•			• • • •	
immune cells	immune cells dendritic cell lymphocyte natural killer cell B cell T cell TIL macrophages TAM mast cell MDSC neutrophil			• • • •		• • •		0 •		
cellular process	apoptosis autophagy extracellular vesicles ER stress reactive oxigen species	•	• • •	• • •	• •	•		• •		• • • • •
techniques	gene editing genomics epigenetics transcriptomics scRNA seq proteomics metabolomics mass spectrometry high-content analysis optical metabolic imaging Raman spectroscopy	•				• •		0 0 0		