



		tumor types								
trend										
tumor types	squamous cell carcinoma									
model / source	patient-derived organoid patient-derived xenograft									
therapy	personalized medicine chemotherapy -- chemoresistance targeted therapy immunotherapy -- adoptive cell therapy -- immune checkpoint -- monoclonal antibody -- oncolytic virus radiotherapy -- radioresistance									
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 microsatellite instability									
immune cells	immune cells lymphocyte -- natural killer cell -- B cell -- T cell macrophages -- TAM neutrophil									
cellular process	apoptosis autophagy extracellular vesicles									
techniques	gene editing genomics epigenetics transcriptomics scRNA seq proteomics mass spectrometry high-content analysis optical metabolic imaging									