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封面故事

当一粒直径不足0.3 mm的“微肿瘤”在培养皿中自组装成球, 它不仅在模拟患者原始癌灶的每一寸异质性, 也在为临床医生点亮一盏实时导航灯。

患者来源类肿瘤细胞簇 (Patient-derived Tumor-like Cell Cluster, PTC) 模型是患者来源新鲜肿瘤组织样本, 经处理、培养后, 以肿瘤细胞为主的多组分细胞自发聚集形成的3D肿瘤微球。与原始肿瘤在形态结构、病理特征、遗传信息、细胞组成等多维度上都具有高度相似性。利用PTC进行药敏检测, 对结直肠癌药物敏感性有较高的预测价值, 有望使结直肠癌患者得到更精准的治疗。

本封面图描绘了结直肠癌组织经过培养后形成PTC微球, 象征“体外重建”与“体内真实”无缝衔接。未来, 每块切除的肿瘤组织都可能成为一枚“芯片上的替身”, 让精准治疗不再等待, 让耐药不再无解。