

ODONTOBLAST

Odontoblasts are specialized eukaryotic cells responsible for forming dentin, the hard tissue beneath enamel in teeth. These cells are essential in dentistry because they play a major role in tooth development, repair, and defense against decay. Odontoblasts contain rough endoplasmic reticulum, Golgi apparatus, and mitochondria, which support their high level of protein synthesis needed for dentin production. Understanding odontoblast structure and function is important for dental professionals when treating cavities, trauma, and restorative procedures.

