

Introduction to Stem Cell Applications

Lecture notes

1. Stem cells are undifferentiated cells able to self-renew and differentiate.
2. Main types: embryonic, adult (somatic), and induced pluripotent stem cells (iPSCs).
3. Sources include bone marrow, adipose tissue, and umbilical cord.
4. Clinical applications span orthopedics, aesthetics and regenerative therapies.
5. Always follow the ethical and legal framework for cell-based products.