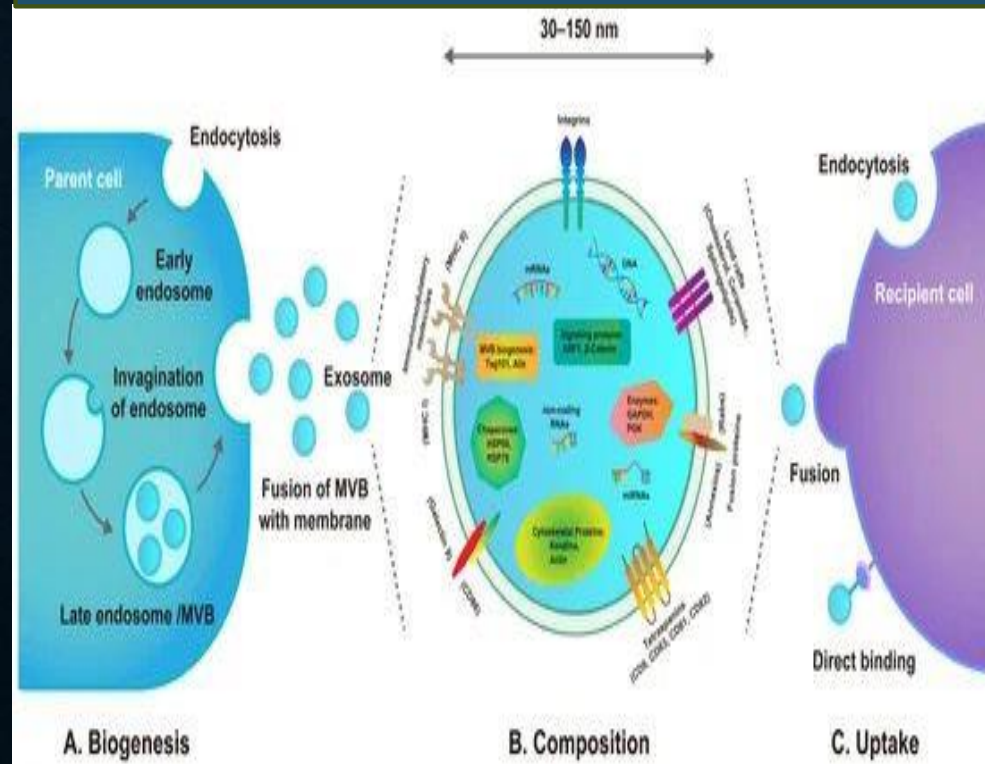


EXOSOME MEDIATED REGENERATION IN ENDODONTICS- PARADIGM SHIFT IN PULP-DENTIN REPAIR

INTRODUCTION: Exosomes offer a promising, cell-free approach in regenerative endodontics for repairing dental tissues and restoring tooth vitality.

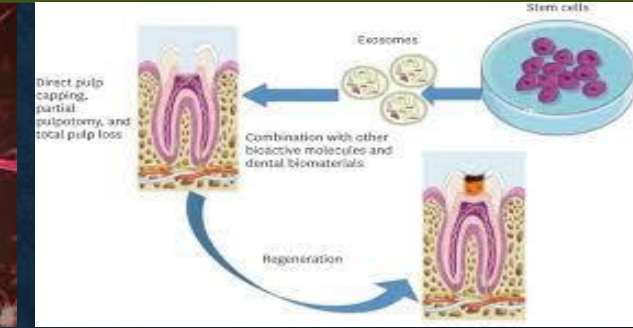
BIOLOGICAL CHARACTERISTICS OF EXOSOMES



Odontogenesis



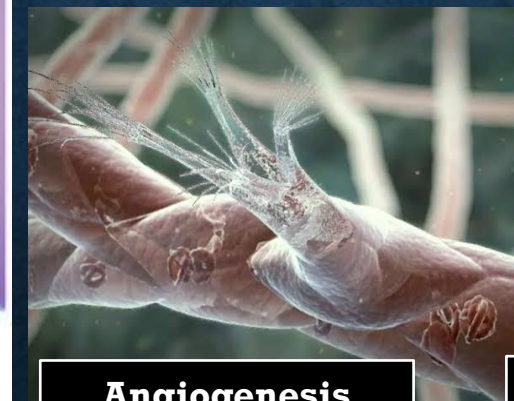
Neurogenesis



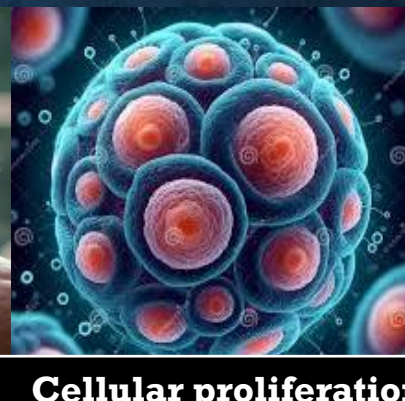
Influencing factors

- ❖ Types of parent cells
- ❖ Culture environment of parent cells
- ❖ Exosome concentration
- ❖ Application environment of exosomes

Role & Mechanism of Exosomes



Angiogenesis



Cellular proliferation

CONCLUSION: Exosomes has a crucial role in enhancing cell biological functions & promoting pulp-dentin complex regeneration.