

Department of Dental Pharmacology

1. Instructors

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2. Research Projects

1. Functions of vesicle-associated proteins concerned with transport
2. Molecular mechanisms of bone metabolism
3. Function and regulation of exosome

Fig. 1

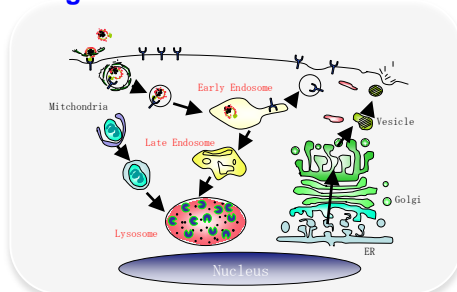
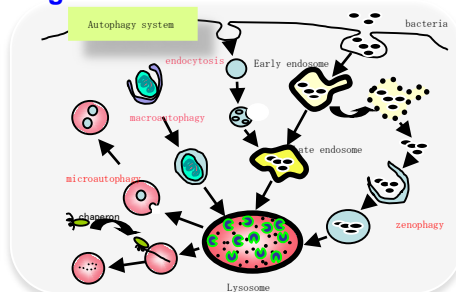


Fig. 2



Functions of lysosomes are digestion and recycling of material taken up from outside the cells (Fig. 1). Lysosomes are also responsible for autophagy (Fig. 2). We are studying about vesicle-associated proteins like small GTPase rab family concerned with vesicular transport.

Fig. 3

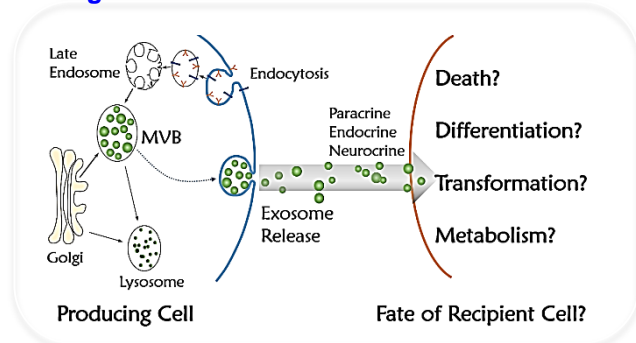
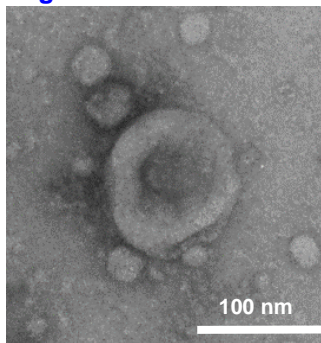


Fig. 4



Exosomes are small intraluminal vesicles (about 100 nm in diameter) of multivesicular membranes (MVBs) (Fig. 3, 4). Our study is aimed at investigating whether these secretory vesicles including microRNA and proteins can use as a oral cancer marker or a therapeutic drug.

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