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Signaling Pathways and Membrane Trafficking in Osteoclasts

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Message from the Guest Editor

Osteoclasts are bone-resorbing giant cells that have multinucleated formations. The mechanisms of osteoclast differentiation are strictly controlled by various signaling pathways. In addition, a characteristic of osteoclast differentiation is the formation of specific membrane called “ruffled border”. Therefore, osteoclast differentiation is closely regulated by various intracellular signaling pathways and membrane trafficking mechanisms.

Keywords

- Cell signaling
- Membrane trafficking
- Lysosomes
- Podosomes
- Receptors
- Ion channels
- Membrane proteins
- Actin-binding proteins
- Bone diseases



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