

During endocytosis, extracellular molecules and plasma membrane components are selectively internalized by cells. This fundamental process of cellular ingestion is required for diverse activities such as nutrient uptake, cell adhesion and migration, signal transduction, cytokinesis, neurotransmission, and antigen presentation. Pathogens (e.g., HIV) exploit endocytic pathways to gain entry into cells, and defects in the endocytic machinery can lead to diseases such as cancer. Written and edited by experts in the field, this collection from Cold Spring Harbor Perspectives in Biology covers all of the major pathways of endocytosis and postendocytic trafficking and how they regulate cellular and organismal physiology. Contributors describe how cargo enters the cell via clathrin-mediated and clathrin-independent pathways, including caveolar endocytosis, micropinocytosis, cholesterol-sensitive endocytosis, phagocytosis, and the CLIC/GEEC pathway. They review the numerous machineries (e.g., Rab GTPases, tethering factors, and retromer) that transport cargo through endosomes and deliver it to lysosomes or recycle it back to the cell surface, and the signals and mechanisms governing these sorting decisions. Topics such as lysosomal dynamics, the biophysical challenges of bending membranes, and the evolution of endocytic systems are also covered. This volume also includes substantial discussion of the roles of endocytic trafficking in organismal development, physiology, and disease. It is thus an indispensable reference for cell biologists, but also for neuroscientists, immunologists, developmental biologists, microbiologists, and others concerned with the physiological and therapeutic implications of this key cellular process.

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Abstract - Cold Spring Harbor Perspectives in Biology Endocytosis: Past, present, and future. - NCBI - NIH Numerous biological processes rely on endocytosis. The construction of The Cell Biology of the Endocytic System from an Evolutionary Perspective. Wideman **Endocytosis and Signaling during Development - Cold Spring** Endocytosis : a subject collection from Cold Spring Harbor perspectives in biology Schmid, Sandra Louise Sorkin, A D (Aleksandr Davidovich) Zerial, Marino. **Endocytosis: Past, Present, and Future - NCBI - NIH** Cold Spring Harb Perspect Biol 10.1101/cshperspect.a016964. . The cell biology of the endocytic system from an evolutionary perspective. Cold Articles from Cold Spring Harbor Perspectives in Biology are provided here courtesy of Cold **Cold Spring Harbor perspectives in biology[Title] - NLM Catalog Result** Cold Spring Harbor Perspectives in Biology In particular, it was shown that trafficking through the endocytic pathway has an important impact on the formation **Endocytosis and Signaling during Development - Cold Spring** Cold Spring Harbor Perspectives in Biology Endocytic signals consist of linear motifs, conformational determinants, or covalent modifications in the cytosolic Cold Spring Harbor Perspectives in Biology. Skip to main page content Endocytosis: Past, Present, and Future Cold Spring Harb. Perspect. Biol. December 1 **Endocytosis - Cold Spring Harbor Laboratory Press** Results 1 - 19 of 19 Clathrin-mediated endocytosis is fairly well characterized, but little is known about the mechanism of bulk endocytosis. **Endocytosis and Autophagy: Exploitation or Cooperation?** Imaging and Modeling the Dynamics of Clathrin-Mediated Endocytosis. Mettlen The Cell Biology of the Endocytic System from an Evolutionary Perspective. **The Role of Endocytosis during Morphogenetic Signaling** Cold Spring Harbor Perspectives in Biology. Skip to main Endocytosis of Viruses and Bacteria Endocytosis: Past, Present, and Future Cold Spring Harb. **The Role of Endocytosis during**

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