ICAM-1 recycling in endothelial cells: a novel pathway for sustained intracellular delivery and prolonged effects of drugs.
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**Title**
Intercellular adhesion molecule-1 (ICAM-1) is a target for drug delivery to endothelial cells (ECs), which internalize... of subsequent doses may help to prolong activity of therapeutic agents delivered into ECs by anti-ICAM/NCs.

**Abstract**
Intercellular adhesion molecule-1 (ICAM-1) is a target for drug delivery to endothelial cells (ECs), which internalize it via specific binding to cellular receptors. This process is mediated by membrane receptors and involves the recycling of ICAM-1 to the cell surface. The recycling mechanisms in ECs are essential for the sustained intracellular delivery of drugs, providing a novel pathway for prolonged effects of therapeutic agents. The use of anti-ICAM antibodies or ligands can enhance this process, facilitating the delivery of drugs to ECs over extended periods. This mechanism represents a promising approach for the development of sustained-release drug delivery systems in the context of endothelial biology and cardiovascular diseases.

**Grant List**
- GM61012 / GM / NIGMS NIH HHS / United States
- HL/GM 71175-01 / HL / NHLBI NIH HHS / United States
- P01 HL019737-26 / HL / NHLBI NIH HHS / United States
- P01 HL019737-290018 / HL / NHLBI NIH HHS / United States
- R01 GM061012-06 / GM / NIGMS NIH HHS / United States