

## Accepted Manuscript

Title: Endosomal “sort” of signaling control: the role of ESCRT machinery in regulation of receptor-mediated signaling pathways

Authors: Ewelina Szymanska, Noga Budick-Harmelin, Marta Miaczynska



PII: S1084-9521(16)30487-6  
DOI: <http://dx.doi.org/doi:10.1016/j.semcdb.2017.08.012>  
Reference: YSCDB 2321

To appear in: *Seminars in Cell & Developmental Biology*

Received date: 29-4-2017  
Revised date: 24-7-2017  
Accepted date: 4-8-2017

Please cite this article as: Szymanska Ewelina, Budick-Harmelin Noga, Miaczynska Marta. Endosomal “sort” of signaling control: the role of ESCRT machinery in regulation of receptor-mediated signaling pathways. *Seminars in Cell and Developmental Biology* <http://dx.doi.org/10.1016/j.semcdb.2017.08.012>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

# **Endosomal “sort” of signaling control: the role of ESCRT machinery in regulation of receptor-mediated signaling pathways**

Ewelina Szymanska\*<sup>1</sup>, Noga Budick-Harmelin\*<sup>1, 2</sup>, Marta Miaczynska#<sup>1</sup>

<sup>1</sup> Laboratory of Cell Biology, International Institute of Molecular and Cell Biology, Warsaw, Poland

<sup>2</sup> Cell Research and Immunology Department, George S. Wise Faculty of Life Sciences, Tel Aviv University, Israel

\* These authors contributed equally to this work

# Corresponding author: Marta Miaczynska  
International Institute of Molecular and Cell Biology  
Ks. Trojdena 4  
02-109 Warsaw, Poland  
Phone: +48 22 597 07 25  
Fax: +48 22 597 07 26  
e-mail: miaczynska@iimcb.gov.pl

## **Abstract**

The endosomal sorting complexes required for transport (ESCRTs) machinery consists of four protein assemblies (ESCRT-0 to –III subcomplexes) which mediate various processes of membrane remodeling in the cell. In the endocytic pathway, ESCRTs sort cargo destined for degradation into intraluminal vesicles (ILVs) of endosomes. Cargos targeted by ESCRTs include various signaling molecules, mainly internalized cell-surface receptors but also some cytosolic

Download English Version:

<https://daneshyari.com/en/article/8479771>

Download Persian Version:

<https://daneshyari.com/article/8479771>

[Daneshyari.com](https://daneshyari.com)