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Noncanonical intercellular communication in immune response

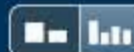
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Abstract

The classical view of signaling between cells of immune system includes two major routes of intercellular communication: through the release of extracellular molecules or a direct interaction between membrane bound receptor and its membrane bound ligand, which initiate a cascade of signaling in target cell. However, recent studies indicate that besides these canonical modes of signaling there are also noncanonical routes of intercellular communications through membrane stripping/membrane exchange/trogocytosis, extracellular traps, exosomes and ectosomes/microparticles. In this review we discuss what are the components of noncanonical pathways of signaling and what role they play in immune cells interactions.

Key words: trogocytosis, membrane stripping, extracellular traps, exosomes, ectosomes, microparticles

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