Bioorthogonal Antigens

Pawlak, J.B.

The aim of this thesis is to explore the use of Bioorthogonal Antigens to study the cross-presentation pathway. Bioorthogonal Antigens are antigens carrying bioorthogonal groups in specific amino acid positions within the epitope region that can be reacted selectively within/on the cell using bioorthogonal ligation strategies. Incorporation of bioorthogonal groups into antigens has an advantage over other methods because most of the groups are stable to proteolysis and are small enough to have a minimal impact on routing and loading onto MHC-I molecules. In the future, these antigens have potential to be applied for imaging of the entire cross-presentation pathway using a single bioorthogonal handle.

BIOORTHOGONAL ANTIGENS

JOANNA B. PAWLAK

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Joanna B. Pawlak