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(54) Title: AGENTS AND METHODS FOR TARGETED DELIVERY TO CELLS

(57) Abstract: The invention relates to agents and methods for targeted delivery of payloads to cells. The agents and methods are useful for delivering therapeutic or diagnostic agents to target cells. In one embodiment, the invention involves administering RNA encoding a peptide or polypeptide (docking compound) comprising a binding moiety (primary targeting moiety) binding to target cells and a further binding moiety (secondary target) binding to an agent that comprises a payload (effector probe). Following expression of the RNA, the primary targeting moiety may bind to a target antigen such as a cancer antigen on cancer cells and then a secondary targeting moiety comprised in the effector probe may target the secondary target to thereby precisely deliver a "payload" to the target cells such as cancer cells.