

Title (en)

DETECTION OF MOLECULAR INTERACTION BY REACTIVATION OF AN AUTO-INHIBITED RESPONDER (RAIR)

Title (de)

NACHWEIS EINER MOLEKULAREN WECHSELWIRKUNG DURCH REAKTIVIERUNG EINES AUTOINHIBIERTEN RESPONDERMOLEKÜLS (RAIR)

Title (fr)

DETECTION D'INTERACTION MOLECULAIRE PAR REACTIVATION D'UNE MOLECULE REACTIVE AUTO-INHIBEE (RAIR)

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Application

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Abstract (en)

[origin: WO03068945A2] This invention provides methods and systems for linking the functional activation of a responder molecule to the interaction of two or more binding ensemble members of interest either in vitro or in vivo, and thereby producing a signal, phenotype, or other functional output in response to the interaction of the binding ensemble members. These systems based on the reactivation of an auto-inhibited responder (RAIR) comprise a responder, an inhibitor of the responder, and an inhibitor of the inhibitor, or "reactivator" of the responder, and interacting components. Two binding ensemble members are complexed to the other components of the system in such a way that interaction of the binding ensemble members, either directly or via additional ensemble members, causes a shift in the equilibrium of inhibitor from the responder to the reactivator, thereby functionally reactivating the responder.

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