

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)

Publication

**EP 1570073 A2 20050907 (EN)**

Application

**EP 03713528 A 20030214**

Priority

- US 0304925 W 20030214
- US 7684502 A 20020214
- US 37376502 P 20020418
- US 37380202 P 20020418
- US 37971802 P 20020510
- US 20873002 A 20020729

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.

IPC 1-7

**C12Q 1/68**; **G01N 33/53**; **G01N 33/566**

IPC 8 full level

**C12N 9/78** (2006.01); **G01N 33/542** (2006.01)

CPC (source: EP)

**C12N 9/78** (2013.01); **G01N 33/542** (2013.01); **C07K 2319/00** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

**WO 03068945 A2 20030821**; **WO 03068945 A3 20050714**; AU 2003217575 A1 20030904; AU 2003217575 A8 20030904; EP 1570073 A2 20050907; EP 1570073 A4 20060118

DOCDB simple family (application)

**US 0304925 W 20030214**; AU 2003217575 A 20030214; EP 03713528 A 20030214