

Title (en)

METHODS FOR IDENTIFYING SMALL MOLECULES THAT BIND SPECIFIC RNA STRUCTURAL MOTIFS

Title (de)

VERFAHREN ZUR IDENTIFIZIERUNG KLEINER, SPEZIFISCHE RNA-STRUKTIRMOTIVE BINDENDER MOLEKÜLE

Title (fr)

PROCEDES PERMETTANT L'IDENTIFICATION DE MOLECULES DE PETITE TAILLE QUI SE LIENT AVEC DES MOTIFS STRUCTURELS SPECIFIQUES DE L'ARN

Publication

**EP 1377684 A1 20040107 (EN)**

Application

**EP 02725663 A 20020411**

Priority

- US 0211757 W 20020411
- US 28296501 P 20010411

Abstract (en)

[origin: WO02083953A1] The present invention relates to a method for screening and identifying test compounds that bind to a preselected target ribonucleic acid ("RNA"). Direct, non-competitive binding assays are advantageously used to screen libraries of compounds for those that selectively bind to a preselected target RNA. Binding of target RNA molecules to a particular test compound is detected using any physical method that measures the altered physical property of the target RNA bound to a test compound. The structure of the test compound attached to the labeled RNA is also determined. The methods used will depend, in part, on the nature of the library screened. The methods of the present invention provide a simple, sensitive assay for high-throughput screening of libraries of compounds to identify pharmaceutical leads.

IPC 1-7

**C12Q 1/68**; **C07H 21/02**; **G01N 27/26**

IPC 8 full level

**C12N 15/09** (2006.01); **C12Q 1/68** (2006.01); **G01N 27/447** (2006.01); **G01N 27/62** (2006.01); **G01N 33/15** (2006.01); **G01N 33/50** (2006.01); **G01N 33/53** (2006.01); **G01N 33/566** (2006.01)

CPC (source: EP)

**B82Y 30/00** (2013.01); **G01N 27/44726** (2013.01)

Cited by

US7927791B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**WO 02083953 A1 20021024**; CA 2443711 A1 20021024; EP 1377684 A1 20040107; EP 1377684 A4 20090318; JP 2004537037 A 20041209

DOCDB simple family (application)

**US 0211757 W 20020411**; CA 2443711 A 20020411; EP 02725663 A 20020411; JP 2002581693 A 20020411