

Title (en)

METHOD FOR STUDYING PROTEIN INTERACTIONS \$(IN VIVO)

Title (de)

VERFAHREN ZUM STUDIUM VON PROTEINWECHSELWIRKUNGEN IN VIVO

Title (fr)

PROCEDE D'ETUDE D'INTERACTIONS DE PROTEINES \$(IN VIVO)

Publication

EP 1109931 A4 20041215 (EN)

Application

EP 99945460 A 19990902

Priority

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- US 13583599 P 19990524

Abstract (en)

[origin: WO014271A1] A method for determining whether a first protein interacts with a second protein within a living cell. The method comprises providing the first protein complexed to a donor luciferase and the second protein complexed to an acceptor fluorophore within the cell. The complexed first protein and the complexed second protein are allowed to come into proximity to each other within the cell. Then, any fluorescence from the acceptor fluorophore resulting from luminescence resonance energy transfer from the donor luciferase is detected, where fluorescence from the acceptor fluorophore indicates that the first protein has interacted with the second protein.

IPC 1-7

C12Q 1/66; G01N 33/542

IPC 8 full level

G01N 21/64 (2006.01); **C07K 14/435** (2006.01); **C12N 15/09** (2006.01); **C12N 15/10** (2006.01); **C12Q 1/02** (2006.01); **C12Q 1/66** (2006.01); **G01N 21/78** (2006.01); **G01N 33/483** (2006.01); **G01N 33/566** (2006.01); **G01N 33/68** (2006.01)

CPC (source: EP)

C07K 14/43595 (2013.01); **C12N 15/1055** (2013.01); **C07K 2319/00** (2013.01)

Citation (search report)

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- [XY] EP 0137515 A2 19850417 - UNIV GEORGIA RES FOUND [US]
- [Y] MAHAJAN N P ET AL: "BCL-2 AND BAX INTERACTIONS IN MITOCHONDRIA PROBED WITH GREEN FLUORESCENT PROTEIN AND FLUORESCENCE RESONANCE ENERGY TRANSFER", NATURE BIOTECHNOLOGY, NATURE PUBLISHING, US, vol. 16, June 1998 (1998-06-01), pages 547 - 552, XP000876894, ISSN: 1087-0156
- [PX] WANG Y ET AL: "Chemiluminescence energy transfer to study protein-protein interaction in living cells", BIOLUMINESCENCE AND CHEMILUMINESCENCE FOR THE 21ST CENTURY - PROCEEDINGS OF THE 10TH INTERNATIONAL SYMPOSIUM ON BIOLUMINESCENCE AND CHEMILUMINESCENCE, 1999, pages 475 - 478, XP008036438
- See references of WO 0014271A1

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