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(54) Title: ISOLATION OF MEMBRANE BOUND LIGAND-SPECIFIC COMPLEXES

(57) Abstract: A method to recover or "deracinate" receptors from intact membranes in their native configuration without removing microenvironmental components associated with them is described. The membranes containing the receptors are first associated with ligand-coupled solid supports to achieve association of the membranes through a receptor/ligand complex which includes the microenvironmental to the solid support and then removing the membrane from the receptor and its microenvironment by shear forces. The thus isolated receptors and their microenvironments can then be analyzed for their role in cellular differentiation, apoptosis, transformation and the like.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/24116

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/70

US CL : 435/5

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/5

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JAKOBOVITS et al. Plucking of lectin receptors from erythrocytes: Isolation of cell surface components without the use of detergents. Biochemical and Biophysical Research Communication. 30 June 1981, Vol. 100, No. 4, pages 1484-1490, whole document, especially Figure 1 and page 1489.	1-4, 6-15, 18-23, 26-31
Y	EDELMAN et al. Specific Fractionation and Manipulation of Cells with Chemically Derivatized Fibers and Surfaces. Academic Press, New York, 1974, chapte 15, pages 195-225, especially pages 205-207, 212-220.	1-31
Y	KUPCHIK HERBERT. Monoclonal Hybridoma antibody. CRC Press, Boca Raton, FL, 1982, chapter 3, pages 81-89.	9, 31



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"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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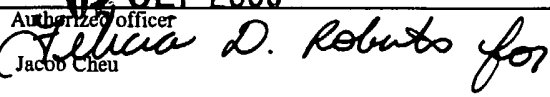
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