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WPI Acc No: 1997-435281/199740
XRAM Acc No: C97-139715
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Photo-toxicity and photosensitivity determination - comprises evaluation of effect of substance on embryo or tissue after contact and irradiation with electromagnetic radiation

Patent Assignee: NEUMANN R J (NEUM-I); UNIV DUESSELDORF-HEINRICH-HEINE (UYDU-N); NEUMANN N J (NEUM-I)

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Number of Countries: 070 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9731266	A1	19970828	WO 97EP508	A	19970205	199740 B
DE 19606207	A1	19970828	DE 1006207	A	19960221	199740
AU 9717217	A	19970910	AU 9717217	A	19970205	199802
EP 883808	A1	19981216	EP 97904379	A	19970205	199903
			WO 97EP508	A	19970205	
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			WO 97EP508	A	19970205	
DE 59701514	G	20000531	DE 501514	A	19970205	200033
			EP 97904379	A	19970205	
			WO 97EP508	A	19970205	
US 6171858	B1	20010109	WO 97EP508	A	19970205	200104
			US 99117797	A	19990311	

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Cited Patents: 4.Jnl.Ref; US 5405369; WO 9301272

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

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Designated States (National): AM AT AU BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL JP KE KG KP KR KZ LC LK LR LT LU LV MD MG MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TT UA US UZ VN YU

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AU 9717217 A G01N-033/50 Based on patent WO 9731266

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DE 59701514 G G01N-033/50 Based on patent EP 883808

Based on patent WO 9731266

US 6171858 B1 C12N-005/00 Based on patent WO 9731266

Abstract (Basic): WO 9731266 A

Phototoxicity and/or photosensitivity of substances (individually or as a mixture) is determined by:

(a) contacting the substance(s) either with a non-human vertebrate embryo or with tissue or cells from a vertebrate embryo (except human skin cell cultures);

(b) irradiating with electromagnetic radiation in the range of 1 mm-200 nm, and

(c) evaluating embryo, tissue or cell pathology.

USE - The method is useful in investigating biologically active substances, especially pharmaceuticals, herbicides and insecticides, as well as light-screening substances.

ADVANTAGE - The method is simple and satisfies ethical requirements.

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Title Terms: PHOTO; TOXIC; PHOTOSENSITISER; DETERMINE; COMPRISE; EVALUATE; EFFECT; SUBSTANCE; EMBRYO; TISSUE; AFTER; CONTACT; IRRADIATE; ELECTROMAGNET; RADIATE

Derwent Class: B04; C07; D16; S03

International Patent Class (Main): C12N-005/00; G01N-021/75; G01N-033/50

International Patent Class (Additional): C12N-005/06; C12Q-001/00;

C12Q-001/02; G01N-033/15; G01N-033/483

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C11-C07B2; B12-K04A; C12-K04A; D05-H09

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Chemical Fragment Codes (M1):

01 M423 M760 M903 N102 Q233 V600 V614 V644 V645 V754

Chemical Fragment Codes (M6):

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