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(54) Title: IMAGING AGENTS AND METHODS

(57) Abstract: The disclosure includes a composition including a poly(L-glutamic acid) and a NIRF dye. It also includes a method including providing to a plurality of cells an imaging agent including poly(L-glutamic acid), a NIRF dye and then imaging the cells to detect the imaging agent. It further includes a dual functional contrast agent including an MRI agent conjugated with an optical imaging agent. A method of detecting cancer is provided including injecting a dual functional contrast agent into a patient and performing both an MRI and an optical scan. The presence of the agent may indicate cancer. A method of detecting cancer by injecting PG-DTPA-Gd-NIR813 into a patient, then detecting the presence or absence of Gd in a cell or tissue of the patient and detecting the presence or absence of NIR813 in a cell or tissue of the patient is provided. The presence of Gd and NIR813 may indicate cancer.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC: A61K 31/404(2006.01);C07D 209/04(2006.01)

USPC: 548/452,454,455;514/412,414,415

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. : 548/452,454,455;514/412,414,415

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)
EAST, STN CAS ONLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,844,139 B2 (TAO et al) 18 January 2005 (18.01.2005).	1-33
A	US 6,458,511 B1 (WITTIG et al) 01 October 2002 (01.10.2002).	1-33



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