

Title (en)

NON PEPTIDIC MOLECULES FOR DETECTING AND TREATING TUMORS

Title (de)

NICHT-PEPTIDISCHE MOLEKÜLE ZUR ERKENNUNG UND BEHANDLUNG VON TUMOREN

Title (fr)

COMPOSITIONS OUTILS ONCOLOGIQUES ET PROCÉDÉS D'UTILISATION POUR DÉTECTER ET TRAITER DES TUMEURS

Publication

EP 1998760 A2 20081210 (EN)

Application

EP 07754699 A 20070325

Priority

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- US 44950806 A 20060607

Abstract (en)

[origin: WO2007117398A2] One of the most universal characteristics of malignant tumors is their acidity. Onco-tools are small non-peptide synthetic molecules designed to exploit this acidity for early detection and destruction of tumors. Each onco-tool has a structure which is anionic and hydrophilic at pH 7.4 and so repels from the negatively-charged surfaces of cells in normal tissues. When an onco-tool enters an acidic environment, such as in a tumor, a portion of the onco-tool molecules switch to their non-ionic lipophilic form which is designed to enter cells, such as cells in acidic areas of tumors. Prior to use of an onco-tool, a selected radioisotope is linked to the onco-tool. If that radioisotope emits radiation which can be detected outside the body, then the onco-tool can serve for detecting tumors. If that radioisotope emits radiation effective to kill cells, then the onco-tool can serve for treating tumors.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2007117398A2

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