Title: PREVENTION OF AND THERAPY FOR RADIATION TOXICITY OF NORMAL TISSUES USING DRUGS WHICH BLOCK IL-1 ACTIVITY

Abstract: A method for the prevention of and therapy for radiation pneumonitis, dermatitis, soft tissue fibrosis and central nervous system toxicity in patients undergoing therapeutic radiation. In addition, the invention provides for pre-treatment of those responding to nuclear bio terrorism or other nuclear or radiological accidents. Thus, with the present invention, subjects may be treated in order to prevent toxicity from nuclear bio terrorism or other nuclear or radiological accidents. More particularly, we have discovered a method for prophylactically treating radiation toxicity in normal tissue of a subject comprising administering an anti-radiation toxicity effective amount of a cytokine blocking agent through the subject. More specifically, we have discovered a method for prophylactically treating radiation pneumonitis, dermatitis, soft tissue fibrosis or central nervous system toxicity in a subject comprising administering an anti-radiation pneumonitis, dermatitis, soft tissue fibrosis or central nervous system toxicity effective amount of a cytokine blocking agent to the subject.
**INTERNATIONAL SEARCH REPORT**

**A. CLASSIFICATION OF SUBJECT MATTER**

<table>
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<th>IPC(7)</th>
<th>A61K 41/00; A61P 25/00</th>
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<td>US CL.</td>
<td>314/365, 399, 400, 403, 406, 407, 471, 609, 603, 604, 605</td>
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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. | 514/365, 399, 400, 403, 406, 407, 471, 609, 603, 604, 605 |

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**

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<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<td>X</td>
<td>WO 00/38716 A1 (G.D. SEARLE &amp; CO.) 06 JULY 2000 (06.07.00), see the entire document.</td>
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Date of the actual completion of the international search: 15 MAY 2003

Date of mailing of the international search report: 19 AUG 2003

Name and mailing address of the ISA/US Commissioner of Patents and Trademarks

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Form PCT/ISA/110 (second sheet) (July 1998)