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(54) Title: **DEGUELIN AS A CHEMOPREVENTIVE AGENT FOR LUNG CANCER**

(57) Abstract: The present invention provides the chemopreventive agent deguelin, a natural product isolated from *Mundulea serica* (Leguminosae), and derivatives thereof, for use in combination with a second agent for inhibiting growth premalignant and malignant lung cancer cells by causing G2/M arrest and apoptosis. Thus, the present invention provides deguelin-based combination therapies for the treatment and prevention of lung cancer. The second agent of the present invention may, in particular, be an inhibitor of the P13K, MAPK or JNK signaling pathways, or a chemotherapeutic agent, or radiotherapeutic agent.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/32263

A. CLASSIFICATION OF SUBJECT MATTER												
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US CL : 514/453												
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. : 514/453												
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)												
Please See Continuation Sheet												
C. DOCUMENTS CONSIDERED TO BE RELEVANT												
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.										
Y,P	Database BIOSIS on STN (Columbus, OH, USA), AN 2003:21795, Lee, H, Cancer Epidemiology Biomarkers & Prevention, October 2002, 11 (10), part 2, p. 1181s, abstract.	1-73, 104-121										
Y	Database BIOSIS on STN (Columbus, OH, USA), AN 2000:272809, Lee, H. et al, Proceedings of the Am. Assoc. Cancer Res. Annual Mtg, March 2000, 41, p. 856, abstract.	1-73, 104-121										
Y	Database HCAPLUS on STN (Columbus, OH, USA), AN 133:144904, Weber, E et al, WO 2000045165, 20000803, abstract.	74-103										
Y	Database HCAPLUS on STN (Columbus, OH, USA), AN 112:69530, Balsko G. et al, J. Natural Products, 1989, 52(6), 1363-6, abstract.	74-103										
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Y	Database HCAPLUS on STN (Columbus, OH, USA), AN 131:251965, Schally, A, et al, Eur. J. Endocrin., 1999, 141(1), 1-14, abstract.	1-121										
Y	Database HCAPLUS on STN (Columbus, OH, USA), AN 134:172517, Stein, R et al, Molecular Med. Today, 2000, 6(9), 347-358, abstract.	1-121										
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