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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHODS OF DIAGNOSIS OF CANCER AND SCREENING FOR CANCER MODULATORS

MARKLSVILILTLFALSVTNPLHELKAAFPQTTEKISPNWESGINVDLAI STRQYHLQQLFYRYGENNSLS  
VEGFRKLLQNIIGIDKIKRIHIHHDHSDHEHHS DHERHSDHEHHS DHDHSHHNHAASGKNKR  
KALCPDHSDSDSSGKDP RNSQGGKAHRPEHASGRRNVKDSVSASEVTSTVYNTVSEGT HFL ETIETPRPGKL  
FPKDVSSSTPPSVTSKSRVSR LAGRKTNESVSEPRKGFMYSRNTNENPQECFNASKLLTSHGMGIQVPLNA  
TEFNYLCPAI INQIDARSCL IHTSEKKA EIPPKTYSLQIAWVGGFIAISII SFLSLLGVILVPLMNRVFFK  
FLLSFLVALAVGTL SGAFLHLLPHSHASHHSHSHEEPAMEMKRGPLF SHLSSQNI EESAYFDSTWKGLT  
ALGGLYFMFLVEHVLT LIKQFKDKKKKNQKPPENDDDVEIKKQLSKYESQLSTNEEKVD TDDRTEGYLRAD  
SQEP SHFDSQQPAVLEEEVMI AHAPQEVYNEYVPRGCKNKCHSHFHDTL GQSDDLIHHHHDYHHI LHHH  
HHQNHHPHSHSQRYSREELKDAGVATLAWVMIMGDGLHNFSDGLAIGA AFTEGLSSGLSTSVAVFCHELPH  
ELGDFAVLLKAGMTVKQAVLYNALSAMLAYLGMATGIFIGHYAENVSMWIFALTAGLFMYVALVDMVPEML  
HNDASDHGCSRWGYFFLQNA GMLLGF GIMLLISIFEHKIVFRINF

(57) Abstract: Described herein are methods that can be used for diagnosis and prognosis of prostate cancer, breast cancer, ovarian cancer and/or bladder cancer. Also described herein are methods that can be used to screen candidate bioactive agents for the ability to modulate prostate cancer, breast cancer, ovarian cancer and/or bladder cancer. Additionally, methods and molecular targets (genes and their products) for the therapeutic intervention in prostate cancer, breast cancer and other cancers are described.



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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/25997

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01N33/50 G01N33/68 G01N33/574 C07K16/18 A61P35/00  
 A61K39/395 A61K49/00 A61K51/00 A61K48/00

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)

IPC 7 G01N

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 practical, search terms used)

MEDLINE, BIOSIS, EPO-Internal, WPI Data, PAJ, SEQUENCE SEARCH, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	No relevant documents disclosed -----	

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \* & \* document member of the same patent family

Date of the actual completion of the international search

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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US 01/25997

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: —  
because they relate to subject matter not required to be searched by this Authority, namely:  
see FURTHER INFORMATION sheet PCT/ISA/210
2.  Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

Continuation of Box I.1

Although claim 7 is directed to a diagnostic method practised on the human/animal body and claims 5, 6, 19-27 and 29-31 (for in vivo methods) are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

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Continuation of Box I.1

Rule 39.1(iv) PCT - Diagnostic method practised on the human or animal body

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy