Use of Grape Skin Extracts as Anti-Cancer Agents

Description of Technology: The invention describes anti-tumor effects of extracts from grape skins. Grape skin extract and derivatives may therefore be useful as preventive or therapeutic agents against tumor development.

Literature indicates that grape and red wine consumption may be inversely associated with prostate cancer risk. Moreover, to date there are no known grape skin extract-associated toxicities described. The current invention discloses that grape skin extract, or purified fractions thereof, inhibited metastatic growth in human prostate transformed cell lines. Specifically, grape skin extract induced cellular apoptosis via inhibition of the phosphatidylinositol 3-kinase (PI3-K)/Akt survival pathway.

Historically, anti-tumor effects of grapes were mainly attributed to resveratrol, a phytoalexin present in grapes, nuts and wild berries. However, resveratrol’s mechanism of anti-tumor action is distinct from that of grape skin extract, in that it arrests cell cycle division without significant induction of apoptosis.

The current invention also provides for methods of treating patients with prostate cancer or persons at risk for developing prostate cancer with compositions that include grape skin extract or active anti-tumor fractions thereof.

Development Status: Pre-clinical stage.

Inventors: Tamaro Hudson and Jeffrey E. Green (NCI)


Licensing Status: Available for non-exclusive or exclusive licensing.

Licensing Contact: David Lambertson, PhD; 301–435–4632; lambertsond@od.nih.gov.

Collaborative Research Opportunity: The NCI’s Laboratory of Cell Regulation and Carcinogenesis is seeking statements of capability or interest from parties interested in collaborative research to further develop, evaluate, or commercialize this technology. Please contact Patrick Twomey, PhD at 301–496–0477 or twomeyp@mail.nih.gov for more information.


Steven M. Ferguson,
Director, Division of Technology Development and Transfer, Office of Technology Transfer, National Institutes of Health.

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Cancer Institute; Amended Notice of Meeting

Notice is hereby given of a change in the meeting of the National Cancer Institute Special Emphasis Panel, September 11, 2006, 5 p.m. to September 13, 2006, 6 p.m., Doubletree Hotel, 8120 Wisconsin Ave., Bethesda, MD, 20814 which was published in the Federal Register on July 25, 2006. 71 FR 42098.

The meeting notice is amended to reflect the change in hotel from the Doubletree Hotel, 8120 Wisconsin Ave., Bethesda, MD 20814 to the Clarion Hotel, 8400 Wisconsin Ave., Bethesda, MD 20814. The meeting is closed to the public.


Anna Snouffer,
Acting Director, Office of Federal Advisory Committee Policy.

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Center on Minority Health and Health Disparities; Amended Notice of Meeting

Notice is hereby given of a change in the meeting of the National Advisory Council on Minority Health and Health Disparities, September 12, 2006, 8:30 a.m. to September 12, 2006, 5 p.m., National Institutes of Health, Two Democracy Plaza, 6707 Democracy Boulevard, Bethesda, MD, 20892 which was published in the Federal Register on August 18, 2006, 71 FR 47817.

The meeting location changed to the Bethesda Marriott, 5151 Pooks Hill Rd., Bethesda, Maryland 20814. The meeting is partially closed to the public.


Anna Snouffer
Acting Director, Office of Federal Advisory Committee Policy.

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Eye Institute; Notice of Closed Meeting

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended (5 U.S.C. Appendix 2), notice is hereby given of the following meetings.

The meeting will be closed to the public in accordance with the provisions set forth in sections 552b(c)(4) and 552b(c)(6), Title 5 U.S.C., as amended. The grant applications and