



MMHCC Newsletter February 2008

MouseLine

TNF-alpha Antagonist Stops Inflammation-induced Colon Cancer In Its Tracks

Individuals with the inflammatory bowel disease ulcerative colitis are at increased risk of developing colon cancer.



New data generated by Naofumi Mukaida and colleagues at Kanazawa University, Japan, identified a central role for the soluble factor TNF-alpha in the development of colon cancer in mice in which inflammation of the bowel was induced by administration of azoxymethane (AOM) followed by repeated dextran sulfate sodium (DSS) ingestion.

Expression of TNF-alpha was increased in the colon of normal mice treated with AOM and DSS and this was followed by the development of tumors in the colon.

Mice lacking one of the receptors for TNF-alpha and mice treated with an antagonist of TNF-alpha were markedly protected from the effects of treatment with AOM and DSS, developing less inflammation of the colon and fewer tumors in the colon.

As suggested by the authors, and by Ezra Burstein and Eric R. Fearon in an accompanying commentary, these data provide clear rationale for the idea that drugs antagonizing TNF-alpha (such as those used to treat individuals with rheumatoid arthritis) might be useful in reducing the risk of colon cancer in individuals with ulcerative colitis.

Source: ScienceDaily; <http://www.sciencedaily.com/releases/2008/01/080124173812.htm>

Publication:

Popivanova BK, Kitamura K, Wu Y, Kondo T, Kagaya T, Kaneko S, Oshima M, Fujii C, Mukaida N. Blocking TNF-alpha in mice reduces colorectal carcinogenesis associated with chronic colitis.

J Clin Invest. 2008 Feb 1;118(2):560-570.

PMID: [18219394](https://pubmed.ncbi.nlm.nih.gov/18219394/)





Meetings

March 25 – 28, 2008

CHI's-5th Annual Molecular Diagnostics Conference

San Francisco, California

Meeting Information: <http://www.Tri-Conference.com>

April 12 – 13, 2008

Training Course in Biomedical Ontology

Buffalo, New York

The course will provide an introductory survey of methods and an overview of current developments and best practices in ontology in the life sciences. No prior knowledge of ontology is presupposed. All sessions will be highly interactive and designed to be of interest to those with a background in medicine or biology.

Further details are available here:

http://www.bioontology.org/wiki/index.php/Introduction_to_Biomedical_Ontologies

April 12-16, 2008

AACR Annual Meeting

San Diego, California

Meeting Information: <http://www.aacr.org/home/scientists/meetings--workshops/annual-meeting-2008.aspx>

April 23 – 24, 2008

CHI's-The Challenge of Antibacterial Drug Development: Integrating Chemistry and Biology Development

San Diego, California

Meeting Information: <https://chidb.com/register/2008/bac/reg.asp>

April 28 – 30, 2008

CHI's-6th Annual Bio IT World Conference & Expo

Boston, Massachusetts

Meeting Information: <http://www.Bio-ITWorldExpo.com>





Notices and Funding Opportunities

NLM Express Research Grants in Biomedical Informatics (R01)

PAR-08-080

National Library of Medicine

<http://grants.nih.gov/grants/guide/pa-files/PAR-08-080.html>

NIH Fiscal Policy for Grant Awards – FY 2008

NOT-OD-08-036

National Institutes of Health

<http://grants.nih.gov/grants/guide/notice-files/NOT-OD-08-036.html>

Administrative Supplements to Promote Research Collaborations for Projects Currently Funded by the National Cancer Institute (NCI) Division of Cancer Biology

NOT-CA-08-007

National Cancer Institute

<http://grants.nih.gov/grants/guide/notice-files/NOT-CA-08-007.html>

Repository News

The Mouse Repository is an NCI-supported resource for the distribution of mouse models of human cancers and associated strains. The Repository makes strains available to all members of the scientific community. Up to 3 breeder pairs of each available strain may be ordered.

Newly accepted strains

The following strain has recently been accepted into the Mouse Repository and is available for distribution (*please click on the specific link for additional information*):

1. **B6.Cg-Apc^{tm2Rak} (Apc CKO)**
<http://mouse.ncifcrf.gov/details.asp?ID=01XAA>

More information can be found on the NCI's Mouse Repository's website:

<http://mouse.ncifcrf.gov>

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