

CancerGene Information -- Version 5.1 Updated 5/2/2010

Thank-you for your interest in CancerGene with BRCAPRO, MMRpro, PancPRO, and MelaPRO. This program is provided "as is" without warranty of any kind.

#### Installing CancerGene

The CaGene install file is downloaded from <http://www4.utsouthwestern.edu/breasthealth/cagene>. The file that is downloaded is a zip file. You must save this file to your computer and then extract it using any unzip utility. You must then double click CG5.1\_Setup.exe to install the program.

The setup application installs CaGene5.1 and associated files to a new folder in the Program Files directory. C:\Program Files\Care\_5.1. The install also creates a new file on the C:\ drive named CGFiles. The files in CGFiles are required for CaGene to run properly and should never be deleted, moved, or modified. There is no reason to ever directly access the files in CGFiles. CG5.1\_Setup will not over write any existing installation or cagene.mdb databases.

Prior versions of CaGene were installed in a C:\ drive directory (e.g. C:\Care\_5) and all intermediate files generated while running CaGene were written to and read from the install directory. This was the cause of many R-errors for users who did not have full read/write access to the installation directory. Beginning with version 5.1, CaGene is installed in the Program Files directory (C:\Program Files\Care\_5.1) and all intermediate files are written to and read from C:\CGFiles.

IF YOU HAVE BEEN RUNNING A PRIOR VERSION OF CancerGene you should manually delete all shortcuts to your prior version application so that you do not inadvertently run an older version (this could corrupt input files that have been generated by the new version). In addition, it would be a good idea to delete everything in the prior version folders except the cagene.X.mdb database.

#### If You Ever Need to Uninstall CancerGene

Double click CG5.1\_Setup.exe and then select the "Remove Program" option to completely uninstall CaGene 5.1.

Extensive documentation for CancerGene is incorporated into the program. From the opening title screen click "Info" and then "Using CancerGene" to view this documentation

#### What's New in **CaGene5.1**

The BayesMendel calculations have been updated to incorporate the latest BRCAPRO, MMRpro, and PancPRO calculations.

MelaPRO has been added to calculate p16 gene mutation probabilities.

Race-specific calculations are performed.

The location of colon cancers (proximal or distal) and the results of MMR IHC tests is included in MMRpro.

It is possible to run BayesMendel calculations for any relative.

Users specify where input and output text files are stored.

The NCI Gail model has replaced the original CaGene Gail model.

Myriad BRCA prevalence table has been updated to February 2010.

Myriad HNPCC prevalence table has been updated to November 2007.

IF YOU HAVE DATA IN A PRIOR VERSION cagene.mdb database, you can transfer it to the cagene5.1.mdb database (with updated claculations) with a click of a button.

#### System Requirements

This program is designed to run with Window2000 and higher including Windows NT and Windows XP. It has not been tested with Windows Vista or Windows7. Pedigree-drawing and model calculations are processor-intensive. The program runs best on newer, faster machines. It will not run on Macintosh as is, but some MacIntosh users have run CancerGene successfully using PC emulation software. The program includes a Microsoft Access database which is very useful for saving and accessing your pedigree and probability information. You must have Microsoft Access installed on your computer to take advantage of this functionality. If you do not have Microsoft Access you can still use CancerGene. Your pedigree information will be saved to a folder on your local computer or a password-protected institutional server that you specify. PLEASE BE AWARE THAT IF YOU RUN A FAMILY WITH THE SAME UNIQUE ID NUMBER AS A PRIOR FAMILY CANCERGENE WILL OVERWRITE THE EXISTING PEDIGREE INFORMATION IN THE ARCHIVE FOLDER.

Some users have been interested in generating CancerGene input files from their own family history databases. A document called "InputFiles5.1" is installed in C:\Program Files\Care\_5.1 when CancerGene is installed. This document describes the format of the CancerGene input file. By special arrangement, a modified version of CaGene can be supplied that is capable of running calculations from the command line. Click "Info" on the Title screen, then "Using CancerGene", then "CMD Line Load" for more information.

In order to save files to the database you must have Microsoft Access installed on your computer. The install routine should automatically configure your MS Access ODBC driver to establish communication with the database. If you have Microsoft Access installed and see an error message displayed in the "CaGene Database Files" window after you click "Load File" you will have to configure your ODBC driver manually as follows:

Open the control panel by selecting "Settings" after clicking the "Start" button

Select "Add"

Select Microsoft Access Driver (\*.mdb)

Select "Finish"

Type cagene5.1 in the Data Source Name file.

Click the "Select" button and then use the browser that appears to select cagene5.mdb in the "C:\Program Files\Care\_5.1" folder.

Click "OK"

I am always happy to hear from users. You can contact me at: [David.Euhus@utsouthwestern.edu](mailto:David.Euhus@utsouthwestern.edu)