

## Technical notes for viewing the FNGraph and Excel files:

### 1) Installing FNGraph

FNGraph was created by Alexander Minza. The home of the FNGraph package is <http://old.ournet.md/~fngraph/index.html>. The files mentioned in this guide are all available in the fng.zip zipped file provided on the webpage.

The installation package fngraph\_2.61.exe is 523KB in size, just run it to install. The installed package FNGraph.exe is 340KB in size. FNGraph only runs on Windows.

If you see a runtime error message "Failed to start because MSVBVM50.DLL was not found", you need to install that file (part of Visual Basic 5.0 Virtual Machine). Run the msvbvm50 setup file provided in fng.zip. The .DLL file is also provided in fng.zip. The file should be pasted into the directory

- C:\Windows\SysWOW64 on a 64-bit machine;
- C:\Windows\System32 on a 32-bit machine.

**2025 update:** If you get a runtime error 'comdlg32.ocx missing', this file is also provided in fng.zip. Or you can also download it from

[https://www.bioinformatics.org/snp-tools-excel/install\\_comdlg32.htm](https://www.bioinformatics.org/snp-tools-excel/install_comdlg32.htm)

That page also provides the instructions for registering it.

I am very grateful to Amanor Kisseih for providing this information.

FNGraph is freeware, and can be used without restriction. It does not require any plug-ins. The source code has been made available at <http://fngraph.codeplex.com/SourceControl/ListDownloadableCommits.aspx>

We are very grateful to Alexander Minza for permission to feature FNGraph in this book, and to make it available for download from the book website. This folder contains the files fngraph\_2.61.exe and Msvbvm50.exe

### 2) Running macros in Excel

Some of the Excel spreadsheets in this book include a sliding scrollbar. This is a macro, and the default security setting in Excel prevents such macros from running. To activate the scrollbar, go to

Tools > Macro > Security...

and change the security level from high to Medium. This setting will be remembered, and in future when you open an .xls file containing macros you will be prompted to choose whether macros should be enabled; click on the "Enable macros" button.