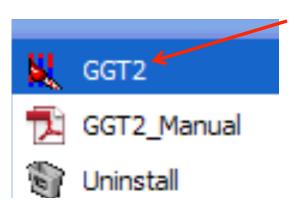
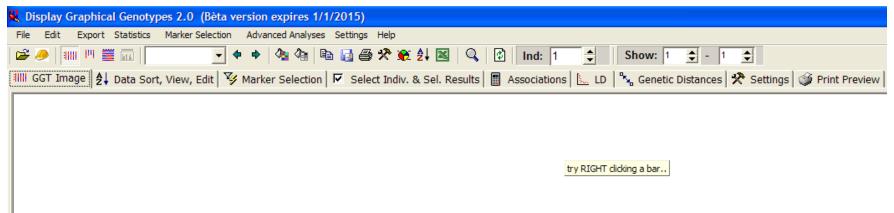
Estimation of LD decay using Graphical GenoTypes (GGT) 2.0 software (van Berloo 2008)

By

Dr. M. Awais Khan
University of Illinois, Urbana-Champaign



Click on "GGT2" to start the software



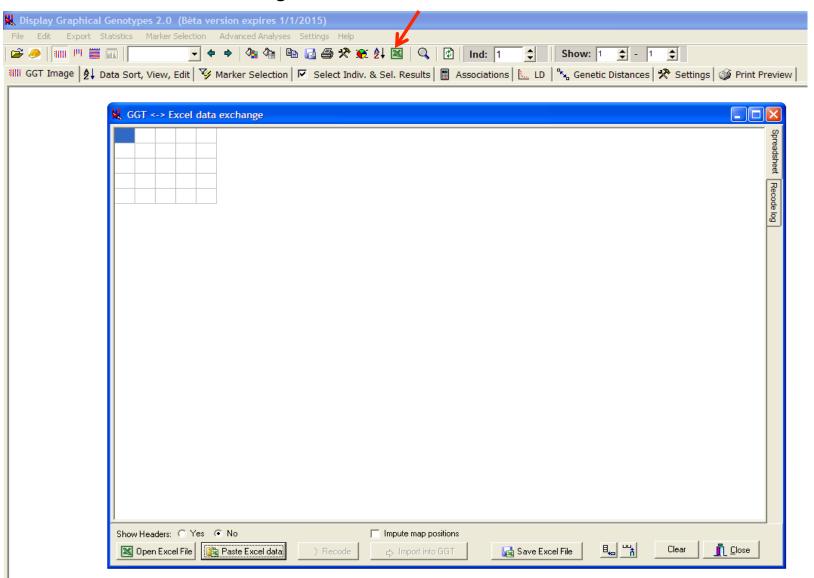
Open a file or choose "Build GGT File" from the "File" menu to create a GGT file from MAP & LOC data...

> No Data Available <

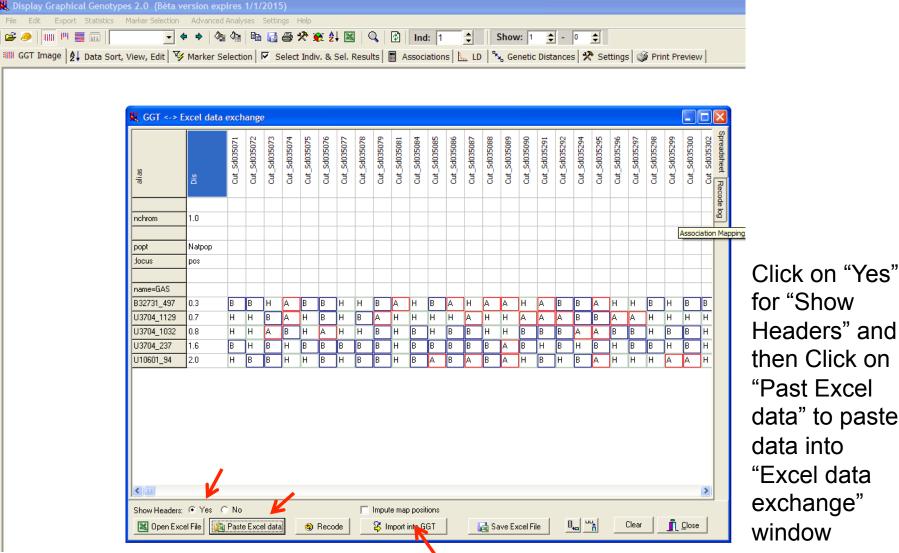
New! import GGT data from Excel files - see menu

New! drag and drop .ggt files here to open..

Click on "excel" icon, it will open "excel data exchange" window to enter data



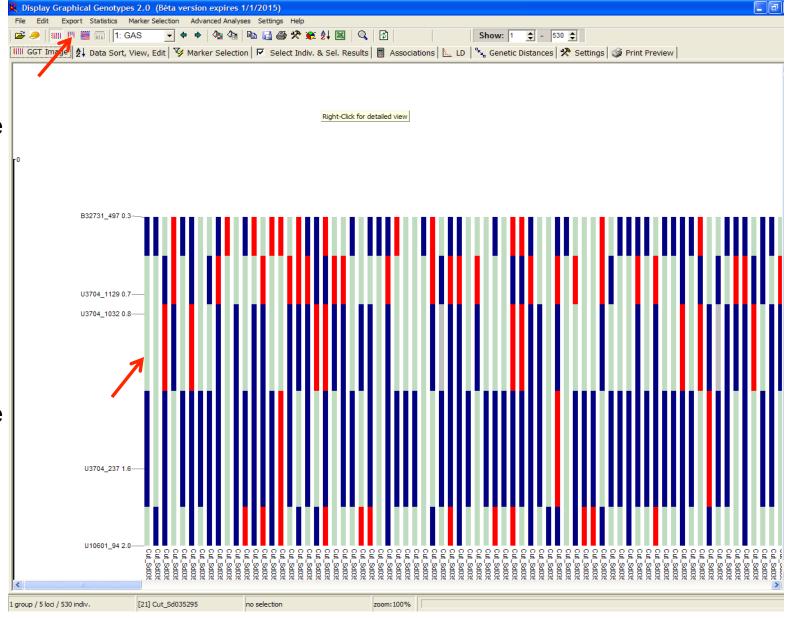
Copy data from tabsheet "Demonstration data GAS" of excel file "Demonstration data-I D-GGT"

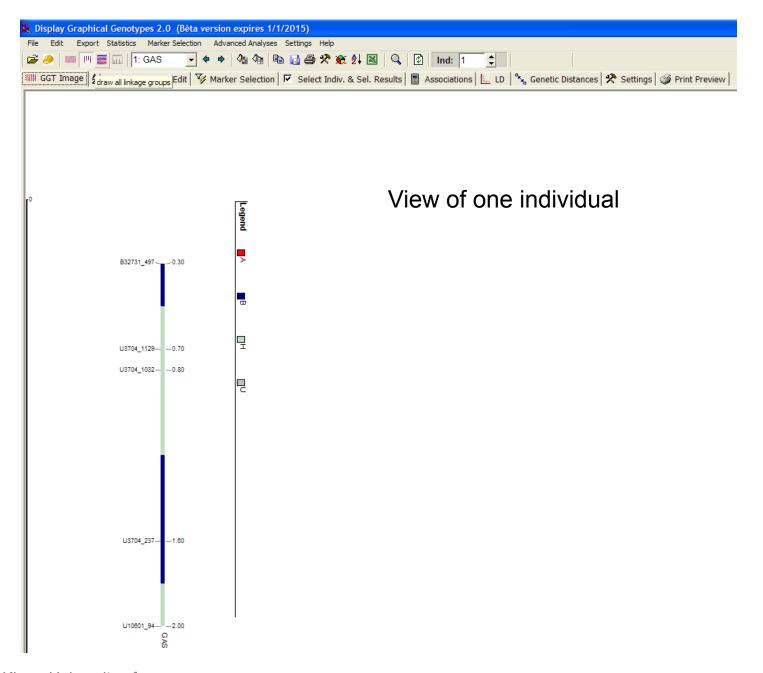


for "Show Headers" and then Click on "Past Excel data" to paste data into "Excel data exchange"

Click "import into GGT" to import data pasted into GGT

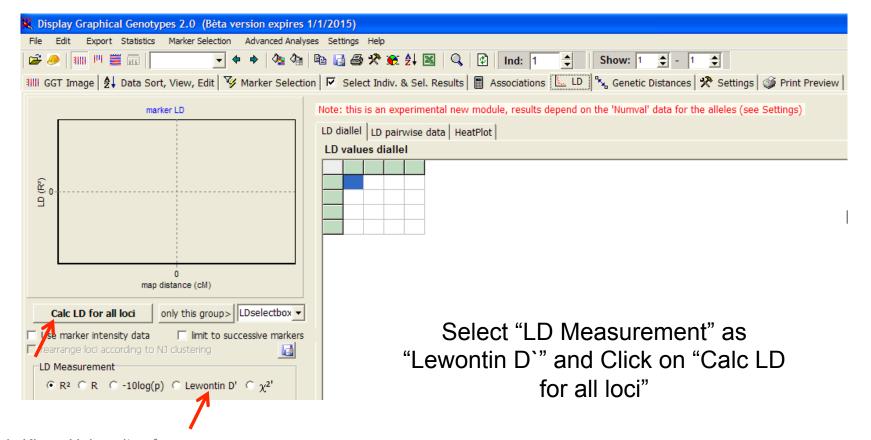
Each bar represents the genome of a single individual. Right Click individual bar or Click as shown above to see the detailed view of the genome of each individual

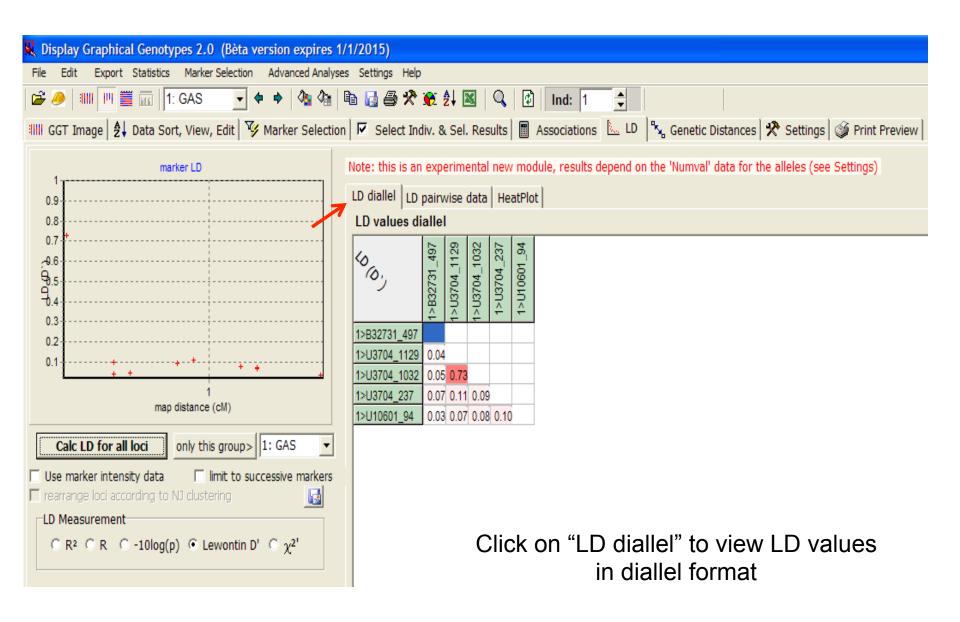


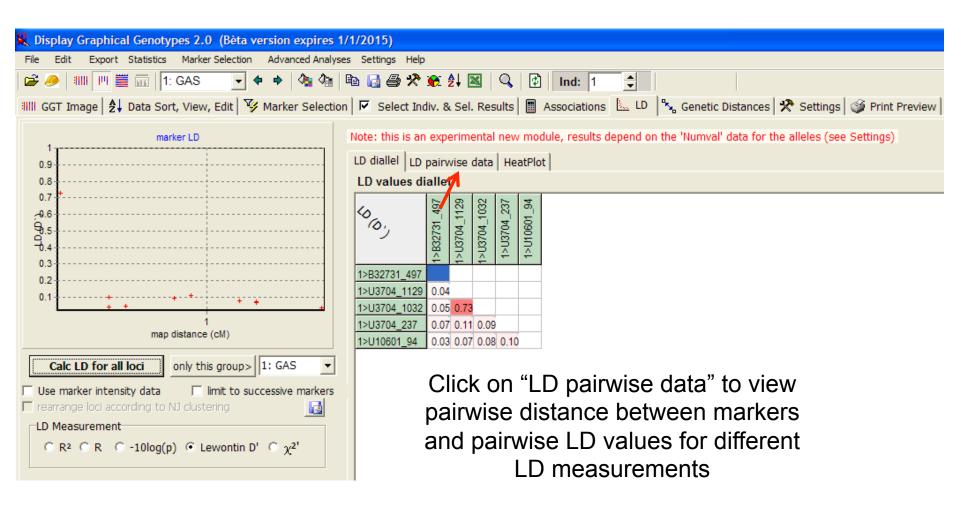


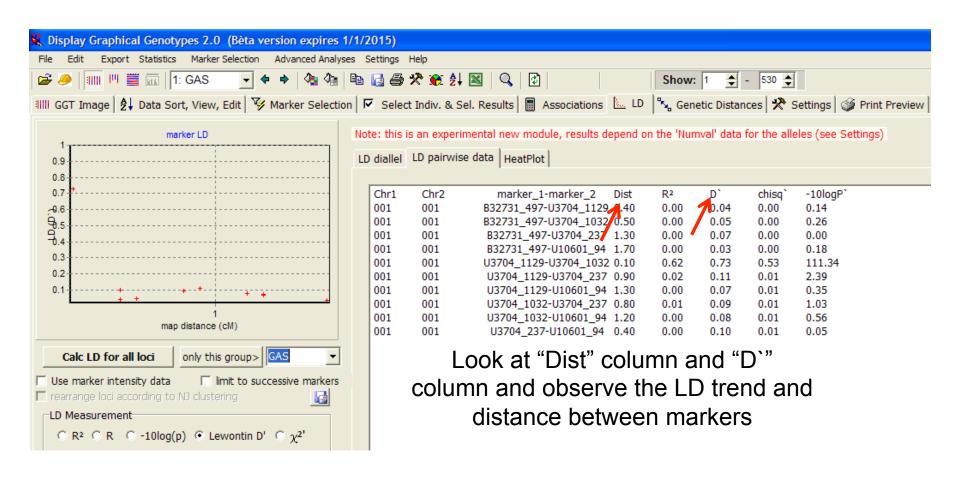
Calculation of LD

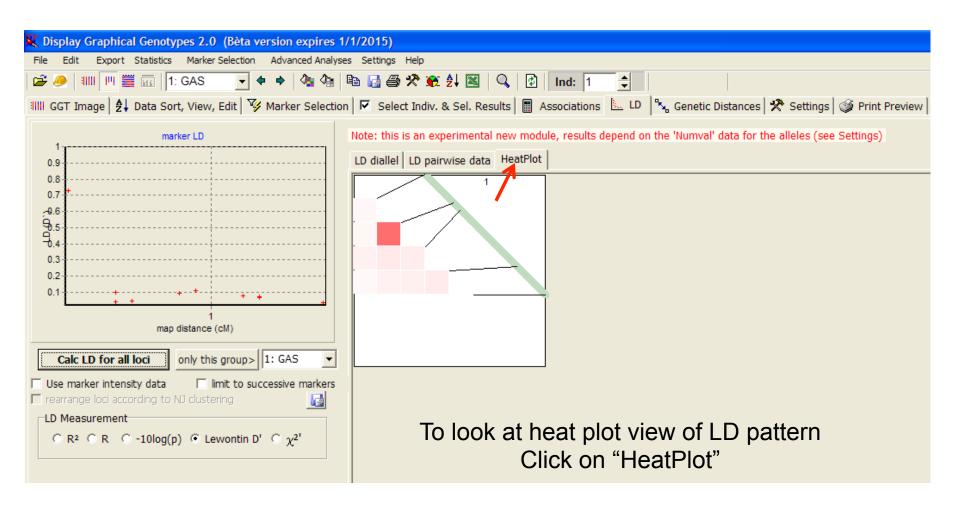








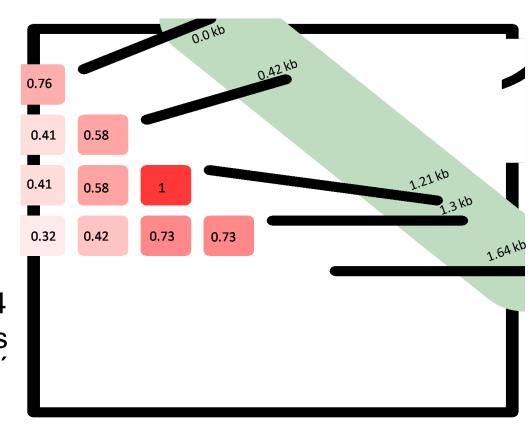




Summary of the results

Marker_1-Marker_2	Dist	R ²	D'
M1-M2	0.42	0.4	0.76
M1-M3	1.21	0.17	0.41
M1-M4	1.3	0.17	0.41
M1-M5	1.64	0.1	0.32
M2-M3	0.78	0.45	0.58
M2-M4	0.88	0.46	0.58
M2-M5	1.21	0.29	0.42
M3-M4	0.1	1	1
M3-M5	<mark>0.43</mark>	0.6	0.73
M4-M5	0.33	0.59	0.73

LD between the 5 SNPs in 1.64 kb region of a gene. The values in colored squares represent D´ between SNP pairs.



Reference:

van Berloo R. 2008. GGT 2.0: versatile software for visualization and analysis of genetic data. *J. Hered.* 99:232–236