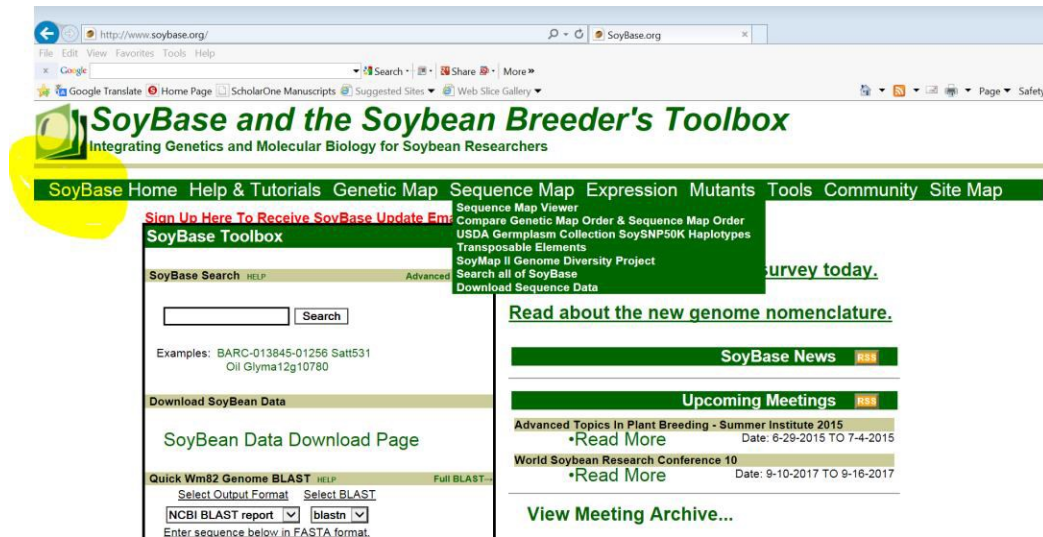**S1 Fig. Steps to retrieve genetic SNP marker data from SoyBase (www.soybase.org) for the 332 genotypes evaluated.**

1.   SoySNP50K iSelect SNP BeadChip data across 16,652 G.max and G.soja accessions genotypes with 54,041 SNPs is freely available from Soybase (www.soybase.org). Go to Soybase (www.soybase.org) home page and move the cursor over Soybase (highlighted in yellow as below)

2. In the drop down menu, select the second choice:
      "Download Sequence and Genetic Data"

3. In the new pop-up window scroll to bottom where it says "Download SoySNP50K data"

4. First option is to download the complete data set of 19, 652 G.max and G. soja accessions genotyped with 52, 041 SNPs.

5. Second option is to download the user-selected subset of accessions (for eg. 332 genotypes)