**Exam (take-home) Mid-term, spring 2017 for ABPG and BRIM students.**

*Distribution of Chromosomes for analyses among students*

Jessica Torres Chr 2

Rachael Wasikowski Chr 3

Mohammad Mobayed Chr 4

Joseph Basalla Chr 5

Maryam Hosseini Chr 6

Michelle Neudeck Chr 7

Ammar Eljack Chr 8 and 9

Daniel Craig Chr 10 and 11

Caroline Lambert Chr 12 and 13

Rose Zolondek Chr 14, 15, and 16

Jenna Mcgowan Chr 17, 18 ,and 19

Cole White Chr 20, 21, and 22

TASK:

1. Open Excel VCF table for indels (file: INDELtableExamMidterm)
2. For each indel (each row) for the chromosome assigned to you, study this mutation using IGV program. Upon this visual examination fill five columns (P-T) according to the examples for Chromosome 1 at the top of this file. Before starting this work carefully watch two short videos with instructions (file: linkEXAM2017\_Feb27.docx).
3. REMEMBER: our goal is to help real family to find mutation(s) that cause blindness. Therefore, perform this task extremely carefully. If you do not understand or cannot interpret properly your results put it in the last column (NOTEs) and mark this row with red highlight. DO NOT PUT YOUR RANDOM GUESS if you are not 100% sure.

EXTRA ASSIGNMENT (OPTIONAL) for those students who want to improve their grades.

Repeat the same task for SNP file: SNPtableExamMidterm

REMEMBER: SNPs do not cause frame shift. Instead they should be categorized by one of the following groups: nonsense, missense, synonymous, or splicing junction (within one or two nucleotides at the exon or intron termini)