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| **Figure 2: Mutation Rates of Different RV Genes**  Error bars denotes 95% highest posterior density (HPD) intervals. Between species, RVB (1.50E-02 substitutions/site/year) had the highest average mutation rate as compared to RVA (1.76E-03 substitutions/site/year) and RVC (3.15E-03 substitutions/site/year). This can be attributed to high mutation rates in the RVB genes for NSP1, NSP4, NSP5, VP2 and VP3. Between proteins, the average mutation rate of NSP genes (9.98E-03 substitutions/site/year) was higher than but on the same order of magnitude as that of VP genes (3.83E-03 substitutions/site/year). Across NSP genes, genes for NSP1 (1.79E-02 substitutions/site/year) and NSP4 (2.07E-02 substitutions/site/year) had the highest average mutations rates while the gene for NSP2 had the lowest average mutation rate (1.02E-03 substitutions/site/year). For the VP genes, the gene for VP3 had the highest average mutation rate (1.07E-02 substitutions/site/year), while genes for VP1 (1.57E-03 substitutions/site/year) and VP6 (1.94E-03 substitutions/site/year) had the lowest average mutation rates. |