

For testing H_{0A} versus H_{0A} (A fixed, B random), the test statistic value is

 $f_A = \text{MSA/MSAB}$, and the rejection region is $f_A \ge F_{\alpha,I-1,(I-1)(J-1)}$. The test of H_{0B} versus H_{aB} utilizes $f_B = \text{MSB/MSAB}$, with rejection region

 $f_B \ge F_{\alpha, J-1, (I-1)(J-1)}.$