Chi-Square Calculator

Success! The contingency table below provides the following information: the observed cell totals, (the expected cell totals) and [the chi-square statistic for each cell].

The chi-square statistic, *p*-value and statement of significance appear beneath the table. Blue means you're dealing with dependent variables; red, independent.

You'll notice we've also calculated a chi-square statistic with the popular Yates correction. There's probably a consensus now that the correction is over-cautious in its desire to avoid a type 1 error, but the statistic is there if you want to use it.

Want to know how to report the result of your chi-square test (APA style)? (Opens in a new tab so you don't lose your result.)

How to Report a Chi-Square Result

	mutated	**wildtype**	***Marginal Row Totals***
hsc-myeloid	6 (1.5) [13.5]	8 (12.5) [1.62]	14
b-t-nk	6 (10.5) [1.93]	92 (87.5) [0.23]	98
Marginal Column Totals	12	100	112 (Grand Total)

The chi-square statistic is 17.28. The *p*-value is .000032. Significant at $p < .05$.

The chi-square statistic with Yates correction is 13.6533. The *p*-value is .00022. Significant at $p < .05$.