

Corn Genetics Lab

Last names:

Hour

First name:

In this exercise, you will examine an ear of corn and determine the type of cross and genes responsible for the coloration (purple = P, yellow = p; Smooth = R, wrinkled = r) and/or texture of the corn kernels like the one show below.

- FOR PR, you only need to do two kernel phenotypes; either purple/yellow or smooth/wrinkled
- FOR AD, there are four grain phenotypes in the ear; purple/smooth, purple/shrunken, yellow/smooth, yellow/shrunken

Count the number of each phenotype in at least five of the rows on your ear of corn and record the totals on the appropriate section of the chart. This is the OBSERVED DATA.

	Number of kernels	Kernel percentage		Number of kernels	Kernel percentage		Number of kernels	Kernel percentage
Purple			Smooth			Purple/smooth		
Yellow			Wrinkled			Purple/wrinkled		
						Yellow/smooth		
Total			Total			Yellow/wrinkled		
						Total		

For this lab, you will be **PREDICTING** the genotypes of the parents and doing a statistical test to determine if the data fits the prediction. Using these kind of statistical analyses is a way to say more about your data than just "we support our conclusion" or "we reject our hypothesis". In this case, we will assume that the parent genotypes are heterozygous. On a scrap piece of paper do a Punnett square for the parents of your ear of corn and write the phenotype ratio in the space below.

Use the ratios from above and the total number of kernels that you counted in the table above determine your EXPECTED number of kernels.

Now, find your Chi-square value by filling in the table below.

Phenotypes	Observed (O)	Expected (E)	O – E	(O – E) ²	(O – E) ² / E
				TOTAL (Chi-square value)	

Determine the "degrees of freedom" of your data, which is the number of possible phenotypes minus one.

How many degrees of freedom does your test have?

What is your Chi-square value?

Determine the closest p (probability) value associated with your chi-square and degrees of freedom, this will tell you whether to accept or reject your null hypothesis. A null hypothesis stating "any difference between the observed and expected values is just due to chance" is always used for this test and p values above 0.05 will accept the null hypothesis. For example, an experiment with 5 degrees of freedom and a Chi-square value of 5.2 would have a p between 0.25 and 0.5. This means that there is between a 25% and 50% probability that any deviation from expected results is due to chance only. Biologists normally use a p of 0.05 as the cutoff for accepting or rejecting a null hypothesis; above a 0.05 means that the null hypothesis is accepted, below means that the null hypothesis is rejected.

Corn Genetics Lab Report

**Iowa State University. Statistical
Laboratory**



Corn Genetics Lab Report:

U.S. Government Research & Development Reports ,1970 **U.S. Government Research & Development Reports** ,1970 *Report on the Work and Expenditures of the Agricultural Experiment Stations* ,1920 **Report on the Agricultural Experiment Stations** ,1920 *Special Report* ,1984 **Nuclear Science Abstracts** ,1968-05 **Report on the Agricultural Experiment Stations** United States. Agricultural Research Service,1924 **Chinese Journal of Genetics** ,1993 Annual Report National Research Council of Canada,1927 *Annual Report* National Research Council Canada,1918 **Report** National Research Council of Canada,1918 **Bibliography of Scientific and Industrial Reports** ,1971 *Biological & Agricultural Index* ,1923 Report of the President and Financial Statement of the Honorary Advisory Council for Scientific and Industrial Research for the Year Ending March 31 ... Canada. Honorary Advisory Council for Scientific and Industrial Research,1927 Report Iowa. State Board of Regents,1928 **Government Reports Announcements** ,1973 Report of the Director ... Including Bulletins ... Kansas Agricultural Experiment Station,1928 Annual Report - Iowa State University, Statistical Laboratory Iowa State University. Statistical Laboratory,1952 Report of the President and Financial Statement - National Research Council National Research Council Canada,1928 *Acronyms Dictionary* Gale Research Company,1960

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Table of Contents Corn Genetics Lab Report

1. Understanding the eBook Corn Genetics Lab Report
 - The Rise of Digital Reading Corn Genetics Lab Report
 - Advantages of eBooks Over Traditional Books
2. Identifying Corn Genetics Lab Report
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Corn Genetics Lab Report
 - User-Friendly Interface
4. Exploring eBook Recommendations from Corn Genetics Lab Report
 - Personalized Recommendations
 - Corn Genetics Lab Report User Reviews and Ratings
 - Corn Genetics Lab Report and Bestseller Lists
5. Accessing Corn Genetics Lab Report Free and Paid eBooks
 - Corn Genetics Lab Report Public Domain eBooks
 - Corn Genetics Lab Report eBook Subscription Services
 - Corn Genetics Lab Report Budget-Friendly Options
6. Navigating Corn Genetics Lab Report eBook Formats

- ePub, PDF, MOBI, and More
- Corn Genetics Lab Report Compatibility with Devices
- Corn Genetics Lab Report Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Corn Genetics Lab Report
 - Highlighting and Note-Taking Corn Genetics Lab Report
 - Interactive Elements Corn Genetics Lab Report
- 8. Staying Engaged with Corn Genetics Lab Report
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Corn Genetics Lab Report
- 9. Balancing eBooks and Physical Books Corn Genetics Lab Report
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Corn Genetics Lab Report
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Corn Genetics Lab Report
 - Setting Reading Goals Corn Genetics Lab Report
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Corn Genetics Lab Report
 - Fact-Checking eBook Content of Corn Genetics Lab Report
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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