

M3: Post task (Case Study): To the Bitter End: A Case Examining the Genetics of PTC Sensitivity

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To the Bitter End: A Case Examining the Genetics of PTC Sensitivity

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Part II – Mendelian Genetics

After obtaining some PTC from Arthur Fox, L.H. Snyder determined the PTC phenotype (can taste or cannot taste) for the members of 100 nuclear families. He first verified that gender was not a factor by comparing the number of male tasters and non-tasters to the number of female tasters and non-tasters. Because there was essentially no difference between sexes, Snyder grouped families by the phenotypes of the parents, disregarding the gender of each parent, and tabulated his data (Snyder, 2015a).

Parent-Phenotype Combinations	No. of families	Phenotypes of Children	
		Can taste	Cannot taste
Both parents can taste	40	90	16
One parent can taste, the other cannot	51	80	37
Neither parent can taste	9	0	17

Reference:

Snyder, L. H. 2015a. Inherited taste deficiency. *Science* 74: 151–152.

https://sciencecases.lib.buffalo.edu/files/ptc_sensitivity.pdf

M3 post task - CASE STUDY

1. What kind of evidence would indicate that the ability to taste PTC is inherited?

Right To The Bitter End

KJ Lindholm-Leary



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Table of Contents Right To The Bitter End

1. Understanding the eBook Right To The Bitter End
 - The Rise of Digital Reading Right To The Bitter End
 - Advantages of eBooks Over Traditional Books
2. Identifying Right To The Bitter End
 - 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 Right To The Bitter End
 - User-Friendly Interface
4. Exploring eBook Recommendations from Right To The Bitter End
 - Personalized Recommendations
 - Right To The Bitter End User Reviews and Ratings
 - Right To The Bitter End and Bestseller Lists
5. Accessing Right To The Bitter End Free and Paid eBooks
 - Right To The Bitter End Public Domain eBooks
 - Right To The Bitter End eBook Subscription Services
 - Right To The Bitter End Budget-Friendly Options

6. Navigating Right To The Bitter End eBook Formats
 - ePub, PDF, MOBI, and More
 - Right To The Bitter End Compatibility with Devices
 - Right To The Bitter End Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Right To The Bitter End
 - Highlighting and Note-Taking Right To The Bitter End
 - Interactive Elements Right To The Bitter End
8. Staying Engaged with Right To The Bitter End
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Right To The Bitter End
9. Balancing eBooks and Physical Books Right To The Bitter End
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Right To The Bitter End
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Right To The Bitter End
 - Setting Reading Goals Right To The Bitter End
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Right To The Bitter End
 - Fact-Checking eBook Content of Right To The Bitter End
 - 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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