

## A GMO IS:

the direct human manipulation of an organism's DNA in a laboratory environment.

# GMO?

Genetically Modified Organism

## A GMO IS NOT:

Plants and animals that are traditionally bred to achieve specific characteristics such as breeding dogs or cross-pollination of plants.



## SCIENCE OF GMOS

Genetic modification may include the **ADDITION OF DNA** from species that would **NOT BREED** in nature.

Genetic modification may also involve **REMOVING SPECIFIC STRANDS OF DNA**

Cross-species—or transgenic—genetic manipulation has gone so far as to **COMBINE FISH DNA WITH STRAWBERRIES** and tomatoes.



GMO foods have only existed in groceries since the late 1990's.

GMOs can be **patented**

GMO varieties of corn and potatoes are engineered to **PRODUCE THEIR OWN PESTICIDES**.

## STUDIES OF GMOS

### NO LONG-TERM TESTING.

It took decades for the dangers of Trans-Fats (another artificial food) to become understood.

Rice fed GM pesticide-producing corn over four generations showed **ABNORMAL** structural and chemical changes to various organs and significantly reduced fertility.



Herbicide-resistant crops can cross-pollinate to create **HERBICIDE-RESISTANT WEEDS**.

Pesticide-producing GMO crops have led to **RESISTANCE IN PESTS**



Transgenic DNA has been found in **80% OF WILD CEREALS IN NORTH AMERICA**

<http://www.foxnews.com/story/0,2933,281111,000000,00-DNA-FOUND-WILD-CEREALS-NORTH-AMERICA-80-GENETICALLY-MODIFIED-CORN-PLANT-2011-08-01>

## PREVALENCE OF GMOS

You probably eat GMOs **EVERY DAY**.



# 30,000

(different GMOs exist in grocery store shelves (largely because of how many processed foods contain soy))

PERCENT OF GMOS IN TOTAL CROP PRODUCTION 2011 (USA)



## PUBLIC OPINION OF GMOS

Polls consistently show that a significant majority of North Americans would **LIKE TO BE ABLE TO TELL** if the food they're purchasing contains GMOs.

OUT OF A CBS NEWS POLL:



**87% want GMOs labeled**



**53% would not buy genetically modified food**

NATIONAL OPINIONS OF GMOS:

The USA is the **largest producer of GMO crops** and **does not mandate labels** for GMO food.

In 30 other countries there are bans or restrictions on the production of GMOs, because they are **not considered proven safe**.

<http://www.foxnews.com/story/0,2933,281111,000000,00-DNA-FOUND-WILD-CEREALS-NORTH-AMERICA-80-GENETICALLY-MODIFIED-CORN-PLANT-2011-08-01>

# Gmo Health Benefits Of Genetically Modified Organisms

**SA Adler**



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## **Table of Contents Gmo Health Benefits Of Genetically Modified Organisms**

1. Understanding the eBook Gmo Health Benefits Of Genetically Modified Organisms
  - The Rise of Digital Reading Gmo Health Benefits Of Genetically Modified Organisms
  - Advantages of eBooks Over Traditional Books
2. Identifying Gmo Health Benefits Of Genetically Modified Organisms
  - 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 Gmo Health Benefits Of Genetically Modified Organisms
  - User-Friendly Interface
4. Exploring eBook Recommendations from Gmo Health Benefits Of Genetically Modified Organisms
  - Personalized Recommendations
  - Gmo Health Benefits Of Genetically Modified Organisms User Reviews and Ratings

- Gmo Health Benefits Of Genetically Modified Organisms and Bestseller Lists
- 5. Accessing Gmo Health Benefits Of Genetically Modified Organisms Free and Paid eBooks
  - Gmo Health Benefits Of Genetically Modified Organisms Public Domain eBooks
  - Gmo Health Benefits Of Genetically Modified Organisms eBook Subscription Services
  - Gmo Health Benefits Of Genetically Modified Organisms Budget-Friendly Options
- 6. Navigating Gmo Health Benefits Of Genetically Modified Organisms eBook Formats
  - ePub, PDF, MOBI, and More
  - Gmo Health Benefits Of Genetically Modified Organisms Compatibility with Devices
  - Gmo Health Benefits Of Genetically Modified Organisms Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Gmo Health Benefits Of Genetically Modified Organisms
  - Highlighting and Note-Taking Gmo Health Benefits Of Genetically Modified Organisms
  - Interactive Elements Gmo Health Benefits Of Genetically Modified Organisms
- 8. Staying Engaged with Gmo Health Benefits Of Genetically Modified Organisms
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Gmo Health Benefits Of Genetically Modified Organisms
- 9. Balancing eBooks and Physical Books Gmo Health Benefits Of Genetically Modified Organisms
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Gmo Health Benefits Of Genetically Modified Organisms
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Gmo Health Benefits Of Genetically Modified Organisms
  - Setting Reading Goals Gmo Health Benefits Of Genetically Modified Organisms
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gmo Health Benefits Of Genetically Modified Organisms
  - Fact-Checking eBook Content of Gmo Health Benefits Of Genetically Modified Organisms
  - 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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for each of the following. 1. NO<sub>3</sub>. 1-. 2. CH<sub>4</sub>. Skill Practice 26 Skill Practice 26. Name: Date: Hour: \_\_\_\_\_. 1. What does it mean to say that a bond is polar? One of the atoms ... Skill Practice 16 - Atomic Size Skill Practice 16. Atomic Size. Practice. Name: KEY. Date: Hour: 1. What force of attraction does the second energy level of a phosphorus atom "feel" from the ... Skill Practice 13 Obtain permission for classroom use at [www.ChemistryInquiry.com](http://www.ChemistryInquiry.com). Skill Practice 13. Name: Date: Hour: \_\_\_\_\_. 1 ... Sample Guided Inquiry Chemistry Lessons Please evaluate all of the materials for the unit. You will find ChemQuests, Skill Practice assignments, review sheets, video explanations, and labs. To ... Skill Practice 9 Skill Practice 9. Practice Problems. Name: Average Atomic Mass. Date: Period: \_\_\_\_\_. A certain element exists as ... Skill Practice 14 (ANSWER KEY) Skill Practice 14 (ANSWER KEY). Lewis Practice. Name: Date: Hour: \_\_\_\_\_. How many valence electrons does each of ... Skill Practice 30-33 answers.doc View Homework Help - Skill Practice 30-33 answers.doc from CHEM 202 at Simon Fraser University. Skill Practice 30 Name: \_ Date: \_ Hour: \_ 1.