

# as a science project you drop a watermelon

**\*\*The Science Behind Dropping a Watermelon: A Fun and Educational Project\*\***

**as a science project you drop a watermelon**, you might initially think it's just a fun way to see a big fruit splatter on the ground. However, this simple experiment can open doors to understanding important scientific concepts like gravity, impact force, energy transfer, and material properties. Whether you are a student looking for a hands-on project or a teacher aiming to engage your class, dropping a watermelon offers a fascinating way to explore physics in action.

## Why Dropping a Watermelon Makes a Great Science Project

At first glance, dropping a watermelon might seem like a straightforward stunt, but it actually combines several key principles of physics. The size and mass of a watermelon make it an ideal object to observe how potential energy converts to kinetic energy during a fall, and how that energy is dissipated upon impact.

By conducting this experiment, students can learn about:

- **\*\*Gravity and acceleration\*\***: How objects accelerate towards the Earth at a constant rate.
- **\*\*Impact forces\*\***: The forces involved when an object hits a surface.
- **\*\*Energy transformation\*\***: Conversion of potential energy into kinetic energy, and finally into sound, heat, and deformation energy.
- **\*\*Material strength\*\***: How the watermelon's rind and flesh respond to sudden forces.

This project is both visual and practical, making it memorable and informative.

## The Science of Dropping a Watermelon

### Understanding Gravity and Free Fall

When you drop a watermelon from a height, it accelerates downwards due to Earth's gravity at approximately 9.8 meters per second squared ( $m/s^2$ ). This means the watermelon's velocity increases as it falls, gaining kinetic energy. The higher you drop it from, the more kinetic energy it has just before impact.

This relationship between height and impact speed can be described by the equation:

$$v = \sqrt{2gh}$$

where  $v$  is the velocity,  $g$  is acceleration due to gravity, and  $h$  is the height. This formula helps

predict how fast the watermelon will be moving when it hits the ground.

## Energy Conversion Upon Impact

Before the drop, the watermelon stores potential energy based on its height:

$$PE = mgh$$

where  $m$  is the mass of the watermelon. When it falls, this potential energy converts to kinetic energy, which is then transferred into breaking the watermelon's structure upon impact.

The cracking and splattering you see are evidence of the watermelon's rind and internal flesh absorbing and dissipating energy. Some energy is lost as sound (the splat), some as heat, and some goes into deforming the fruit.

## Force of Impact and Material Strength

The force exerted on the watermelon when it hits the ground depends on the change in momentum and the time over which the impact occurs. The shorter the contact time, the greater the force. This explains why a watermelon dropped on a hard concrete floor shatters more dramatically compared to dropping it on a soft surface like grass.

Studying how different surfaces affect the watermelon's breakage can be a valuable extension of the project, teaching about material properties and force absorption.

## How to Set Up the Watermelon Drop Experiment

Conducting this science project requires some planning to get meaningful and safe results.

### Materials Needed

- A ripe watermelon
- A measuring tape or ruler
- A sturdy platform or ladder to drop the watermelon from different heights
- Various surfaces (concrete, grass, sand) for impact testing
- Safety goggles and gloves (for protection)
- A notebook for observations and data recording
- A camera or smartphone to record the drop in slow motion (optional but useful)

### Step-by-Step Procedure

1. **Measure the height** from which you will drop the watermelon. Start with a low height, such as 1 meter, and increase gradually.
2. **Choose the surface** on which the watermelon will land.
3. **Wear safety gear** to protect yourself from flying debris.
4. **Drop the watermelon** carefully and observe what happens upon impact.
5. **Record observations** including whether the watermelon cracked, how much it splattered, and the sound produced.
6. **Repeat the drop** from different heights and surfaces to compare results.
7. Optionally, **film the drop** in slow motion to analyze the impact more closely.

## What You Can Learn From Dropping a Watermelon

### Real-World Physics Applications

This project doesn't just teach theory—it connects to real-world physics. Understanding impact forces is crucial in areas like vehicle safety design, packaging, and sports equipment manufacturing. For example, engineers use similar principles when designing car bumpers or helmets to absorb energy and minimize damage.

### Data Collection and Analysis Skills

By measuring heights, timing falls, and observing outcomes, students practice collecting quantitative and qualitative data. Analyzing patterns—like how increasing drop height leads to more severe breakage—builds critical thinking and scientific reasoning abilities.

### Exploring Variables and Experiment Design

You can extend the project by introducing variables such as:

- Watermelon ripeness (does a riper watermelon break differently?)
- Surface texture and material
- Protective padding around the watermelon (to simulate packaging)

This encourages hypothesis formation and testing, which are core parts of the scientific method.

### Tips for a Safe and Successful Watermelon Drop

Dropping a watermelon can get messy and potentially hazardous if not managed carefully. Here are some tips to ensure safety and maximize learning:

- Perform the drop outdoors or in an area that's easy to clean.

- Wear protective eyewear to guard against flying juice and rind shards.
- Keep bystanders at a safe distance.
- Use a stable platform to avoid falls or accidents.
- Dispose of watermelon remains responsibly or compost them.
- Use slow-motion video to capture details that might be missed by the naked eye.

## **Making the Watermelon Drop Project More Engaging**

To turn this experiment into a captivating science fair project or classroom activity, consider adding creative elements:

- **Graph your results** showing the relationship between drop height and damage severity.
- **Compare different fruits** to see how watermelons differ from apples or pumpkins when dropped.
- **Use sensors or accelerometers** to measure impact forces quantitatively.
- **Involve art** by photographing the splatter patterns and turning them into abstract art pieces.

These additions make the experiment multidisciplinary and more enjoyable.

As you dive into this fun and educational experiment, remember that dropping a watermelon is more than just a messy spectacle—it's a vivid demonstration of fundamental physics. This simple project can spark curiosity and deepen understanding of the forces that shape our everyday world. So next time you're looking for a science project with a splash, dropping a watermelon might just be the perfect choice.

## **Frequently Asked Questions**

### **What scientific principles can be studied by dropping a watermelon in a science project?**

Dropping a watermelon allows the study of gravity, acceleration, impact force, energy transfer, and material strength.

### **How can you measure the impact force when a watermelon is dropped?**

You can estimate impact force by measuring the drop height, calculating the velocity upon impact, and using sensors like force plates to record the force exerted during the collision.

### **Why does a watermelon break when dropped from a certain height?**

A watermelon breaks because the impact force exceeds its structural strength, causing the outer rind and internal flesh to fracture due to sudden deceleration and stress.

## **How does the height from which the watermelon is dropped affect the outcome?**

The higher the drop height, the greater the velocity and kinetic energy at impact, increasing the likelihood and severity of the watermelon breaking.

## **Can the surface on which the watermelon lands affect the results of the drop test?**

Yes, a hard surface causes a more abrupt stop, increasing impact force and damage, while a softer surface absorbs more energy, reducing damage.

## **What safety precautions should be taken when dropping a watermelon for a science project?**

Safety precautions include wearing protective eyewear, conducting the experiment in an open area away from people, and cleaning up debris promptly to avoid slips or injuries.

## **How can you use a watermelon drop experiment to explain energy transformation?**

The experiment demonstrates the transformation of potential energy (due to height) into kinetic energy during the fall, which then converts into mechanical energy causing the watermelon to break upon impact.

## **What variables can be controlled or changed in a watermelon drop experiment?**

Variables include drop height, surface type, watermelon size and ripeness, and whether the watermelon is whole or pre-scored, to study their effects on the damage caused.

## **Additional Resources**

**\*\*The Physics and Fascination Behind Dropping a Watermelon: A Science Project Exploration\*\***

**as a science project you drop a watermelon**, the undertaking might initially seem straightforward: a simple act of releasing a fruit from a height to observe its fall and impact. However, this experiment offers a rich opportunity to explore fundamental concepts of physics, materials science, and even engineering principles. By examining what happens when a watermelon is dropped, students and enthusiasts can delve into the mechanics of gravity, force, energy transfer, and fracture dynamics, making it a compelling and visually engaging science project.

# Understanding the Objectives of Dropping a Watermelon

The core purpose behind choosing a watermelon for this experiment is its unique physical properties. Watermelons have a relatively large mass, a thick outer rind, and a juicy interior. These characteristics make it an excellent specimen for studying impact forces and material resistance. When dropped from a height, the watermelon's response to the collision with the ground can reveal much about how different materials absorb and dissipate energy.

In a typical classroom setting or science fair, dropping a watermelon can be used to:

- Demonstrate gravitational acceleration and terminal velocity
- Analyze the impact force exerted on the fruit upon collision
- Explore structural integrity and fracture mechanics
- Compare the effects of different drop heights or surfaces

Each of these objectives can be expanded into detailed investigations, providing a multi-faceted learning experience.

## Physics Principles at Play

When a watermelon is released from a certain height, it accelerates due to gravity at approximately 9.81 meters per second squared ( $m/s^2$ ). The velocity it attains just before impact depends on the height from which it is dropped, which can be calculated using kinematic equations. For instance, dropping a watermelon from 3 meters results in a velocity of about 7.67 m/s at impact, assuming negligible air resistance.

The kinetic energy (KE) at the moment of impact is a crucial factor in determining the extent of damage to the watermelon's structure. This energy is given by the formula:

$$KE = \frac{1}{2} mv^2$$

where  $m$  is mass and  $v$  is velocity. Given that a typical watermelon weighs around 5 kg, the energy transferred upon impact can be substantial, enough to cause the rind to crack and the fruit to burst open.

## Material Response and Fracture Analysis

A watermelon's rind acts as a natural protective barrier that absorbs and distributes impact forces. Its toughness and elasticity determine whether the watermelon will survive the fall intact or shatter upon hitting the ground. The fracture behavior depends on several factors:

- Thickness and composition of the rind
- Internal pressure and juiciness
- Surface hardness of the impact area

- Drop height and resulting impact velocity

By observing the damage patterns, students can infer the stress distribution and failure points in the watermelon's structure. This connects well with studies in material science, particularly in understanding how composite materials behave under stress.

## Experimental Setup and Variables

To conduct the experiment systematically, certain parameters need to be controlled and measured:

1. **Height of Drop:** Varying the height allows observation of how impact energy changes with velocity.
2. **Surface Type:** Dropping the watermelon on different surfaces such as concrete, grass, or foam alters the force of impact due to varying degrees of energy absorption.
3. **Watermelon Size and Ripeness:** Larger or riper fruits might have different structural integrity affecting the results.
4. **Protective Measures:** Adding cushioning materials like bubble wrap or foam layers can demonstrate principles of impact mitigation.

Collecting data such as the extent of cracking, mass loss from juice spillage, and time taken for the watermelon to break apart enriches the analysis and can be quantified for deeper understanding.

## Educational Value and Practical Applications

Aside from the sheer visual appeal, dropping a watermelon serves as a tangible demonstration of several scientific concepts that are often abstract in textbooks. It can be used to introduce topics like:

- Newton's laws of motion
- Energy conservation and transformation
- Material toughness and failure modes
- Experimental design and data analysis

Moreover, this experiment can be a gateway to more advanced studies in protective packaging design, where understanding how materials absorb impact is crucial. Engineers often look to nature for inspiration, and the watermelon's rind provides a natural example of impact resistance worth studying.

# Pros and Cons of Using a Watermelon in Science Projects

- **Pros:**

- Readily available and inexpensive
- Clear visual feedback on impact outcomes
- Engaging and memorable for students
- Connects physics with real-world materials

- **Cons:**

- Messy cleanup required due to juice and fragments
- Limited repeatability due to destruction of the sample
- Potential safety concerns with large falling objects

Balancing these factors is important for educators planning such experiments to ensure both safety and educational value.

## Enhancing the Project With Technology

Incorporating technology can elevate the analysis of dropping a watermelon from a simple demonstration to a rigorous scientific study. For example, high-speed cameras can capture the moment of impact in slow motion, revealing fracture propagation and deformation patterns. Force sensors placed beneath the impact surface can measure peak forces exerted during collision.

Data logging tools and software allow students to plot velocity, energy dissipation, and damage metrics against drop height or surface type. This quantitative approach enhances critical thinking and data interpretation skills.

## Comparison With Other Fruits and Objects

To contextualize findings, comparing the watermelon drop experiment with similar drops of other fruits like apples, pumpkins, or cantaloupes can be insightful. Differences in rind thickness, mass, and internal structure affect their response to impact.



For instance:

- Apples, with a hard skin but smaller size, may bruise rather than shatter.
- Pumpkins, larger and heavier, may absorb more impact energy but crack differently.

Such comparative analysis broadens understanding of material properties and impact physics across various natural objects.

---

Engaging in a science project where you drop a watermelon unlocks a wealth of scientific inquiry beyond mere spectacle. It provides a practical, hands-on method to explore complex physical principles, materials science, and experimental methodology. Whether for a classroom demonstration or a more advanced investigation, the simple act of dropping a watermelon proves to be a surprisingly rich subject for scientific exploration.

## **As A Science Project You Drop A Watermelon**

Find other PDF articles:

<https://old.rga.ca/archive-th-086/Book?dataid=Lrw01-5542&title=psychology-william-and-mary.pdf>

**as a science project you drop a watermelon:** *Your Day, Your Way* Timothy Caulfield, 2020-12-01 Part pop-science, part self-help, *Your Day. Your Way.* is a friendly, funny, fact-based guide to changing how you make decisions in order to live a better -- maybe even your best -- life. We make, and worry about, a thousand big and little decisions during our waking hours. And for most of us, these decisions are made (after a lot of hemming and hawing), based on concerns or beliefs about our world that . . . well . . . simply aren't true. These misperceptions impact day-to-day decisions and stress us out unnecessarily -- and we all have enough stress as it is. Tim Caulfield seeks to provide the antidote to this analysis paralysis, teaching readers -- through sound science and silly stories -- that reevaluating their decision-making processes can lead to lives that are both more fulfilling and more exciting. *Your Day. Your Way.* unfolds like a typical day -- from the first buzz of the alarm clock all the way to bedtime. As the clock moves forward, Caulfield tackles topics associated with that particular time of day and addresses them through science-informed responses about health, offering readers a way to cut through the noise and have healthier and happier lives in the age of anxiety. Caulfield highlights what science says we should be worried about and how we can de-stress and live a healthy lifestyle. Rather than burying you in the facts, or listing out a bunch of specific things you should or should not be doing, Caulfield uses wit, humor, and a wide variety of examples to encourage readers to reevaluate how they make all of those decisions -- so that they can live in a way that truly works for them.

**as a science project you drop a watermelon:** *Explorations in Computing* John S. Conery, 2010-10-29 Based on the author's introductory course at the University of Oregon, *Explorations in Computing: An Introduction to Computer Science* focuses on the fundamental idea of computation and offers insight into how computation is used to solve a variety of interesting and important real-world problems. Taking an active learning approach, the text encourages students to explore computing ideas by running programs and testing them on different inputs. It also features illustrations by Phil Foglio, winner of the 2009 and 2010 Hugo Award for Best Graphic Novel.

Classroom-Tested Material The first four chapters introduce key concepts, such as algorithms and scalability, and hone practical lab skills for creating and using objects. In the remaining chapters, the author covers divide and conquer as a problem solving strategy, the role of data structures, issues related to encoding data, computer architecture, random numbers, challenges for natural language processing, computer simulation, and genetic algorithms. Through a series of interactive projects in each chapter, students can experiment with one or more algorithms that illustrate the main topic. Requiring no prior experience with programming, these projects show students how algorithms provide computational solutions to real-world problems. Web ResourceThe book's website at [www.cs.uoregon.edu/eic](http://www.cs.uoregon.edu/eic) presents numerous ancillaries. The lab manual offers step-by-step instructions for installing Ruby and the RubyLabs gem with Windows XP, Mac OS X, and Linux. The manual includes tips for editing programs and running commands in a terminal emulator. The site also provides online documentation of all the modules in the RubyLabs gem. Once the gem is installed, the documentation can be read locally by a web browser. After working through the in-depth examples in this textbook, students will gain a better overall understanding of what computer science is about and how computer scientists think about problems.

**as a science project you drop a watermelon:** Instructor , 1958

**as a science project you drop a watermelon:** **Cambridge Reading Adventures Pink A to Blue Bands Early Teaching and Assessment Guide** Sue Bodman, Glen Franklin, 2016-01-21 Our international primary reading series will help your learners become confident, independent readers.

**as a science project you drop a watermelon:** Consumers' Guide , 1938

**as a science project you drop a watermelon:** **The Saturday Evening Post** , 1946

**as a science project you drop a watermelon:** **Boys' Life** , 1929-09 Boys' Life is the official youth magazine for the Boy Scouts of America. Published since 1911, it contains a proven mix of news, nature, sports, history, fiction, science, comics, and Scouting.

**as a science project you drop a watermelon:** Forty Years of UCSD Perspective Joanne Gribble, 2000

**as a science project you drop a watermelon:** **Western Farm Life** , 1923

**as a science project you drop a watermelon:** What is a P-value Anyway? Andrew Vickers, 2010 What is a p-value Anyway? offers a fun introduction to the fundamental principles of statistics, presenting the essential concepts in thirty-four brief, enjoyable stories. Drawing on his experience as a medical researcher, Vickers blends insightful explanations and humor, with minimal math, to help readers understand and interpret the statistics they read every day. Describing data; Data distributions; Variation of study results: confidence intervals; Hypothesis testing; Regression and decision making; Some common statistical errors, and what they teach us For all readers interested in statistics.

**as a science project you drop a watermelon:** **Atkinson's Evening Post and Philadelphia Saturday News** , 1946-03

**as a science project you drop a watermelon:** **Public Opinion** , 1886

**as a science project you drop a watermelon:** Arizona Highways , 1955

**as a science project you drop a watermelon:** **Quill & Quire** , 1986

**as a science project you drop a watermelon:** **Public Opinion** , 1886

**as a science project you drop a watermelon:** Air & Space Smithsonian , 1989

**as a science project you drop a watermelon:** **Florida Highways** , 1951 Accompanied by Florida highways official detour bulletin, Feb. 1942-

**as a science project you drop a watermelon:** **The Guinness Book of Records** , 1994

**as a science project you drop a watermelon:** **The Herald** , 1940

**as a science project you drop a watermelon:** The Guinness Book of Records Michelle Dunkley McCarthy, Mark C. Young, 1992 Updates world and American records and reports new categories established during the year.

## Related to as a science project you drop a watermelon

**Science | AAAS** 6 days ago The strength of Science and its online journal sites rests with the strengths of its community of authors, who provide cutting-edge research, incisive scientific commentary, and

**Science Journal - AAAS** 5 days ago Science is a leading outlet for scientific news, commentary, and cutting-edge research. Through its print and online incarnations, Science reaches an estimated worldwide

**Contents | Science 389, 6767** 5 days ago Large language models are tweaked and tuned to accelerate research in materials science and chemistry

**NEWS FROM SCIENCE - AAAS** Authoritative, up-to-the-minute news and in-depth features on research advances and science policy, from award-winning science journalists

**Science Family of Journals | AAAS** 5 days ago The Open Access journal Research, published in association with CAST, publishes innovative, wide-ranging research in life sciences, physical sciences, engineering and applied

**Science's 2024 Breakthrough of the Year: Opening the door to a** But that's not the only reason Science has named lenacapavir its 2024 Breakthrough of the Year. The off-the-charts success of the drug as PrEP sprang from a basic

**Science of science | Science - AAAS** The science of science uses large-scale data on the production of science to search for universal and domain-specific patterns. Here, we review recent developments in this

**Exposure to sugar rationing in the first 1000 days of life - Science** Home Science Vol. 386, No. 6725 Exposure to sugar rationing in the first 1000 days of life protected against chronic disease

**Targeted MYC2 stabilization confers citrus Huanglongbing** This study was supported by grants from the National Natural Science Foundation of China (32125032), the China National Key Research and Development Program

**In vivo CAR T cell generation to treat cancer and autoimmune** We recently read with great interest the article by Theresa L. Hunter et al., titled "In Vivo CAR T Cell Generation to Treat Cancer and Autoimmune Disease," published in Science

**Science | AAAS** 6 days ago The strength of Science and its online journal sites rests with the strengths of its community of authors, who provide cutting-edge research, incisive scientific commentary, and

**Science Journal - AAAS** 5 days ago Science is a leading outlet for scientific news, commentary, and cutting-edge research. Through its print and online incarnations, Science reaches an estimated worldwide

**Contents | Science 389, 6767** 5 days ago Large language models are tweaked and tuned to accelerate research in materials science and chemistry

**NEWS FROM SCIENCE - AAAS** Authoritative, up-to-the-minute news and in-depth features on research advances and science policy, from award-winning science journalists

**Science Family of Journals | AAAS** 5 days ago The Open Access journal Research, published in association with CAST, publishes innovative, wide-ranging research in life sciences, physical sciences, engineering and applied

**Science's 2024 Breakthrough of the Year: Opening the door to a** But that's not the only reason Science has named lenacapavir its 2024 Breakthrough of the Year. The off-the-charts success of the drug as PrEP sprang from a basic

**Science of science | Science - AAAS** The science of science uses large-scale data on the production of science to search for universal and domain-specific patterns. Here, we review recent developments in this

**Exposure to sugar rationing in the first 1000 days of life - Science** Home Science Vol. 386, No. 6725 Exposure to sugar rationing in the first 1000 days of life protected against chronic disease

**Targeted MYC2 stabilization confers citrus Huanglongbing** This study was supported by

grants from the National Natural Science Foundation of China (32125032), the China National Key Research and Development Program

**In vivo CAR T cell generation to treat cancer and autoimmune** We recently read with great interest the article by Theresa L. Hunter et al., titled "In Vivo CAR T Cell Generation to Treat Cancer and Autoimmune Disease," published in Science

**Science | AAAS** 6 days ago The strength of Science and its online journal sites rests with the strengths of its community of authors, who provide cutting-edge research, incisive scientific commentary, and

**Science Journal - AAAS** 5 days ago Science is a leading outlet for scientific news, commentary, and cutting-edge research. Through its print and online incarnations, Science reaches an estimated worldwide

**Contents | Science 389, 6767** 5 days ago Large language models are tweaked and tuned to accelerate research in materials science and chemistry

**NEWS FROM SCIENCE - AAAS** Authoritative, up-to-the-minute news and in-depth features on research advances and science policy, from award-winning science journalists

**Science Family of Journals | AAAS** 5 days ago The Open Access journal Research, published in association with CAST, publishes innovative, wide-ranging research in life sciences, physical sciences, engineering and applied

**Science's 2024 Breakthrough of the Year: Opening the door to a** But that's not the only reason Science has named lenacapavir its 2024 Breakthrough of the Year. The off-the-charts success of the drug as PrEP sprang from a basic

**Science of science | Science - AAAS** The science of science uses large-scale data on the production of science to search for universal and domain-specific patterns. Here, we review recent developments in this

**Exposure to sugar rationing in the first 1000 days of life - Science** Home Science Vol. 386, No. 6725 Exposure to sugar rationing in the first 1000 days of life protected against chronic disease

**Targeted MYC2 stabilization confers citrus Huanglongbing** This study was supported by grants from the National Natural Science Foundation of China (32125032), the China National Key Research and Development Program

**In vivo CAR T cell generation to treat cancer and autoimmune** We recently read with great interest the article by Theresa L. Hunter et al., titled "In Vivo CAR T Cell Generation to Treat Cancer and Autoimmune Disease," published in Science

**Science | AAAS** 6 days ago The strength of Science and its online journal sites rests with the strengths of its community of authors, who provide cutting-edge research, incisive scientific commentary, and

**Science Journal - AAAS** 5 days ago Science is a leading outlet for scientific news, commentary, and cutting-edge research. Through its print and online incarnations, Science reaches an estimated worldwide

**Contents | Science 389, 6767** 5 days ago Large language models are tweaked and tuned to accelerate research in materials science and chemistry

**NEWS FROM SCIENCE - AAAS** Authoritative, up-to-the-minute news and in-depth features on research advances and science policy, from award-winning science journalists

**Science Family of Journals | AAAS** 5 days ago The Open Access journal Research, published in association with CAST, publishes innovative, wide-ranging research in life sciences, physical sciences, engineering and applied

**Science's 2024 Breakthrough of the Year: Opening the door to a** But that's not the only reason Science has named lenacapavir its 2024 Breakthrough of the Year. The off-the-charts success of the drug as PrEP sprang from a basic

**Science of science | Science - AAAS** The science of science uses large-scale data on the production of science to search for universal and domain-specific patterns. Here, we review recent developments in this

**Exposure to sugar rationing in the first 1000 days of life - Science** Home Science Vol. 386, No. 6725 Exposure to sugar rationing in the first 1000 days of life protected against chronic disease  
**Targeted MYC2 stabilization confers citrus Huanglongbing** This study was supported by grants from the National Natural Science Foundation of China (32125032), the China National Key Research and Development Program

**In vivo CAR T cell generation to treat cancer and autoimmune** We recently read with great interest the article by Theresa L. Hunter et al., titled "In Vivo CAR T Cell Generation to Treat Cancer and Autoimmune Disease," published in Science

**Science | AAAS** 6 days ago The strength of Science and its online journal sites rests with the strengths of its community of authors, who provide cutting-edge research, incisive scientific commentary, and

**Science Journal - AAAS** 5 days ago Science is a leading outlet for scientific news, commentary, and cutting-edge research. Through its print and online incarnations, Science reaches an estimated worldwide

**Contents | Science 389, 6767** 5 days ago Large language models are tweaked and tuned to accelerate research in materials science and chemistry

**NEWS FROM SCIENCE - AAAS** Authoritative, up-to-the-minute news and in-depth features on research advances and science policy, from award-winning science journalists

**Science Family of Journals | AAAS** 5 days ago The Open Access journal Research, published in association with CAST, publishes innovative, wide-ranging research in life sciences, physical sciences, engineering and applied

**Science's 2024 Breakthrough of the Year: Opening the door to a** But that's not the only reason Science has named lenacapavir its 2024 Breakthrough of the Year. The off-the-charts success of the drug as PrEP sprang from a basic

**Science of science | Science - AAAS** The science of science uses large-scale data on the production of science to search for universal and domain-specific patterns. Here, we review recent developments in this

**Exposure to sugar rationing in the first 1000 days of life - Science** Home Science Vol. 386, No. 6725 Exposure to sugar rationing in the first 1000 days of life protected against chronic disease  
**Targeted MYC2 stabilization confers citrus Huanglongbing** This study was supported by grants from the National Natural Science Foundation of China (32125032), the China National Key Research and Development Program

**In vivo CAR T cell generation to treat cancer and autoimmune** We recently read with great interest the article by Theresa L. Hunter et al., titled "In Vivo CAR T Cell Generation to Treat Cancer and Autoimmune Disease," published in Science

**Science | AAAS** 6 days ago The strength of Science and its online journal sites rests with the strengths of its community of authors, who provide cutting-edge research, incisive scientific commentary, and

**Science Journal - AAAS** 5 days ago Science is a leading outlet for scientific news, commentary, and cutting-edge research. Through its print and online incarnations, Science reaches an estimated worldwide

**Contents | Science 389, 6767** 5 days ago Large language models are tweaked and tuned to accelerate research in materials science and chemistry

**NEWS FROM SCIENCE - AAAS** Authoritative, up-to-the-minute news and in-depth features on research advances and science policy, from award-winning science journalists

**Science Family of Journals | AAAS** 5 days ago The Open Access journal Research, published in association with CAST, publishes innovative, wide-ranging research in life sciences, physical sciences, engineering and applied

**Science's 2024 Breakthrough of the Year: Opening the door to a** But that's not the only reason Science has named lenacapavir its 2024 Breakthrough of the Year. The off-the-charts success of the drug as PrEP sprang from a basic

**Science of science | Science - AAAS** The science of science uses large-scale data on the production of science to search for universal and domain-specific patterns. Here, we review recent developments in this

**Exposure to sugar rationing in the first 1000 days of life - Science** Home Science Vol. 386, No. 6725 Exposure to sugar rationing in the first 1000 days of life protected against chronic disease

**Targeted MYC2 stabilization confers citrus Huanglongbing** This study was supported by grants from the National Natural Science Foundation of China (32125032), the China National Key Research and Development Program

**In vivo CAR T cell generation to treat cancer and autoimmune** We recently read with great interest the article by Theresa L. Hunter et al., titled "In Vivo CAR T Cell Generation to Treat Cancer and Autoimmune Disease," published in Science

Back to Home: <https://old.rga.ca>