

# EVIDENCE FOR THE ENDOSYMBIOTIC THEORY

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**What are the three pieces of evidence for the endosymbiotic theory?** Evidence for the Theory of Endosymbiosis can be found in the DNA of mitochondria and chloroplasts, the way the organelles reproduce, and the internal structure and biochemistry of the organelles.

**How is endosymbiotic evidence for evolution?** 1: Endosymbiosis: Modern eukaryotic cells evolved from more primitive cells that engulfed bacteria with useful properties, such as energy production. Combined, the once-independent organisms flourished and evolved into a single organism.

**What evidence exists that supports the endosymbiotic theory Quizlet?** The endosymbiotic theory is based on mitochondria and chloroplasts of eukaryotes. Both structures have characteristics (such as their own DNA and the ability to self-replicate) of independent prokaryotes.

**Which discovery supported the endosymbiotic theory?** Answer and Explanation: The discovery of independent DNA (from the host) in mitochondria and chloroplasts supports the endosymbiotic theory. Mitochondria are able to grow and reproduce independently without needing help from the host's nucleus.

**What is the strongest evidence for the endosymbiotic origin?** Protein import is the strongest evidence we have for the single origin of chloroplasts and mitochondria. It is probably also the strongest evidence we have to sort out the number and nature of secondary endosymbiotic events that have occurred in evolution involving the red plastid lineage.

**Which is not one of the 4 evidences for endosymbiotic theory?** The chromosome similarity of organelles (mitochondria and chloroplast) does not support the endosymbiotic theory and having non-coding DNA.

**What is a modern day example of endosymbiosis?** Examples are nitrogen-fixing bacteria (called rhizobia), which live in the root nodules of legumes, single-cell algae inside reef-building corals, and bacterial endosymbionts that provide essential nutrients to insects.

**Which organelles provide evidence for the theory of endosymbiosis?** Endosymbiotic theory goes back over 100 years. It explains the similarity of chloroplasts and mitochondria to free-living prokaryotes by suggesting that the organelles arose from prokaryotes through (endo)symbiosis.

**Which statement provides evidence for endosymbiosis?** Final answer: Mitochondria and chloroplasts contain DNA similar to prokaryotic DNA, providing evidence for the endosymbiotic theory.

**Which two statements best support the endosymbiotic theory?** Final answer: The endosymbiotic theory is supported by two statements: chloroplasts and mitochondria have their own ribosomes, and the enzymes in their inner membranes are similar to those in prokaryotic cells.

**Which evidence supports the endosymbiotic theory for the origin of mitochondria?** Endosymbiotic theory is an amazing fact in the evolution. There are many strong evidences which support this theory. Mitochondria and chloroplast have their own circular DNA which replicates independent of the genomic DNA. Size of mitochondria and chloroplast is similar to that of prokaryotic cells.

**Which of the following is evidence to support the endosymbiotic theory responses?** The endosymbiotic theory is supported by multiple lines of evidence, including the fact that mitochondria and chloroplasts possess their own genomes, are surrounded by double membranes, and divide through a process that is similar to bacterial fission (mitosis).

**What evidence is there to support the endosymbiotic theory?** The evidence to support the endosymbiotic theory is that mitochondria and chloroplast have their own

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DNA and are capable of reproducing independently from the cell. Furthermore, they are the same size of a prokaryotic cell. Prokaryotic cells are smaller than eukaryotic cells.

**What are the three main sources of evidence for endosymbiosis?**

**Who proved endosymbiotic theory?** The endosymbiotic theory was articulated in 1905 and 1910 by the Russian botanist Konstantin Mereschkowski, and advanced and substantiated with microbiological evidence by Lynn Margulis in 1967.

**What are 3 facts that support the theory of endosymbiosis?**

**What are the three main points of the endosymbiotic theory?**

**Which statement best explains the evidence for the endosymbiotic theory?**

Final answer: The statement 'All mitochondria have circular DNA' best supports the Endosymbiotic Theory as it is evidence that suggests mitochondria were once independent prokaryotic organisms.

**Which of the following statements shows evolutionary evidence for the endosymbiotic theory?** Final answer: The endosymbiotic theory is supported by evidence such as the presence of own DNA and ribosomes in chloroplasts and mitochondria, suggesting their past existence as independent prokaryotic organisms.

**The Royal Alcázar of Seville: A Grand Palace in the Heart of Seville**

**What is the Royal Alcázar of Seville?** The Royal Alcázar of Seville is a stunning palace complex that has been the official residence of the Spanish royal family for centuries. Built on the site of a former Moorish fort, the Alcázar is a UNESCO World Heritage Site and a must-see destination for any traveler to Seville.

**What is the history of the Royal Alcázar?** The Alcázar was originally built in the 10th century as a fortress by the Moorish rulers of Seville. After the Christian Reconquista in the 13th century, the palace was expanded and remodeled by the Castilian kings. Over the centuries, the Alcázar has been the scene of numerous historical events, including the marriage of Ferdinand and Isabella in 1469.

**What are the highlights of the Royal Alcázar?** The Alcázar is a vast palace complex with numerous courtyards, gardens, and halls. Some of the highlights include:

- The Patio de las Doncellas (Courtyard of the Maidens): Adorned with intricate tilework and surrounded by delicate arches.
- The Salón de Embajadores (Hall of Ambassadors): A grand hall where the Catholic Monarchs received foreign dignitaries.
- The Cuarto Real Alto (Upper Royal Chambers): The private apartments of the Spanish royal family.
- The Jardines del Alcázar (Gardens of the Alcázar): Lush gardens filled with fountains, pools, and orange trees.

**How do I visit the Royal Alcázar?** The Royal Alcázar is open to the public daily. Visitors can purchase tickets either online or at the entrance. Guided tours are also available. It is advisable to book your tickets in advance, especially during peak season.

**What are some tips for visiting the Royal Alcázar?**

- Allow plenty of time to explore the Alcázar, as there is much to see and do.
- Wear comfortable shoes, as you will be doing a lot of walking.
- Take advantage of the audio guides, which provide detailed information about the palace's history and architecture.
- Visit the Alcázar during off-peak hours to avoid the crowds.
- Consider visiting the nearby Santa Cruz district, which is one of Seville's oldest and most charming neighborhoods.

## **Sonnie Badu's "Let It Rain" Lyrics Analyzed on Genius**

### **1. Overview**

"Let It Rain," a powerful worship anthem by Sonnie Badu, has become a beloved song among Christian communities worldwide. The lyrics, penned by Badu himself, express a deep yearning for God's presence and an outpouring of His blessings.

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## **2. Meaning of the Song**

The song's central theme is the desire for a spiritual refreshing, a "rain" of God's Spirit that will revive and empower the singer and others. Badu sings of his longing for God to "rain down righteousness," "heal our nation," and "pour out mercy."

## **3. Literary Devices**

Badu's lyrics are rich in literary devices. He uses metaphors (e.g., "rain of righteousness"), personification (e.g., God as a "King"), and repetition (e.g., "Let it rain, let it rain") to create a vivid and impactful message.

## **4. Personal Connection**

The song has resonated with many listeners due to its personal and relatable nature. Badu shares his own experiences of seeking God's presence and his belief that God's blessings are poured out on those who trust in Him.

## **5. Impact and Legacy**

"Let It Rain" has had a significant impact on contemporary Christian music. It has been widely performed and recorded by other artists and has become an anthem for people seeking spiritual renewal. The song's lyrics continue to inspire and encourage believers to pursue a deeper relationship with God.

**What is the level of the inside reading 2?** Introductory level. NEW e-books with interactive features designed for language learning.

**What age is Stage 2 reading books?**

**What is Grade 2 reading level?** A 2nd grader should be at a DRA level of 28-38. This is the expected range for reading fluency and comprehension in this grade level. At this stage, children are beginning to read longer texts with more complex sentence structures and can comprehend multiple ideas within one text.

**What stage book should a 7 year old be reading?** Level 8. Recommended reading age 6 - 7 years. Children might read silently or quietly at quite a rapid pace, taking note of punctuation. Usually about 25 pages with 5 to 10 sentences per page.

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**What are books for 12 year olds called?** Middle Grade Fiction (8-14 Years Old)  
Next up is Middle Grade Fiction. These children have moved on to chapter books like the Harry Potter or Percy Jackson books.

**What age should a child read fluently?** Some children learn to read at 4 or 5 years of age. But most will get the hang of it by age 6 or 7. It's important to remember that all children learn at their own pace, and the key to reading success is to make it an enjoyable process.

**What level should a 10 year old be reading?**

**What grade level is Z?**

**What reading level should a 1st grader be at?** In the fall, first graders typically independently read at a Level 4. By the end of first grade, a typical first grader will independently read at Level 16. It is important to note that some students may have DRA scores that are above or below the grade-level expectation.

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