

The Characteristics Of Creation In Frogs' Jumping Movements

Frogs are perfect beings that can easily travel long distances by jumping

- **How do frogs jump even though they have exercised for this?**
- **Why do they not get tired during these jumping movements?**

Today athletes exercise and condition themselves for many years in order to jump long distances and work out to prepare their muscles to jump because jumping is a movement that puts a good of stress on all muscles. Since it requires all the muscles of the body working together, it causes a very serious amount of energy to be expended and it is also very tiring. But this movement, which is very tiring for man, is very ordinary and easy for a small frog. After a person jumps for a number of times, he is out of breath, but the frog is not even tired.

The Source of Frogs' Jumping Characteristic Is Hidden In Their Creation

Some frogs can jump amazingly great distances. This jumping characteristic of frogs has caught the attention of researchers from the Brown University and they have examined the workings of frogs' muscles with the help of X-ray technology by filming the jumping of frogs.

Henry Astley of Brown University, who examines the bio-mechanics of the jumping of frogs , points out the miraculous situation of a frog's jump by saying "*Muscles cannot produce such good jumps on their own.*"

As a result of detailed examinations , it was found that the mechanical working of frog tendons function like water under pressure. What is behind the jump is the characteristic of a "stretched tendon." When getting ready to jump, tendons stretch and kick back during the jump. Before the jump, leg muscles shorten, and load energy on every tendon directs this energy loaded on it with pressure and makes the frog jump. This pressure is so strong that it can cause the frog to jump far away.

In order to form this pressure, one quarter of the frog's body weight accumulates on its legs. In other words, when this stretching and kicking back under pressure do not happen, frogs that dwell on tree tops and leaves in water cannot maintain their lives.

Scientists who examined the frog's jump with three dimensional X-ray technology realized that the jump is more complex than this.

When the frog prepares to jump, its calf muscles shorten. After exactly 100 milliseconds, this muscle stops moving and energy is loaded onto the stretched tendons. During the jump, the tendon wrapped around the ankle-bone releases the energy with the speed of an arrow being released from a bow. This resonance causes the ankle joint to enlarge very fast and throws the frog forward with pressure.

Frogs' Jumping Techniques Are A Work of Allah's Infinite Knowledge

The jumping characteristic and muscle structure of frogs is important to understand that Darwinist opinions about reptiles learning to jump and turning into frogs are

wrong. This great fallacy is because the jumping movement is seen by Darwinists as a very simple and learned movement.

However, while a being can learn to jump as much as it wants, it cannot alter the structure of its muscles or the workings of its tendons. In order to make an anatomical change in the body, all the genes and the DNA of that being would have to be re-written. The cells can build that tendon only if there is information on what the tendon will look like and how it will work in its genes.

No being has the means or knowledge to alter its own genetic structures and re-write its whole gene map.

Our Almighty Lord, Who is the Creator and Controller of all things in the sky, on the ground and in between, controls all genes and cells. Allah, Who creates every single gene and inspires to every cell the tendon it will build, provides the perfect qualities in living beings as an evidence for His Name, **"He Who Creates Flawlessly."**

"He is Allah – the Creator, the Maker, the Giver of Form. To Him belong the Most Beautiful Names. Everything in the heavens and earth glorifies Him. He is the Almighty, the All-Wise." (Surat al-Hashr, 24)

Frogs have not acquired the ability to jump through their own efforts or by coincidences, but were created with this ability right from the beginning. No doubt, Almighty Allah, the Owner of all things, is the One Who creates the frog. Allah controls the metabolism of frogs and all other beings on earth at every moment. In one verse of the Quran it is revealed as such:

"I have put my trust in Allah, my Lord and your Lord. There is no creature He does not hold by the forelock. My Lord is on a Straight Path." (Surah Hud, 56)

Research done has shown that frogs' muscle structures have an utterly perfect order. Like all beings on earth, frogs' muscle structures are also created by Almighty Allah with the finest details.

"And in your creation and all the creatures He has spread about there are Signs for people with certainty." (Surat al-Jathiyah, 4)

Frogs Are One of the Creatures With Almighty Allah's Superior Art of Creation

- Frogs are created with qualities to live in many different environments. Therefore, they are found in all continents except Antarctica.
- There are frog species that can live in forests, meadows and in the Himalayas and mountains over 5,000 meters high. They are densely populous in tropical regions. There are often 40 different species of frogs in a two square kilometer area of rain forest.
- In some species of frogs, there are only male populations and in some only female populations, and in some both sexes guard their offspring.

Examples of Frogs' Self-Sacrifice To Their Offspring

- The male "Small Arrow Poison Frog" of Costa Rica guards their eggs until they hatch for 10 to 12 days. The newly born tadpoles show an extraordinary effort and climb the female's back and hold onto the mother's back as if they are welded onto it. While all the offspring hold on, the female frog climbs over one of the trees of the Bromelia species in the forest. There are glass-shaped flowers on the spaces of this tree close to the sky. The flowers are filled with water. When

the mother frog reaches these flowers, it leaves the offspring inside the flower. The offspring will grow safely here.

- However, there is not any food to help the offspring's nourishment in this puddle. Therefore, the mother frog returns and deposits unfertilized eggs for a period of six weeks in order for the offspring to become adults. The tadpoles feed by eating the protein-rich, carbon hydrate-rich egg.
- Gladiator frogs are another frog species that protect the field where their eggs are located. The males of this species are created with extensions that are at the base of their thumbs and that look like needles. If another male frog attempts to get close to the eggs, they scare it away with these extensions.
- Another species known as the Small African Black Frog (*Nectophyrine afra*) build nests made of mud near the lakes and rivers that slowly flow by. These puddles are filled with water. The frog makes a thin layer of film on this puddle and ensures the eggs are hung here. Thanks to this, they stay over water and take in oxygen. A tiny disturbance, for example a frog jumping or a dragonfly nose-diving, would tear the surface film and cause the eggs to sink to the bottom. In this case, eggs would die due to lack of oxygen. Therefore, male frogs patiently keep guard at the head of the egg cluster. During this guard, they flap their feet in the water and help more oxygen reach the eggs.
- Another frog species named as "glass frogs" due to the transparent membrane on its abdomen does not guard its offspring. Allah inspired another method to them: They stick the groups of eggs on the rocks and plants on top of tropical lakes and rivers. When the eggs hatch, the tadpoles fall into the water. All of these conscious and sacrificing behaviors shown by different species of frogs to protect their offspring refute the basic claims of Darwinism. Darwinism, which claims that all living beings think only of themselves, and that there is a selfish struggle of life in nature, is at a dead end in the face of a single frog's effort to protect its offspring. Moreover, the smart behaviors shown by these beings cannot be explained by coincidences as claimed by Darwinism, and shows these beings are created by Allah. However, Allah revealed in one verse of the Qur'an that there are clear evidences in such beings for men:

"It is He Who created everything on the earth for you and then directed His attention up to heaven and arranged it into seven regular heavens. He has knowledge of all things." (Surat al-Baqara, 29)

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