

- The brain has 86 billion neurons and 400 miles of capillaries (blood vessels).
- These neurons make 10 quadrillion calculations per second.
- The neurons make 500 million connections through their branch system performing a dazzling array of mental processes every second including sensations and perceptions; how we reason; how we think; our emotions; our mental images; our attention span; learning; memory which is essentially a pattern of connections between neurons.
- A piece of brain matter the size of a grain of sand has 100,000 neurons with 2 million axons (transmission lines from the neurons) and one billion synapses (small gap at the end of the neuron that allows a signal to pass from one neuron to the next).

### Notes

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# WHAT ABOUT EVOLUTION?

8 PRIMARY QUESTIONS SERIES

Randy Pope

*Jeffrey Breshers, An Introduction to Bibliology, pg. 122*

Not only does the Bible support modern cosmology (including an instantaneous creation and the constant expansion of the universe), but it did so more than 3,000 years ago in stark contrast to all other ancient cosmological theories and long before Moses and other writers of the texts would have known the truth about such phenomena. Indeed, the Bible describes features of the universe that would not be discovered until recent times. This knowledge is only explicable in terms of supernatural revelation.

- Now agreeing —outside power would be required to start the universe
- No evidence to show living creatures produce outside its own kind

*Stephen J. Gould (agnostic scientist)*

Species exhibit no directional change during their tenure on earth. They appear in the fossil record looking much the same as when they finally disappear.

## **The Logic that Incredible Design Requires a Designer**

### **1. Facts about the human heart:**

- The human cell has 46 chromosomes that are built like little ladders
- There are 6 billion rungs within the DNA ladders of each cell
- If you spliced together and stretched out the rungs of the 46 chromosomes, each cell would be 2 meters long
- The human body has 100 trillion cells, so if you spliced together and stretched out the DNA within the human body there would be 200 trillion meters of DNA
- That would be the distance between the earth and the sun multiple times
- In many diseases only 1 rung of a single chromosome will be impaired

### **2. Facts about the human heart:**

- The heart is a pump, usually beating about 60 to 100 times per minute. With each heartbeat, the heart sends blood throughout our bodies, carrying oxygen to every cell. After delivering the oxygen, the blood

returns to the heart. The heart then sends the blood to the lungs to pick up more oxygen. This cycle repeats over and over again. The human heart beats 2 billion times over a 70 year period.

- Your heart pumps blood around the body all the time - about 5 litres (8 pints) of it. This is called circulation. Your heart, blood and blood vessels together make up your cardiovascular system (or heart and circulatory system)
- The blood vessels carry blood away from and towards the heart. Arteries carry blood away from the heart and veins carry blood back to the heart.
- The circulatory system carries oxygen, nutrients, and hormones to cells, and removes waste products, like carbon dioxide. These roadways travel in one direction only, to keep things going where they should.
- At each body part, a network of tiny blood vessels called capillaries connects the very small artery branches to very small veins. The capillaries have very thin walls, and through them, nutrients and oxygen are delivered to the cells. Waste products are brought into the capillaries. The system that contains the heart and the blood vessels and moves blood throughout the body. This system helps tissues get enough oxygen and nutrients, and it helps them get rid of waste products.
- The body is made up of 100 trillion cells and every cell needs oxygen every second.
- By adulthood, we each have 60,000 miles of blood vessels inside our bodies – that's more than twice the distance around the world. Those vessels keep blood flowing, supplying your tissues with oxygen and nutrients, and keeping your organs, including the heart, healthy.

### **3. Facts about the human brain:**

- The human brain weighs 3 pounds and represents 2% of the weight of the body. It is 75% water and is the fattest organ in the body. It is 60% fat. The brain is the seat of intelligence and is the crown jewel of the human body. It can process 400 billion bits of information per second and runs on 12 watts of power (20% of the body's energy).
- The primary functional unit is a microscopic cell in the brain called the neuron. All sensations, movements, thoughts, memories, and feelings are the result of signals that pass through neurons.