

Wonderfully Made Series
Study #2: Cell Structure Formed By God
Bible Sermon Study Notes by Cary Rodgers, pastor

Remember, If we learn more about God's creation of the human body we will learn more about the character of God and **His laws that govern our bodies.**

Psalms 139:13, 14

13 For thou hast possessed my reins: thou hast covered me in my mother's womb.

14 I will praise thee; for **I am fearfully and wonderfully made: marvellous are thy works;** and that my soul knoweth right well.

The creation of God declares the glory and power of God!

Psalms 19:1-2

1 The heavens declare the glory of God; and the firmament sheweth his handywork.

2 Day unto day uttereth speech, and night unto night sheweth knowledge.

Do you understand the power of God's Word that changes lives is the same power that created the world.

Isaiah 55:8-11

8 For my thoughts are not your thoughts, neither are your ways my ways, saith the LORD.

9 For as the heavens are higher than the earth, so are my ways higher than your ways, and my thoughts than your thoughts.

10 For as the rain cometh down, and the snow from heaven, and returneth not thither, but watereth the earth, and maketh it bring forth and bud, that it may give seed to the sower, and bread to the eater:

11 So shall my word be that goeth forth out of my mouth: it shall not return unto me void, but it shall accomplish that which I please, and it shall prosper in the thing whereto I sent it.

Psalms 33:6

6 By the word of the LORD were the heavens made; and all the host of them by the breath of his mouth.

Hebrews 11:3

3 Through faith we understand that the worlds were framed by the word of God, so that things which are seen were not made of things which do appear.

Jeremiah 10:12-13

12 He hath made the earth by his power, he hath established the world by his wisdom, and hath stretched out the heavens by his discretion.

13 When he uttereth his voice, there is a multitude of waters in the heavens, and he causeth the vapours to ascend from the ends of the earth; he maketh lightnings with rain, and bringeth forth the wind out of his treasures.

Job 38:1, 4, 5, 8, 11, 22, 23

1 Then the LORD answered Job out of the whirlwind, and said,

4 Where wast thou when I laid the foundations of the earth? declare, if thou hast understanding.

5 Who hath laid the measures thereof, if thou knowest? or who hath stretched the line upon it?

8 Or who shut up the sea with doors, when it brake forth, as if it had issued out of the womb?

11 And said, Hitherto shalt thou come, but no further: and here shall thy proud waves be stayed?
22 Hast thou entered into the treasures of the snow? or hast thou seen the treasures of the hail,
23 Which I have reserved against the time of trouble, against the day of battle and war?

All of God's creation not only reveals the glory and power God, but it also gives us purpose

Isaiah 45:18

18 For thus saith the LORD that created the heavens; God himself that formed the earth and made it; he hath established it, he created it not in vain, he formed it to be inhabited: I am the LORD; and there is none else.

We were literally formed and shaped in our mother's womb by the hands of God!

Isaiah 44:24

24 Thus saith the LORD, thy redeemer, and he that formed thee from the womb, I am the LORD that maketh all things; that stretcheth forth the heavens alone; that spreadeth abroad the earth by myself;

Jeremiah the prophet says,

Jeremiah 1:5

5 Before I formed thee in the belly I knew thee; and before thou camest forth out of the womb I sanctified thee, and I ordained thee a prophet unto the nations.

God formed us and created us to glorify Him

Isaiah 43:7

7 Even every one that is called by my name: for I have created him for my glory, I have formed him; yea, I have made him.

Jesus is not only our Savior but He is the active agent in Creation?

Ephesians 3:9

9 And to make all men see what is the fellowship of the mystery, which from the beginning of the world hath been hid in God, who created all things by Jesus Christ:

Colossians 1:16-17

16 For by him were all things created, that are in heaven, and that are in earth, visible and invisible, whether they be thrones, or dominions, or principalities, or powers: all things were created by him, and for him:

17 And he is before all things, and by him all things consist.

Jesus made all things that are naked to the eyes and things that are microscopic!

John 1:1-4

1 In the beginning was the Word, and the Word was with God, and the Word was God.

2 The same was in the beginning with God.

3 All things were made by him; and without him was not any thing made that was made.

4 In him was life; and the life was the light of men.

Jesus is the essence of life. Without Him we would not have existence.

Psalms 36:9

9 For with thee is the fountain of life: in thy light shall we see light.

What is the basic function unit of life?**Cells**

Cells are microscopic and is the basic function unit of life created by God. All living things plants, animals, and human beings have millions of cells with various functions and purposes. Cells are LIVING organisms that may be small, but pack much power.

The study of cells are one of the most amazing studies of God's creation. Today we will see the glory of God declared through the study of our cells. We are going to look at the anatomy of cells in general. We will look at the physiology of the cell in another study.

Multi-cellular animals / humans, the cells combine to greater composites and form functional units (specialties).

(show picture of typical human cell)

What are examples of typical human cells? They all have a purpose and function that sustains our life.

1) Red Blood cells: Red Blood Cell are also known as erythrocytes
E-ry-thro=Red, cyte = cell

2) Muscle cells: Make muscle tissue

3) Nerve Cells: Make up of the nervous system.

4) Skin Cells: Make up the largest organ in your body – SKIN

5) Organ cells: Make the other various organs of the body such as the heart, kidney, liver, pancreas, etc..

6) Brain cells: Creates a communication network throughout the entire body. The brain is the command center of the body.

What are the set of chemical reactions in the body that maintain life and homeostasis (balance)?
Metabolism

Metabolism original Greek meaning to change or overthrow.

Metabolism happens at the cellular level. We will look at functions and action of metabolism at a later study.

What are all cells that have a nucleus known as?

Eukaryotic cells (from the Greek meaning truly nuclear)

What is the basic structure and anatomy of human cells?

- 1) Nucleus
- 2) Organelles
- 3) Cell Body
- 4) Cellular Membrane

1) **Nucleus:**

- Cell Headquarters with the blueprint of instructions for each cell.
- 46 file “cabinets” called chromosomes
- Chromosomes made up of strands of DNA – Deoxyribonucleic acid

Cells without a nucleus!

Erythrocytes = Red Blood Cells or Red Corpuscles

Live for around 120 days

2) **Organelles:** “Organs” of the cell. Each organelles has a specific function to ensure the proper function of each cell.

3) **Cell Body** = Cytoplasm

Suffix

“Cyto” = cells

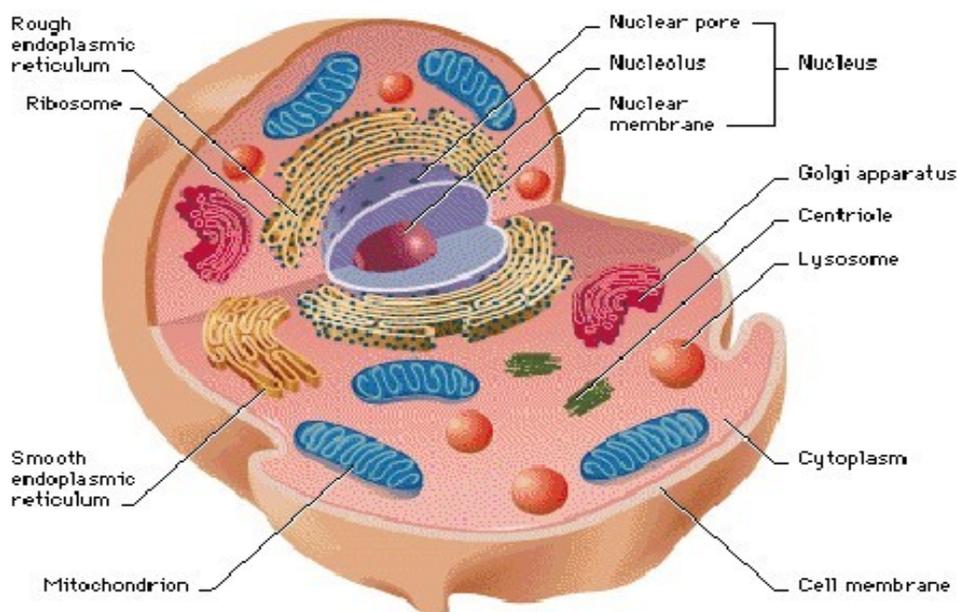
“plasm” means material forming cells

Gel-like substance mainly composed of water, salts, and proteins.

Cell Body consist of Nucleus, organelles, cellular fluid

4) Cellular membrane: The **cell membrane** (also known as the plasma **membrane** (PM) or cytoplasmic **membrane**, and historically referred to as the plasmalemma) is a biological **membrane** that separates the interior of all cells from the outside environment (the extracellular space) which protects the **cell** from its environment. - wikipedia

Here is a diagram of the basic parts and anatomy of a typical cell with a nucleus: (memorize it!)



Think about it. When God formed Adam from the dust of the earth, He created the microscopic cells first that make of the various parts and organs of the body. This is simply amazing. God formed the all the little organelles and the nucleus of each cell that makes up the body.

The formation of the human cell is beyond genius. Only God can create the living cells. This is the God we serve. The power of God is displayed in each cell.

What are the five laws of human cells?

- 1) Water
- 2) Air
- 3) Nutrition
- 4) Waste Elimination
- 5) Freedom from poison

What is the cycle of man at the cellular level?

1. Dust composed of ELEMENTS
2. Elements compose FOOD
3. Food builds BLOOD
4. Blood builds CELLS
5. Cells builds TISSUES
6. Tissues builds ORGANS
7. Man is comprised of SYSTEMS
8. God created MAN

All the our cells operate by God's laws of the body that gives life and vitality. His bodily laws give us order and consistency. Violation of God's moral and health laws of the body will bring disease.

Jeremiah 31:33

33 But this shall be the covenant that I will make with the house of Israel; After those days, saith the LORD, I will put my law in their inward parts, and write it in their hearts; and will be their God, and they shall be my people.

Psalms 119:73

73 Thy hands have made me and fashioned me: give me understanding, that I may learn thy commandments.

Study and know the location of cell organelles and structure.

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