

LAB GROWN HUMAN ORGANS by Herbalist Wendy Wilson

According to science, progress is being made in laboratories with regard to producing replacement organs. Science has had to resort to growing organs in the lab due to the shortage of donated human organs in addition to the increase in diseases that are damaging organs. Science has been culturing cells in the lab since the 1990's. Let's see what is up in this specialty field of science and how we can protect our original organs.

ORGANS AND BEYOND

With the speed in which medicine is progressing in making human organs available for replacement, we may at some point see a drive-thru menu of organs you'd like to purchase. Most drive-thru today offer combo menus and you could see something similar with regards to replacement organs. Just imagine Combo #3 which includes a liver, gallbladder and one lung. If you want two lungs you'll need to supersize your order. Besides the tongue and cheek humor, medicine is working on being able to replace more than just the major organs. Skin, bones, neurons, blood vessels, blood and immune system cells are all up for grabs in this field to any scientists who perfects the process of manufacturing them first.

THE MASTER CELL

Recently research at Oregon State University reported on a breakthrough regarding precursor cells. These cells put the "road" in roadmap if you will. According to science, the precursor cells are the base cells for growing many different aspects of the human body. Their research was published in *Scientific Reports*. Some speculate that if they can master cell production that they could grow limbs for amputees. Here is how one researcher describes their work:

"We now have the ability to label cells based on expression profiling of sequence-specific transcription factors. We can give a molecular code to each cell to make it distinct in time and space – during the progression of a cell the code changes. We can discover niches, stem cell pockets and use this information to fix genetic or environmentally cause of disorders. This lends itself to the possibility to make an entire organ in a Petri dish. "
Chrissa Kioussi, Professor Oregon State University College of Pharmacy

CELL LINEAGE

What science is about to do is script cell lineage, which is scripting or profiling RNA sequence. What they hope to be able to do with this knowledge is learn the genes involved in the following areas of the human body:

- Skeletal
- Muscular
- Vascular
- Nervous
- Immune system

All of these areas are involved in making functional limbs. They've already learned that muscle cells are three dimensional cells called Pax3+ cells. Limbs involve multiple systems and entails very complicated and intricate work. If lab-grown hamburger meat cost \$375,000 to develop, just imagine the cost of a replacement limb. Health insurance will most likely not cover it. Researcher Chrissa Kioussi describes their research this way:

**“A mechanic taking apart an engine down to every last nut, bolt and washer.”
Chrissa Kioussi, Professor Oregon State University College of Pharmacy**

EMBRYO-GENESIS PROGRAM

According to the report, cell production will be a BIG business. So, you may want to ditch the Apple and Google stock and get a slice of the cell generation pie. The Embryogenesis program is about making many different types of cells in their development stage and allow it to grow into something else over time. They hope to use this cell technology to fix broken organs that do not function well or for trauma-injured organs. They also claim that this research will one day repair organs damaged by toxic abuses; alcohol, tobacco and drugs.

DEATH IS DEAD?

Where this whole research will lead is an attempt to eradicate death. This could be science's version of the Holy Grail. Here is what the researcher says:

**“Anything that can generate cell death in any part of our body we will fix.”
Chrissa Kioussi, Professor Oregon State University College of Pharmacy**

The embryogenesis process has generated adult cell types. Currently, science has been able to identify and generate four different organs from the embryo-generated cells, which we're told is the precursor to making body parts in labs.

GOING BEYOND

This field of growing organs including skin is going beyond organ transplants and is into the area of regenerative medicine. Much good can emerge from this field. It could eliminate the need for organ rejection medicines. With breakthroughs like this it also opens doors to frenzied competition in the field. Who will be the first to be awarded the accolades could lead to scientists taking shortcuts or falsifying results.

BODY MECHANIC

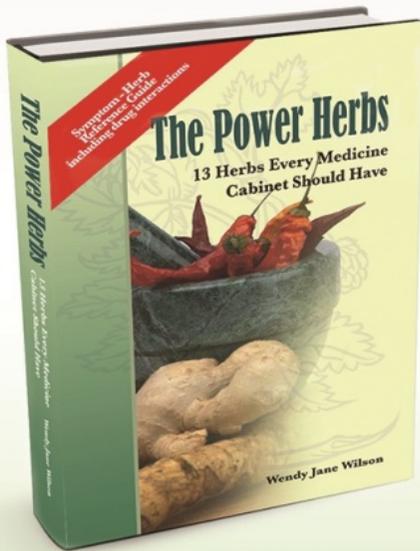
This research and what scientists are saying give a whole new meaning to body mechanic. Overhauling a human chassis is what science is aiming for. If you thought a car restoration was expensive, just think of the medical bills associated with master cell regeneration. Personally, I'd rather keep my original equipment in good order. How may we accomplish this? As pointed out by the scientists, other than genetic disorders, toxins and trauma can damage organs. Toxins can come in many different forms from bad diets to a variety of abuses. Therefore, keeping the diet clean and the organs clean will go a long way at preventing the need for “medicine's body mechanic.” **You'll find organic herbal Organ Cleanses at Apothecary Herbs. You'll also find immune boosters and herb formulas to help strengthen weak areas of metabolic function such as cardio, prostate, pancreas, energy, hormones and more. Ask for their free product catalog and discover how powerful you can be with God's medicinal herbs. Call now to order 866-229-3663, International 704-885-0277 www.thepowerherbs.com, where your healthcare options just became endless.**

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