

## ABOUT REVIVE

Harald Ott and his researchers have been working in the area of stem cell and genetic development at Harvard Medical to help patients by developing tools to improve the lives of those with end organ failure.



## DID YOU KNOW?

#1

End organ failure is the leading health care challenge in the Western world.

5.7m

Americans suffer from heart failure.

16m

Americans suffer from Chronic Obstructive Pulmonary Disease (COPD).

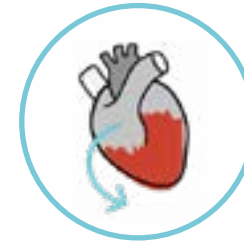
660,000+

Americans suffer from kidney failure.

~114,000

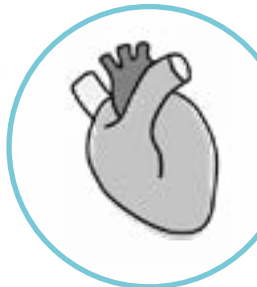
people in the U.S. are currently waiting for an organ transplant.

## THE PROCESS



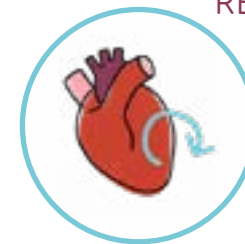
### DECELLULARIZATION

Strip away all living cells from the organ. Organ sits in vessel while chemicals wash away DNA lipids, proteins, sugars and other cellular material.



### SCAFFOLDING

Preserve the organ's blueprint while its washed empty. The matrix of collagen and structural proteins that hold everything together will remain.



### REPOPULATION

Place organ in a bioreactor chamber that stimulates the environment of the body. Organ is then repopulated with cells that are immunologically matched with patient and after a few days of growth, the tissue becomes functional.

# REGENERATION

Revive's organ regeneration process has  
already been tested.



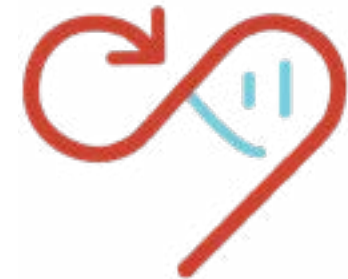
Heart

Lung

Tissue

Kidney

Trachea/  
Larynx



ORGAN  
DECELLULARIZATION  
SCAFFOLDING  
REPOPULATION

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