Zwitterink

Microtia











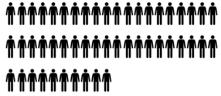
Small but almost recognizable anatomy

Some Small rudiment of soft tissue and

No external ear and no ear canal

Microtia: a congenital deformity where the external part of the ear is undeveloped.

THE PROBLEM



represents 1,000 people

- ▶ There are about **50,000** children in the US alone who currently suffer from this disease.
- There are currently two surgical options:
 - Rib cartilage implant
 - Synthetic material implant
- The market for this application alone is \$3.3 billion.

2

SURGICAL OPTIONS ISSUES

Rib cartilage implant

- Highly invasive harvesting of rib cartilage
- Long surgical procedure
- Less precision of the carved ear

Synthetic material implant

- High possibility of body rejection
- Short-term durability
- High infection rate
- Poor mechanical strength

OUR BIO-INK PROPERTIES

No body rejection

Our implant material has been shown to be compatible with living bodies and shows no signs of rejection in vivo. Our material's superior chemical stability makes it compatible with living cells for a longtime.

3D printable

Incorporating the newest 3D printing technology and our breakthrough cross-linking technology allows us to 3D print individualized products with precision and strength.

HOW IT WORKS

- 1. Scan & Design
- 2. 3D Print with our material
- 3. Implant



BEYOND IMPLANTS

Our material's cell-friendly nature makes it valuable in many applications like tissue engineering. Our vision is to sell our product as a biocompatible and 3D printable "bioink", for many applications in the future.



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Michael Phuong



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