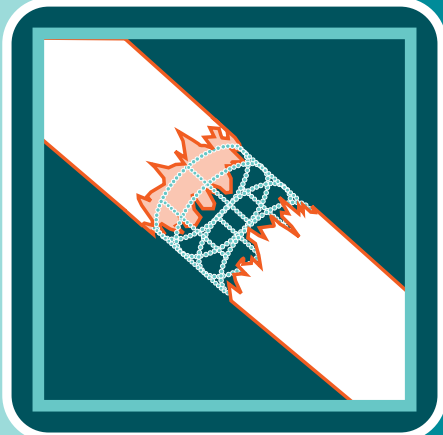
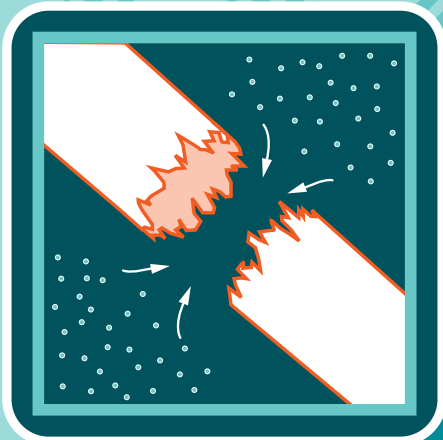


Regenerating Tissues

with Nanoscaffolds



GROW!



Nanotechnology may one day enhance our bodies' ability to repair damaged bones, nerves, and blood vessels. Scientists are especially excited about the potential that nanoscaffolding has shown in regenerating tissues.

What Are Nanoscaffolds?

In our bodies, natural lattice-like structures provide support for tissues to grow into different forms (like heart or bone tissue). Nanoscaffolds made from tiny particles may perform a similar function at the site of an injury, helping tissues to heal.

Injected particles organize into a nanoscaffold at the site of injury. Cells are then able to weave through the scaffold and either produce new tissue or knit injured tissue back together.

Research Findings

In 2006, scientists at MIT used nano-scaffolding to restore sight in hamsters with injured optic nerves.