



SOLVING ORGAN SHORTAGE

Whole Liver Research Community

Phase One Strategic Research Goals

Identify optional cell population(s) with specific phenotypes (function, growth, regeneration) that can be expanded in sufficient numbers for research and therapeutic applications to engineer a functional liver.

Delineate the optimal structure and biochemical characteristics of an extracellular matrix scaffold(s) to influence liver cell organization, maturation and functionality.

Define strategies to modulate repair and regeneration of liver tissue, both *in vitro* and *in vivo*.

Work with industry to design and build bioreactors capable of sustaining a bioengineered liver for an extended period of time.

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“Seed money prudently
invested can advance the
science further, faster.”

About Solving Organ Shortage

SOS is a nonprofit organization formed in 2014 to advance a novel, science-driven effort to regenerate or engineer replacement organs for transplantation by funding strategic, high-impact research initiatives. Its organ-specific Research Communities comprise a global Consortium of Researchers focused on solving one of society's urgent healthcare issues. Learn more at solvingorganshortage.org.