



**TSSUSE**  
Emulating Human Biology



# »Human-on-a-Chip solutions for substance testing«

## TissUse GmbH

Emulating Human Biology

### Our idea

TissUse GmbH is a spin-off company from the Technische Universität (TU) Berlin which has developed a unique chip-based tissue culture platform, enabling the testing of drugs or chemicals on a set of miniaturized human organs emulating the biology of the human organism. This “human-on-a-chip” platform is designed to generate high-quality in vitro data predictive of substance safety and efficacy in humans. With this platform, TissUse is on a path to overturn the current over-reliance on animal studies and static cellular assays in both pharmaceutical and chemical substance testing.

TissUse is additionally applying its platform and know-how to develop spin-off programs in a variety of tissue and organ repair areas starting with the cosmetic market of hair transplants.

### Team

**Eva-Maria Materne** (Dr.-Ing., M.Sc.)  
**Ilka Wagner** (Dr.-Ing., M.Sc.)  
**Annika Jaenicke** (Dipl.-Ing.)  
**Alexandra Lorenz** (B.Sc.)  
**Silke Hoffmann** (Dipl.-Biochem., LL.M.)  
**Lutz Kloke** (Dipl.-Pharm., MBA)  
**Reyk Horland** (Dr.-Ing.)  
**Uwe Marx** (Dr. med.)  
**Gerd Lindner** (Dr., Dipl. Biochem.)

### Sector

Biotechnology

### Mentor

Prof. Dr. Roland Lauster,  
Faculty III - Process Engineering

### Support

BMBF GO-Bio (2010 - 2013),  
StarTUp + Programm (2013)

### Year founded

2010

[www.tissuse.com](http://www.tissuse.com)