

Sim4Life

In Silico We Trust – Cutting-Edge Solutions
for Medical Technology

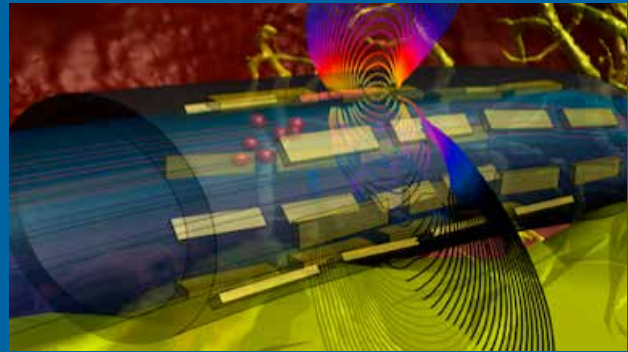


Sim4Life

Sim4Life is the first computational life sciences platform to integrate computable human phantoms with the most powerful physics solvers and the most-advanced tissue models for direct analysis of biological real-world phenomena and complex technical devices in a 3D validated biological and anatomical environment. Sim4Life provides smooth and fully automated or customizable workflows for applications ranging from exploratory research and medical device development to regulatory documentation for clinical trials and device certification.



Virtual Population V4.0: Neuro-Functionalized Anatomical Models



Stimulation of the vagus nerve with a multi-element cuff electrode array.

Sim4Life light – Student Version

free-of charge for students to facilitate their understanding of computational modelling and simulations for various topics, ranging from wireless communication to medical applications
Please contact s4l-sales@zmt.swiss for further details.

Sim4Life Platform

Computable Human Phantoms	Physics Models	Tissue Models	Intuitive GUI and Workflow	Licensed Modules
ViP 4.0 Virtual Population	P-EM-FDTD Electromagnetics Full Wave Solvers	T-NEURO Neuronal Tissue Models	MODELER Advanced Modeling Tool Set	MRI IMANALYTICS M-MUSAIK M-TxCOIL M-BCAGE M-SYSSIM M-GRAD M-IMSAFE
ViZoo 1.0 Animal Models	P-EM-QS Quasi-Static Electromagnetics Solvers	T-CEM43 Tissue Damage Models	MESHER Robust & Effective Meshing	MODELING M-ISEG M-REMESH
3rd-Party Models	P-THERMAL Thermodynamics Solvers		POSER Physics-based Realistic Posing	CALCULATORS M-DISPFIT M-PPCALC
	P-FLOW Fluid Dynamics Solvers		SWEEPER Fully Configurable Parameter Sweeps	TOOLBOX M-MATCH M-MIMO M-MBSAR M-HAC M-5G
	P-ACOUSTICS Acoustics Solvers		ANALYZER Versatile Postprocessor and Analyzing Tool Set	IMPORT M-HUYGENS M-IMG M-VOX
			PYTHON Control via Python Scripting	OPTIMIZER Multi-Parameter Multi-Goal Optimizer
High Performance Computing Auto-Scheduler & Control ARES				