

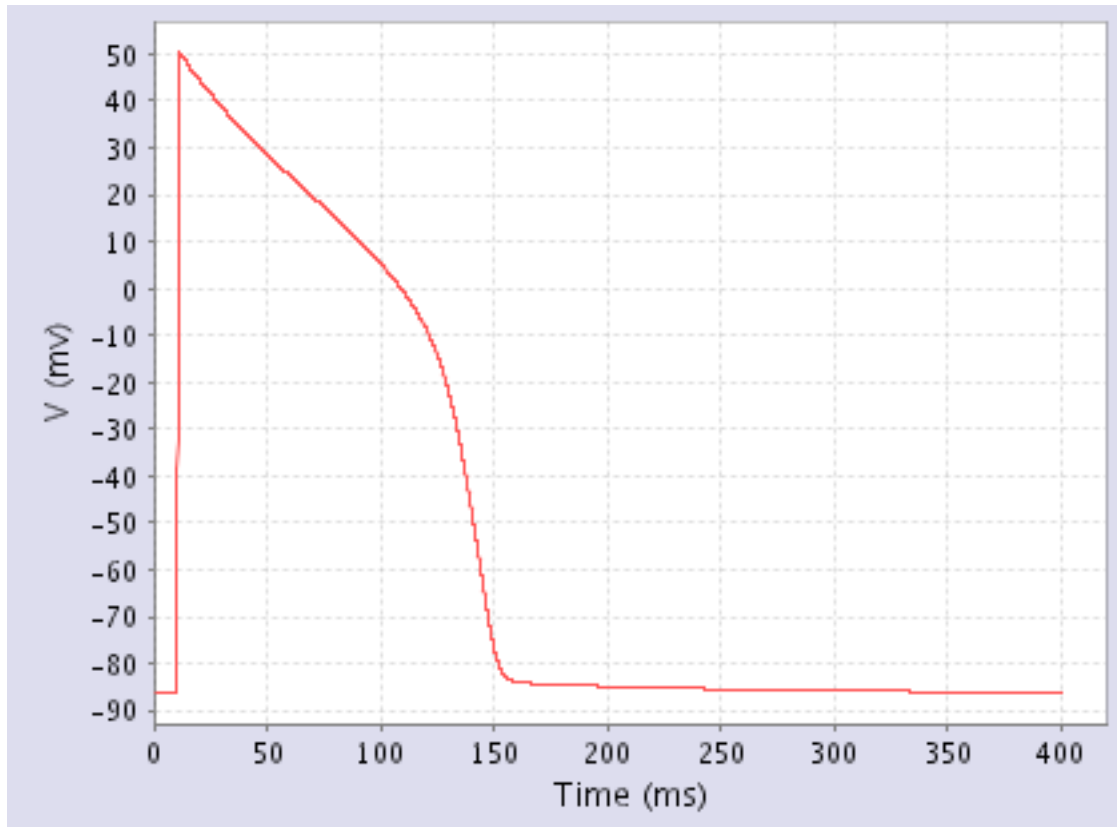
Guinea Pig Ventricular FR00-ESM

**Enhanced Simucore Model Based Upon: Faber-Rudy
Model of Mammalian Ventricular Cardiac Action Potentials,
2000; v. 2.0**

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1. Description



Example action potential (BCL = 400 ms).

The model is used to simulate guinea pig ventricular action potentials. It formulates ionic current gating in terms of Hodgkin-Huxley type equations. This model contains description of fourteen ionic currents and pumps. In addition, it describes the process of calcium release from the sarcoplasmic reticulum and detailed dynamics of intracellular calcium concentration changes (hence the name, "dynamic"). The original formulation of this model was subsequently updated (see References) and is being widely used as a foundation for the new cardiac myocyte model development.

2. References

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3. Ordering

- [Order this model](#) or [request further information](#).