

# Luo-Rudy Mammalian Ventricular Model I, 1991

**v. 1.3**

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## 1. Description

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 extends the Beeler-Reuter mammalian ventricular model (1977) and describes 6 ionic currents. This model includes basic intracellular calcium concentration handling.

## 2. References

- A Model of the Ventricular Cardiac Action Potential - Depolarisation, Repolarisation and Their Interaction, Luo, C. and Rudy, Y., 1991 *Circulation Research*, 68, 1501-1526.

## 3. Download

This model is part of the stable CESE distribution.

- Download [CESE stable](#).