

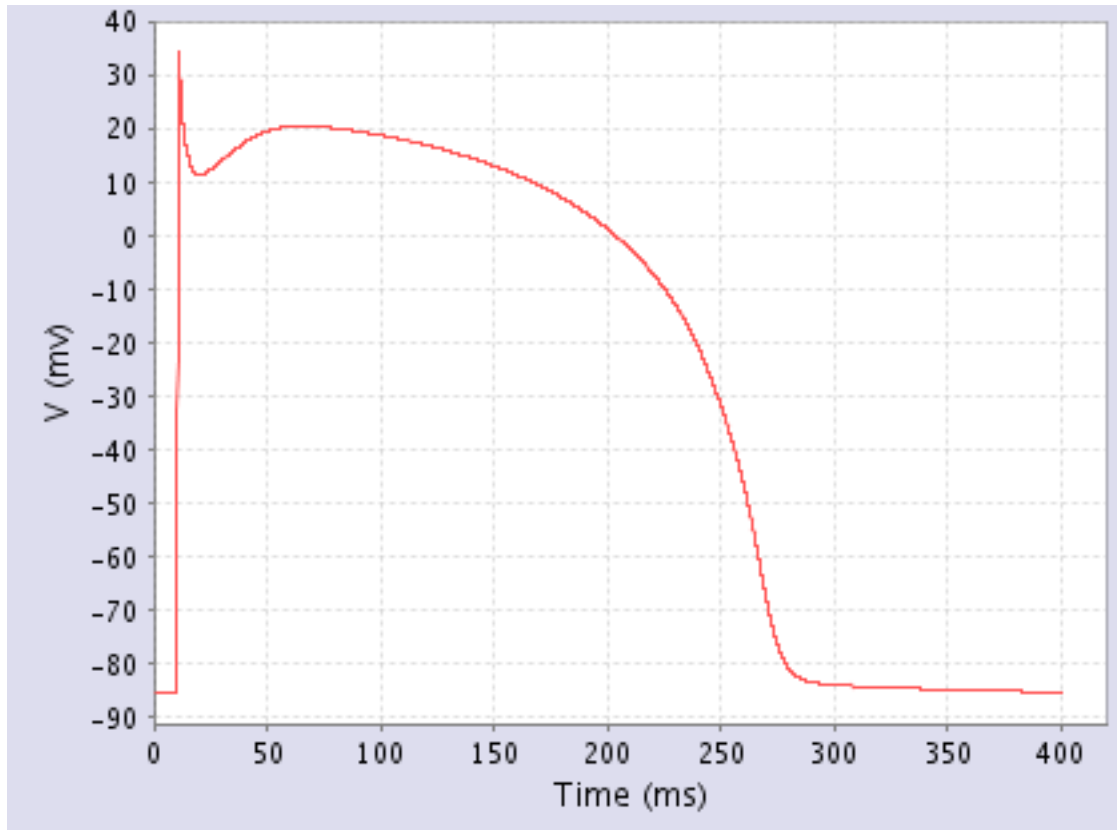
# ten Tusscher-Panfilov Model of Human Ventricular Cardiac Action Potentials, 2006

**v. 1.4**

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## 1. Description



Example action potential (BCL = 400 ms).

This model simulates human ventricular action potentials. This is a modified version of ten Tusscher, Noble, Panfilov 2004 model that reformulates  $\text{Ca}^{2+}$  current and adds reduced version of the Markov-state ryanodine receptor model.

Abstract excerpt: *"In this manuscript we study the conditions for alternans and spiral breakup in human cardiac tissue. Therefore, we develop a new version of our human ventricular cell model, which is based on recent experimental measurements of human APD restitution and includes a more extensive description of intracellular calcium dynamics."*

## 2. References

- Ten Tusscher KH, Panfilov AV.  
Alternans and spiral breakup in a human ventricular tissue model.

Am J Physiol Heart Circ Physiol. 2006 Sep;291(3):H1088-100.  
PMID: [16565318](#)

### **3. Ordering**

- [Order](#) this model via a secure site.