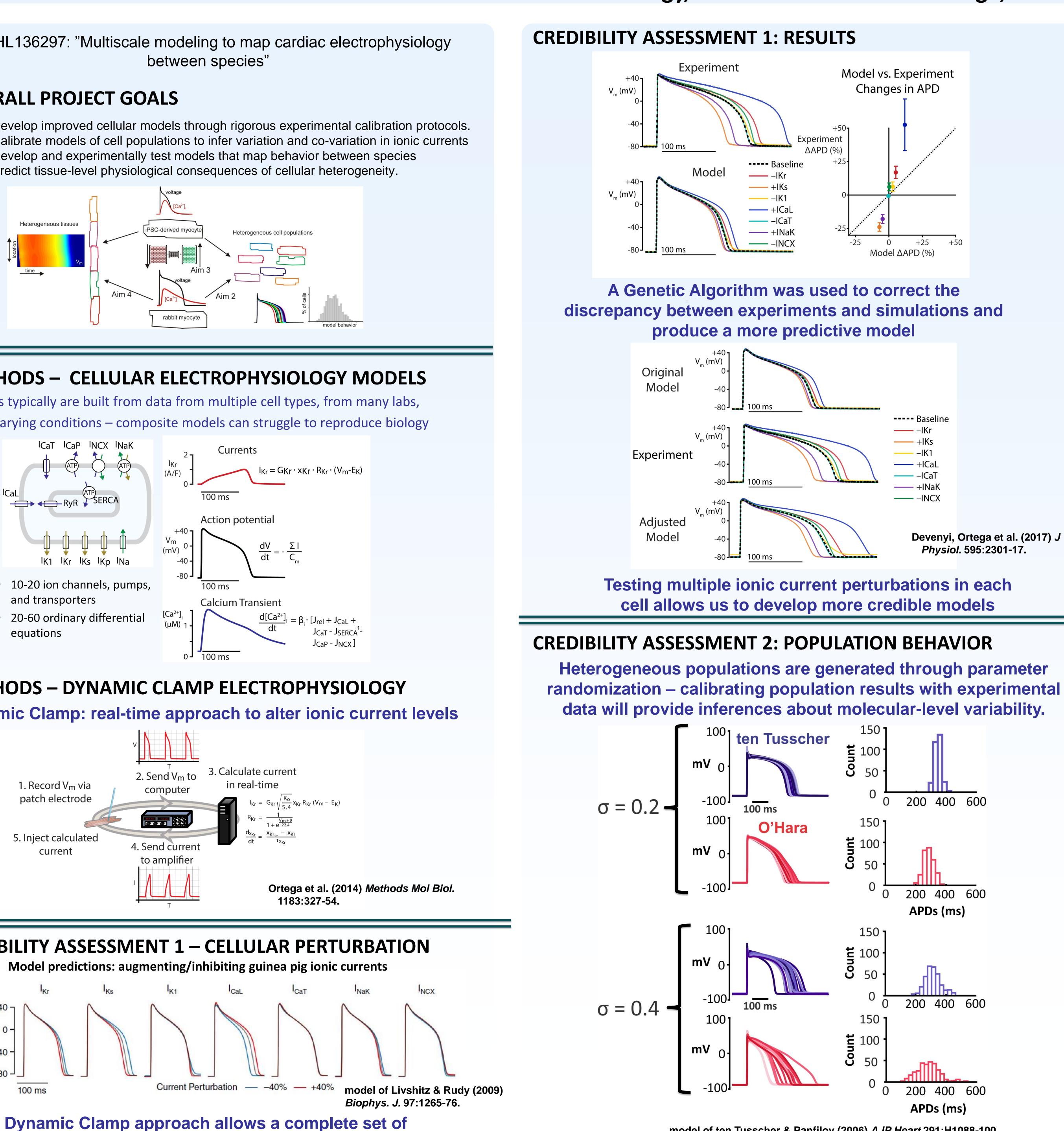
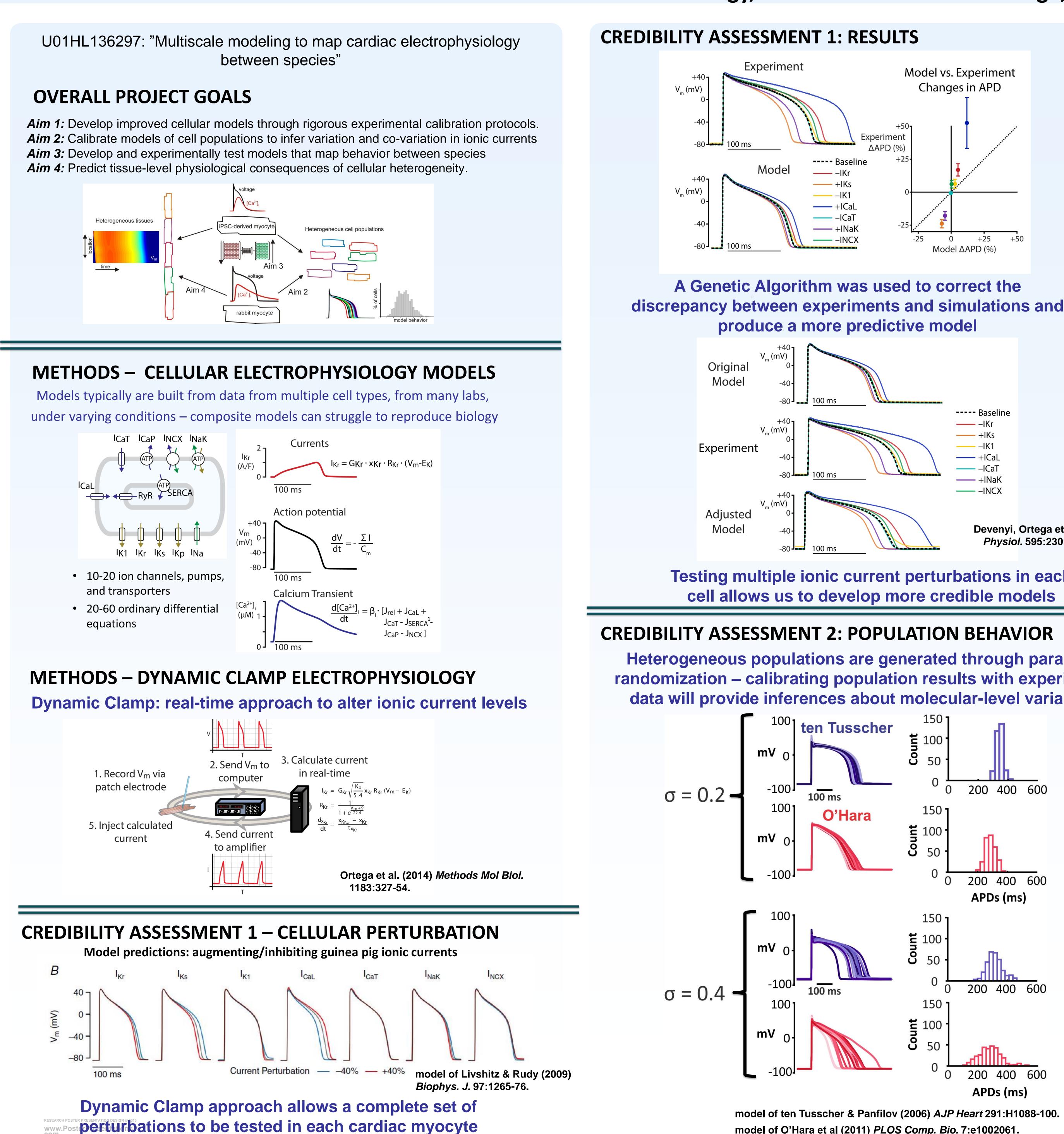
between species"





Assessing and Improving the Credibility of Multiscale Cardiac Electrophysiology Models

David J. Christini⁺, Eric A. Sobie^{*}

*Department of Pharmacological Sciences, Icahn School of Medicine at Mount Sinai, New York, NY [†]Division of Cardiology, Weill Cornell Medical College, New York, NY

model of O'Hara et al (2011) PLOS Comp. Bio. 7:e1002061.

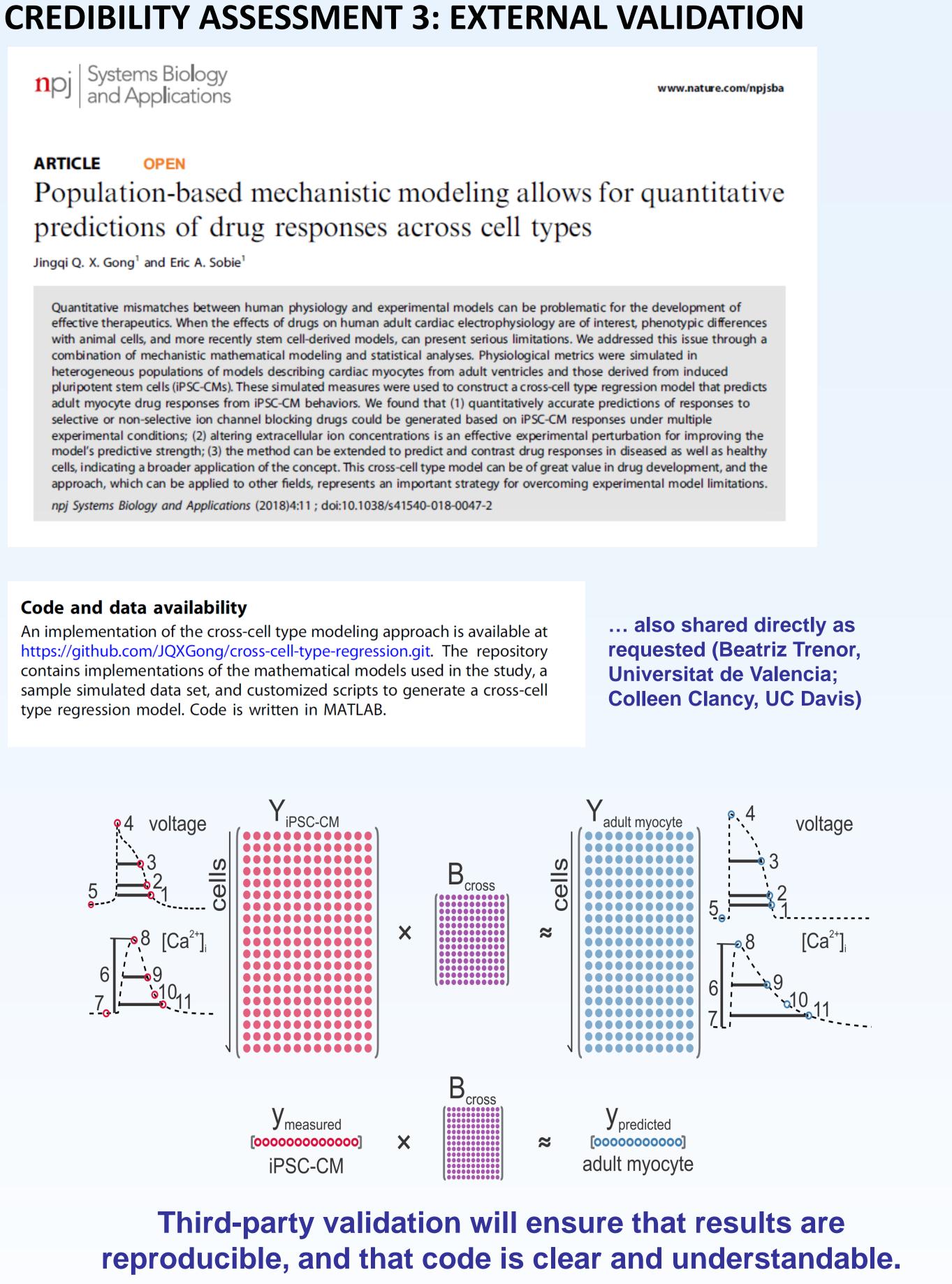
Devenyi, Ortega et al. (2017) J Physiol. 595:2301-17.

npj Systems Biology and Applications

ARTICLE

Code and data availability

type regression model. Code is written in MATLAB.



MODEL-CREDIBILITY SUMMARY

- credible models.
- into" the very goals of this project.

• The traditional paradigm of building cardiac cell models from data collected from many cell types, from many labs, under varying experimental conditions has led to a few decades of published models that, while useful, often fail in one or more ways.

• This project utilizes intact cardiac myocytes and dynamic experimental/computational protocols to acquire rich data sets that, coupled with global parameter fitting algorithms, produce more

• Thus, in addition to open model-sharing practices (github) to enable third-party validation, model credibility is essentially "baked