

$\frac{dV_m}{dt} = \bar{g}_{Na} m^3 h (V_m - E_{Na}) + \bar{g}_K n^4 (V_m - E_K) + \bar{g}_L (V_m - E_L)$   
 $= \alpha_m (V) (1 - m) + \beta_m (V) m$   
 $= \alpha_h (V) (1 - h) + \beta_h (V) h$   
 $= \alpha_n (V) (1 - n) + \beta_n (V) n$

# How to model neurons and neural systems?

*Integrating biophysics, morphology,  
and connectivity*

## SECOND POLISH-NORWEGIAN NEUROINFORMATICS WORKSHOP

WARSAW, POLAND  
JANUARY 14-15, 2010

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**Venue** Nencki Institute of Experimental Biology,  
Polish Academy of Sciences in Warsaw, Poland.

**Speakers** Giorgio Ascoli (George Mason University)  
Ingo Bojak (Radboud University Nijmegen)  
Stephen Coombes (University of Nottingham)  
Rodney Douglas (Institut für Neuroinformatik, Zürich)  
Shaul Druckmann (Hebrew University of Jerusalem)  
Daniel Durstewitz (Central Institute of Mental Health, Mannheim)  
Gaute Einevoll (Norwegian University of Life Sciences)  
Wulfram Gerstner (École Polytechnique Fédérale de Lausanne)  
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