

Cell Scale to Macroscale Integration

- **WG white paper 2010:** Ching-Long Lin, George Karniadakis, James G. Brasseur, Bridget S. Wilson, and Yi Jiang
- **Some key components linking scales:** stress transmission and mechanotransduction
- **How to improve current models:** geometry, fluid, tissue, and uncertainties
- **Goals and Tasks:** (1) Special journal issue, (2) Joint meeting, (3) Collaborations
- **Updates:** (1) Special journal issue, (2) WG Webinar Series, July 13, 2012

- 1/18/11: Proposal of a special issue on *Multi-scale Modeling and Simulation of Biological Systems, Journal of Computational Physics*, approved by Dr. Gretar Tryggvason; Guest editors: C.-L. Lin, G. Peng, G. Karniadakis
- 04/20/11: Released call for letter of intent
10/11/11: Estimated 28 papers (out of 47)
- 10/20/12: 21 papers (17 accepted, 4 pending/revise)

2012-2013 Goals and Tasks: (1) Reach out to the special issue contributors, (2) seek collaborations with other WG members.