



**FASEB**

Federation of American Societies  
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Conferences

## The Calcium and Cell Function Conference

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### **Organizer Bio: Barbara A. Niemeyer, PhD**

*Professor of Molecular Biophysics, Center for Integrative Physiology and Molecular Medicine, Saarland University, Homburg, Germany*

Barbara A. Niemeyer is a biologist interested in the regulation of calcium selective ion channels on a molecular and cell physiological level. Specifically, her team investigates how  $\text{Ca}^{2+}$  signatures are regulated by their environment by pre- and posttranslational modifications and by other intracellular signaling cascades to confer cell type specific responses. We use a combination of techniques including molecular biology, biochemistry,  $\text{Ca}^{2+}$  imaging analysis, electrophysiology (patch-clamp), and high-resolution microscopy (live cell imaging, TIRF and electron microscopy) and more recently, mouse genetics.