



## **Biosketch**

### **Kathleen Ruppel, MD/PhD in biochemistry**

Dr. Ruppel has an MD/PhD degree from Stanford University School of Medicine, did her clinical residency at The Children's Hospital in Boston, and then was an Assistant Professor in the Cardiovascular Research Institute and Department of Pediatrics, School of Medicine, UCSF. She currently is a Senior Research Scientist in the Stanford Biochemistry Department and Clinical Assistant Professor, Pediatrics (Cardiology), Stanford University.

Ruppel's long-term goal has been to understand how myosins function as molecular motors, transducing the chemical energy of ATP hydrolysis into force production and movement, and how alterations in this functioning contribute to human disease. She has a broad background in biochemistry and cardiovascular biology and medicine, and has extensive training using site-directed mutagenesis to perform structure-function analysis of the motor domain of various myosins. She has more than 25 years of experience in the molecular motor field using biochemical and biophysical technologies to answer fundamental questions about the structural dynamics of myosin enzymatic and mechanical function, and how these inform our understanding of the molecular pathology of diseases.

Dr. Ruppel has successfully co-mentored 12 graduate students and postdoctoral fellows, and has actively co-administered, with Dr. James Spudich, the variety of myosin-based projects in the Biochemistry Department at Stanford. Her awards include a Katherine McCormick Foundation Fellowship, Stanford University; a Pfizer Postdoctoral Fellowship in Cardiovascular Medicine (awarded & declined); a Howard Hughes Medical Institute Physician Scientist Postdoctoral Fellowship; and an NIH Physician-Scientist Career Development Award (K08).