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1. What are your current 3 main areas of research?

- Modulation of calcium signaling in striated muscle with emphasis in cardiac ischemia/reperfusion (Collaboration with Dr. A. Escobar, UC Merced).
- Modulation of calcium release channels/ryanodine receptors (RyRs) and Ca ATP ase of Sarcoplasmic Reticulum (SERCA) in skeletal muscle and heart.
- Modulation of calcium signaling in non-muscle systems. Current emphasis in breast cancer (Collaboration with Dr. S. Ticskau and Dr. D. Nie - SIUSOM).

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2. What are the top 3 areas of expertise/tools you are looking for in a research collaborator?

- Drug design, synthesis and purification.
- Molecular modeling of drug interactions.
- Tissue model systems to study calcium signaling.

3. What 3 skills/tools that you have access to, are you willing to share with a potential research collaborator?

- Technical experience in for measuring RyRs and SERCa function, as well as, Ca²⁺ signaling.
- Electrophysiology Laboratory
- Article/Proposal Review Skills