Abstract:
My laboratory uses a multi-disciplinary approach to study the role of fluid-derived mechanical forces in vascular remodeling and heart morphogenesis in early vertebrate embryos. We have recently developed methods for time-lapse, confocal imaging of rapid blood flow and heart mechanics using vital fluorescent protein reporters. With these methods we are studying the response to changes in mechanical stress in mouse and zebrafish models, taking advantage of the wealth of mutant animals.

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Imaging Blood Vessels and Circulation in Development and Tissue Engineering
4 pm Friday
February 27th, 2009
5.521 Levin Hall