Upcoming Discovery Lecture:

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208 Light Hall / 4:00 PM.
Pharmacogenomics is the study of how genetic variation influences drug response. We are building the PharmGKB resource (pharmgkb.org) to organize the world’s knowledge of pharmacogenomics. Central to this mission is understanding the molecular mechanisms of drug response—the genes that are involved in the pharmacokinetics and pharmacodynamics of drug response. Our laboratory has developed informatics methods at the molecular, cellular, and organismal level for linking genes to drug response, and for better characterizing the full set of responses to drugs individually and in combination. The growing volume of data at all scales creates a “big data” opportunity for transforming our understanding of how drugs work, and how to best use them in clinical practice.