Kris C. Wood, Ph.D.
Assistant Professor
Department of Pharmacology and Cancer Biology
Duke University

Dr. Wood received his Ph.D. in Chemical Engineering from the Massachusetts Institute of Technology working with Paula Hammond and Robert Langer. He then completed postdoctoral training with David Sabatini at the Whitehead Institute for Biomedical Research and the Broad Institute of Harvard and MIT, where he was supported by an NIH Kirschstein National Research Service Award and a Misrock Fund Postdoctoral Fellowship. Dr. Wood joined the Duke faculty in 2012.

The Wood laboratory develops state-of-the-art tools for large-scale, efficient, and information-rich mammalian functional genomics experiments. Further, we use these tools to address problems in basic and translational cancer biology, many of which center on the design of targeted therapeutic strategies to manipulate oncogenic signaling networks. Examples of current projects in our lab include: (1) the application of a new miniaturized screening platform to profile drug responses in human patient-derived tumor cells in real-time; (2) the development of tools to systematically elucidate the signaling pathways controlling anticancer drug responses; (3) the systematic credentialing of mutations uncovered through cancer genome sequencing projects; and (4) the use of new high-throughput experimental and computational methods to discover potent, selective anticancer drug combinations.