



WEBINAR

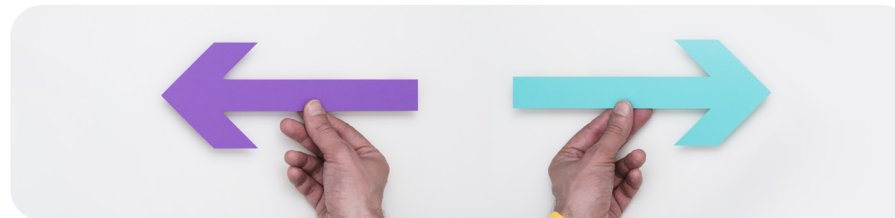
Redefining CRISPR: inducible, dual-gene perturbation for powerful phenotypic characterization.

October 27, 2026 | 9:00 AM MT | 11:00 AM ET



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CRISPR technologies have transformed gene perturbation studies, enabling the interrogation of gene function across diverse biological systems. Because many phenotypes are driven by complex and interconnected gene networks, simultaneous modulation of multiple genes can provide deeper biological insights than single-gene targeting alone.

To address these challenges, the Dharmacon™ reagents team developed a dual-sgRNA lentiviral expression platform, which enables stable expression of two sgRNAs from a single construct with or without a CRISPR effector. Combined with the inducible lentiviral system, researchers gain precise temporal control of Cas9/dCas9 activity, enabling complex studies including essential gene characterization. This flexible platform supports gene knockout, activation, and repression strategies across a wide range of cell models, from cancer cell lines to iPSC-derived and 3D spheroid systems.

In this webinar, Allyson Malloy and Andrew Riching will demonstrate how dual-sgRNA and inducible CRISPR technologies accelerate functional genomics studies, uncover gene interactions, and enable robust phenotypic characterization in challenging cellular models.

Examples include inducible dual-gene knockout in cancer cells, enhanced iPSC differentiation through dual-gene activation, and regulated transgene expression in pre-formed tumor spheroids.

Featured speakers:



Allyson Malloy, M.S.
Scientist, Revvity



Andrew Riching, Ph.D.
Senior Scientist, Revvity