

Reporter gene assays

eGFP/dsRed Reporter assay in *N. benthamiana* leaves: Stauffer et al. (2010). Polypyrimidine tract-binding protein homologues from Arabidopsis underlie regulatory circuits based on alternative splicing and downstream control. *The Plant Journal* 64, 243–255 [Read more](#)

Dual Luciferase Reporter Assay: Juraver-Geslin et al. (2011). Barhl2 limits growth of the diencephalic primordium through Caspase3 inhibition of β -catenin activation. *PNAS* 108 (6), 2288-2293 [Read more](#)

Immunoassays

ELISA: Vogt et al. (2011). Poorly Neutralizing Cross-Reactive Antibodies against the Fusion Loop of West Nile Virus Envelope Protein Protect In Vivo via Fc γ Receptor and Complement-Dependent Effector Mechanisms. *JOURNAL OF VIROLOGY*, 11567–11580 [Read more](#)

Caspase assays

Caspase assay in clams: Strahl et al. (2010). Cell turnover in tissues of the long-lived ocean quahog *Arctica islandica* and the short-lived scallop *Aequipecten opercularis*. *Marine Biology* 157 (6), 1283-1292 [Read more](#)

Cytotoxicity

LDH release (Cytotox Assay) Hamon et al. (2011). K⁺ Efflux Is Required for Histone H3 Dephosphorylation by *Listeria monocytogenes* Listeriolysin O and Other Pore-Forming Toxins. *Infection and Immunity* 79 (7), 2839-2846 [Read more](#)

BRET and BRET²

GPCR oligomerization: Wade et al. (2011). Relationship between Homo-oligomerization of a Mammalian Olfactory Receptor and Its Activation State Demonstrated by Bioluminescence Resonance Energy Transfer. *The Journal of Biological Chemistry* 286, 15252-15259 [Read more](#)

Cell proliferation

ATPLite assay: Stavru et al. (2011). Cell *Listeria monocytogenes* transiently alters mitochondrial dynamics during infection. *PNAS* 108 (9), 3612-3617 [Read more](#)

Cell migration

Transwell permeability assay: Sume et al. (2010). Epithelial to Mesenchymal Transition in Gingival Overgrowth. *The American Journal of Pathology* 177 (1), 208–218 [Read more](#)

Cellular luminescence / Phagocytosis

Cellular chemiluminescence: Wan et al. (2010). A high throughput chemiluminescence method based on molecularly imprinted sol-gel films for determination of sibutramine. *Advanced Material Letters* 1 (2), 164-169 [Read more](#)

Enzyme kinetics

Proteasome assay: Jo et al. (2010). Natural Product Celastrol Destabilizes Tubulin Heterodimer and Facilitates Mitotic Cell Death Triggered by Microtubule-Targeting Anti-Cancer Drugs. *PLoS ONE* 5 (4), e10318 [Read more](#)

Reactive Oxygen Species (ROS)

ROS production in A549 cells: Zhang et al. (2008). Interactions between PBEF and oxidative stress proteins-a potential new mechanism underlying PBEF in the pathogenesis of acute lung injury. *FEBS Letters* 582 (13), 1802–1808 [Read more](#)

Permeability/Migration

Transwell assay of fluorescent microsphere: Gali et al. (2010). In Vitro Evaluation of Viability, Integrity, and Inflammation in Genital Epithelia upon Exposure to Pharmaceutical Excipients and Candidate Microbicides. *Antimicrobial Agents and Chemotherapy* 54(12), 5105–5114 [Read more](#)

Further Applications

ATP determination - Apoptosis - Calcium monitoring - Chemotaxis - Cytokine analysis - ChromaGlo™ assays - DNA quantification - FRET - GPCRs / 7TM receptors - Ion channel studies - Kinase assays - Membrane potential - Nucleic acid quantification - Proteases - Protein concentration - Protein-protein interactions - Receptor binding studies - SNP determination