

Reporter gene assays

Dual Luciferase Reporter Gene Assay: Goloudina et al. (2012). Wip1 promotes RUNX2-dependent apoptosis in p53-negative tumors and protects normal tissues during treatment with anticancer agents. *PNAS* 109 (2) 68-75 [Read more](#)

ATP determination

ATP assay in platelets: Mushtaq et al. (2001). Critical Role for CD38-mediated Ca²⁺ Signaling in Thrombin-induced Procoagulant Activity of Mouse Platelets and Hemostasis. *The Journal of Biological Chemistry* 286, 12952-12958 [Read more](#)

Reactive Oxygen Species (ROS)

Reactive Oxygen Species in Tobacco seedlings: Dokládal et al. (2012). Physiological and proteomic approaches to evaluate the role of sterol binding in elicitor-induced resistance. *Journal of Experimental Botany* 63 (5), 2203-2215 [Read more](#)

H2O2 chemiluminescence in Arabidopsis: Dubreuil-Maurizi et al. (2011). Glutathione Deficiency of the Arabidopsis Mutant pad2-1 Affects Oxidative Stress-Related Events, Defense Gene Expression, and the Hypersensitive Response. *Plant Physiology* 157 (4), 2000-2012 [Read more](#)

Calcium monitoring

Aequorin Assay in Yeast Cells: Csutora et al. (2005). Inhibition of phosphoglucomutase activity by lithium alters cellular calcium homeostasis and signaling in *Saccharomyces cerevisiae*. *AJP Cellular Physiology* 289, 58-67 [Read more](#)

Further applications

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Luminescent bacteria - Water toxicity - Enzyme activity - Luminescent immuno assay (LIA) - Hygiene monitoring - Cell viability - DNA probe assay