

Calcium monitoring

Calcium monitoring in *Arabidopsis* using aequorin: Mark Kwaaitaal et al. (2011). Iontropic glutamate receptor (iGluR)-like channels mediate MAMP-induced calcium influx in *Arabidopsis thaliana*. *Biochemical Journal* 440, 355–365 [Read more](#)

Reporter Gene Assays

Luciferase Reporter Assays in *Ostreococcus tauri*: Djouani-Tahri et al. (2011). An Eukaryotic LOV-histidine Kinase With Circadian Clock Function in the Picoalga *Ostreococcus*. *The Plant Journal* 65, 578-588 [Read more](#)

Dual-Luciferase assay in *Arabidopsis*: Liu et al. (2010). bZIP28 and NF-Y Transcription Factors are Activated by ER Stress and Assemble into a Transcriptional Complex to Regulate Stress Response Genes in *Arabidopsis*. *The Plant Cell* 22, 782-796 [Read more](#)

Dual luciferase reporter gene assay (DLR®): Tan et al. (2012). Integration of Regulatory Networks by NKX3-1 Promotes Androgen-Dependent Prostate Cancer Survival. *Molecular and Cellular Biology* 32, 399-414 [Read more](#)

Immunoassay

LIPS (luciferase immunoprecipitation systems) Assay: Burbelo et al. (2010). Rapid, Simple, Quantitative, and Highly Sensitive Antibody Detection for Lyme Disease. *Clinical and Vaccine Immunology* 17, 904-909 [Read more](#)

ATP determination

ADP and ATP assays: Belleannée et al.(2010). Role of purinergic signaling pathways in V-ATPase recruitment to apical membrane of acidifying epididymal clear cells. *AJP Cellular Physiology* 298, 817-830 [Read more](#)

Enzyme kinetics

Neuramidase Assay: Smee et al. (2010). Effects of the Combination of Favipiravir (T-705) and Oseltamivir on Influenza A Virus Infections in Mice. *Antimicrobial Agents and Chemotherapy* 54 (1), 126–133 [Read more](#)

CALUX® Assays

CALUX® Assays: Zhang et al. (2009). Bioanalytical characterization of dioxin-like activity in sewage sludge from Beijing, China. *Chemosphere* 75, 649-653 [Read more](#)

Cellular Chemiluminescence

ROS assay: Smith et al.(2009). The antiproliferative cytostatic effects of a self-activating viridin prodrug. *Molecular Cancer Therapy* 8, 1666 [Read more](#)

Cytotoxicity

CytoTox-Glo assay: Haid et al.(2009). Low pH-dependent Hepatitis C Virus Membrane Fusion Depends on E2 Integrity, Target Lipid Composition, and Density of Virus Particles. *The Journal of Biological Chemistry*, 284, 17657-17667 [Read more](#)

Further applications

Caspase assays - Cell proliferation - DNA probe assays - GPCRs / 7TM receptors - Kinase assays - Proteases

For detailed application information and selection of the best suited instrument please have a look to the [Centro Selection Guide](#).