



Expert UK-based CRO offering customised bioassay development, pharmacological profiling and compound screening

Welcome to the latest edition of our newsletter

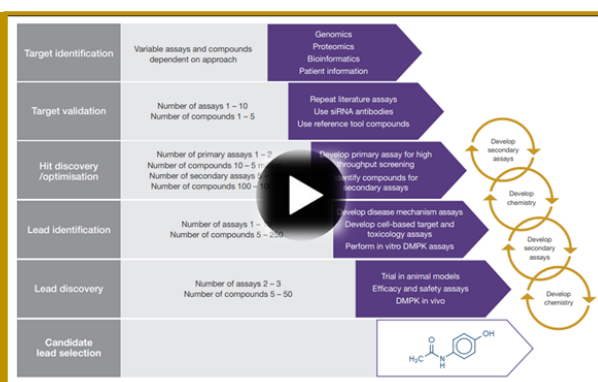
The past quarter at Aurelia Bioscience has been innovative and stimulating as always. In this newsletter, we bring to you some interesting updates like new videos, a new team member and a job vacancy for our expanding team!

Vlogs

We are excited to share with you our first three vlogs of a six-vlog series on 'How to develop effective in vitro assays for early drug discovery'. These vlogs guide our viewers to design and develop reproducible, consistent, and fit-for-purpose assays to drive forward their drug discovery research.

1. [The Importance of Bioassays in Early Drug Discovery](#)

Bioassays are essential tools for pre-clinical research. By revealing whether a compound or biologic has the desired effect on your biological target, bioassays can drive decision-making throughout the drug discovery process. In our first [vlog](#), we have discussed some important points that need to be kept in mind whilst developing bioassays for reliable compound progression.



2. [Key Principles of Assay Design for Project Success](#)

How does the compound interact with the target?
How does it affect the disease mechanism?

Assay design is a major factor underpinning the success of any drug discovery programme. A well-designed assay should be one in which every step in the protocol has been evaluated. In our second [vlog](#), we have shared some key principles of bioassay design that can help you construct the best bioassay for your needs.

3. [A Practical Guide to Building a Successful Assay](#)

When constructing an assay, there are several technical and practical steps needed to ensure it is robust, reliable and fit-for-purpose. In this [vlog](#), we have outlined the main components to help optimise your finished assay.

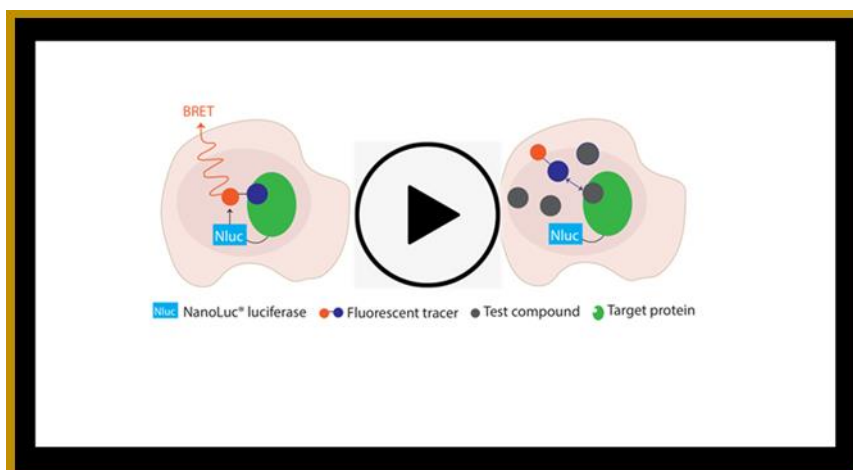
Target-based Drug Discovery

Phenotype-based Drug Discovery

For further insights into bioassay design and development, download our [free e-book](#). Subscribe to our [YouTube channel](#) for more vlogs and other videos.

Drug Discovery World (DDW) video

DDW has published our [video on Kinase Compound Profiling](#) using [Promega's](#) NanoBRET technology on their website.



We have implemented intracellular kinase assays designed to study the interaction of compounds on kinase and HDAC targets in intact living cells. NanoBRET Target Engagement Assay measures compound binding at specific target kinases and HDACs. This quantitative analysis can be performed in cultured cells via energy transfer between a 19-kDa luciferase (NanoLuc, Nluc)-tagged target protein and a cell-permeable fluorescent energy transfer probe (tracer) introduced to the assay medium. [Follow the link to learn more about our kinase profiling services.](#)

Newest addition to the team: Dr. Robert Workman, Senior Research Scientist



Robert has a background in prion diseases, phage display, immunocytochemistry, drug discovery and experience working with other CROs. He loves solving scientific problems, designing experiments and most of all, being in the lab. He hopes that the projects he works on in the early stages turn into something meaningful down the line. Doing his bit to ultimately improve the lives of patients is what inspired him to be a scientist in the first place. At Aurelia Bioscience, Robert will be involved in developing bioassays and screening compounds for various client projects. He is excited about the different techniques and technologies that he will be working on, especially WES/JESS.

In his personal time, Robert is very passionate about hiking, baking, brewing, reading science fiction and has recently gotten into coding and designing games as well...one talented guy for sure! "I am thrilled to be a part of a wonderful team...lots to look forward to," says Robert, with a box of cupcakes that he has brought for everyone on his first day at work!

Vacancy: Senior Assay Development Scientist



We are looking for an experienced senior bioassay development scientist to join our expanding team in Nottingham. If you think you are the one for us, [send us your CV!](#)

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