



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

Welcome to the latest edition of our newsletter

As we bid goodbye to another successful year, we would like to thank all our clients for a scientifically challenging 2018. Our team is eagerly looking forward to all the interesting opportunities lying ahead of us. From new service launches to stimulating client and in-house R&D projects, to exciting meetings and exhibitions around the world, there is a lot in store for Aurelia Bioscience in 2019!

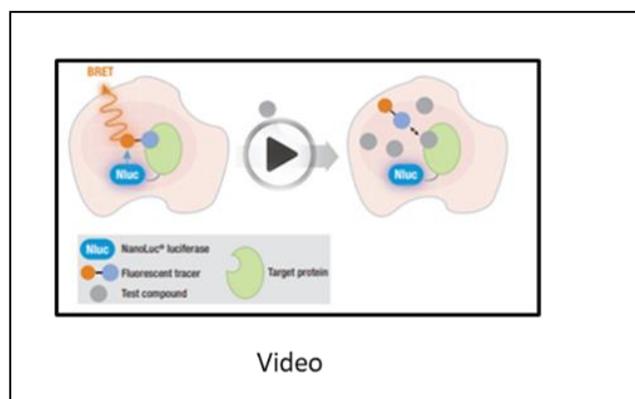
Re-energise your kinase drug discovery!

We are excited to offer **kinase compound profiling services** using **Target Engagement (TE) Intracellular Kinase Assays**. Using Promega's NanoBRET™ technology, we have implemented intracellular kinase assays designed to study the interaction of compounds on kinase targets in intact cells. This technique is compatible with analysis under equilibrium and non-equilibrium conditions, suitable for a wide range of throughput requirements and a good predictor of cellular potency: <http://www.aureliabio.com/compound-profiling/compound-profiling-kinase-assays/>

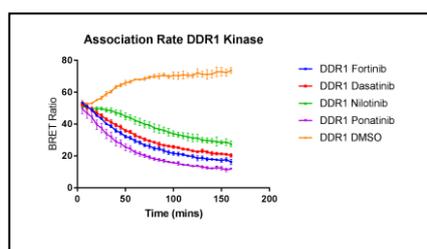
Some examples of kinases in our current panel:

Video: <http://bit.ly/2CUjP5e>

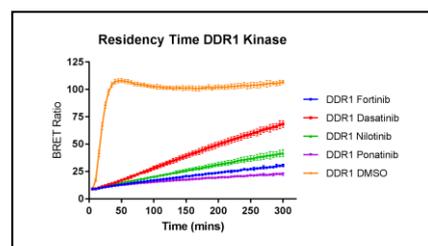
| Kinase | Family | Alias |
|--------|----------|---|
| ABL1 | TK | ABL |
| AURKA | Other | AurA, STK7, STK15 |
| AURKB | Other | AurB, STK12 |
| AURKC | Other | AurC, STK13 |
| DDR1 | RTK | PTK3, DDR, NTRK4, trKE |
| DDR2 | RTK | TKT, NTRKR3, TYRO10 |
| EPHA1 | RTK | EPHT, MGC163163 |
| EPHA8 | RTK | EEK, EK3, HEK3 |
| FGFR1 | RTK | HBGFR, KAL2, FLT2 |
| FGFR2 | RTK | KGFR, BEK |
| FGFR3 | RTK | CEK2, ACH, JTK4 |
| FGR | TK | SRC2, c-fgr, c-src2, p55-Fgr, p55c-fgr, p58-Fgr, p58c-fgr |
| IRAK3 | TKL | IRAK-M |
| IRAK4 | TKL | REN64 |
| JAK3 | TK | JAKL |
| JNK3 | CMGC | MAPK10, SAPKbeta PRKM10 |
| LCK | TK | YT16 |
| LYN | TK | JTK8 |
| NUAK1 | CAMK | ARK5, KIAA0537 |
| NUAK-2 | CAMK | NF1-like kinase 2, SNARK |
| RIK2 | Atypical | |
| RIPK2 | TKL | RIP2, GIG30, CARDIAK, RICK, CCK |
| SIK1 | CAMK | SIK, MSK |
| SIK3 | CAMK | QSK, L19, KIAA0999 |
| SRC | TK | SRC1, ASV |



Full list of all available kinases: <http://bit.ly/2CNEVCm>



A



B

By studying both the association (A) and dissociation (B) rate of compounds from each of the target kinase it is possible to include kinetic binding parameter evaluation during compound SAR development.

If you are looking to screen your compounds against specific kinase targets, then get in touch with our team: info@aureliabio.com

Interested in label free technology?

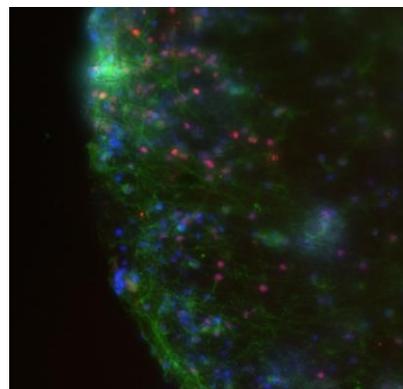
Label-free technology is independent of signaling pathway, non-invasive and highly suitable for measuring responses in native or physiologically relevant systems without the need for over-expression or amplification through genetic modifications. Follow the link to read Aurelia Bioscience's views on 'Innovations in Label- Free Detection' in a very interesting article by Biocompare: <http://bit.ly/2B4sltu>

Are you interested in label free technology? *Get in touch with our team to find out more: info@aureliabio.com*

3D cell culture

Our Chief Scientific Officer, Gary Allenby, gave a talk on '3-D electro spun micro- scaffolding technology' at the ACTC conference held in Cambridge in December. Here is an excerpt from his talk:

"We have developed a three-dimensional micro-scaffold from electro spun material that can be used in conjunction with well plates for higher throughput screening. We have re-engineered electro spun material to form micro-scaffold islands on to which we seed, grow and differentiate cells prior to performing more conventional assays in well plates. Cells grow on, around and into the material, forming a micro-island of adherent cells that are effectively 'in solution'. The incorporation of iron nano-particles into the fibres during manufacture results in micro-scaffolds that can be physically manipulated using magnetism. We can therefore maintain islands of cells in media within the incubator in a tube, moving these around using magnetism." *Get in touch with Gary to learn more about our work with 3D technology: info@aureliabio.com*



Upcoming events

Catch us at the following events this quarter:

- SMI: 3D Cell Culture: London, UK ● February 22-23
- Integrin Targeted Drug Discovery: London, UK ● March 28
- ELRIG: Research and Innovation 2019: Cambridge, UK ● April 2-3
- SCI: Protein-Protein Interactions 2019: Leeds, UK ● April 4-5
- Drug Discovery Chemistry: 10th Annual Kinase Inhibitor Chemistry Conference: San Diego, USA ● April 9-10

Have you read our latest blogs?

- GPCRs and their significance in the pharmaceutical world: <http://bit.ly/2CQWpxJ>
- Synergy between CROs and their client partners: <http://bit.ly/2CQLG6o>

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