



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

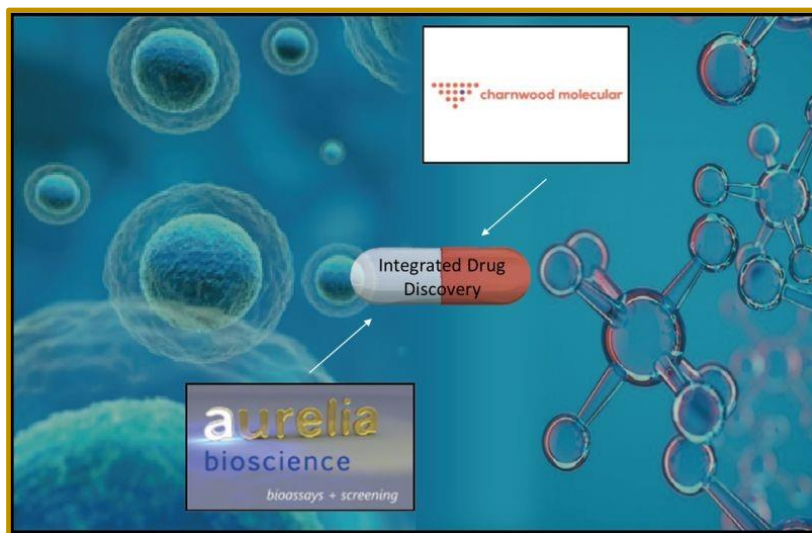
## Welcome to the latest edition of our newsletter

Here are some of the latest developments that have taken place in the last few months:

### Charnwood Group Acquires Aurelia Bioscience

[Aurelia Bioscience](#) was acquired by one of its collaborators- [Charnwood Molecular](#), a chemistry CRO in June 2021. To facilitate this agreement, Aurelia Bioscience, now a part of the Charnwood Group, has received investment from Synova, one of Europe's most innovative private equity & growth capital investment firm.

[Follow the link for the full press release.](#)



### 10 Year Anniversary

On our 10<sup>th</sup> anniversary, we would like to share with you all a short video capturing the very essence of our being, our commitment towards our clients, and most importantly, our passion for drug discovery. We would also like to take this opportunity to thank all our staff, clients, collaborators and well-wishers for contributing to our success.

[Follow the link to the video.](#)



## Vlogs

Are you interesting in developing effective in vitro assays for early drug discovery? Here are some vlogs on designing and developing reproducible, consistent, and fit-for-purpose assays to drive forward your drug discovery research.

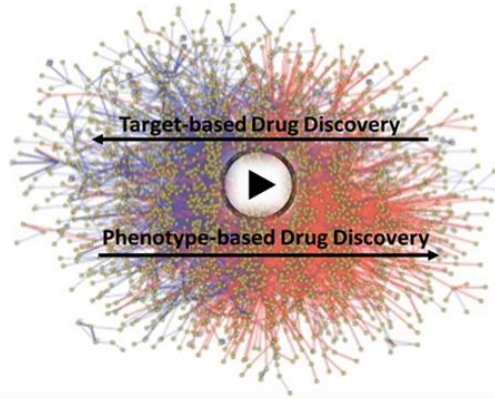
### The Importance of Bioassays in Early Drug Discovery

Target identification	Variable assays and compounds dependent on approach	Genomics Proteomics Bioinformatics Patient information
Target validation	Number of assays 1 – 10 Number of compounds 1 – 5	Repeat literature assays Use siRNA antibodies Use reference tool compounds
Hit discovery /optimisation	Number of primary assays 1 – 10 Number of compounds 10 – 50 Number of secondary assays 1 – 10 Number of compounds 100 – 500	Develop primary assay for high throughput screening Verify compounds for secondary assays
Lead identification	Number of assays 1 – 10 Number of compounds 5 – 20	Develop disease mechanism assays Develop cell-based target and secondary assays Perform in vitro DMPK assays
Lead discovery	Number of assays 2 – 3 Number of compounds 5 – 50	Test in animal models Efficacy and safety assays DMPK in vivo
Candidate lead selection		<chem>CC(=O)Nc1ccc(O)cc1</chem>

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

### Key Principles of Assay Design for Project Success

## A Practical Guide to Building a Successful Assay



- Setting up sufficient control wells
- Using an appropriate pharmacological reference or standard compound
- Applying key statistical parameters

Is your assay fit-for-purpose?

FAQs

What dilutions should you use for a dose-response experiment?

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

## Newest addition to the team: Dr. Patrick McIntyre, Senior Research Biologist



Patrick is the latest member of the Aurelia Bioscience family. After completing his MChem, Patrick went on to do a PhD in drug discovery / structural biology. In his industry career so far, he has worked on many different technologies - from SPR to CETSA/Western blotting.

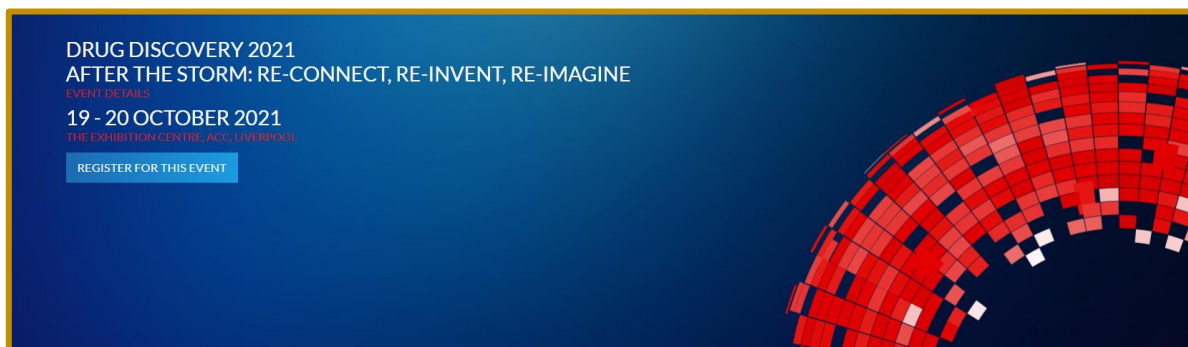
In his GCSE-year Chemistry class, Patrick made the connection between a carboxylic acid functional group (e.g., as found in vinegar) being an oxidised form of an alcohol functional group (e.g., as found in wine). This real-life example of textbook chemistry inspired him to

continue science at A-level and beyond. He loves creative problem solving to help overcome difficult intellectual challenges and working on cutting edge technologies. At Aurelia Bioscience, Patrick's role revolves around assay development, assay transfer and compound screening for clients. Outside of work, he is a keen woodworker, homebrewer, gardener, hiker and footballer.

"I'm delighted to join Aurelia at such an exciting time for the company. The work environment seems the best of anywhere I've experienced and I look forward to seeing what sort of great science can be achieved in such a pleasant and supportive atmosphere," says Patrick with a big smile on his face.

## See you at ELRIG Drug Discovery 2021

We look forward to seeing you at booth #B20 at [ELRIG Drug Discovery](#) 2021 in Liverpool on 19<sup>th</sup> and 20<sup>th</sup> October 2021. Come by our booth and have a chat with us about our contract research services!



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