

Operational update and conference call – September quarter

PERTH, Australia, 25th October 2017: Phylogica Limited (ASX:PYC) (**Phylogica** or the **Company**), developer of a leading intracellular drug delivery platform technology, is pleased to update shareholders on progress made during the September quarter in validating the platform technology and progressing specific cargoes. Progress highlights include:

- Identification of additional Functional Penetrating Peptides (FPP) from the company's Phylomer libraries with greater potency than our previous leading candidate from our platform delivery technology (designated as FPP01.1 in the diagram below);

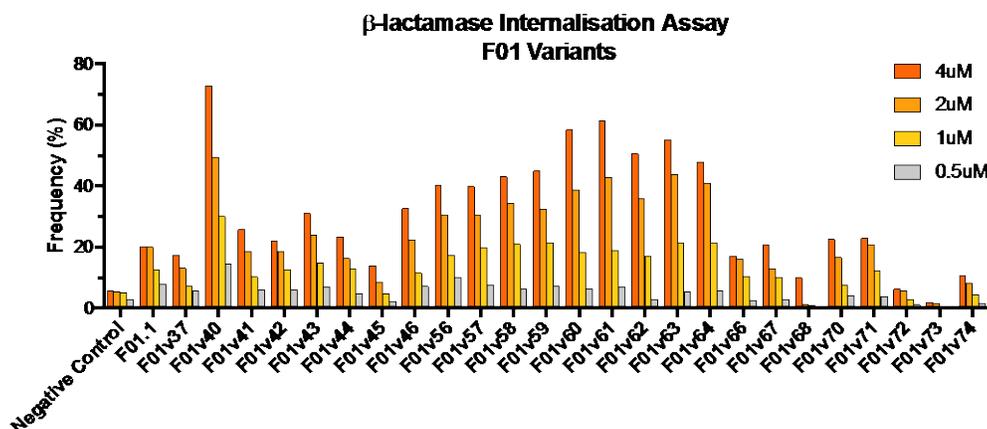


Figure 1: The performance of variants of our previous lead FPP, designated as F01.1 at a range of different concentrations (represented by different colour codes) ranging from 0.5uM (lowest dose) to 4uM (highest dose). Measured here is the ability of these FPPs to deliver a cargo, the enzyme beta-lactamase inside the cell (measured as a percentage in the vertical plane) against the control. The higher the bar in the chart, the greater the ability of the FPP to reach the inside of the cell.

- Successful optimisation of the drug like properties of our FPPs - providing not only improved performance of our leading FPP candidates, but also proof of concept that these optimisation techniques are able to be applied to future generations of FPPs;
- Evaluation of additional target cells (in liver, muscle and T-cells) to expand the potential applications of the delivery technology to a wider range of cargoes;

- Further progression of our Stat5 oncology program identifying several proprietary Phylomer inhibitors of STAT5 (iSTATs), an important drug target in blood cancers such as chronic myelogenous leukaemia, with suitable properties across a range of assays. These iSTATs have now been confirmed to bind their target STAT5; and
- In-house operational improvements including automation of assays required to screen Phylogica's libraries for specific FPPs (for a particular cargo or cell line) enabling a more efficient evaluation of our ability to deliver future partners' cargoes.
- Granting of a US patent covering the identification of Phylomers with the ability to enter specific endothelial cells in the brain, demonstrating:
 - o Phylogica's capability to develop and deliver bespoke screening services for pharmaceutical companies.
 - o Value of Phylogica's Phylomer library which contains cell specific peptides that can target high value cells.

Relevance of Progress

The encouraging progress made in the areas of identifying and optimising FPPs is particularly important given that we will progress to ***in vivo* assessment of our delivery technology for a range of cargoes in the first half of 2018.**

Having identified more potent FPPs, we will now evaluate each FPP in a functional *in vitro* assay before selecting the FPPs that will be conjugated to each of the cargoes evaluated in the *in vivo* models.

These FPP-selection activities and preparation of the animal models for *in vivo* experiments represent the company's focus for the coming quarter (Q4 2017). Based on the results described above, the company expects to have multiple FPPs performing at 40-fold more efficient than the current gold standard delivery approach (Tat) for the critical *in vivo* evaluation of the company's core delivery technology in early 2018.

The operational improvements allow us to respond more efficiently to specific requests from future partners to target particular cell types within an organ and thereby provide a more attractive partnering skill set to complement our *in vivo* evaluation of the FPP delivery technology.

Phylogica's lead in-house proprietary Myc-inhibitor will be one of the cargoes evaluated in the upcoming *in vivo* experiments.

Conference call details

Shareholders are invited to join a conference being held at **11.30am AEST / 8.30am AWST on Thursday October 26**, hosted by CEO, Stephanie Unwin and CSO, Dr Robert Hayes, to discuss activity during the quarter, followed by Q&A with participants.

To pre-register for the call, with diary note automatically sent to your calendar, [click here](#).

Conference code: 516 836

Dial in numbers:

Australia Toll Free:	1 800 558 698
Australia (Alternate)	02 9007 3187
New Zealand Toll Free:	0800 453 055
Hong Kong:	800 966 806
Singapore:	800 101 2785
United Kingdom:	0800 051 8245
United States:	(855) 881 1339

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About Phylogica

Phylogica Limited (ASX: PYC) is a biotech company focused on commercialising its intracellular drug delivery platform and panning its Phylomer libraries to identify drug cargoes for development against a wide range of disease targets. Phylogica controls access to the world's most structurally diverse source of peptides called Phylomers, which have the ability to act as effective drug delivery agents and drug cargoes, penetrating cell membranes to reach previously 'undruggable' targets across a range of disease types. Phylogica's platform of proprietary cell penetration peptides is showing promise in delivering a diverse range of drug cargoes into cells, and the company's lead asset program has identified a phylomer which can inhibit Myc, a protein responsible for the regulation of cancer cell growth. The company has had collaborations with several pharmaceutical companies including Roche, Medimmune, Pfizer, Janssen and is currently working with Genentech.

Forward looking statements

Any forward-looking statements in this ASX announcement have been prepared on the basis of a number of assumptions which may prove incorrect and the current intentions, plans, expectations and beliefs about future events are subject to risks, uncertainties and other factors, many of which are outside Phylogica's control. Important factors that could cause actual results to differ materially from assumptions or expectations expressed or implied in this ASX announcement include known and unknown risks. Because actual results could differ materially to assumptions made and Phylogica's current intentions, plans, expectations and beliefs about the future, you are urged to view all forward-looking statements contained in this ASX announcement with caution. Phylogica undertakes no obligation to publicly update any forward-looking statement whether as a result of new information, future events or otherwise.

This ASX announcement should not be relied on as a recommendation or forecast by Phylogica. Nothing in this ASX announcement should be construed as either an offer to sell or a solicitation of an offer to buy or sell shares in any jurisdiction.

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