

## **CLINICALLY RELEVANT TUMOUR-BEARING ANIMAL MODEL TO EVALUATE CHEMOTHERAPY EFFICACY AND TOXICITY**

<sup>1</sup>Discipline of Physiology, School of Biomedicine, The University of Adelaide, Level 2 Helen Mayo South, North Terrace, Adelaide, SA 5000, Australia. <sup>2</sup>Supportive Oncology Research Group, Precision Cancer Medicine, The South Australian Health and Medical Research Institute, Adelaide, Australia.

- of cyclical administration of chemotherapy<sup>1</sup>.



## Ifeoma J. Dikeocha<sup>1\*</sup>, Emma H. Bateman<sup>1</sup>, Hannah R. Wardil<sup>12</sup>, Joanne M. Bowen<sup>1</sup>



3 cycles of 0.70 - 0.75 mg/kg MTX was selected as optimal schedule that adequately balanced efficacy and toxicity.

Conclusion

- Rev Clin Oncol 20, 527–542 (2023).
- maintaining therapy efficacy. Cell Death Dis. 2023 May 23;14(5):338.





 Cyclical chemotherapy can be administered to rats enabling both efficacy and toxicity responses to be evaluated simultaneously. This model offers a platform to investigate supportive care interventions to improve patient outcomes.

L. Lustberg, M.B., Kuderer, N.M., Desai, A. et al. Mitigating long-term and delayed adverse events associated with cancer treatment: implications for survivorship. Nat

. Wardill HR, Da Silva Ferreira AR, Kumar H, Bateman EH, Cross CB, Bowen JM, Havinga R, Harmsen HJM, Knol J, Dorresteijn B, van Dijk M, van Bergenhenegouwen. Tissing WJE. Whey-based diet containing medium chain triglycerides modulates the gut microbiota and protects the intestinal mucosa from chemotherapy while







The Supportive Oncology Research Group