Drug overcomes chemotherapy resistance in ovarian cancer
16 April 2020

“Ovarian clear cell carcinoma is associated with poor prognosis and resistance to chemotherapy,” he said.

“The key finding from our study is that low levels of 2-deoxy-D-glucose markedly improved the efficacy of carboplatin against preclinical models of this ovarian cancer.

“Our pre-clinical work used cells taken from patient tumours, so we were very encouraged that we could use such a low dose of 2-deoxy-D-glucose to overcome resistance to chemotherapy in this cancer and stop tumour growth.

“This drug has been trialled previously in other cancers, but we were able to use a 10-fold lower dose than previously reported so that it's safer for patients and is less likely to cause side-effects.”

The team is hoping to begin trialling the treatment combination in patients within the next 12 months, following the announcement they had received an award to progress the ovarian cancer research.

The peak, national gynaecological cancer clinical trials organisation for Australia and New Zealand, ANZGOG, awarded the team its Fund for New Research 2019—Judith Meschke Memorial Grant to study whether "modulation of metabolism can improve the effectiveness of chemotherapy for clear cell ovarian cancer”.

Professor Hooper gratefully acknowledged the generosity of the ANZGOG funding from a bequest of Judith Meschke.

“The involvement in the project of so many talented people, scientists and clinicians, is in the spirit of the creative process fostered by the diverse and talented Australian arts community exemplified by the achievements of Ms Meschke,” he said.

More information: Tashbib Khan et al, Disruption
DOI: 10.3390/cancers12040869

Provided by Translational Research Institute

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.