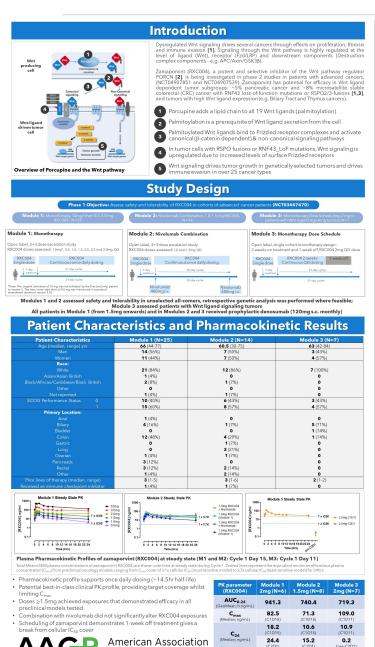
## Final results of the first-in-human study of the porcupine (PORCN) inhibitor zamaporvint (RXC004) in patients with advanced solid tumors Natalie Cook! Sarah Rlandon? Invested to 2 D. In 2 D. I



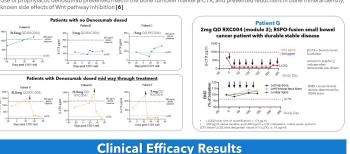
Natalie Cook<sup>1</sup>, Sarah Blagden<sup>2</sup>, Juanita Lopez<sup>3</sup>, Debashis Sarker<sup>4</sup>, Alastair Greystoke<sup>5</sup>, Noor MD Haris<sup>5</sup>, Farasat Kazmi<sup>2</sup>, Kaiser Anam<sup>4</sup>, Ana Ortego Franco<sup>1</sup>, Rille Pihlak<sup>1</sup>, Louise Goodwin<sup>6</sup>, David Wilson<sup>6</sup>, Caroline Phillips<sup>6</sup>, Jane Robertson<sup>6</sup>, Helen Timmis<sup>6</sup>, Craig Tilston<sup>6</sup>, Simon A. Woodcock<sup>6</sup>, and Ruth Plummer<sup>5</sup>

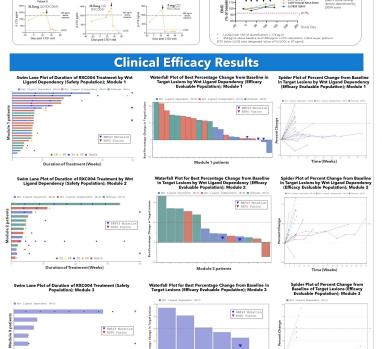
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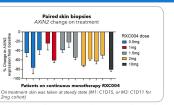
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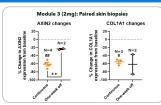
## **Clinical Safety Results** Safety of RXC004 is similar as monotherapy and in combination with nivolumab Recommended Phase 2 dose (RP2D) of RXC004 is 2mg in monotherapy [4], and 1.5mg in combination with anti-PD-1 [5] · Both RXC004 2.0mg monotherapy, and 1.5mg in combination with nivolumab were well tolerated In Module 1, there were no DLTs in the lowest 3 dose cohorts (0.5, 1.0 and 1.5mg); 4 patients had a DLT at higher dose cohorts (1 patient at 2mg with pancreatitis, 2 patients at 3mg with colitis and enteritis, and 1 patient at 10mg with diarrhoea) . In Module 2, there was 1 patient with a DLT in the 1.5mg cohort (DILI) At the monotherapy RP2D (2mg) in Module 1, 3 patients (50%) had dose interruptions and 1 patient (17%) had a dose reduction, whilst in Module 3, 2 patients (29%) had dose interruptions and there were no dose reductions . At the anti-PD-1 combination RP2D (1.5mg) in Module 2, 6 patients (75%) had dose interruptions and 3 patients (38%) had dose reductions Use of prophylactic denosumab prevented rises in the bone turnover marker β-CTX, and prevented reductions in bone mineral density









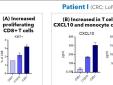


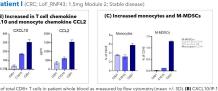
- Zamaporvint demonstrates robust Wnt pathway inhibition (decrease in AXIN2 expression) in paired skir biopsies at all continuous dose levels tested
- · Whilst Module 3 patients (2mg) exhibit robust Wnt pathway inhibition following 11 days of continuous zamaporvint treatment, after 1 week off treatment Wnt signaling returns to near baseline, consistent with the break in cellular IC50 cover measured in PK profiles





· In RSPO-fusion patients, zamaporvint monotherapy substantially decreases the circulating tumour DNA (ctDNA) levels of co-occurring MAPK mutants (BRAF and KRAS), genes that frequently co-occur with RNF43/RSPO [3]





CCL2 (MCP-1) protein levels in patient plasma as measured by Luminex (30-plex assay) and presented in pg/ml (mean +/- SD), (C) Percentage of monocytes (CD14+ and monocytic myeloid derived suppressor cells (M-MDSCs, CD14+CD33+CD15-CD11b+HLA-DR-) out of total CD45+ viable cells in patient blood, as measured b

· Consistent with pre-clinical studies [2], treatment of zamaporvint in combination with anti-PD-1 increases levels of circulating immune cells (e.g. CD8+ T-cells, monocytes & M-MDSCs) and chemokines (e.g. CXCL10 & CCL2)

## Conclusions

- · In patients with advanced solid tumors, zamaporvint (RXC004) was safe and well tolerated at doses up to and including the RP2Ds of 2mg QD as monotherapy and 1.5mg QD in combination with anti-PD-1
- Zamaporvint's PK profile indicates potential best-in-class, suitable for once-daily oral dosing that demonstrates robust target engagement
- Zamaporvint demonstrated differential disease control in Wnt-ligand signaling tumors:
  - In patients with Wnt-ligand signaling tumors: In Module 1, 5/8 patients (63%) had a best overall response (BOR) of Stable Disease (SD); in Module 2, 2/4 patients (50%) had a BOR of SD; whilst in Module 3, 2/6 (33%) had a BOR of SD
  - . Across the study, out of the 7 patients with RNF43/RSPO genetic aberrations, 6 (86%) had a BOR of SD
- · Intermittent zamaporvint dosing was well tolerated with no apparent detrimental impact on efficacy
- · Prophylactic denosumab prevented increases in bone turnover biomarkers and successfully prevented loss of bone mineral density (BMD) and any bone related adverse events at or below the RP2Ds
- Two phase 2 studies assessing zamaporvint in prospectively selected Wnt ligand dependent GI cancers as a monotherapy or in combination with anti-PD-1 are ongoing PORCUPINE (NCT04907539) - Genetically-selected RNF43/RSPO aberrant Microsatellite Stable (MSS) metastatic Colorecta

  - PORCUPINE2 (NCT04907851) All comer Biliary Tract Cancer or RNF43\_LoF mutant Pancreatic Cancer

## References

[1] Flanagan et.al. (2022), Pharmacology & Therapeutics; [2] Phillips et.al. (2022), Cancer Research Communications; [3] Gook et.al. (2023), Annals Cook et.al. (2021), Annals of Oncology; [5] Cook et.al. (2022), Journal for ImmunoTherapy of Cancer; [6] Rodon et.al. (2021), British Journal of Cancer

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