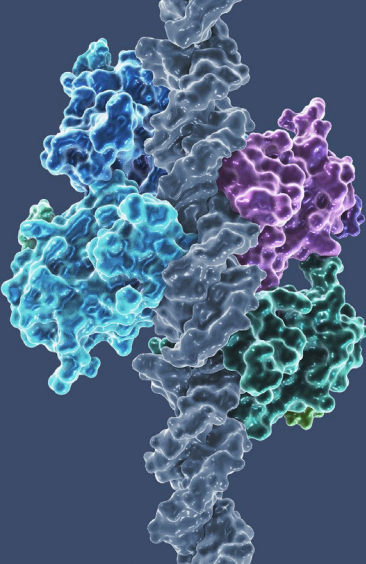


PYNNACLE Phase 2 Trial of Rezatapopt (PC14586) in Solid Tumours with a *TP53* Y220C Mutation

FPN: 691TiP

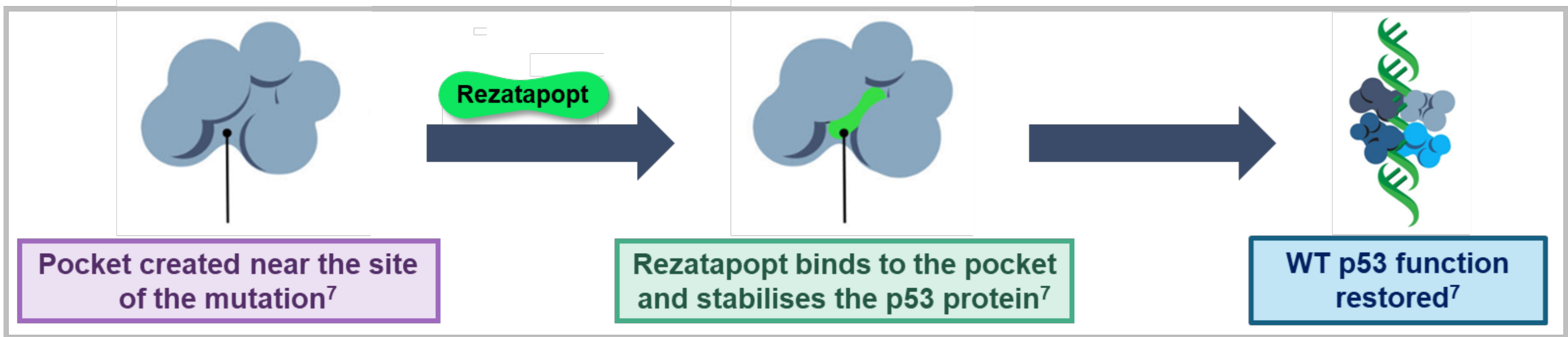
Alison M Schram,¹ Gilberto De Lima Lopes,² Anthony El-Khoueiry,³ Elisa Fontana,⁴ Thomas Karasic,⁵ Shivaani Kummar,⁶ Patricia LoRusso,⁷ Vanesa Gregorc,⁸ Michael Millward,⁹ Santiago Ponce Aix,¹⁰ Debra L Richardson,¹¹ Desamparados Roda,¹² Alexander Spira,¹³ David Shao Peng Tan,^{14,15} John Thompson,¹⁶ Dipesh Uprety,¹⁷ Marc Fellous,¹⁸ Yajuan G Qin,¹⁸ Ecaterina E Dumbrava¹⁹

¹Memorial Sloan Kettering Cancer Center, New York City, NY, USA; ²Sylvester Comprehensive Cancer Center, Miami, FL, USA; ³USC Norris Comprehensive Cancer Center, Los Angeles, CA, USA; ⁴Sarah Cannon Research Institute UK, London, UK; ⁵Abramson Cancer Center of The University of Pennsylvania, Philadelphia, PA, USA; ⁶Knight Cancer Institute, Oregon Health and Science University, Portland, OR, USA; ⁷Yale Cancer Center, New Haven, CT, USA; ⁸Fondazione del Piemonte per l'Oncologia (IRCCS), Turin, Italy; ⁹Linear Clinical Research Ltd, Perth, Australia; ¹⁰Institut Gustave Roussy, Villejuif, France; ¹¹Stephenson Cancer Center, University of Oklahoma Health Sciences Center/ Sarah Cannon Research Institute, Oklahoma City, OK, USA; ¹²Hospital Clinico Universitario de Valencia, Valencia, Spain; ¹³Virginia Cancer Specialists – VCS USOR, Fairfax, VA, USA; ¹⁴National University of Singapore (NUS) Centre for Cancer Research (N2CR), Yong Loo Lin School of Medicine, National University of Singapore, Singapore; ¹⁵Department of Haematology-Oncology, National University Cancer Institute, National University Hospital, Singapore; ¹⁶Fred Hutchinson Cancer Center, Seattle, WA, USA; ¹⁷Karmanos Cancer Institute, Detroit, MI, USA; ¹⁸PMV Pharmaceuticals, Inc., Princeton, NJ, USA; ¹⁹The University of Texas MD Anderson Cancer Center, Houston, TX, USA



BACKGROUND

- TP53*, encoding p53, is the most frequently mutated gene across all cancers¹
- TP53* mutations result in loss of p53 tumour suppressor function and tumour progression²
- Most *TP53* mutations occur in the central DNA-binding domain, with ten referred to as 'hot-spot' mutations, accounting for ~30% of *TP53* mutations observed in human cancer^{1,3}
- TP53* Y220C is a key hot-spot *TP53* missense mutation that destabilises p53 and is present in ~1% of all solid tumours^{4,5}
- Reactivation of WT p53 in p53-mutated tumours may be an effective therapeutic strategy; however, only a limited number of small molecules targeting mutated p53 have reached clinical trials^{2,6}
- Rezatapopt, an investigational agent also known as PC14586, is a first-in-class, selective, p53 reactivator specific to the *TP53* Y220C mutation that restores WT p53 conformation and function by binding to a pocket created by the tyrosine-to-cysteine substitution in the p53 protein⁷
 - Once the mutated p53 Y220C protein is stabilised in its WT conformation, reactivation of p53 transcriptional activity occurs^{7,8}
 - p53 tumour suppressor functions are restored, causing cell-cycle inhibition and apoptosis in tumour cells harbouring the *TP53* Y220C mutation⁹



- PYNNACLE (NCT04585750) is a Phase 1/2 clinical study investigating rezatapopt in patients with solid tumours harbouring a *TP53* Y220C mutation¹⁰
 - In Phase 1, rezatapopt showed single-agent efficacy and a favourable safety profile in heavily pre-treated patients¹¹
- Here we describe the study design for the ongoing PYNNACLE Phase 2 study assessing rezatapopt 2000 mg QD with food in patients with locally advanced or metastatic solid tumours harbouring a *TP53* Y220C mutation and *KRAS* WT

OVERVIEW OF THE PYNNACLE STUDY

- The PYNNACLE study aims to assess the efficacy, safety, tolerability, PK, and PD of rezatapopt in patients with locally advanced or metastatic solid tumours harbouring a *TP53* Y220C mutation^{10,12}

Overview of the PYNNACLE study assessing rezatapopt in solid tumours with a *TP53* Y220C mutation¹²

PYNNACLE (PMV-586-101, NCT04585750)			
Participants ^{10,12}	Phase 1 ^{10,12}	Phase 1b ^{10,12}	Phase 2 ^{10,12}
≥12 years of age with locally advanced or metastatic solid tumours with a <i>TP53</i> Y220C mutation. Previously treated (or ineligible for SOC) ECOG PS 0 or 1 Phase 2: - Aged ≥18 years^a - Adolescents 12–17 years of age (if weighing ≥40 kg)^b <i>KRAS</i> WT^c	Rezatapopt dose escalation - Identify MTD and RP2D - Assess PK, safety and efficacy	Rezatapopt + pembrolizumab dose escalation - Identify appropriate dose in combination with pembrolizumab - Assess PK, safety and efficacy	Rezatapopt dose expansion at 2000 mg QD - Assess efficacy - Assess safety, PK and QoL

^a For all global sites except Singapore (adults ≥21 years); ^b Australia, South Korea and US only; ^c Phase 2 only includes patients that are *KRAS* WT; those with *KRAS* single nucleotide variant mutations are excluded.

PYNNACLE PHASE 2 TRIAL DESIGN¹²

- PYNNACLE Phase 2: Ongoing, global, pivotal, basket, single-arm, open-label, multicentre trial in solid tumours including ovarian, lung, breast, endometrial and other cancers
- The primary objective of PYNNACLE Phase 2 is to evaluate the efficacy of rezatapopt at the RP2D; secondary objectives include safety, PKs, QoL and other efficacy measures
- Eligible patients receive rezatapopt 2000 mg orally QD with food for continuous 21-day cycles; patients are followed until lost to follow-up, death, 2 years after last patient discontinuation, or end of study



PYNNACLE Phase 2: Evaluating the efficacy of rezatapopt at the RP2D

Phase 2 ^{10,12,13}	Patient population (inclusion criteria) ^{10,12,13}	Exclusion criteria ^{10,12,13}
Basket N = ~114 Rezatapopt 2000 mg QD with food - Cohort 1: Ovarian cancer^a n = ~42 - Cohort 2: Lung cancer n = ~18 - Cohort 3: Breast cancer n = ~18 - Cohort 4: Endometrial cancer n = ~18 - Cohort 5: All other solid tumours n = ~18	- Aged ≥18 years (all global sites except Singapore: ≥21 years) - Adolescents 12–17 years of age (if ≥40 kg, in Australia, South Korea and US only) - ECOG PS 0 or 1 - Locally advanced or metastatic solid tumours - Measurable disease at baseline (RECIST v1.1) - Documented <i>TP53</i> Y220C mutation (identified locally) and <i>KRAS</i> WT^b - Previously treated with ≥1 line of systemic treatment or ineligible for appropriate SOC	<i>KRAS</i> single nucleotide variant mutations - Unstable brain metastases - Primary CNS tumours - History of leptomeningeal disease or spinal cord compression, organ transplant or gastrointestinal disease that may impact rezatapopt absorption - Heart conditions (unstable angina, uncontrolled hypertension, heart attack within 6 months prior to screening, heart failure or other clinically significant rhythm abnormalities) - Uncontrolled Hepatitis B, Hepatitis C or HIV infection

^a Platinum resistant or refractory; ^b *KRAS* WT defined as the absence of *KRAS* single nucleotide variant mutations.

PYNNACLE Phase 2: Primary and secondary endpoints

PRIMARY OBJECTIVE: Evaluate the efficacy of rezatapopt per BICR (blinded independent central review) assessment			
Primary Endpoints		Secondary Endpoints	
ORR^a BICR assessed RECIST v1.1 Across all cohorts	ORR	ORR: Investigator assessed; RECIST v1.1 Across all cohorts and ovarian cancer cohort only	Safety: AEs, SAEs, laboratory assessments AEs graded using CTCAE v5.0¹⁴
ORR^a BICR assessed RECIST v1.1 Ovarian cancer cohort only	ORR	TTR, DoR, DCR: BICR and investigator assessed; RECIST v1.1 - DCR at 6, 12, 18 and 24 weeks - Across all cohorts and ovarian cancer cohort only	PK Plasma PK parameters May include C_{max}, T_{max}, AUC_{0-t}, AUC_{tau}, C_{trough}
	OS PFS	PFS: Investigator and BICR assessed; RECIST v1.1 OS & PFS: Across all cohorts and ovarian cancer cohort only	PRO PROs: EORTC QLQ-C30 for patients ≥18 years of age

^a ORR will be derived from BICR-assessed BOR based on RECIST v1.1, as assessed in these two populations.

References

1. Baugh EH, et al. Cell Death Differ. 2018;25:154–160; 2. Hassin O, et al. Nat Rev Drug Discov. 2023;22:127–144; 3. Roszkowska KA, et al. Int J Mol Sci. 2020;21:1334; 4. Bouaoun L, et al. Hum Mutat. 2016;37:865–876; 5. Zhou S, et al. Front Oncol. 2023;13:1229696; 6. Hanahan D. Cancer Discov. 2022;12:31–46; 7. Pynacle Clinical Study. Available at: <https://www.pynaclestudy.com/rezatapopt/>; Accessed July 2024; 8. Dumble ML, et al. AACR Annual Meeting 2021: Oral presentation, abstract LB008; 9. Levine AJ. Ann Rev Cancer Biol. 2019;3:21–34; 10. PYNNACLE study website. Available at: <https://www.pynaclestudy.com/>; Accessed July 2024; 11. Schram AM, et al. AACR-NCI-EORTC Annual Meeting. 2023. Oral presentation, abstract LB_A25; 12. NCT04585750. ClinicalTrials.gov. Available at: <https://clinicaltrials.gov/study/NCT04585750>; Accessed July 2024; 13. AACR-NCI-EORTC (Triple) Meeting 2023: Investor presentation; 14. Common Terminology Criteria for Adverse Events (CTCAE) v5.0. 2017. Available at: https://ctep.cancer.gov/protocoldevelopment/electronic_applications/docs/ctcae_v5_quick_reference_5x7.pdf; Accessed July 2024.

Abbreviations

AE, adverse event; AI, ratio of an exposure measure at steady state to that after the first dose; AUC_{0-∞}, area under the plasma concentration-time curve from pre-dose to the time of the last quantifiable concentration; AUC_{0-t}, area under the plasma concentration-time in one dosing interval; BICR, blinded independent central review; BOR, best overall response; C_{max}, maximum plasma concentration; CLT, total body clearance; CNS, central nervous system; CTCAE, common terminology criteria for adverse events; C_{trough}, trough observed concentrations; DCR, disease control rate; DoR, duration of response; ECOG PS, Eastern Cooperative Oncology Group Performance Status Score; EORTC, European Organisation for Research and Treatment of Cancer; HIV, human immunodeficiency virus; KRAS, Kirsten rat sarcoma virus; MTD, maximum tolerated dose; ORR, overall response rate; OS, overall survival; PD, pharmacodynamics; PFS, progression-free survival; PK, pharmacokinetics; PRO, patient-reported outcome; QD, once daily; QLQ-C30, quality of life questionnaire; QoL, quality of life; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1; RP2D, recommended Phase 2 dose; SAE, serious adverse event; SOC, standard of care; T_{1/2}, half-life; T_{max}, time to reach C_{max}; TP53 Y220C, tumour protein 53 with an amino acid substitution at amino acid position 220 (tyrosine has been replaced by cysteine); TTR, time to response; WT, wild type.

Acknowledgements

We would like to thank: All the patients, their families, and caregivers who have participated, and continue to participate, in the clinical trials; investigators and research staff; PPD, part of Thermo Fisher Scientific; Resolution Biosciences and Foundation Medicine. This study and the clinical trials are sponsored by PMV Pharmaceuticals, Inc. Medical writing was provided by Lucretia Ramnath and Danielle Lindley of Nucleus Global, funded by PMV Pharmaceuticals, Inc.

Disclosures

MF, YGQ: PMV Pharmaceuticals employees (with stock options). **AMS:** Attended advisory boards and received research funding from PMV Pharmaceuticals. **GDLL, AE-K, EF, PL, VG, MM, SPA, DR, AS, DSPT, DU:** None. **DLR:** On the board of directors for SGO (unpaid). **TK, JT:** Received research funding from PMV Pharmaceuticals. **SK:** local PI, institutional, financial interest, trial funding. **EED:** Received research funding/grant from, attended advisory boards for and provided a speaker role for PMV Pharmaceuticals. For further disclosure information please follow the QR code.



Scan QR code to download the poster and for author disclosures
Copies of this poster obtained through the QR code are for personal use only and may not be reproduced without written permission of the authors

PYNNACLE Phase 2: Planned sites worldwide

