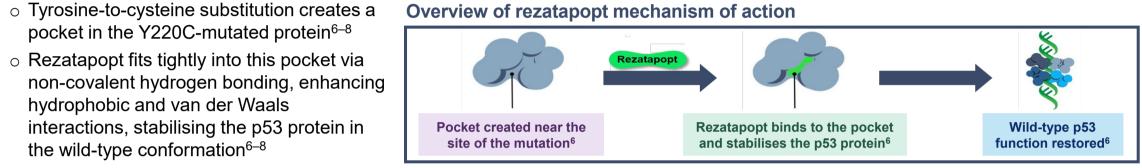
# PYNNACLE Phase 2 Study of Rezatapopt in Patients with Advanced Solid Tumours, including Breast Cancers, and a TP53 Y220C Mutation

## Jean-Sebastien Frenel,<sup>1</sup> Paola Zagami,<sup>2</sup> Gilberto De Lima Lopes,<sup>3</sup> Peter Grimison,<sup>4</sup> Melissa Johnson,<sup>5</sup> David Shao Peng Tan,<sup>6,7</sup> Shivaani Kummar,<sup>8</sup> Kim LeDuke,<sup>9</sup> Marc Fellous,<sup>9</sup> Ecaterina E. Dumbrava,<sup>10</sup> Alison M. Schram<sup>11</sup>

<sup>1</sup>Institut de Cancérologie de L'Ouest, Saint-Herblain, France; <sup>2</sup>European Institute of Oncology IRCCS (IEO), Milano, Italy; <sup>3</sup>Sylvester Comprehensive Cancer Center, Miami, FL, USA; <sup>4</sup>Chris O'Brien Lifehouse Hospital, Camperdown, NSW, Australia; <sup>5</sup>Sarah Cannon Research Institute, Nashville, TN, USA; <sup>6</sup>National University of Singapore (NUS) Centre for Cancer Research (N2CR), Yong Loo Lin School of Medicine, National University of Singapore; <sup>7</sup>Department of Haematology-Oncology, National University Cancer Institute, National University Hospital, Singapore; <sup>8</sup>Knight Cancer Institute, Oregon Health and Science University, Portland, OR, USA; <sup>9</sup>PMV Pharmaceuticals, Inc., Princeton, NJ, USA; <sup>10</sup>The University of Texas MD Anderson Cancer Center, Houston, TX, USA; <sup>11</sup>Memorial Sloan Kettering Cancer Center, New York, NY, USA

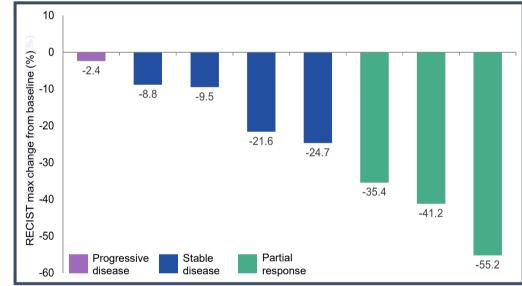
# BACKGROUND

- TP53, encoding the p53 protein, is the most frequently mutated gene across all cancers<sup>1</sup>
- These mutations destabilise the p53 protein, causing loss of p53 tumour suppressor function and tumour progression<sup>2</sup>
- $\circ$  TP53 mutations are found in ~51% of breast cancers<sup>3</sup> and are associated with aggressive and invasive tumour types such as TNBC (occurring in ~60% of cases), which has poorer outcomes<sup>4,5</sup>
- **TP53 Y220C** is a hot-spot **TP53** missense mutation present in ~1% of all breast cancers<sup>3</sup>
- Reactivation of wild-type p53 in p53-mutated tumours may be an effective therapeutic strategy for breast cancers, particularly for TNBC for which treatment options are limited due to a lack of biomarkers and effective targeted therapies<sup>5</sup>
- **Rezatapopt** (also known as PC14586) is an investigational, first-in-class, selective p53 reactivator specific to the *TP53* Y220C mutation that stabilises the mutated p53 protein in wild-type conformation, restoring p53 transcriptional activity and tumour suppressor functions<sup>6–8</sup>
- pocket in the Y220C-mutated protein<sup>6–8</sup>
- Rezatapopt fits tightly into this pocket via non-covalent hydrogen bonding, enhancing hydrophobic and van der Waals interactions, stabilising the p53 protein in the wild-type conformation<sup>6–8</sup>



- PYNNACLE (NCT04585750): Phase 1/2 clinical study of rezatapopt in patients with solid tumours harbouring a TP53 Y220C mutation<sup>6,9</sup>
- In PYNNACLE Phase 1, rezatapopt showed preliminary efficacy in heavily pre-treated patients<sup>10,11</sup>
- Of 38 evaluable patients receiving rezatapopt in the efficacious dose range (1150 mg QD to 1500 mg BID), **13 had confirmed PRs** observed across multiple tumour types, including breast cancer<sup>10</sup>
- Of eight patients with breast cancer, three achieved a PR, including two with TNBC; rapid responses were observed, with some seen at first post-baseline tumour assessment<sup>11</sup>
- Rezatapopt demonstrated a favourable safety profile, with mostly Grade 1/2 treatment-related AEs, in both the overall population and the breast cancer subset<sup>10,11</sup>
- In the overall population, the most frequent treatment-related AEs (in >15% of patients) were nausea (50.7%), vomiting (43.3%), blood creatinine increase (26.9%), diarrhoea (19.4%), fatigue (19.4%), AST increase (17.9%) and ALT increase (16.4%)<sup>10,11</sup>

Change in target lesions from baseline in evaluable patients with breast cancer (n=8)



• Objective: Describe the study design for the ongoing, pivotal, registrational PYNNACLE Phase 2 study assessing rezatapopt 2000 mg QD taken with food in patients with locally advanced or metastatic solid tumours harbouring a TP53 Y220C mutation and wild-type KRAS<sup>6</sup>

# 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 and KRAS wild-type<sup>6,9</sup>

#### Overview of the PYNNACLE study assessing rezatapopt in solid tumours with a *TP53* Y220C mutation<sup>6,9</sup>

Participants	PYNNACLE (PMV-586-101, NCT04585750)	
<ul> <li>Aged ≥12 years</li> <li>Locally advanced or metastatic solid tumours</li> <li><i>TP53</i> Y220C mutation</li> </ul>	Phase 1 Active, not enrolling	Phase 2 Active, enrolling
<ul><li>Previously treated (or ineligible for SOC)</li><li>ECOG PS 0 or 1</li></ul>	Rezatapopt dose escalation	Rezatapopt dose expansion at 2000 mg QD with food
<ul> <li>Phase 2</li> <li>Aged ≥18 years<sup>a</sup></li> <li>Adolescents aged 12–17 years (if weighing ≥40 kg)<sup>b</sup></li> <li><i>KRAS</i> wild-type<sup>c</sup></li> </ul>	<ul> <li>Identify MTD and RP2D</li> <li>Assess PK, safety and preliminary efficacy</li> </ul>	<ul> <li>Assess efficacy</li> <li>Assess safety, PK and QoL</li> </ul>

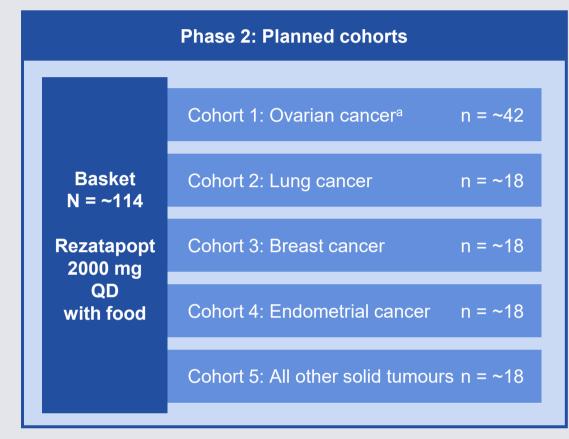
<sup>a</sup> For all global sites except Singapore (adults ≥21 years); <sup>b</sup> Australia, South Korea and US only; <sup>c</sup> Phase 2 includes patients with KRAS wild-type; those with KRAS single-nucleotide variant mutations are excluded.

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# **PYNNACLE PHASE 2 TRIAL DESIGN**

- PYNNACLE Phase 2: Ongoing, global, single-arm, open-label, multicentre, registrational basket trial in patients with solid tumours<sup>6,9</sup>
- Primary objective of PYNNACLE Phase 2: Evaluate the efficacy of rezatapopt at the RP2D; Secondary objectives: Safety, PK, QoL and other efficacy measures<sup>6,9</sup>
- **Rezatapopt:** Eligible patients receive rezatapopt 2000 mg orally QD with food for continuous 21-day cycles<sup>6,9</sup>
- Patients are followed up until death, loss to follow-up, 2 years after last patient discontinuation or end of study<sup>6,9</sup>

#### **PYNNACLE** Phase 2: Patient population<sup>6,9</sup>

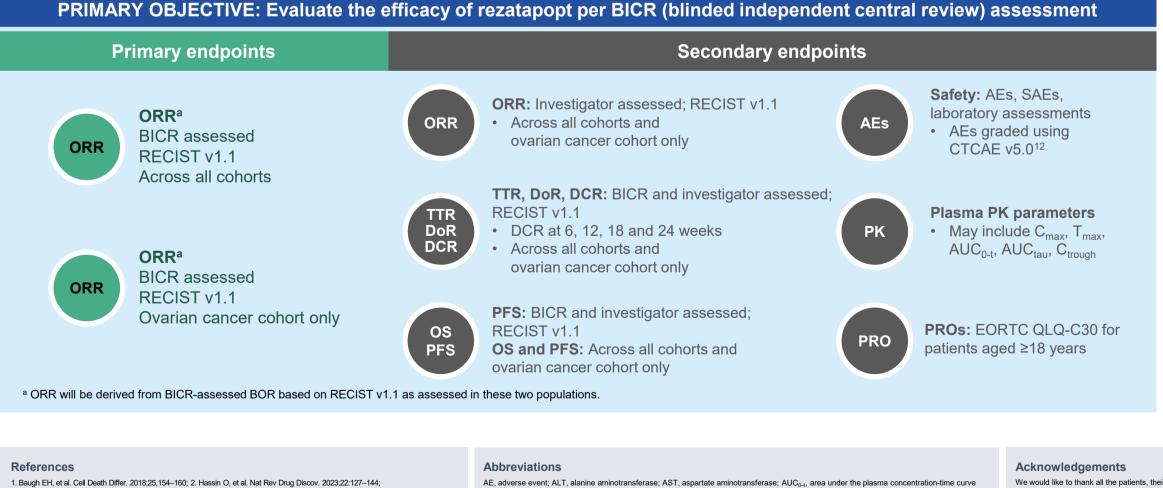


#### Inclusion criteria

- Age ≥18 years for all global sites except Singapore (adults aged ≥21 years)
- Adolescents aged 12–17 years (if weighing  $\geq$ 40 kg, in Australia, South Korea and US only)
- ECOG PS 0 or 1
- Adequate organ function
- Locally advanced or metastatic solid tumours
- Measurable disease at baseline (RECIST v1.1)
- Documented *TP53* Y220C mutation (identified locally)
- *KRAS* wild-type
- Previously treated with  $\geq 1$  line of systemic treatment or ineligible for appropriate SOC

<sup>a</sup> Platinum resistant or refractory.

### **PYNNACLE** Phase 2: Primary and secondary endpoints<sup>6,9</sup>

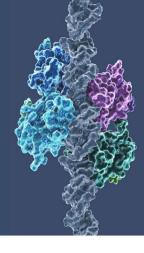


idationInsights™. A proprietary database used under license with review and approval from Foundation Medicine Available at: Biopharma Services Overview | Foundation Medicine. Accessed April 2025; 4. Silwal-Padati L, et al. Cold Spring Harb Perspect Med. 2017;7:a026252; 5. Mitri ZI, et al. NPJ Precis Oncol. 2022;6:64; 6. PYNNACLE Study. Available at: com/, Accessed April 2025; 7, Vu BT, et al, ACS Med Chem Lett, 2025;16;34–39; 8, Dumble ML, et al, AACR nnual Meeting. 2021; Oral presentation, abstract LB006; 9. Clinical Trials.gov. NCT04585750. Available at: 5750. Accessed April 2025; 10. Schram AM, et al. AACR-NCI-EORTC International Conference 2023; Oral presentation, abstract LB\_A25; 11. Dumbrava EE, et al. SABCS. 2024; Poster presentation, P3-12-27 (abstract SESS-2137); 12. Common Terminology Criteria for Adverse Events (CTCAE) Version 5.0. Available at: s/ctcae v5 guick reference 5x7.pdf. Accessed April 2025. ectronic application

AE, adverse event; ALT, alanine aminotransferase; AST, aspartate aminotransferase; AUC0-4, area under the plasma concentration-time curve from before dose to the time of the last quantifiable concentration; AUC<sub>taup</sub>, area under the plasma concentration-time in one dosing interval; BICR, blinded independent central review; BID, twice daily; BOR, best overall response; C<sub>max</sub>, maximum plasma concentration; CNS, central nervous system; CTCAE v5.0, Common Terminology Criteria for Adverse Events version 5.0; C<sub>trough</sub>, trough observed concentration; DCR, disease control rate; DoR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; EORTC, European Organisation for Research and Treatment of Cancer; HIV, human immunodeficiency virus; KRAS, Kirsten rat sarcoma viral oncogene homolog max, maximum; MTD, maximum tolerated dose; ORR, overall response rate; OS, overall survival; PD, pharmacodynamics; PFS, progression-free survival; PK, pharmacokinetics; PR; partial response; 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 Tumours version 1.1; RP2D, recommended Phase 2 dose; SAE, serious adverse event; SOC, standard of care; Tmax, time to reach maximum plasma concentration; TNBC, triple negative breast cancer; 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

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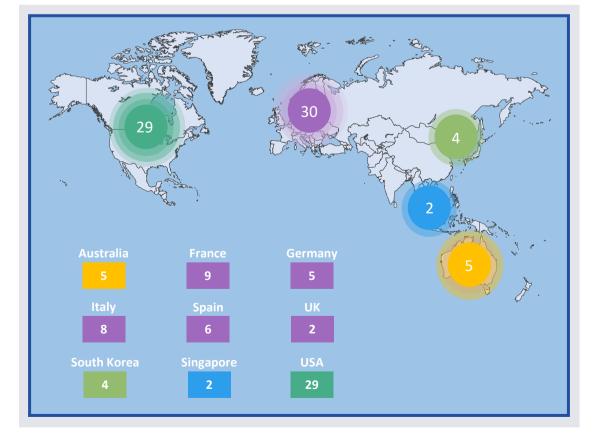


**150TiP** 



#### **Exclusion criteria**

- KRAS 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, QT interval prolongation or other clinically significant rhythm abnormalities)
- Uncontrolled hepatitis B, hepatitis C or HIV infection



#### **PYNNACLE** Phase 2: Planned sites worldwide<sup>9</sup>

**Disclosure of conflicts of interest** 

#### J-SF, PZ, GDLL, PG: None. MJ: Research funding from PMV Pharmaceuticals. DSPT: Personal fees for advisory board membership from PMV Pharmaceuticals institutional funding as local PI from PMV Pharmaceuticals. SK: local PI, institution financial interest, trial funding from PMV Pharmaceuticals. KLD, MF: PMV Pharmaceuticals employees (with stock options). EED: Received research funding/grant from, attended advisory boards for and provided a speaker role for PM Pharmaceuticals. AMS: Attended advisory boards and received research funding from PMV Pharmaceuticals

These disclosures are relevant for this poster; for a more complete list of disclosure of conflicts of interest, please follow the QR code.



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