

Oscotec R&D Day

June 24, 2025

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CEO

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Highlights

- Cevidoplenib
 - P2 (IIT, 1st line ITP) IND filed (MFDS)
 - BD activity update
- Denfivontinib
 - Deprioritized in solid tumor; AML to be revisited
- ADEL-Y01
 - P1 progressing smoothly; Part B (MAD) initiated
- OCT-598
 - IND cleared by FDA; FIH dosing to start in Q4
 - AACR presentation
- Cancer Therapy Resistance
 - The first target disclosed in AACR (NUAK1/2)

[BD = Business Development; IIT = Investigator-Initiated Trial; ITP = Immune Thrombocytopenia; AML = Acute myeloid leukemia; MAD = Multiple Ascending Dose; FIH = First-in-human]

Cevidoplenib

- Highly potent and selective SYK inhibitor
- Quick entry to market; immune thrombocytopenia (ITP)
 - Orphan drug designated
 - Proven efficacy and safety in P2 (2nd line); **P3-ready**
 - Potential expansion to the 1st line (IIT to start in 2025)
- 'Pipeline in a product' – indication expansion
 - Rheumatoid arthritis (precision immunology for 'early RA')
 - wAIHA, cGVHD, AbMR, AAV, etc
- Partnering activities
 - Commercialization in ITP (global/regional)
 - PoC in RA subpopulation (precision immunology)

IIT = Investigator-initiated trial; wAIHA = warm Autoimmune Hemolytic Anemia; cGVHD = chronic Graft-versus-Host Disease; AbMR = Antibody-mediated (organ transplantation) Rejection; AAV = ANCA-Associated Vasculitis; PoC = Proof of Concept

ADEL-Y01

- Anti-tau antibody targeting a pathological form of tau protein (AcK280) to treat tauopathies including Alzheimer Disease
- First-in-human study underway (US)
 - First in Human, Phase Ia/b study for safety, tolerability, pharmacokinetics, and clinical activity evaluation of ADEL-Y01 in healthy participants and in participants with Mild Cognitive Impairment (MCI) due to Alzheimer's disease (AD) or mild Alzheimer's disease
 - P1a (SAD) dosing completed (2.5 ~ 100 mg/kg)
 - No safety concern reported to date
 - PK exposure exceeding prediction; q4w possible
 - P1b (MAD) study initiated; enrolling MCI/AD patients
- Partnership discussion ongoing

SAD = Single Ascending Dose; MAD = Multiple Ascending Dose; PK = Pharmacokinetics; q4w = dosing every 4 weeks

OCT-598

- EP2/4 dual antagonist for cancer therapy resistance
 - Will OCT-598 combination delay the development of resistance and prolong the responses to standard-of-care anti-tumor therapies?
- IND cleared by US FDA
 - A Phase 1 Dose-Escalation Study to Evaluate the Safety, Tolerability, Pharmacokinetics, and Efficacy of OCT-598 as a Single Agent and in Combination With Standard-of-Care Treatment in Patients With Advanced Solid Tumors
 - IND to be filed in MFDS, FIH dosing to start in Q4
 - To begin with docetaxel combination in multiple tumor types (lung, breast, prostate, gastric, and head and neck cancer); potentially expand to other combinations

FIH = First-in-human

Inhibition of PGE2 Signaling by An EP2/4 Dual Antagonist OCT-598 Prevents Acquisition of Therapy-resistance And Tumor Relapse

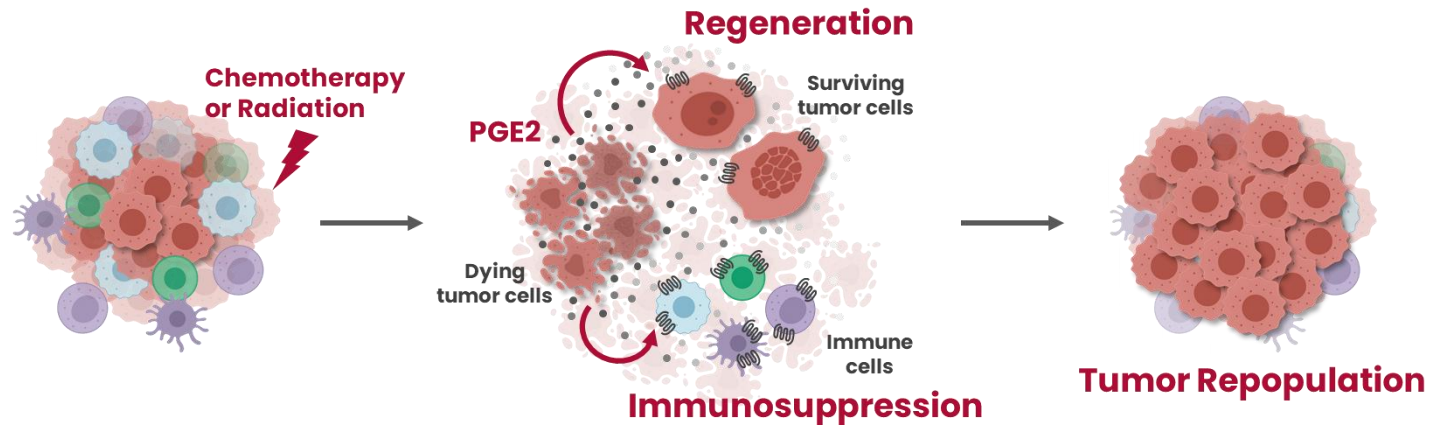
Youngrae Lee¹, Hain Choi¹, Jong-Won Lim¹, Sung Eun Lee²,
Yeeun Kim², Changhoon Choi², Taeyoung Yoon¹

¹Oscotec Inc., Seongnam, Korea, Republic of,

²Samsung Medical Center, Seoul, Korea, Republic of

❖ Prostaglandin E2 (PGE2): Regenerative Signal Driving Resistance

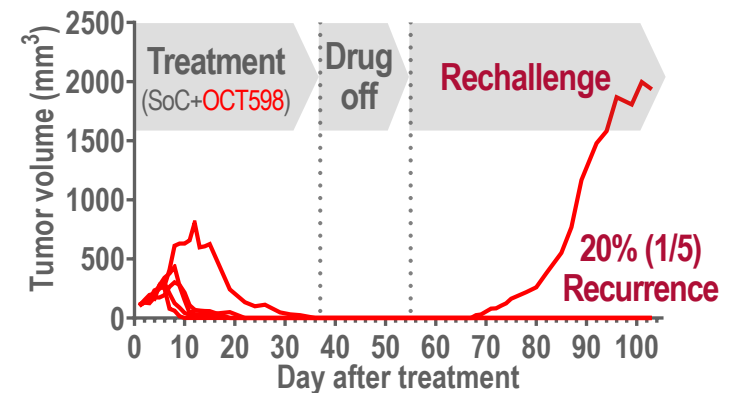
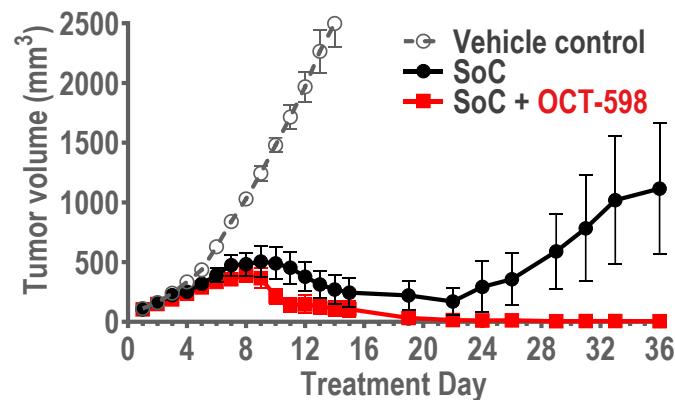
- Therapy-induced cancer cell death activates the “Phoenix Rising” pathway, producing PGE2
- PGE2 promotes regenerative and immunosuppressive niche formation, via EP2 and EP4, in TME



❖ OCT-598, EP2/4 dual antagonist

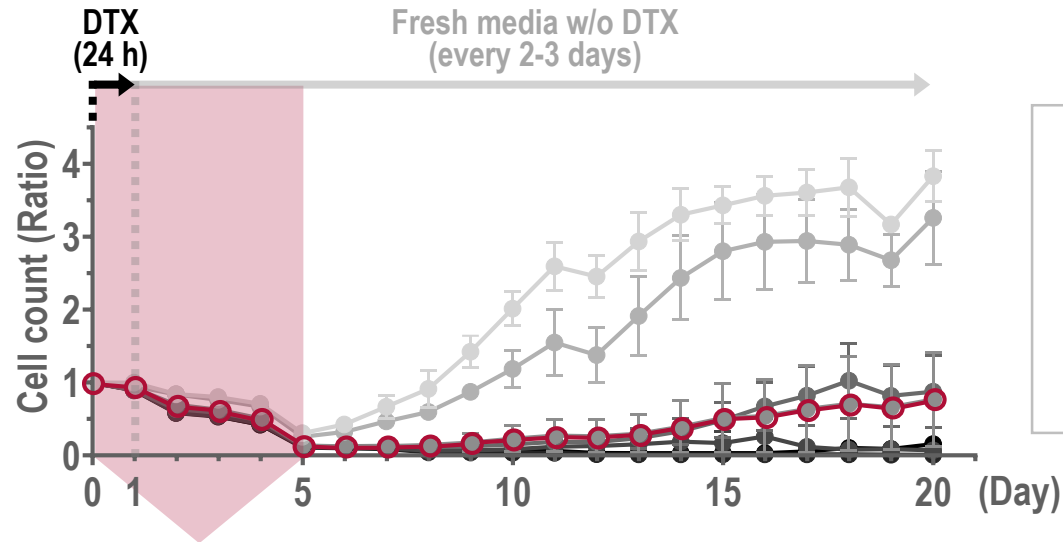
- OCT-598 induced **complete regression** and **durable responses** in a mouse syngeneic TC-1 tumor model when **combined with standard of care (SoC) chemo-immunotherapy** (Abstract #3234, AACR 2023).

*SoC = Cisplatin + Pemetrexed + Anti-PD-1 Ab

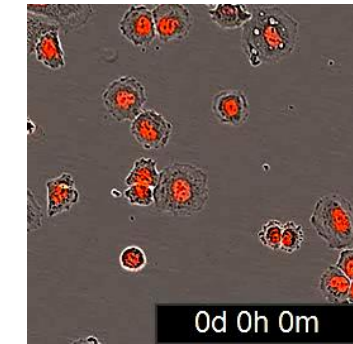


Tumor Repopulation after Docetaxel Treatment

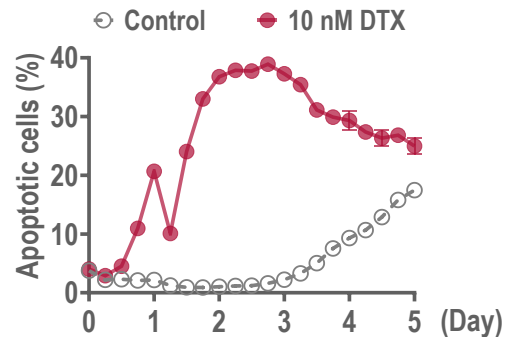
H460 lung cancer cell line with red fluorescently labeled nuclei



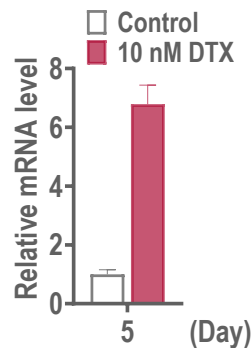
10 nM DTX (24 h)



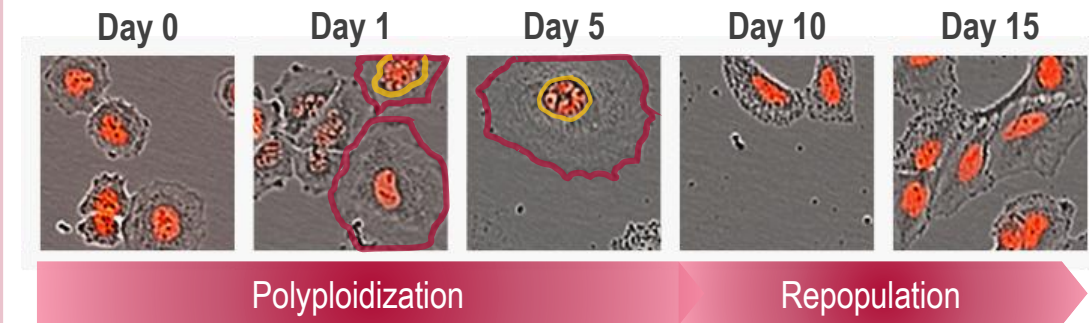
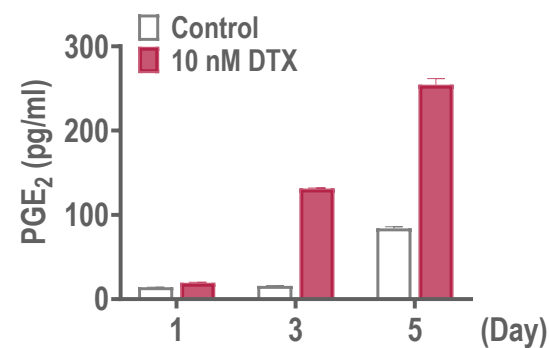
Apoptosis (Caspase 3/7)



PTGS2 (COX2)
gene expression

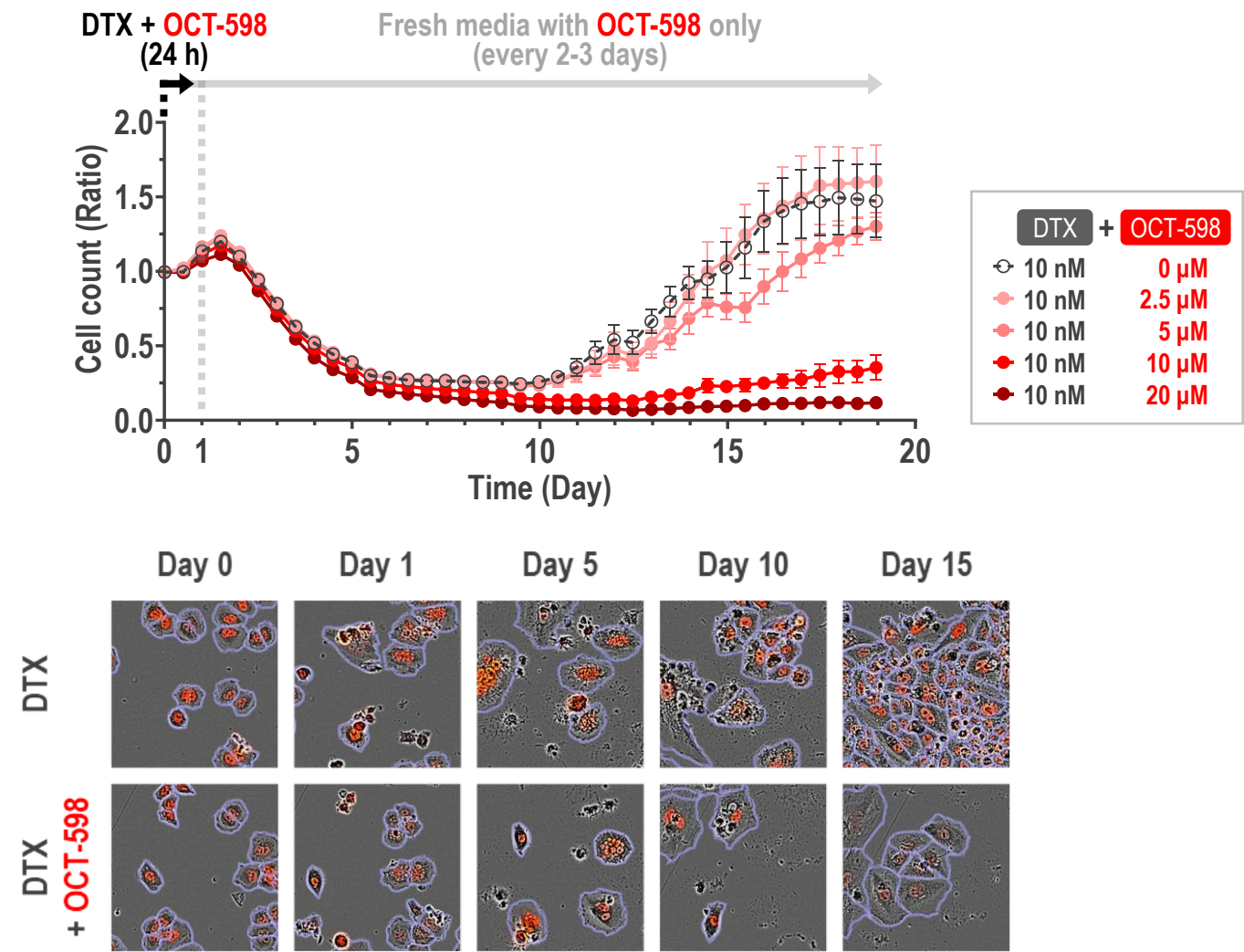


PGE₂ secretion

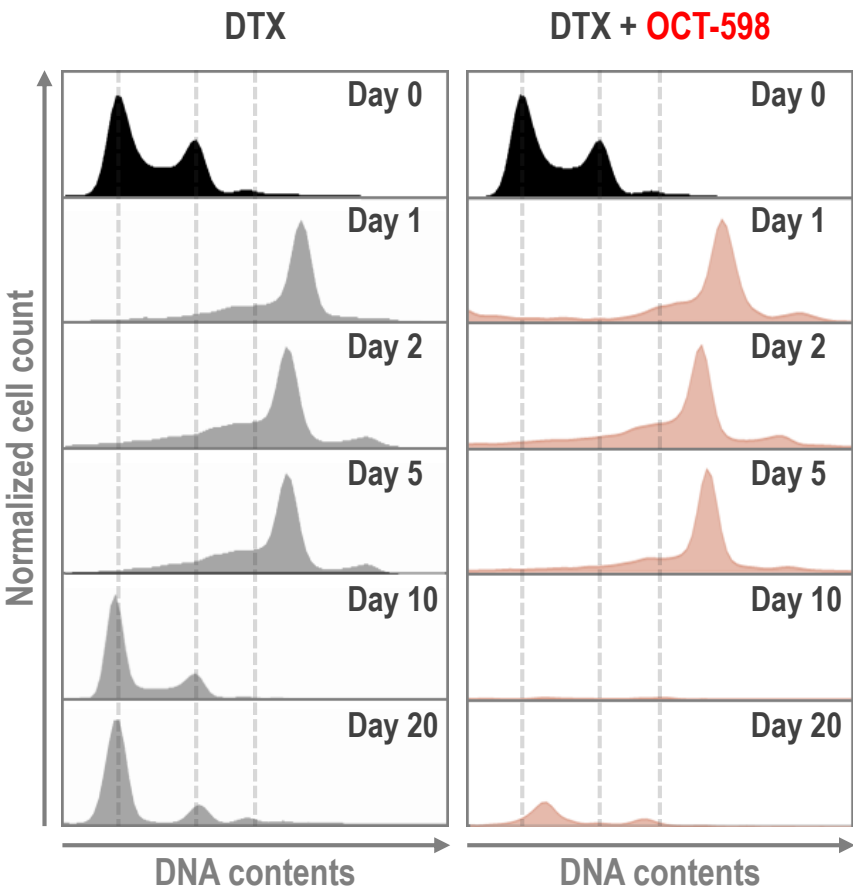


OCT-598, Inhibition of Tumor Repopulation *In Vitro*

H460 lung cancer cell line with red fluorescently labeled nuclei

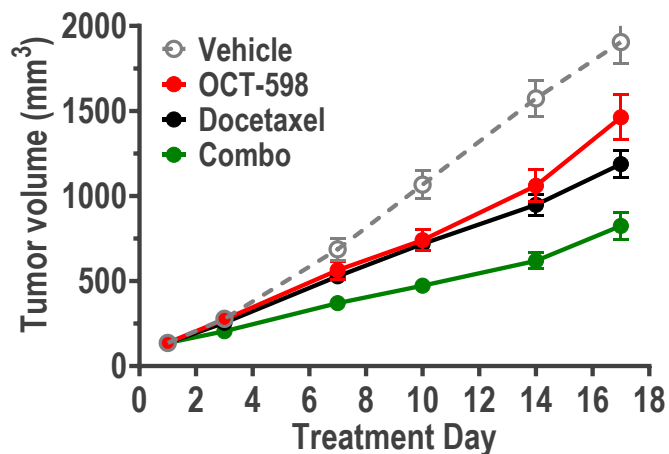
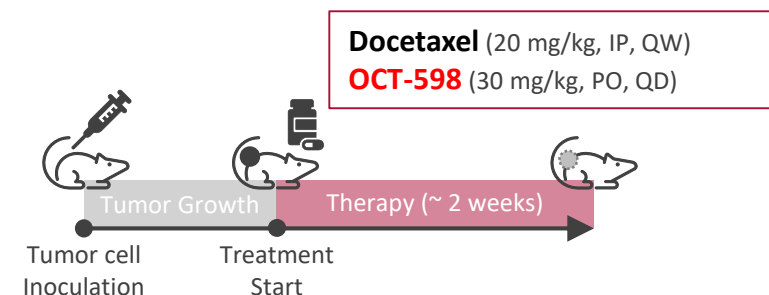


DNA Content (Flow cytometer)

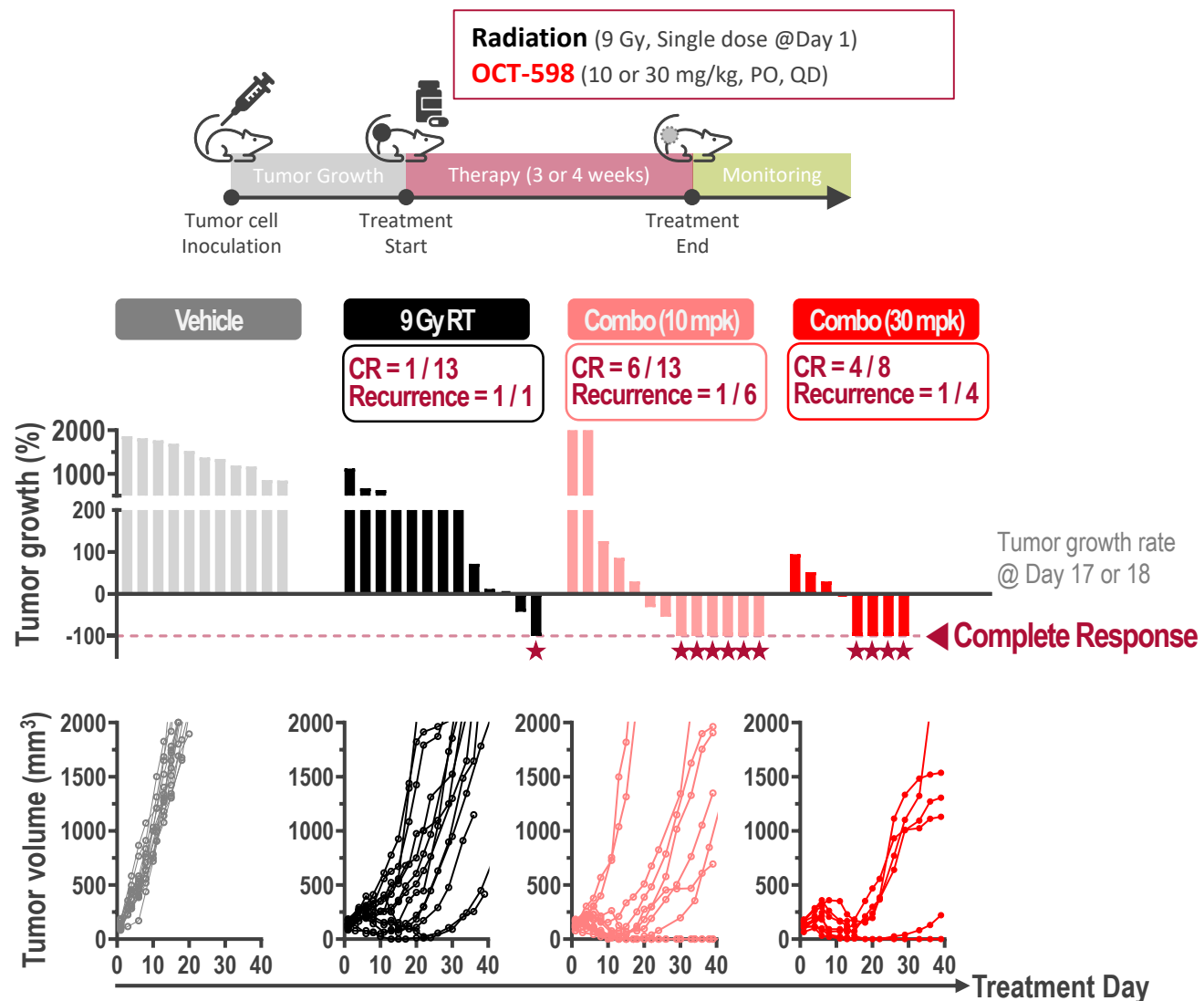


Inhibition of Post-Therapy Tumor Relapse — In Vivo PoC Study

❖ NCI-H460 Lung Tumor Xenograft Mouse Model



❖ CT26 Colon Tumor Syngeneic Mouse Model

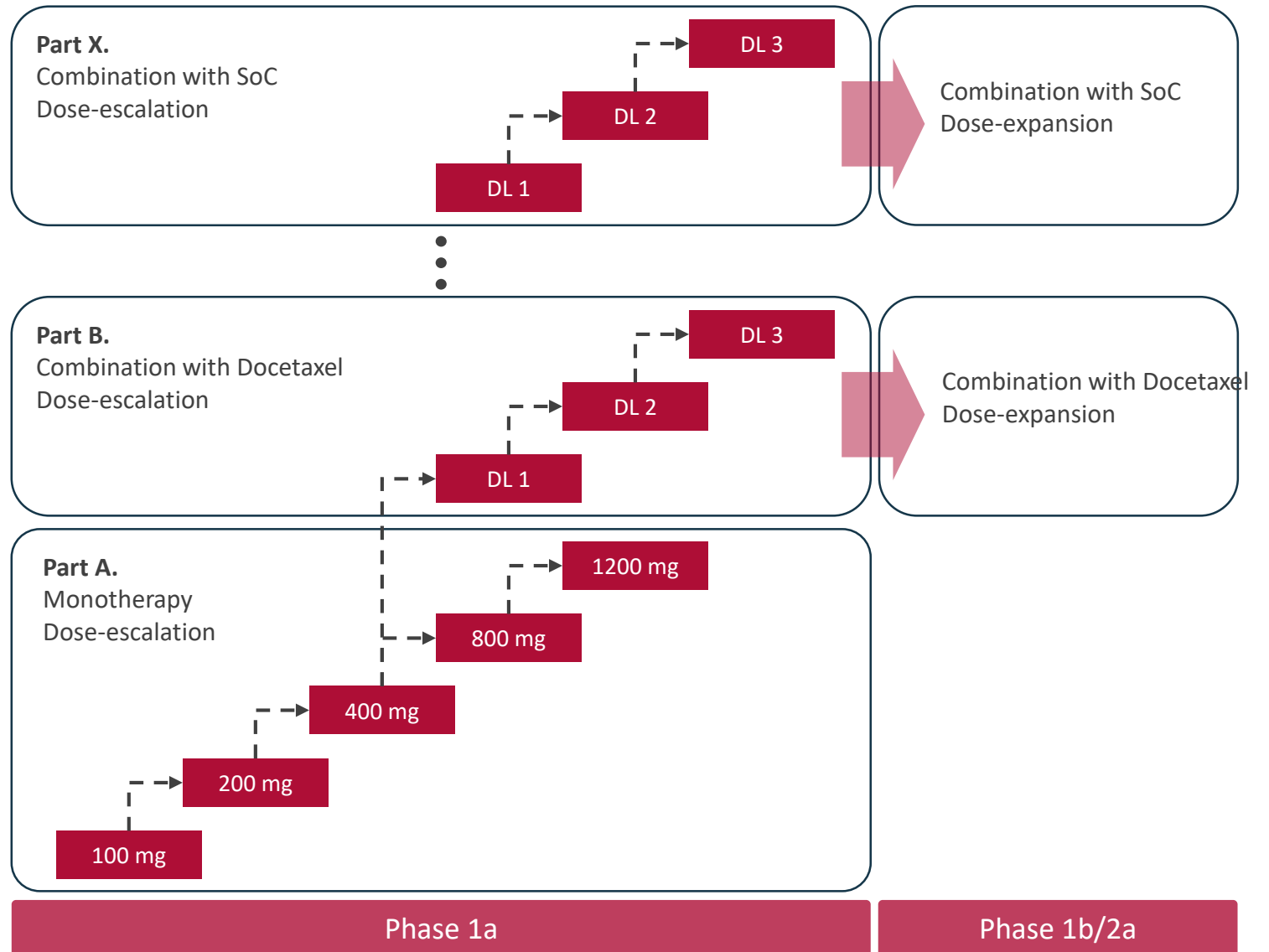


OCT-598, Clinical Development Plan

❖ We aim to develop **OCT-598** as an **‘anti-resistance’ agent** to prevent tumor cells from acquiring resistance to SoC therapies.

❖ Strategic Plan

- Rapid initiation of combination dose-finding studies with SoC therapies.
- Initial combination will be with docetaxel.
- Additional combination regimens will be explored in future stages.

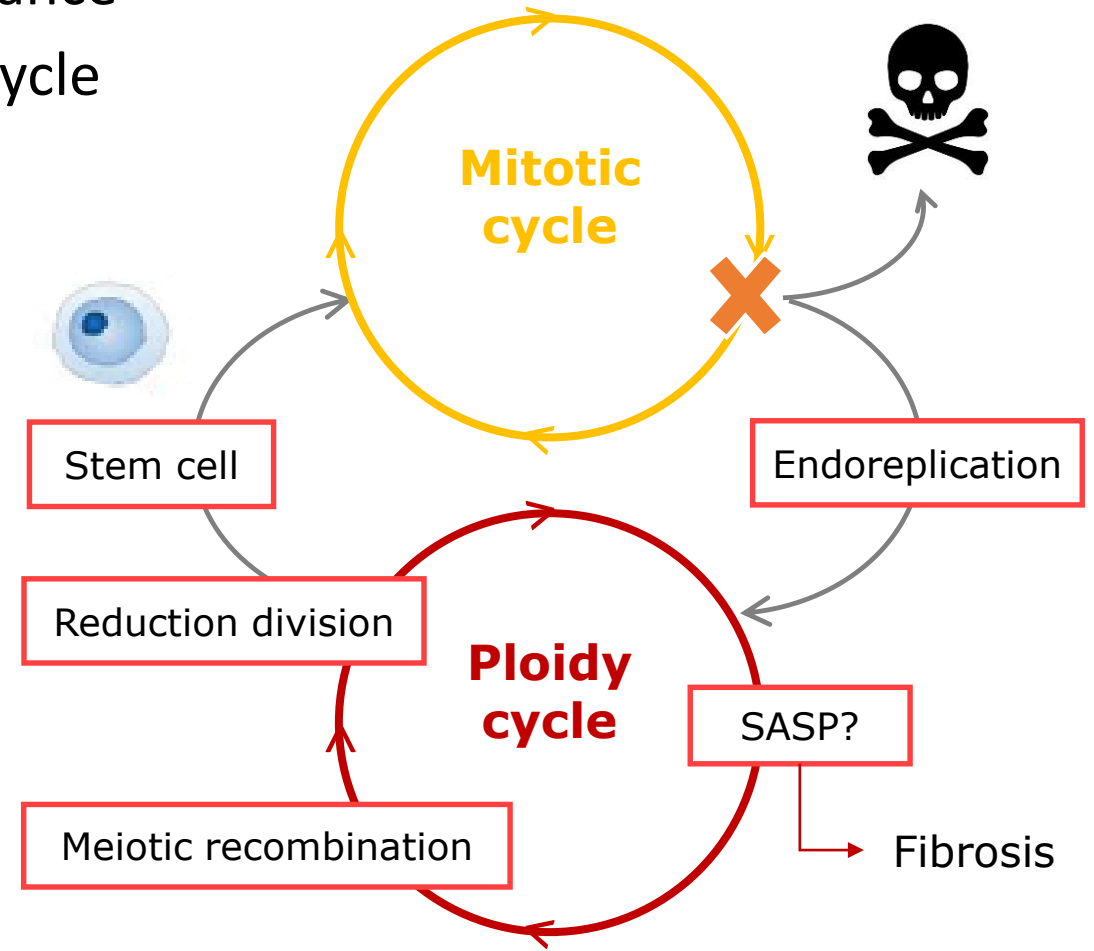
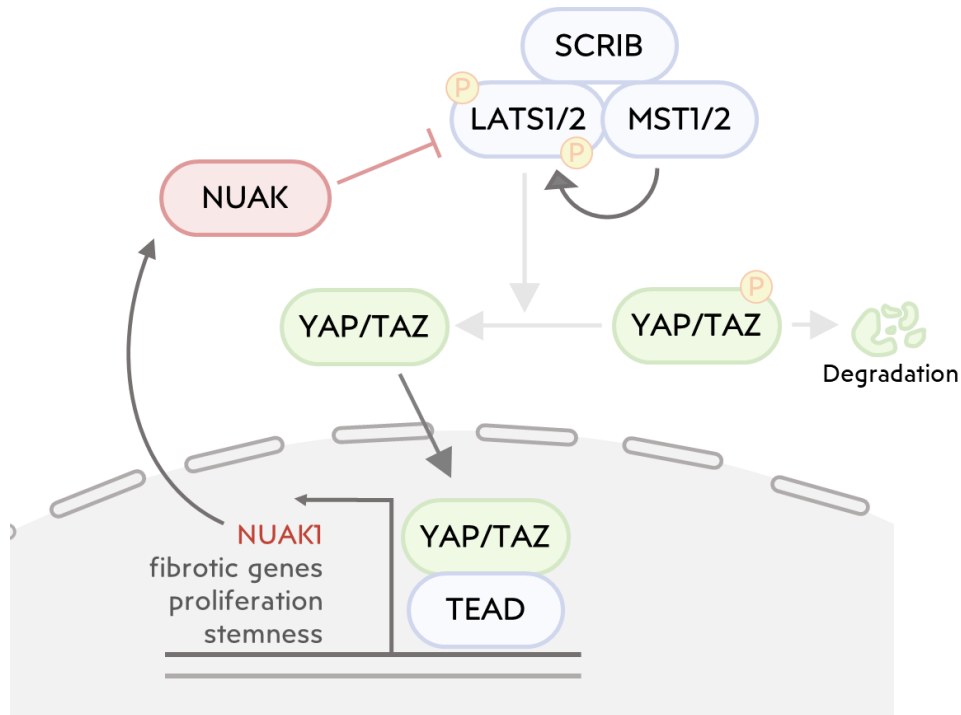


Pharmacological inhibition of NUAK1/2 synergizes with chemotherapy in pancreatic cancer models by abrogating drug resistance and suppressing fibrosis

Minji Seo, Jihye Yoon, Song-Eun Park, Jong-Won Lim, Sungho Park, Yuntae Kim, Taeyoung Yoon
OSCOTEC Inc., Seongnam, Korea.

Background and Hypothesis

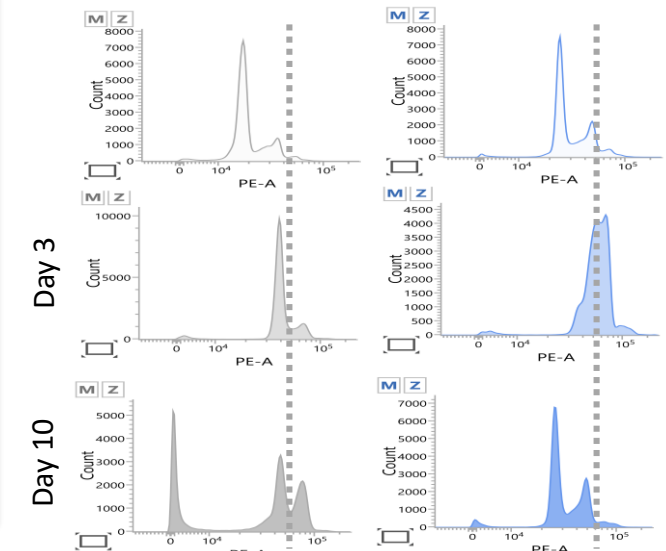
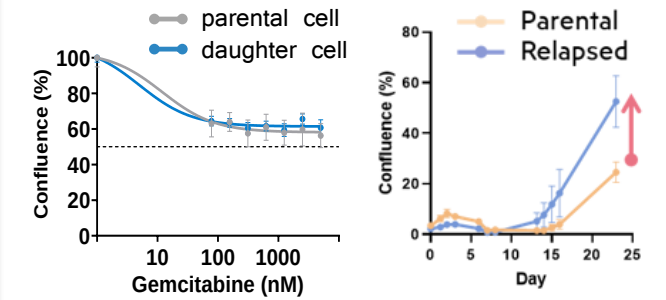
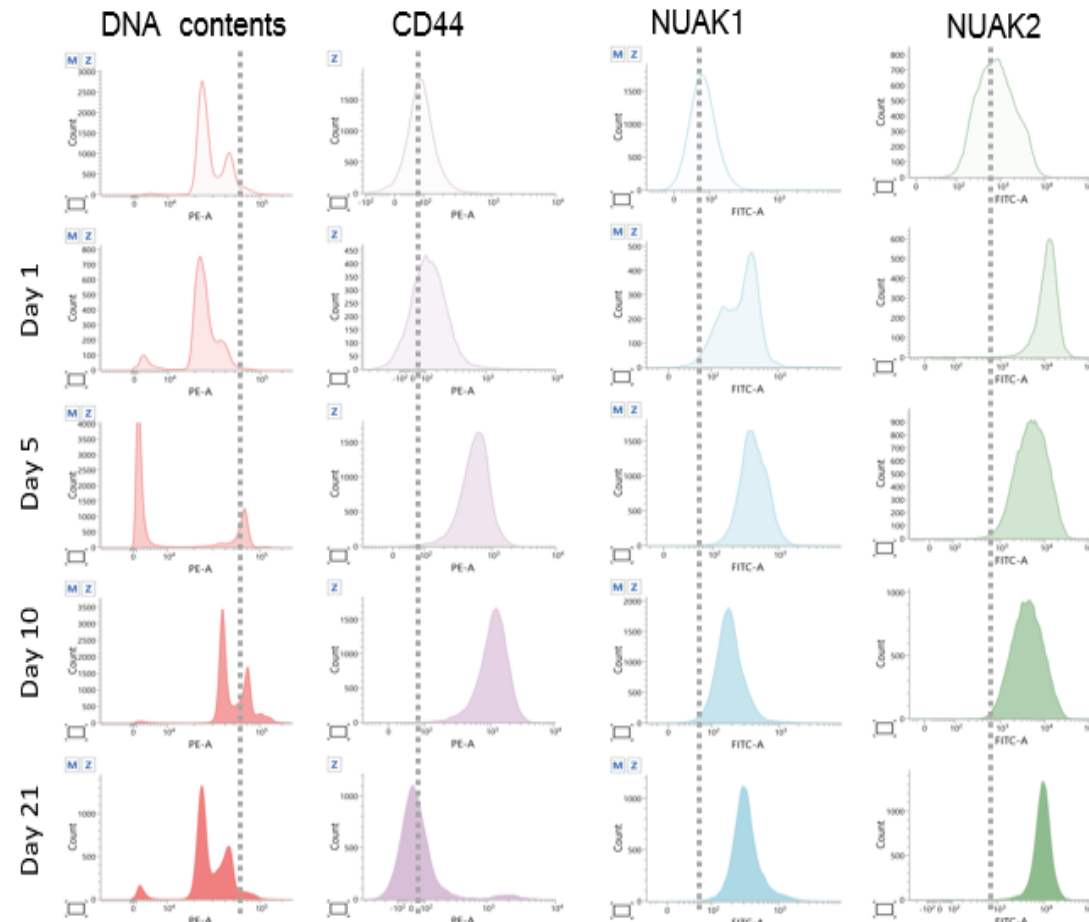
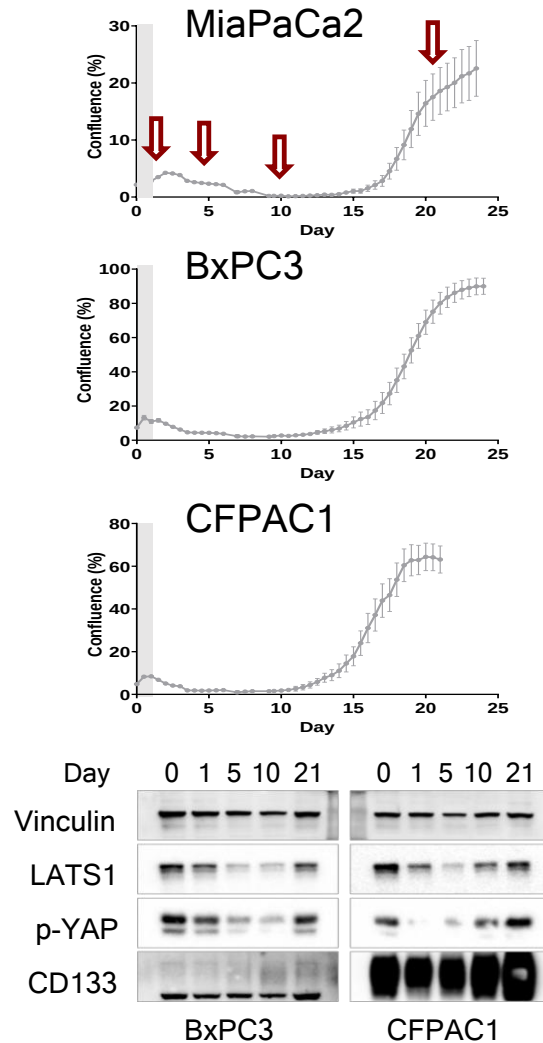
- Ploidy cycle mediates cancer therapy resistance
- YAP activation unlocks the entry to ploidy cycle
- NUA1/2 feed forward YAP activation



Ploidy-mediated Repopulation of PDAC Cells after Gemcitabine

- Upon gemcitabine treatment, surviving PDAC cells become hyperploid before giving birth to para-diploid daughter cells

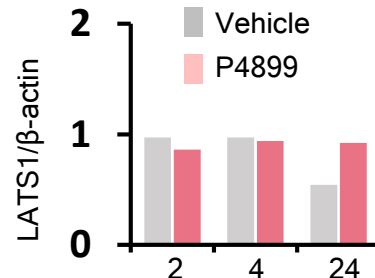
- The daughter cells remain sensitive to gemcitabine, but enter the next ploidy cycle much more readily



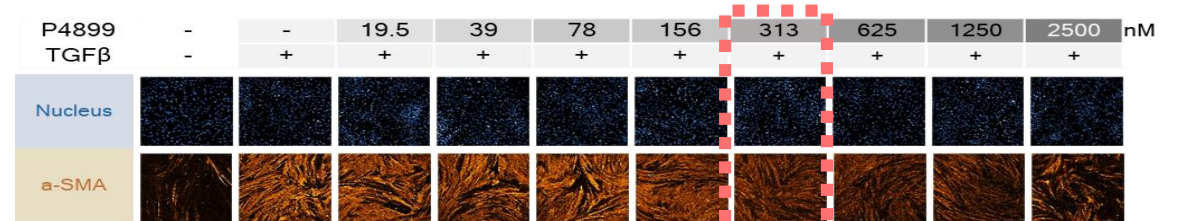
NUAK1/2 Inhibitor P4899 Abrogates Repopulation In Vitro

➤ In vitro activities of P4899

P4899	IC ₅₀
NUAK1	0.9 nM
NUAK2	51.4 nM

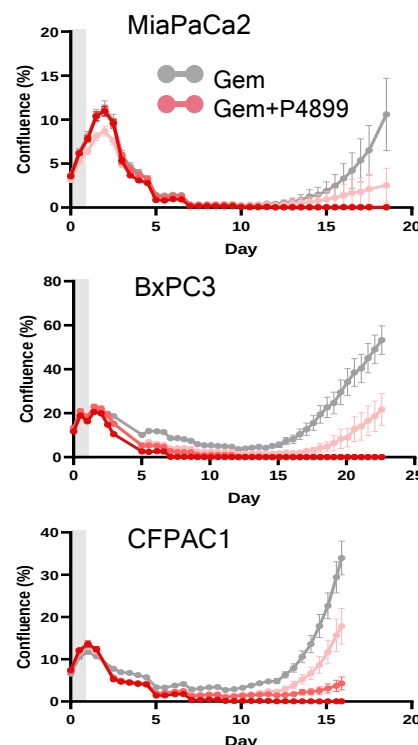


➤ P4899 inhibits TGFβ-mediated fibroblast activation

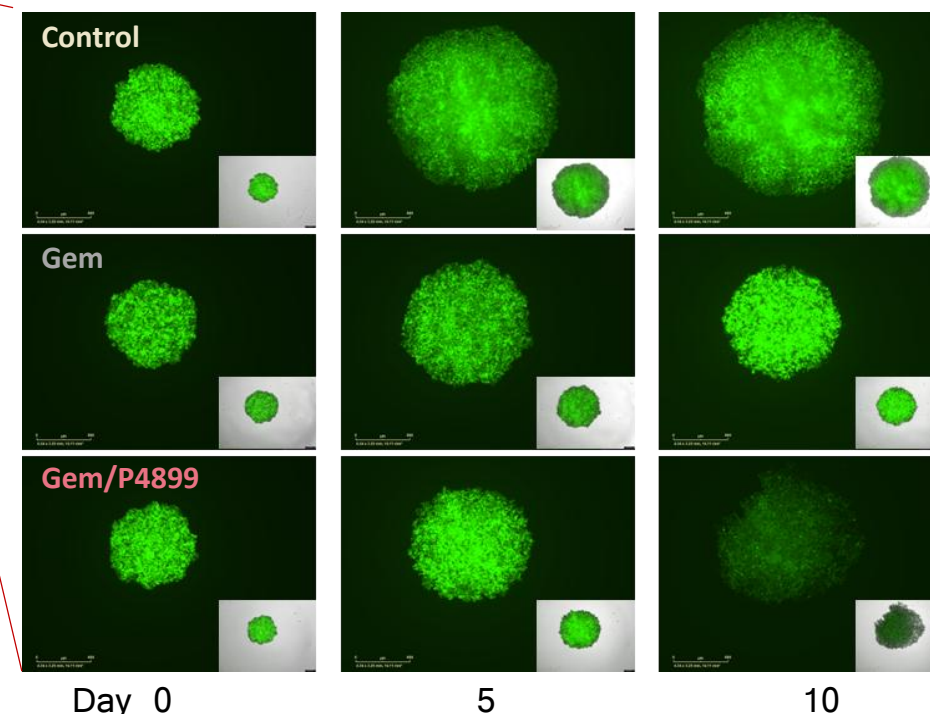
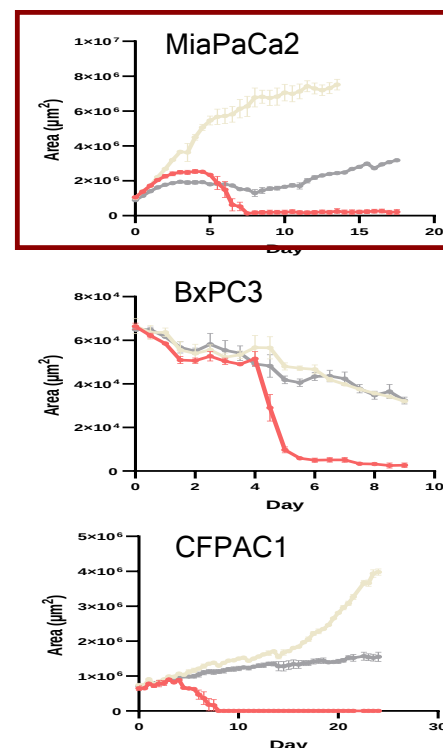


EC₅₀: 322.4 nM

➤ Dose-dependent inhibition of repopulation after gemcitabine

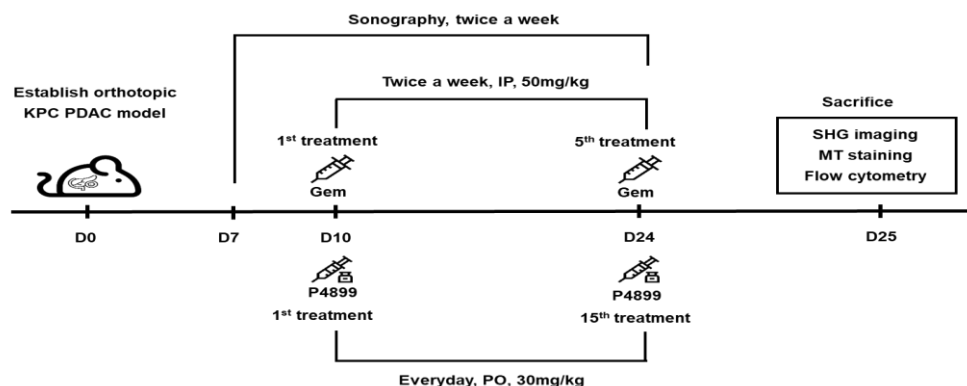


➤ Inhibition of tumorsphere growth

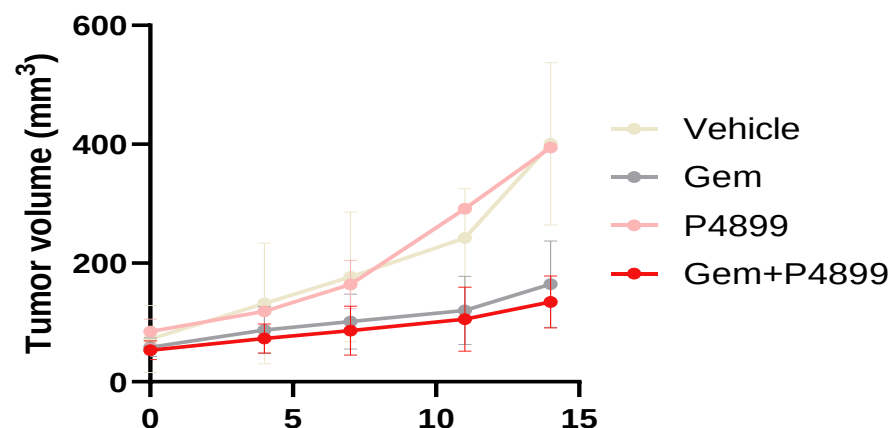


NUAK1/2 Inhibitor P4899 Alleviates Fibrosis In Vivo

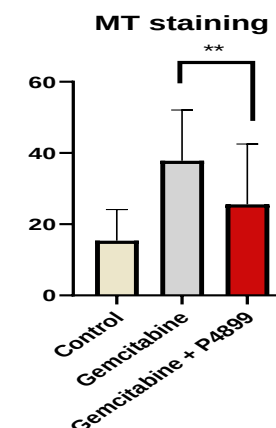
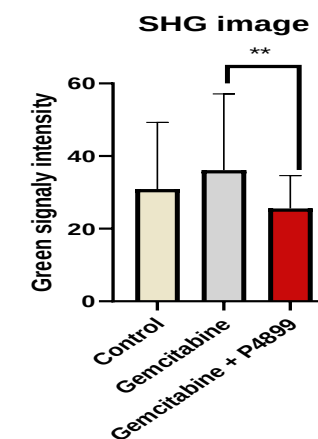
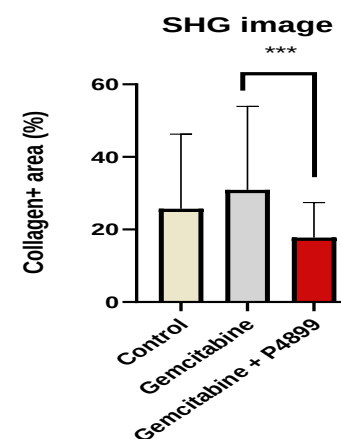
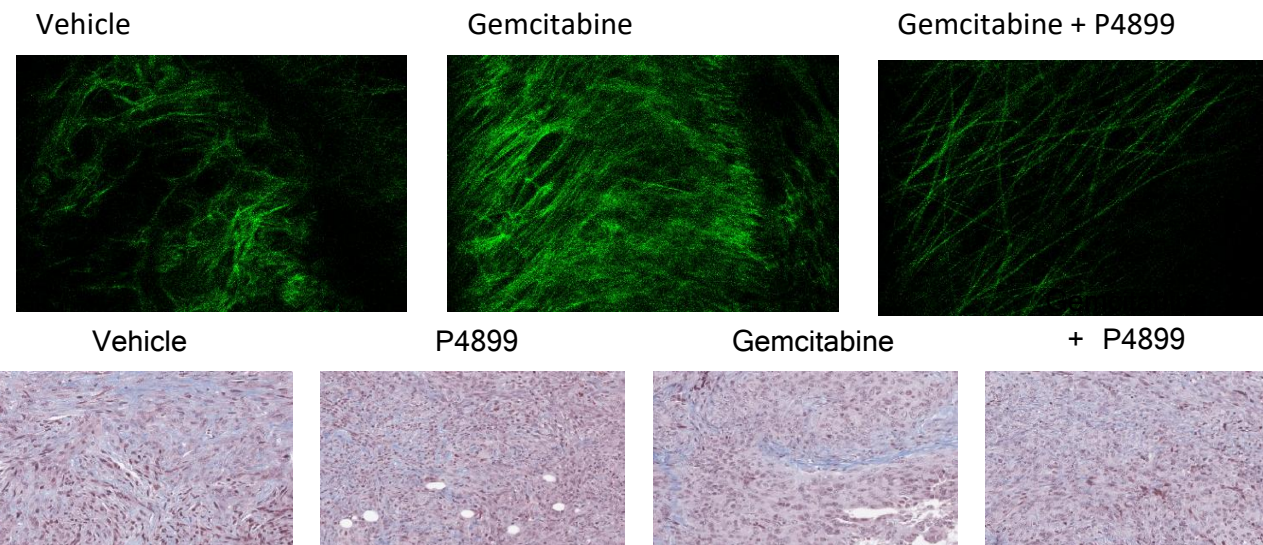
➤ Mouse KPC orthotopic tumor model



➤ Tumor growth inhibition



➤ P4899 significantly reduced gemcitabine-induced fibrosis



Q & A