

# A Phase 1/2 Study of CFT8634, a Novel Bifunctional Degradation Activating Compound (BIDAC™) Degradator Of BRD9, in Synovial Sarcoma and SMARCB1-null Tumors

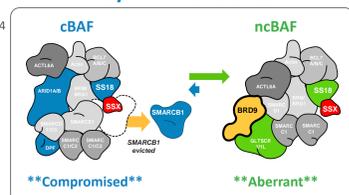
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## BACKGROUND

- SMARCB1-perturbed cancers are dependent on the chromatin factor BRD9<sup>1,2</sup>
  - Two types of genetic alterations disturb SMARCB1: SS18-SSX gene fusion and SMARCB1 loss-of-function (SMARCB1-null)
- The presence of SS18-SSX chromosomal translocation drives the development of synovial sarcoma (SS), a soft tissue malignancy comprising ~10% of all soft tissue sarcomas<sup>2</sup>
- SMARCB1-null tumor types include malignant rhabdoid tumor (MRT), poorly differentiated chordoma, and epithelioid sarcoma<sup>3</sup>
- In the metastatic setting, outcomes for many of these SMARCB1-null tumor types are poor with limited therapeutic options (e.g., synovial sarcoma: 1-year survival rate ~60%)<sup>4</sup>
- Mechanism of disease
  - SS18-SSX fusion protein and SMARCB1 deletion both result in perturbation of the cBAF complex (Figure 1)<sup>1</sup> causing oncogenic dependency on the ncBAF complex
  - Tumor specific ncBAF dependency results in a synthetic lethal dependency on BRD9
  - The DUF subdomain of BRD9 is a critical mediator of its oncogenicity<sup>5</sup>

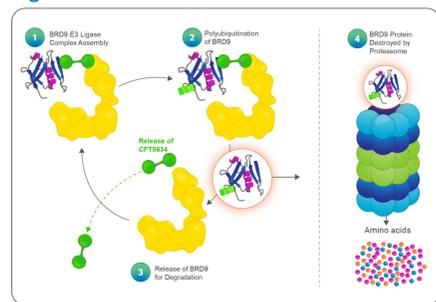
**Figure 1: Oncogenic SS18-SSX Fusion Leads to BRD9 Dependency in Synovial Sarcoma<sup>1</sup>**



## CFT8634 BACKGROUND

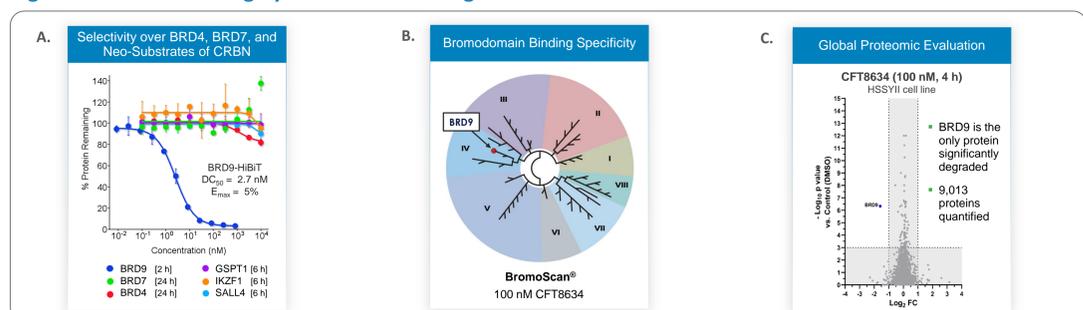
- Bromodomain inhibitors are insufficient to ablate BRD9 oncogenicity, because the DUF domain is critical, while a degrader approach achieves efficacy<sup>2</sup>
- CFT8634 is an orally bioavailable selective bifunctional degradation activating compound, or BIDAC™ degrader, of BRD9
  - CFT8634 was synthesized using C4 Therapeutics' TORPEDO® platform
- Mechanism of action (Figure 2)
  - CFT8634 induces a ternary complex formation with BRD9 and cereblon E3 ligase (step 1)
  - BRD9 is ubiquitinated and subsequently degraded by the proteasome (steps 2-4)
- CFT8634 is highly selective for BRD9 and demonstrates dose proportional exposure in both plasma and cell-derived xenograft models (Figures 3-4)
- CFT8634 leads to robust and dose-dependent degradation of BRD9, which translated to significant and dose-dependent anti-tumor activity in preclinical in vitro and in vivo models of SMARCB1-perturbed cancers (Figures 5-6)

**Figure 2: Mechanism of Action for CFT8634<sup>6</sup>**



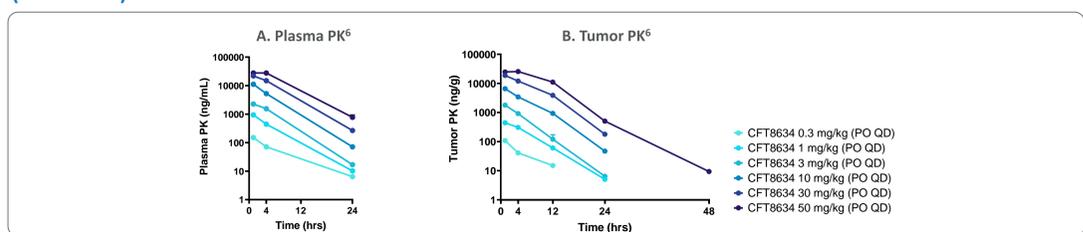
## PRE-CLINICAL DATA: IN VITRO

**Figure 3: CFT8634 is a Highly Selective BRD9 Degradator<sup>6</sup>**



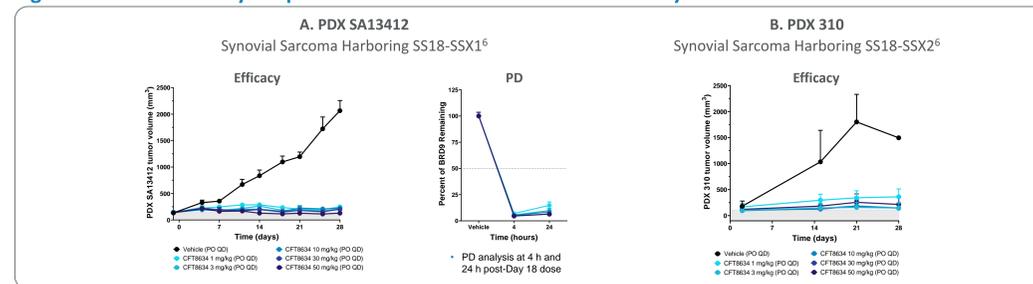
## PRE-CLINICAL DATA: IN VIVO IN CDX

**Figure 4: Dose Proportional Exposure and Concordant Cross-Species PK Profile in a Cell-Derived Xenograft (Yamato-SS)**

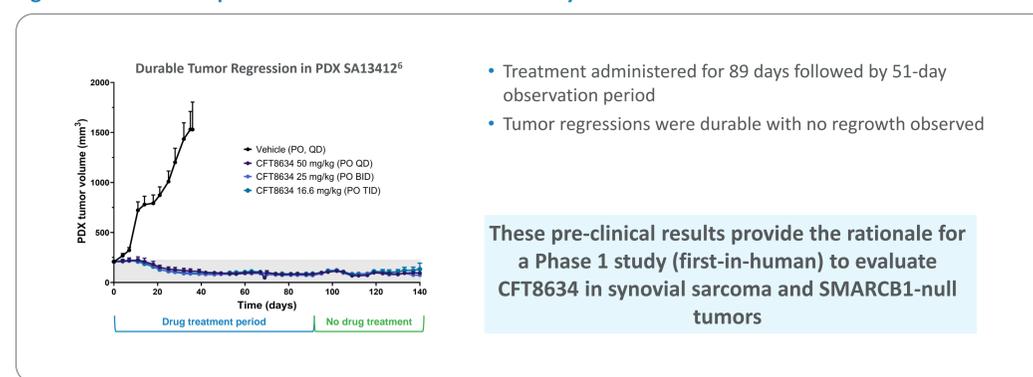


## PRE-CLINICAL DATA: IN VIVO IN PDX

**Figure 5: Robust Efficacy Response Observed in Two PDX Models of Synovial Sarcoma**



**Figure 6: Durable Response Observed in a PDX Model of Synovial Sarcoma**

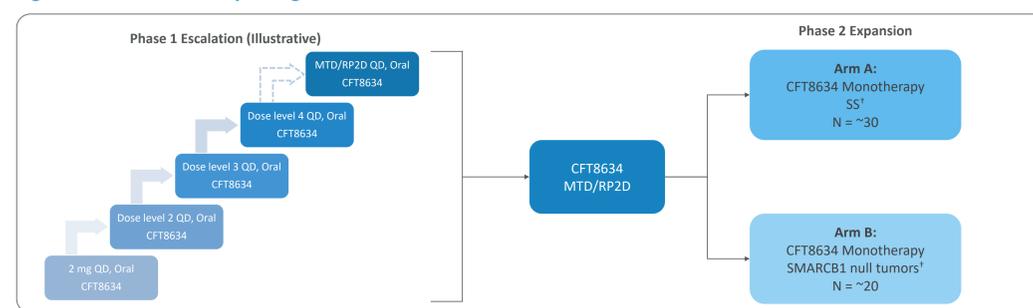


These pre-clinical results provide the rationale for a Phase 1 study (first-in-human) to evaluate CFT8634 in synovial sarcoma and SMARCB1-null tumors

## Phase 1/2: FIRST-IN-HUMAN CLINICAL STUDY DESIGN<sup>7</sup>

- Open-label, multicenter, Phase 1/2 clinical trial with dose escalation and expansion phases<sup>7</sup>
- Dose escalation phase, beginning with a starting oral dose of 2 mg daily, will follow a Bayesian logistic regression model until determination of the MTD and/or RP2D
  - Escalation will include synovial sarcoma and SMARCB1 deleted solid tumors (N = ~40)
- N=110 patients (approximately) at 10 US sites will be enrolled
- Registered on ClinicalTrials.gov as NCT05355753, study is open for enrollment

**Figure 7: CFT8634 Study Design**



\*CFT8634 is administered in 28-day cycles until disease progression or intolerable toxicity. †Once the RP2D has been declared, expansion arms for synovial sarcoma and SMARCB1-null tumors will begin enrollment.

## FIRST-IN-HUMAN STUDY DESIGN<sup>7</sup>

### KEY ELIGIBILITY CRITERIA

#### KEY INCLUSION CRITERIA

- SS or SMARCB1-null tumors confirmed by immunohistochemistry, fluorescent in situ hybridization, or other equivalent tests like gene mutation analysis, with unresectable or metastatic disease
- At least 1 prior line of standard-of-care systemic therapy
- Patients must not be candidates for available therapies that are known to confer clinical benefit and must be ≥18 years of age, or ≥16 years old and weigh ≥50 kg

#### KEY EXCLUSION CRITERIA

- Systemic anti-neoplastic therapy within 14 days or 5 half-lives, whichever is shorter, prior to the planned first dose of CFT8634
- Patient should not have received another BRD9 degrader

### STUDY ENDPOINTS<sup>7</sup>

#### PRIMARY ENDPOINT

- Frequency and severity of AEs and SAEs of CFT8634
- Changes between baseline and post baseline safety assessments
- ORR (Phase 2)
- Changes from baseline in ECG parameters
- Frequency of dose interruptions and dose reductions
- Incidence of DLTs during escalation

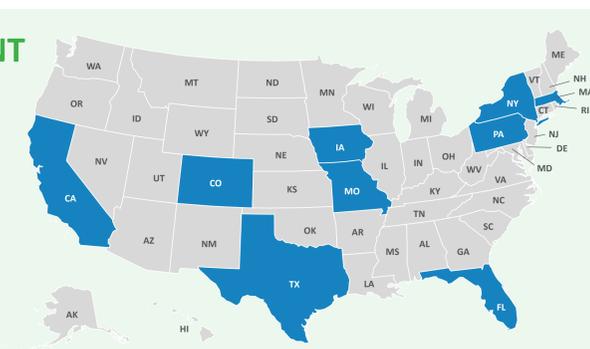
#### SECONDARY ENDPOINTS

- Assessment of PK and PD
- ORR (Phase 1)
- DoR
- PFS
- OS
- Time to next treatment

### STUDY STATUS/ENROLLMENT

- The study opened to accrual in March 2022 and will be recruiting ~N=110 patients from 10 sites\* in the USA<sup>7</sup>
- Trial registration: NCT05355753
- As of 09/27/2022, 5 sites have initiated recruitment
- Contact information: [clinicaltrials@c4therapeutics.com](mailto:clinicaltrials@c4therapeutics.com)

\*Blue colored states indicate clinical trial sites



**Abbreviations**  
 AE, adverse event; BID, twice daily; BRD4, bromodomain containing 4; BRD7, bromodomain containing 7; BRD9, bromodomain containing 9; cBAF, canonical BAF; CDX, cell line-derived xenograft; CRBN, cereblon; DoR, duration of response; DLT, dose limiting toxicity; ECG, electrocardiogram; HIBIT, high affinity bioluminescent tag; MTD, maximum tolerated dose; ncBAF, noncanonical BAF; ORR, overall response rate; OS, overall survival; pBAF, polybrominated BAF; PD, pharmacodynamics; PDX, patient-derived xenografts; PFS, progression free survival; PK, pharmacokinetics; PO, by mouth; QD, once daily; RP2D, recommended phase 2 dose; SAE, serious adverse event; SMARCB1, SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily B member 1; SS, synovial sarcoma; SA, stock and other ownership interests; Johnson & Johnson, Medtronic; Ingelheim, Salarius Pharmaceuticals, Theseus Pharmaceuticals, Monopar Therapeutics, C4 Therapeutics, Inhibrx, Novopharm and Rain Therapeutics. 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