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# Delivering on our Mission to Develop Targeted Therapies for Rare Cancers



### Successfully executing on MOMENTUM pivotal clinical trial

- Over-enrolled (ahead of anticipated timing)
- Data expected 1Q 2022
- NDA filing expected mid-2022

Data analyses from SIMPLIFY-1 and -2 have reinforced our conviction that MMB could become the cornerstone therapy for patients with myelofibrosis

#### In-licensing AZD5153 supports our mission

- Potential to improve outcomes in MF patients with MMB / 5153 combo
- Potential to expand development into other cancer types
- Low capital investment until post MMB pivotal data
- Solid IP runway

## Strategic Rationale for Adding a BET Inhibitor to Sierra's Portfolio



MF landscape is evolving with multiple combination studies ongoing

BET inhibition has shown initial proof-of-concept with disease-modifying potential

MMB could be the JAKi backbone of choice for BETi and other emerging MOAs with its favorable hematologic profile and potential benefits for myelosuppressed patients

Clinical validation of a MMB + BETi combination expands Sierra's opportunity

- 1. Potential for deeper and more durable responses and disease modification in MF
- 2. Protects and lengthens MMB's peak adoption if combination therapies become the mainstay of MF treatment; and
- 3. Pipeline expansion opportunities in other hematologic or solid tumor indications, through potential combos with SRA737, I/O, PARP and other MOAs

## AZD5153: a Potent, Highly Selective & Differentiated BET Inhibitor



Selective inhibitor of the two BRD4 BET protein bromodomains (BD1, BD2)

• **Differentiated bivalent inhibitory activity** results in more potent and complete target inhibition relative to monovalent binders

**Potent** antiproliferative activity in heme cell-lines, typically with  $GI_{50}$  values of  $\leq 100$ nM

**Significant single agent anti-tumor activity** in hematological xenograft models and in primary PDX models harboring BRD4 amplification

**Potent modulation of clinically-relevant on-target biomarkers** (e.g., MYC, HEXIM) corresponding to substantive TGI

Synergistic preclinical efficacy in combination with diverse agents

 Interestingly, profound synergy was observed between AZD5153 and the AZ ATRi, suggesting potential utility in combination with SRA737



#### **AZD5153 Clinical Observations**

### Active, well-tolerated, manageable safety as monotherapy and in combination with olaparib

- Has been dosed as monotherapy for >80 weeks and in combo with olaparib for >39 weeks
- Dose dependent exposure observed in the clinic
- Exposure-dependent modulation of PD biomarkers observed in peripheral blood samples from patients treated with AZD5153
- Expected correlation between exposure and platelet count decrease was observed
- Thrombocytopenia was manageable and reversible at doses above MEC
- Monotherapy overall appeared safe and tolerable with most common AEs being GI events, fatigue, thrombocytopenia, dysgeusia, dyspnea and anemia
  - Far majority were Grade 1-2



### Momelotinib + AZD5153 May Be a Powerful JAKi + BETi Combo

#### **Potential Benefits Include:**

- Improvements in splenomegaly, symptoms and anemia
- Lack of dose-limiting myelosuppression
- Durable dose intensity



- Disease modifying antifibrotic, anti-inflammatory & anti-clonal activity
- Synergistic NF-kB inhibition

- Bivalent binding mode leads to modification of pathological cellular processes
- Improved potency and more complete target inhibition

Momelotinib

AZD5153

## Phase 2 MMB / AZD5153 Combo Study in MF – Initiation Planned for 1H 2022





Planned Phase 2 study will be designed to optimize dosing and provide proof-ofconcept for Phase 3 trial design



Pharmacodynamic biomarker assessments will confirm target engagement and combination activity



Data from this trial
will inform future
development plans,
including a potential
registration-enabling
Phase 3 study



This study will also support our hypothesis that momelotinib is an optimal combination agent in myelofibrosis