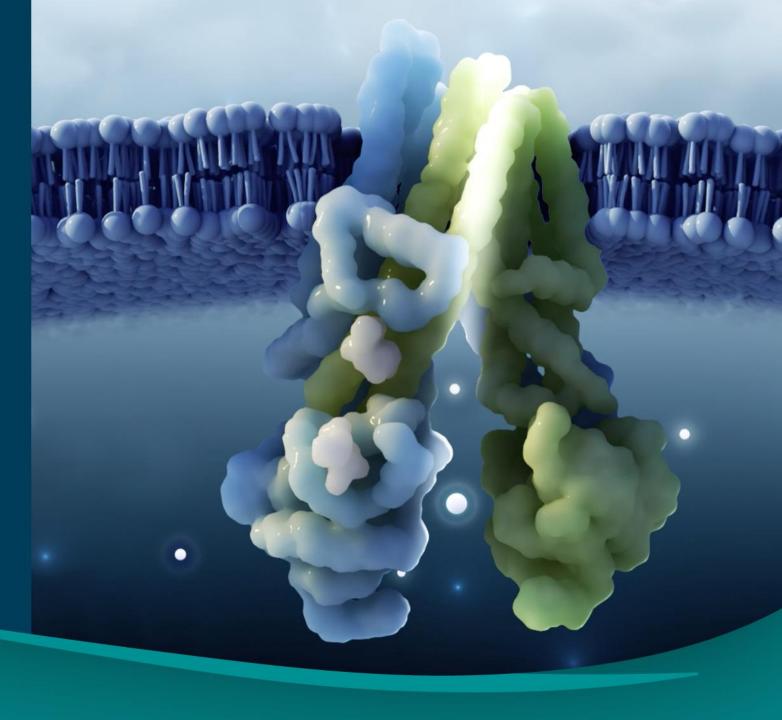
Mike Cloonan, President & CEO

41st Annual J.P. Morgan Healthcare Conference

January 2023

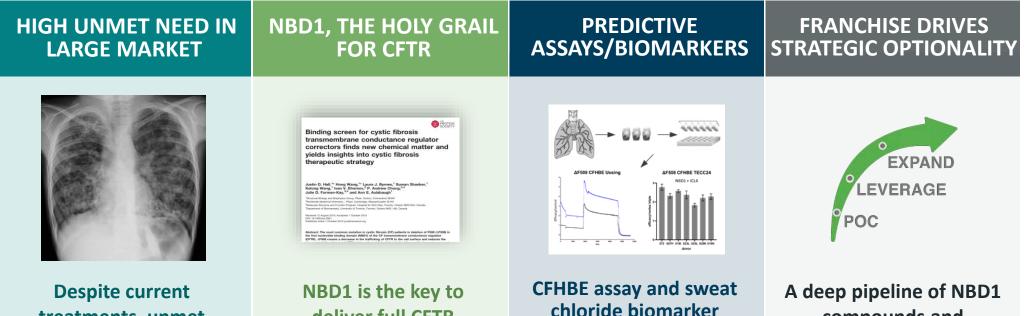




What if we could deliver full CFTR correction and the optimal clinical benefit for people with Cystic Fibrosis?



Sionna's differentiated approach focused on NBD1 has a clear path to POC with the potential to deliver best-in-class efficacy



treatments, unmet need is high in the \$9B market NBD1 is the key to deliver full CFTR function and has been considered 'undruggable' CFHBE assay and sweat chloride biomarker consistently predict clinical efficacy driving near-term value inflection

A deep pipeline of NBD1 compounds and complementary modulators can significantly raise the efficacy bar



Led by proven management capable of disrupting the CF market



Mike Cloonan Chief Executive Officer





Charlotte McKee, MD Chief Medical Officer Infinity[®] VERTEX Wyeth Brigham and Women's Hospital





John Macor, PhD Chief Scientific Officer





H Bristol Myers Squibb[™]



Elena Ridloff **Chief Financial Officer** 🔿 A C A D I A^{*} ALEXION



Vanya Sagar **Chief People Officer** Affinivax sigilön Biogen therapeutics



Greg Hurlbut, PhD Co-Founder SVP, Discovery Research sanofi

genzyme



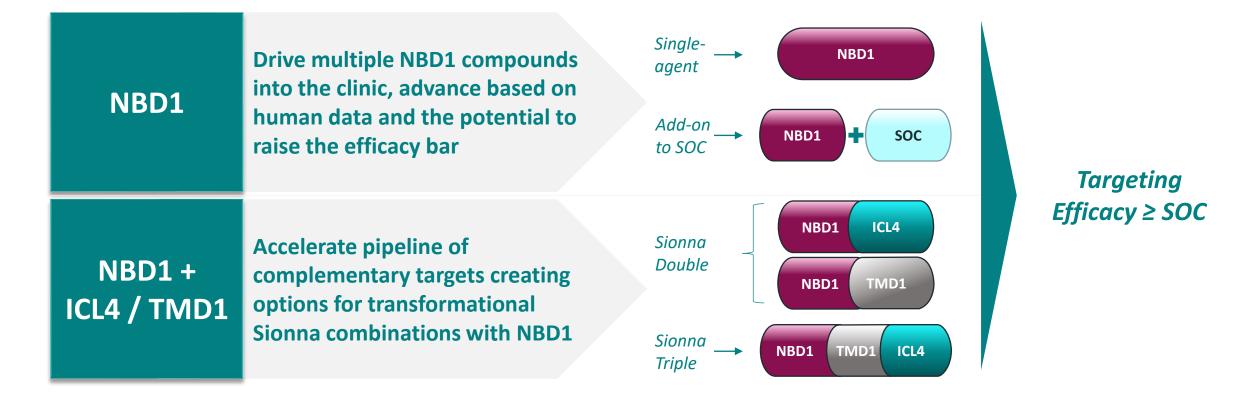
Mark Munson, PhD Co-Founder VP, Medicinal Chemistry

sanofi **AMGEN**[®]

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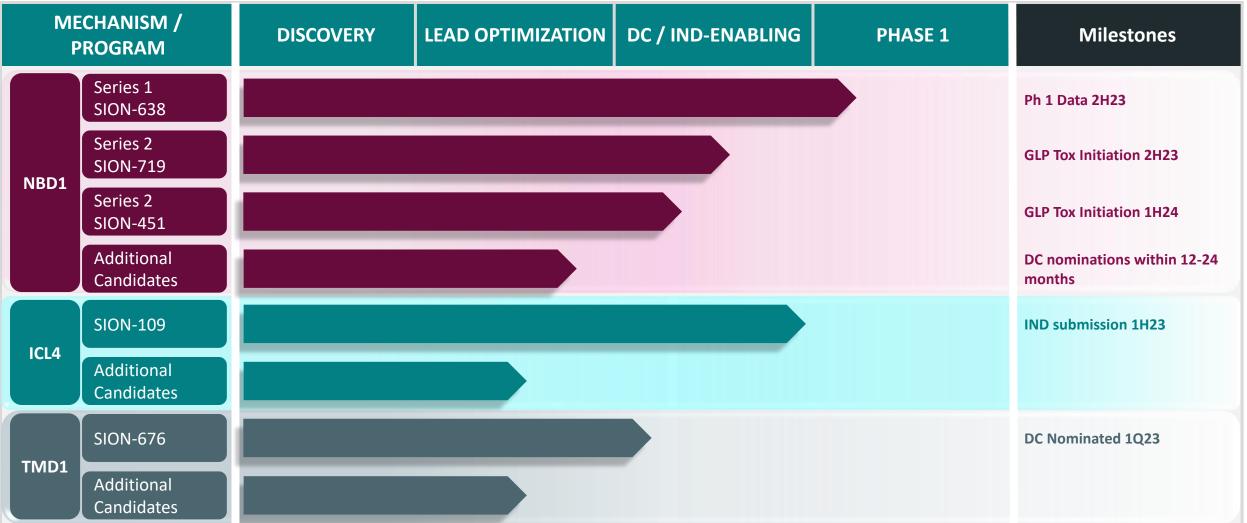
Sionna's strategy is to build a CF franchise across MOAs, anchored by novel NBD1, delivering higher efficacy than SOC



Vision: Deliver transformational option to fully normalize CFTR function, become the SOC



Sionna is advancing a robust pipeline with multiple near-term milestones

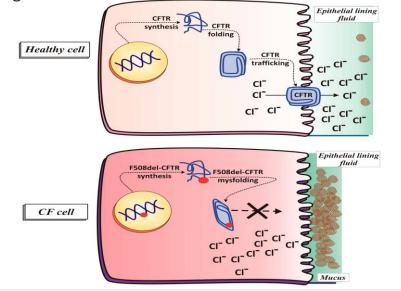




CFTR is a fully validated target, and unlocking NBD1 could deliver optimal clinical benefit

The Biology of CF

- Driven by mutation of the CF transmembrane conductance regulator (CFTR)
- CFTR is an epithelial chloride channel essential to the production of thin, freely flowing mucus in the airways, digestive system, and other organs



The Importance of NBD1

- F508 is present within CFTR's NBD1 domain
- ΔF508 causes NBD1 to unfold at body temperature and weakens NBD1's interface with other regions; these defects cripple CFTR folding, trafficking and function
- <u>None</u> of the existing correctors or potentiators address both ΔF508-CFTR's assembly and its NBD1 instability defects
- ~90% of patients with CF have a $\Delta F508$ mutation

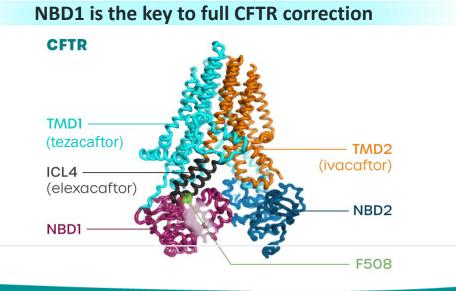
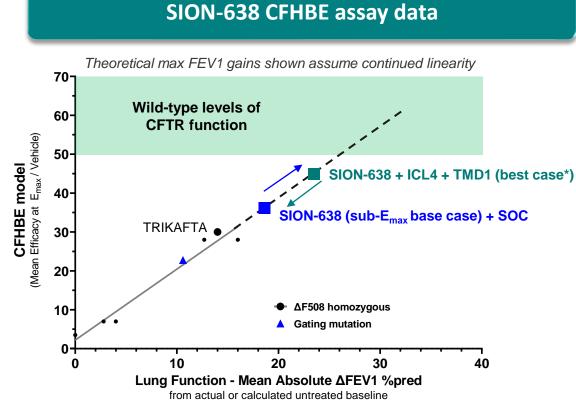




Image Source: J. Clin. Med. 2019, "An Intriguing Involvement of Mitochondria in Cystic Fibrosis" The CFHBE assay is the validated in vitro model that has consistently predicted clinical outcomes



SION-638: First-in-class, clinical stage NBD1 modulator with the potential to deliver higher efficacy



^{*}Sionna triple at E_{max}

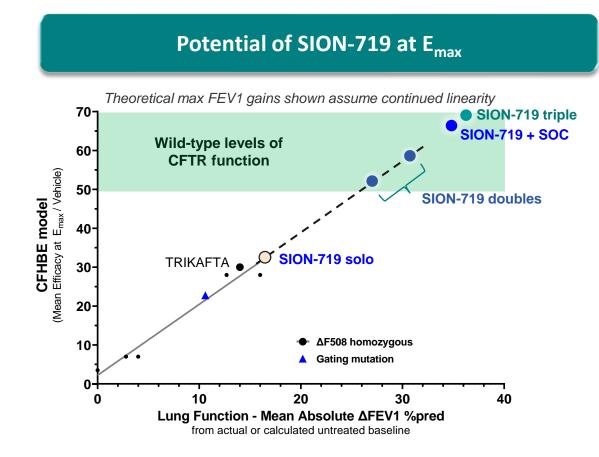
Multiple options to raise the efficacy bar

In the clinically predictive CFHBE assay, SION-638 shows:

- Improved efficacy as add-on to Trikafta vs. Trikafta
- Greater efficacy vs. Trikafta in a Sionna triple combination
- Potential to approach wild-type levels of CFTR function with higher SION-638 exposures



SION-719: Series 2 NBD1 development candidate demonstrates potential to normalize CFTR function



Multiple options to raise the efficacy bar

In the clinically predictive CFHBE assay Sionna DCs have demonstrated the potential for:

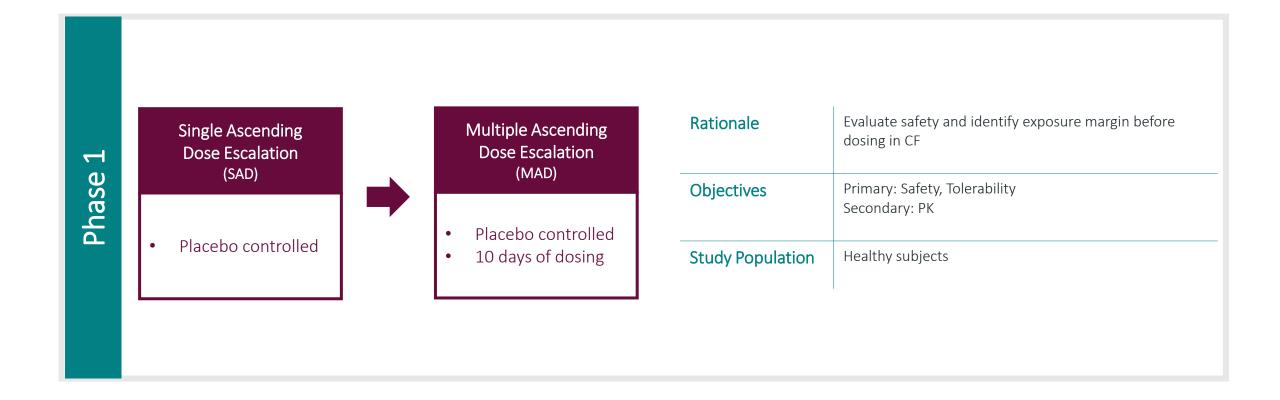
- Single-agent efficacy equivalent to Trikafta
- Wild-type levels of CFTR function in a Sionna combination
- Wild-type levels of CFTR function as add-on to Trikafta
- DC SION-451 has demonstrated similar results in CFHBE assay



The portfolio and clinical strategy deliver several near-term value inflections

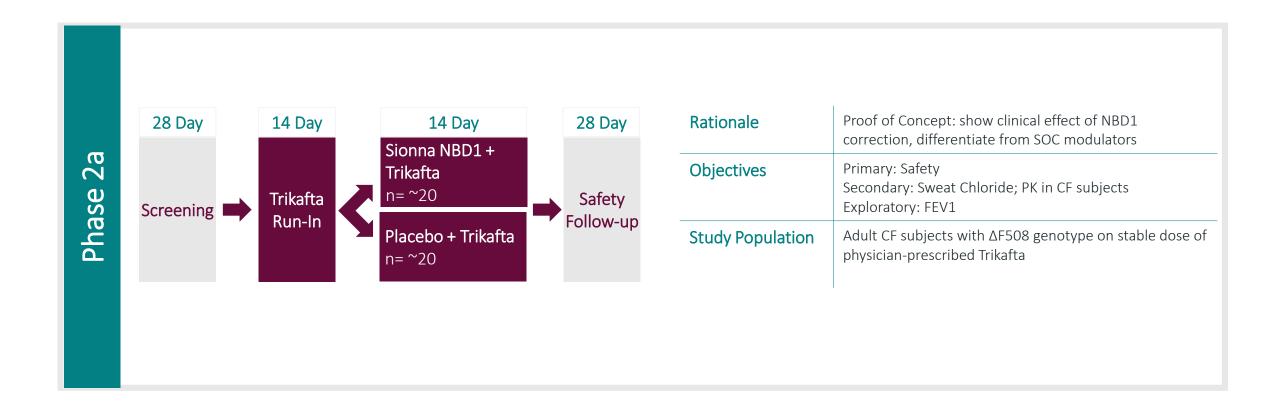


SION-638 Phase 1 study ongoing with data expected 2H23



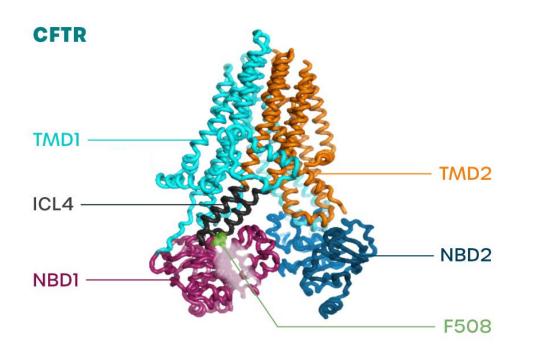


NBD1 Proof-of-Concept study will be a Phase 2a add-on to Trikafta





Advancing paths to Sionna proprietary combinations with SION-109 (ICL4 directed) and SION-676 (TMD1 directed)



Robust preclinical data packages support advancement of SION-109 and SION-676

- Attractive potencies and drug-like properties
- Clean exploratory 14-day rat and dog tox with robust margins
- '676 significantly more potent than other TMD1 correctors

SION-109 IND-enabling studies complete and support a potential IND in 1H23

SION-109 API and DP manufacturing complete to support Phase 1

Combo DevelopmentAdvance Sionna proprietary double combination with potential forStrategy:full CFTR correction



Sionna is well positioned to advance its pipeline

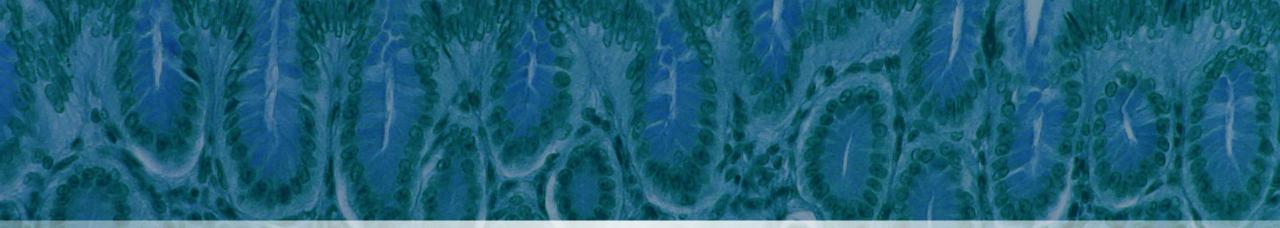




Advancing game changing therapies, building significant near-term value, and driving to raise the efficacy bar in CF







Thank you

