Conditionally Active Biologics: Transforming Cancer Therapy

JPM Conference 2023

Fireside Chat January 10, 2023



Important Notices & Disclaimers

This presentation (the "Presentation") by BioAtla, Inc. ("we", "us", "our", "BioAtla", or the "Company") contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995 relating to our business, operations and financial conditions, including but not limited to current beliefs, expectations and assumptions regarding the future of our business, future plans and strategies, results of clinical trials and other future conditions. Words such as, but not limited to, "anticipate", "believe", "could", "estimate", "expect", "intend", "may", "plan", "potential", "predict", "project", "should", "will", "would" or the negative of those terms, and similar expressions that convey uncertainty of future events or outcomes, identify forward-looking statements.

These forward-looking statements reflect management's beliefs and views with respect to future events and are based on estimates and assumptions as of the date of this Presentation and are subject to risks and uncertainties, including those described in the Company's filings with the SEC, including but not limited to the Company's latest Quarterly Report on Form 10-Q. Moreover, the Company operates in a very competitive and rapidly changing environment. New risks emerge from time to time. It is not possible for management to predict all risks, nor can the Company assess the impact of all factors on its business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements we may make. Given these uncertainties, you should not place undue reliance on these forward-looking statements. The Company qualifies all the forward-looking statements in this Presentation by these cautionary statements. Except as required by law, the Company undertakes no obligation to publicly update any forward-looking statements, whether as a result of new information, future events or otherwise.

Statements contained herein are made as of the date of this Presentation unless stated otherwise, and this Presentation shall not under any circumstances create an implication that the information contained herein is correct as of any time after such date or that the information will be updated or revisited to reflect information that subsequently becomes available or changes occurring after that date hereof.

Certain information contained in this Presentation relates to or is based on statistical and other industry and market data obtained from independent industry publications and research, surveys and studies conducted by independent third parties as well as the Company's own estimates of the prevalence of certain diseases and conditions. The market data used in this Presentation involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such data. Industry publications and third-party research, surveys and studies generally indicate that their information has been obtained from sources believed to be reliable, although they do not guarantee the accuracy or completeness of such information. The Company's estimates of the patient population with the potential to benefit from treatment with any product candidates the Company may develop include several key assumptions based on its industry knowledge, industry publications and third-party research, which may be based on a small sample size and may fail to accurately reflect the addressable patient population. While the Company believes that its internal assumptions are reasonable, no independent source has verified such assumptions.

This Presentation may contain trademarks, trade names, or service marks belonging to other entities. The Company does not intend the use or display of other parties' trade names, trademarks or service marks to imply a relationship with, or endorsement or sponsorship of, or by these other parties.

None of the Company or any of its directors, officers, employees, contractors, agents, consultants, advisors or other representatives makes any representation or warranty, express or implied, as to the accuracy or completeness of the information contained in this Presentation.



BioAtla[©] is a clinical stage company focused on transforming cancer therapy with Conditionally Active Biologics (CABs)

Two Phase 2 CAB-ADCs Proprietary technology **Diversified** pipeline Strong cash position and one Phase 1 (>700 patents) CAB-CTLA-4 Near-term clinical \$178.1MM (3Q22) + \$65MM Broad applicability in solid readouts for multiple (RD 11/12) with runway into Interim BA3011 Phase 2 indications 1H 2025 tumors data supports advancing to registration studies in Increases therapeutic Strategic optionality Sufficient through key multiple sarcoma and window clinical milestones NSCLC indications



Selective and targeted CAB technology widens therapeutic window,

thus has the potential to enhance clinical outcomes in multiple tumor types



BioAtla discovered that acidic pH at the cancer cell surface unveils binding sites that are shielded at normal pH of healthy cells



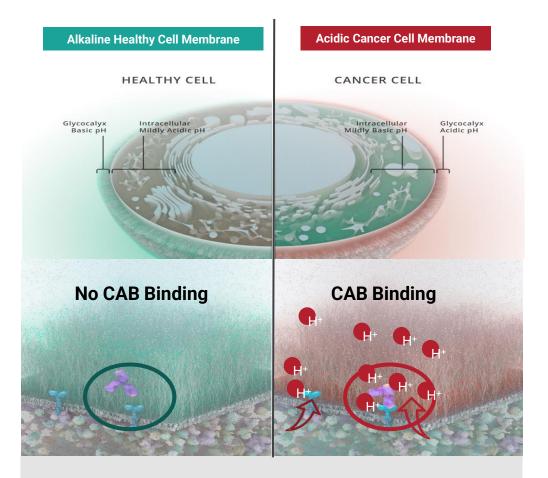
BioAtla invented CAB technology, creating antibodies that bind **only** to these unveiled sites on cancer cells



CAB binding region is not masked or caged and thus different from prodrugs that require irreversible enzymatic cleavage to become activated



CAB antibodies have the potential for increased efficacy with improved safety relative to traditional antibodies

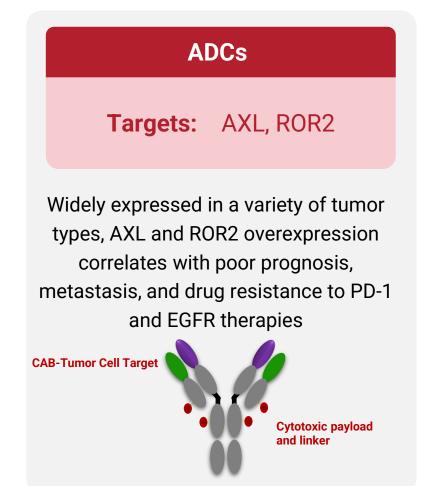


Chang, H.W., Frey, G., Liu, H., Xing, C., Steinman, L, Boyle, B.J., & Short, J.M. (2021) PNAS 118(9): 1-10, Suppl. 1-19.



Broad applicability of BioAtla's CAB platform across several antibody types

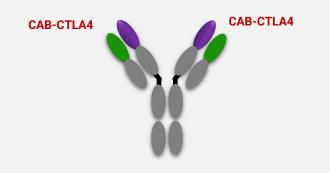
has the potential to treat multiple solid tumors



Naked Antibodies I/O

Target: CTLA-4

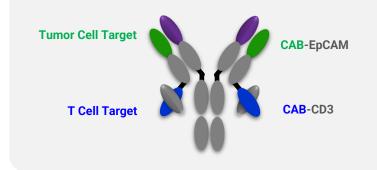
CTLA-4 blockade activates effector T cells, thereby enhancing antitumor immunity



Bispecific TCE

Target: EpCAM & CD3

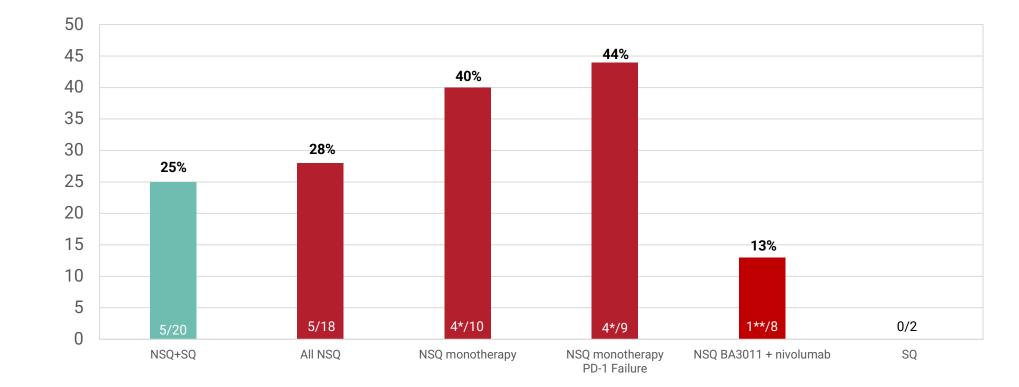
Bispecific antibodies bridge cancer cells and cytotoxic T lymphocytes, activating T cells and promoting cancer cell lysis





Phase 2 part 1 BA3011 NSCLC initial interim analysis

supports advancing preparations for part 2 potentially registration study in PD-1 failure NSCLC



W/D – withdrew; NSQ – non-squamous; SQ – squamous Responses include 4 partial responses (*) and one complete response (**)

ORR (%)

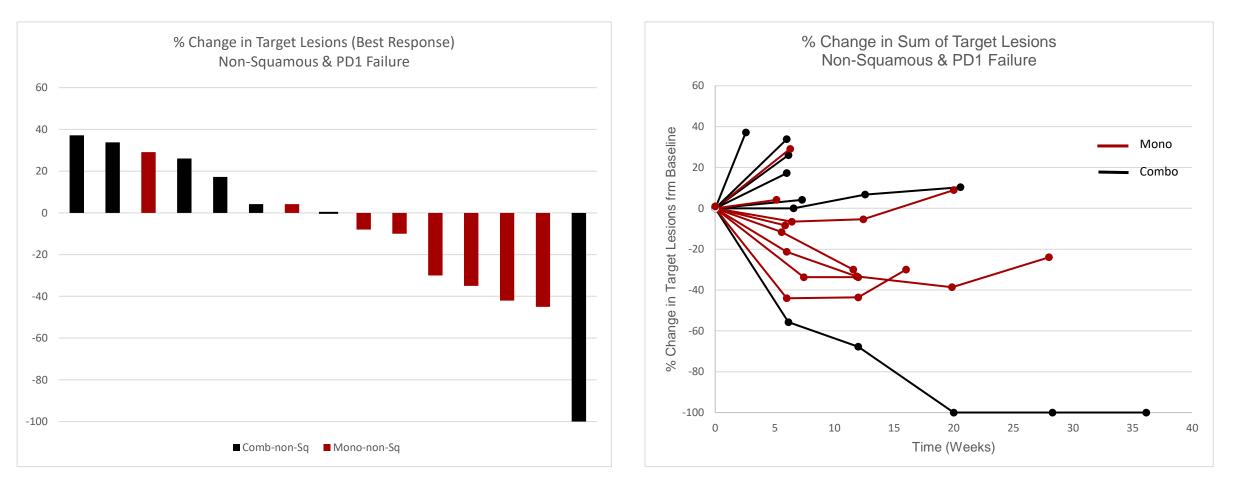


Average prior lines of therapy = 3

Interim data- Data cut-off of Jan 4, 2023

Change from Baseline in Sum of Target Lesions

Non-Squamous / PD-1 Failure





Promising safety and tolerability profile continues to emerge in NSCLC Phase 2 at the RP2D 1.8 mg/kg Q2W

Characteristic		BA3011 (N=18)	BA3011 + Opdivo (N=9)
Any Adverse Events (AEs)		17 (94%)	9 (100%)
Related AEs with CTCAE ¹ Grade 3 or 4^2		5 (28%)	2 (22%)
Any related serious AEs ²		2 (11%)*	3 (33%)^
Related AEs leading to death ²		0	0
Related AEs leading to treatment discontinuation ²		2 (11%) [§]	0
	Constipation	All Grade 1-2 (1	1%)
	Peripheral Neuropathy	All Grade 1-2 (1	5%)
	Diarrhea	All Grade 1-2 (1	5%)

No grade 3 – 4 AEs related to constipation, peripheral neuropathy or diarrhea observed. Low-grade constipation observed is consistent with baseline levels seen in advanced cancer patients.

- No treatment-related deaths
- Few treatment-related SAEs
- Few AEs leading to treatment discontinuation
- No clinically meaningful on-target toxicity observed over background
- Differentiated profile due to avoiding on-target off-tumor toxicity

Interim data- Data cut-off of Dec 21, 2022

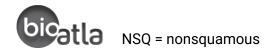


Note: ¹CTCAE: Common Terminology Criteria for Adverse Events. The NCI Common Terminology Criteria for Adverse Events is a descriptive terminology which is utilized for Adverse Event (AE) reporting. A grading (severity) scale is provided for each AE term. ²As assessed by the investigator. Missing responses are counted as related. *DKA & infusion reaction ^creatinine increase, diplopia (subsequently deemed unrelated to BA3011 post data transfer) & acute kidney injury; [§] DKA & infusion reaction

BA3011 Phase 2 part 1 NSCLC

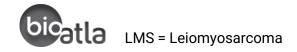
Key Takeaways

- Impressive response in monotherapy NSQ PD-1 failure population
- Durability of response looks promising
- Emerging safety profile continues to be differentiated
- Preparing for FDA interactions in 1H
- NSQ PD-1 failure population represents a significant unmet need and commercial opportunity



Sarcoma Update

- UPS Phase 2 part 2 potentially registrational study design
 - Total of ~80 AXL-expressing UPS patients are planned to be enrolled
 - $\circ~$ FDA supportive of investigating a more frequent dosing regimen
 - First 40 patients with a TmPS >= 50% will be randomized 1:1 to two different dosing arms including a more frequent dosing regimen
 - Additional 40 patients will be enrolled at the selected dose
 - Primary efficacy endpoint for is objective response rate (ORR) per RECIST v1.1
 - \circ Primary efficacy analysis will be based on ~60 patients treated at the selected dosing regimen
 - Prior systemic regimens limited to ≤ 3
- Currently studying more frequent dosing regimen in LMS (n = 10) First patient first scan had a 29.6% reduction in tumor lesion size; Other patients' data pending



BA3021 Program Update

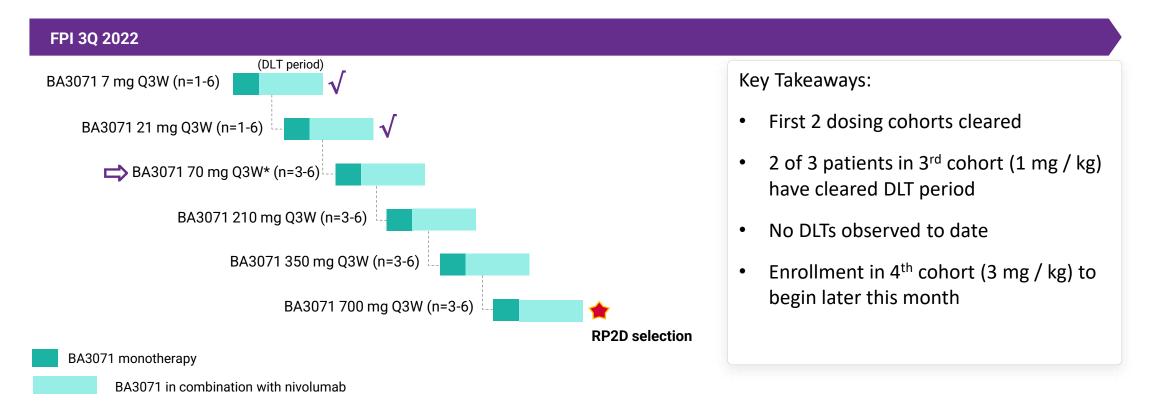
ROR2+ Tumor Types	Status
NSCLC	 Currently enrolling phase 2 part 1 Anticipate preliminary data update at or around Q1 quarterly call
Melanoma	 Implementing liquid biopsy as part of study protocol Anticipate enrollment update at or around Q1 quarterly call
SCCHN	 Multiple sites activated Actively screening patients for ROR2 expression

No ROR2 ADC or small molecules in the clinic to date, suggesting CAB-ROR2-ADC is a first-in-class therapy across multiple tumor types



Phase 1/2 trial design for CAB-CTLA-4 Naked Antibody (BA3071)

in tumors known to be responsive to CTLA-4 treatment



Determine Phase 2 dose and MTD

Objectives

- Characterize safety and clinical activity of BA3071 monotherapy and in combination with a PD-1 inhibitor (Nivolumab)
- Characterize PK, ADA and biomarkers



Expected timing for key milestones in 2023

CAB-ADCs

CAB-I/O

CAB-Bispecifics

