XXVI Encuentro de Cooperación Farma-Biotech

19 de noviembre de 2025

BO-112: a non-coding double-stranded ribonucleic acid (dsRNA)



Marisol Quintero







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Content

- 1. The Institution
- 2. The Product
 - a) Target Indications
 - b) Innovative mechanisms of action
 - c) Differential features facing the market
 - d) Current status of development
 - e) IPR protection
 - f) Pitfalls & Risks to be considered
- 3. Partnering Opportunities

HIGHLIGHT THERAPEUTICS: PRIVATE BIOTECH ADVANCING AN INNOVATIVE SKIN CANCER THERAPY INTO LATE STAGE DEVELOPMENT



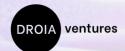
Board

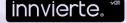
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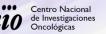
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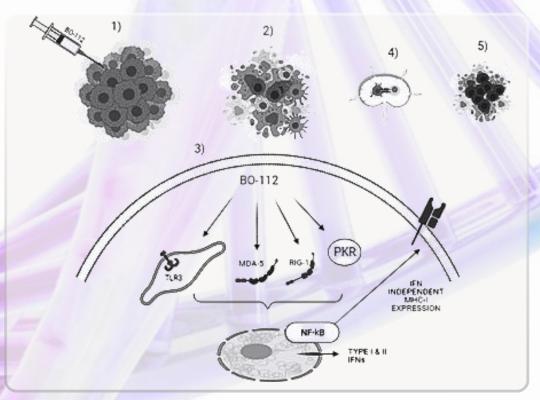


LEAD DEVELOPMENT CANDIDATE BO-112: A POTENT IMMUNE MODULATOR

BO-112 is a non-coding double-stranded ribonucleic acid (dsRNA) based on **Polyinosinic Acid • Polycytidylic Acid** (Poly I:C) formulated with polyethyleneimeine (PEI).

It is an analog of double-stranded viral RNA thereby mimicking effects of a viral infection.

Mechanism of Action includes innate and adaptive immune system activation mediated by TLR3, MDA5, RIG-I, and PKR and direct tumor cell death creating a long-lasting immune response.



Aznar MA et al. J Immunother Cancer. 2019 May 2;7(1):116. Kalbasi A et al Sci Transl Med. 2020 Oct 14;12(565).

BO-112 AVAILABLE DATA: END TO END PACKAGE



Chemistry, manufacturing, and controls

Robust and up-scalable manufacture / Seven GMP batches. Storage at 4°C.

Non-clinical data

Non-clinical pharmacology covered by extensive in vitro and in vivo data. Comprehensive toxicology package according to ICH S9 and M3(R2) requirements.

Clinical Efficacy and Safety

Outstanding efficacy in advanced a-PD-1 R/R melanoma (25% ORR). Preliminary monotherapy efficacy in high-risk basal cell carcinoma (lead indication). Mild and transient safety profile in more than 130 patients & various indications.

Fast to market development strategy

With limited competition: potential for use as monotherapy for non-melanoma skin tumors.

Intellectual Property

Robust IP and technical protection in support of a full and effective lifecycle.

Cost of Goods

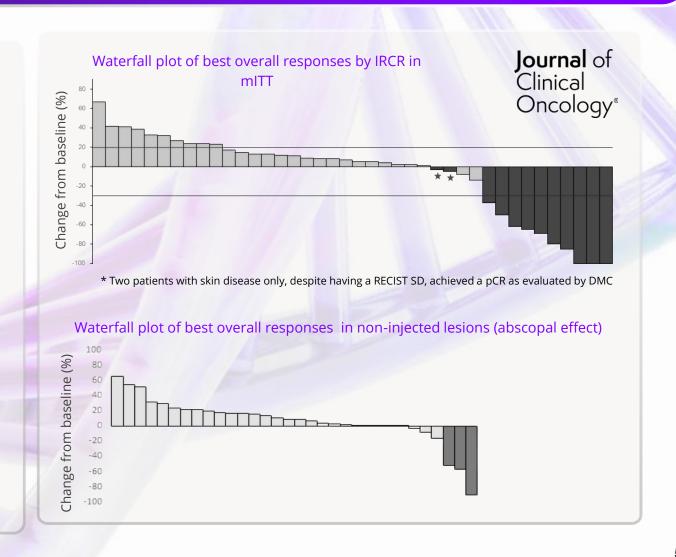
Attractive cost of goods



PHASE II SPOTLIGHT-203: BO-112 PLUS PEMBROLIZUMAB FOR PATIENTS WITH ANTI-PD-1-RESISTANT ADVANCED MELANOMA, ORR 25%



- 42 participants with unresectable stage III (9.52%) or stage IV (90.48%) melanoma with confirmed progression on prior anti-PD/L1 per SITC criteria were enrolled in the study.
- Efficacy: 40 patients were evaluable and assessed by an Independent Review Committee according to RECIST 1.1.
 - Objective Response Rate 25% (95% CI: 12.69%, 41.20%, p=0.0008).
 - Four (10%) patients achieved complete response and six (15%) partial response.
 - Abscopal responses observed.
 - Disease Control Rate 67.5% (95% CI: 50.87%, 81.43%).
 - Seventeen (42.5%) patients achieved stable disease
 - Median PFS was 3.7 months (95% CI, 2.2 to 9.2)
 - Median OS was not reached (95% CI, 9.9 to NA), with 54% patients alive at 24 months.
- **Safety:** combination was well tolerated: 16 patients (38.1%) experiencing ≥G3-4 adverse events with four of them (9.5%) drug-related, and no deaths related to treatment.



PHASE IIB SPOTLIGHT-204: BO-112 MONOTHERAPY IN BCC (LEAD INDICATION)



Multicenter, Phase 2b, open-label, non-randomized, clinical trial to evaluate safety, tolerability and preliminary efficacy of **intra-lesional BO-112 as monotherapy** in patients with resectable primary LOW and HIGH -risk basal cell carcinoma (NCT06422936).

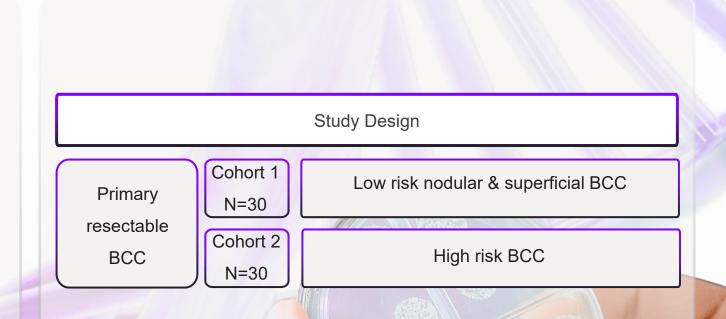
Enrollment planned to complete in Q4 2025

Eligibility

- Up to 8 injectable and resectable primary BCC lesions.
- · Patients with Gorlin's syndrome are excluded.

Primary endpoint

 Composite visual and pathological response [at surgery] on patient level assessed by central review.



BO-112 EFFICACY IN BCC – CASE REPORT



A 75 years old male presented with 14 mm high-risk mixed infiltrative BCC in the right periauricular area.

Patient achieved complete visual and pathological response



Baseline

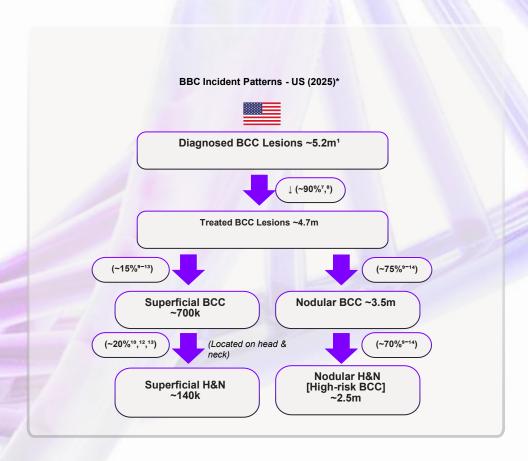


Prior to surgery (Week 24)

LARGE BCC MARKET AND RISING INCIDENCE



- There is an unmet medical need for non-surgical options in patients with high-risk BCC lesions in cosmetically sensitive areas (i.e. Head & Neck) and multiple lesions.
- Estimated market of high-risk BCC in Nodular Head
 Neck to be ~ 2.5 million lesions in the US.
- Market amenable to intralesional therapy.
- Physician dispensed.
- BO/112 to be positioned as a product to treat cosmetically sensitive high risk BCC lesions as alternative option to (Mohs) surgery or as complementary treatment to minimize surgical risks.



^{*}Literature based sources

KEY TAKEAWAYS BO-112 AT THE FOREFRONT OF SKIN TUMOR CARE





Novel efficacious solution for local treatment of skin tumors

Differentiated MOA capable of killing tumor cells and activating immune cells

Protected technology & well-established IP strategy. Global rights granted until 2041



Robust Clinical data

Proven efficacy in advanced melanoma

Promising efficacy in monotherapy in BCC

Manageable favorable safety profile in combination and monotherapy



Attractive commercial opportunity

Ideal combination partner for immuno-dermato-oncology treatments

Unique competitive advantage as loco-regional monotherapy with potential to cure BCC

Fast-to-market opportunity

Potential to expand to other indications

