XXV Encuentro de Cooperación Farma-Biotech

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Onconeovac, a personalized immunotherapy for the treatment of cancer



Olga Rué / Marta Corral









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The Company

□ NEMA HEALTH was incorporated in March 2024 as a spin-off company of Universitat de Lleida and VHIR

- □ Born after going through the venture building program **The Collider** of Mobile World Capital Barcelona
- □ Complementary founding team:



Olga Rué CEO & co-founder



Marta Corral, PhD CSO & co-founder



Joan Verdaguer, MD, PhD Scientific advisor & co-founder Universitat de Lleida



Jordi Barquinero, MD, PhD Scientific advisor & co-founder Vall d'Hebrón Institut de Recerca





EVA Muñoz Medical Advisor



Luis Ruíz Strategy Advisor

The Product: Target indications

MELANOMA

IS THE MOST MALIGNANT IMMUNOGENIC TUMOR

Stage I - II Localized to epidermis

Surgery is enough

99% survival

Stage III Disease spread to lymph nodes or nearby skin Mainly targeted therapy and/or immunotherapy 60% survival Stage IV Metastasis to other

internal organs

Mainly targeted therapy

and/or immunotherapy

25% survival

The Product: Target indications

MELANOMA CHALLENGES: RESISTANCE, ADVERSE EFFECTS, AND MORTALITY

20-30%

of patients will **advance to late stages** and **die in the next 5 years** 55%

of melanoma patients show

resistance to current

treatments

43%

of melanoma patients show chronic adverse events

The Product: Target indications



The Product: Innovative mechanism of action

ONCONEOVAC, a neoantigen and DIF Peptides based immunotherapy

Manufacturing process:

- 1. Obtention of ALL the neoantigens by mechanically disrupting a sample of the patient's tumor.
- 2. Addition of proprietary peptides with immunostimulatory properties.



There is an activation of the innate and adaptive immune system of the patients against any remaining tumor cell in their body.

The Product: Differential features facing the market

ONCONEOVAC

is focused on achieving

MORE TIME to the patient

BETTER TIME for the patient

A more ACCESSIBLE & AFFORDABLE product

by improving the survival and reducing recurrences by reducing the toxicity and side effects Thanks to its simple formulation process

The Product: Differential features facing the market



The Product: Current status of development



The Product: Competitive advantages

ر ^{ال} Bristol Myers S	Squibb				1		
IMMUNOC Genente A Member of the Roche		Monoclonal Antibodies	Checkpoint Inhibitors	CAR-T cells	mRNA Vaccines	ONCONEOVAC	noderna messenger therapeutics
PYXIS	Efficacy	+	++	+++	++	++	
GENESEQ BIO SCIENCES	Safety Profile	+	+/-	+/-	+	+	AMGEN
EVAXION	Easy & Fast formulation	+	+	-	-	+++	K Lytix Biopharma
NEMA	Therapeutic Window	+	+	+	++	+++	Apexigen
	Tumor specificity	++	-	+	+	+	
	Personalized treatment	-	-	+	+	++	
	Natural immune response	-	-	+	+	+++	NOVARTIS
BIONTE							

The Product: IPR protection

- The international application PCT/EP2020/068052 claims priority from the European patent application EP19382537.9.
- The priority application was filed on 26 June 2019 in the name of UNIVERSITAT DE LLEIDA, INSTITUT DE RECERCA BIOMÈDICA DE LLEIDA
 FUNDACIÓ DR PIFARRÉ, FUNDACIÓ INSTITUT D'INVESTIGACIÓ EN CIÈNCIES DE LA SALUT GERMANS TRIAS I PUJOL and FUNDACIÓ
 HOSPITAL UNIVERSITARI VALL D'HEBRON - INSTITUT DE RECERCA.
- The European application was published on 30 December 2020 with number EP3756680.
- Granted in Japan
- In process of review in USA and Europe
- Worldwide development and commercialization rights granted to NEMA HEALTH in virtue of a License Agreement of 2024
- Lawyers firm: ABG Intelectual property

The product: Pitfalls & Risks to be considered

Lack of funding

No relevant data of preclinical studies

Impactful clinical data of competitors

No authorization for phase I clinical trial

Patent not granted in the US or Europe

Changes in regulatory applicable guidelines

Scalability barriers due to the personalization of ONCONEOVAC

Partnering opportunities

We are partnering for:

New methods of delivery
Test of ONCONEOVAC for other indications with new animal models
Other potential uses of DIF-Peptides
Veterinary use of ONCONEOVAC for the treatment of dogs cancer







Collaborations





02 Laboratory facilities



03 Grant applications



04 Regulatory advice



05 Veterinary USe Hospital Clínic Veterinari UAB

06 Medical advice



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THANK YOU

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