

XXIII Encuentro de Cooperación Farma-Biotech

28 de noviembre de 2023

IDP-121, a first-in-class drug blocking and degrading cMyc oncoprotein



Santiago Esteban, CEO



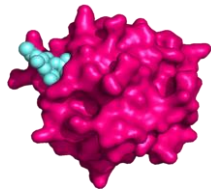
IDPs, "the invisible proteins"

Intrinsically Disordered Proteins (IDPs)

- Represent half of the human proteins
- Play key roles in human disease
- Are labelled as **undruggable targets**

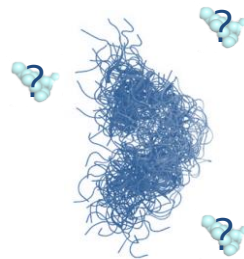
→ The structural & functional properties of IDPs depart from classical drug target standards

Classical drug target (visible)



- 3D structure
- Cleft/Cavities
- Enzyme (substrate mimetic)
- Extracellular

IDP target (invisible)



- No 3D structure
- No cleft/cavities
- Protein-Protein (Flat/Large surface)
- Intracellular

Pipeline of first-in-class drugs

Internal pipeline focused on **incurable cancers by targeting their underlying disease drivers**

Product	Target	Therapeutic Indication	Development phase	Status
IDP-121	cMyc	Haematological cancers Broad potential in liquid and solid tumours	Phase I	On-going
IDP-233	ASCL1	Neuroendocrine tumours (SCLC, nePC)	Pre-Tox/formulation	-
IDP-601	HIF	HCC, RCC, TBNC	Pre-Tox/formulation	-
IDP-410	nMyc	Brain tumours	Preclinical	-

IDP management team



Santiago Esteban, PhD
(Founder, CEO)

Technology inventor
& expert in IDPs



Laura Nevola, PhD
(Founder, CSO)

Tech. inventor &
expert in drug
development



Tim Hammond, PhD
(CDO)

Experienced
toxicologist &
pharmacologist



Kevin Lynch
(CMO)

Seasoned oncologist



Laura Orozco
(Head of Finance)

Biotech and startup
finance



Scientific advisory board

IDP Pharma is supported by a prestigious scientific advisory committee, including the 2019 Nobel Laureate in medicine



Sir Peter Ratcliffe, MD (Nobel Laureate)



Prof. Dean Felsher, MD, PhD



Prof. Jane E. Johnson, PhD



Tomi Sawyer, PhD



Andrew Spencer, MBBS, DM



A photograph of two women smiling and embracing each other. The woman on the left is wearing a light blue headscarf and a white top. The woman on the right has blonde hair and is wearing a white top. They are both smiling warmly. The background is a blurred indoor setting, possibly a home or a care facility.

IDP-121:

The first drug that directly binds and degrades cMyc, a Holy Grail in cancer

Current status: Phase I/II clinical trial ongoing

Leading Hospitals:



ONGOING	Phase I/II
Indication	Haematological cancers
Patients population	Relapsed/Refractory
Posology	2xW i.v.
Cycle duration	28d cycle
Patient number	22 (dose escalation) + 17 (expansion)
Country	Spain (PI Dr. Enrique Ocio)
Objectives	Primary: Safety, Efficacy (expansion) Secondary: PK Exploratory: Proof of Mechanism, Proof of Concept
Study duration	24 + 12 months

Target indications: cMyc driven haematological malignancies

- Myc protein is overexpressed in >50% of all tumors (amplification/translocation/protein stabilization,...)

Hematological tumor type	% Patients with high levels of Myc protein	% Patients with Myc mutations [#]
Multiple Myeloma ¹	70-84	15-20
HGL SH/DH/TH (20-30% of all DLBCL) ²	100	100
DLBCL ³	90 (Myc ⁺) ; 70 (Myc ^{high})	10-20
AML ⁴	90	Sparse data
Burkitt lymphoma ⁵	>80	80
CLL ⁶	>60 (mRNA in cells)	Rare

(1) Jovanovic K. et al. 2017; Xiao et al. 2014. (2) Amrallah M. et al. 2019; Li S. et al. 2016. (3) Xu-Monette et al. 2015. (4) Cortes J. et al. 2019. (5) Nguyen L. et al. 2017. (6) Huh y. et al. 2008; Zhang W. et al. 2010. # Amplification/translocation/rearrangement.

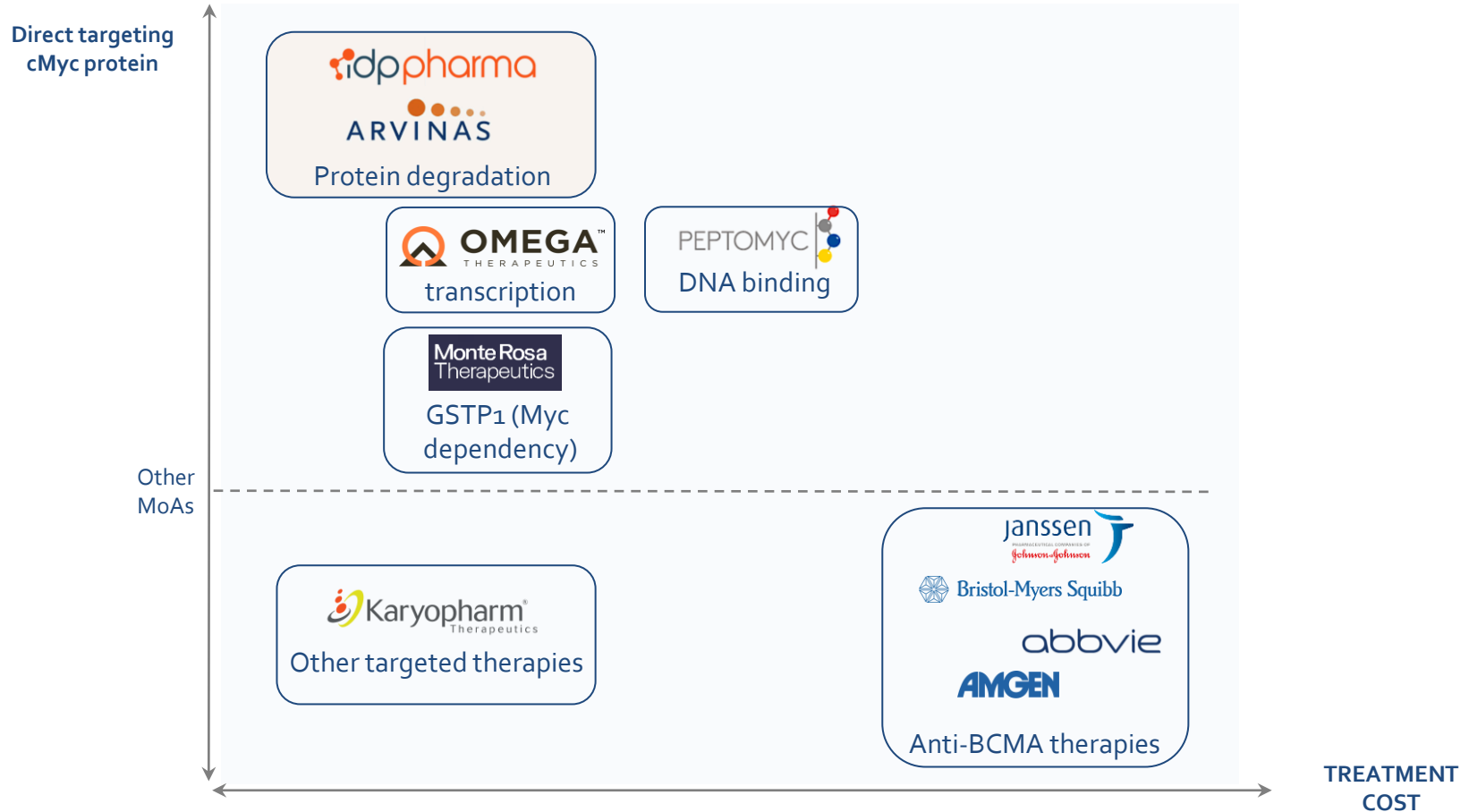
- Patient selection is implicit in haematological cancers.

Multiple myeloma: best suited indication to achieve PoC

- ✓ cMyc is key driver of disease (Hallmark transition MGUS into MM)
- ✓ Direct PD/activity read out (blood/urine first weeks of treatment)
- ✓ Access to sequential biopsies (Biomarker; PoM via PD effect)
- ✓ Patient progression acceptable (heavily pre-treated)
- ✓ Extensive clinical and market in-house disease knowledge

Strong biological rationale for utility of a MYC inhibitor in MM, and an excellent model for early confirmation of IDP-121 MoA. Provides segue for exploration in broad range of other malignancies.

IDP-121, the only direct cMyc protein inhibitor/degrader



IDP-121 IPR protection

- ✓ All patents are composition of matter
- ✓ Positive FTO: No risk of patent infringement

Patent	Priority	Granted
WO/2017/157990	2016	EU, AUS, USA, JAPAN, CHINA. Under examination in CANADA and INDIA.
WO/2019/048679	2017	Under examination KOREA
WO/2019/025432	2017	USA (under examinaitno INDA and KOREA)
WO/2019/025433	2017	Abandoned
US10639348	2020	USA

Challenges and Risks to be considered

Challenges & Risks	Objective	Mitigation	Status
Complex treatment panorama in MM	Position IDP-121	<ul style="list-style-type: none"> • Combinations with SoC • Lymphomas 	<ul style="list-style-type: none"> • IDP-121 and SoC deliver synergy • Lymphomas in Phase I included
Improve TPP	Improve dosing schedule (patient adherence, clinical acceptance)	<ul style="list-style-type: none"> • Slow-release subcutaneous formulation 1/2 month 	<ul style="list-style-type: none"> • IDP-121 behaves intrinsically as a SC depot
Solid tumours	Selection of tumours & patients	<ul style="list-style-type: none"> • cMyc mutations (amplification, rearrangement, translocation) 	<ul style="list-style-type: none"> • Competitors' strategies (Phase I) • Omega, Monterrosa & Peptomyc (NSCLC, SCLC, Pancreas, HCC)

Partnering opportunities

Current programs

Platform

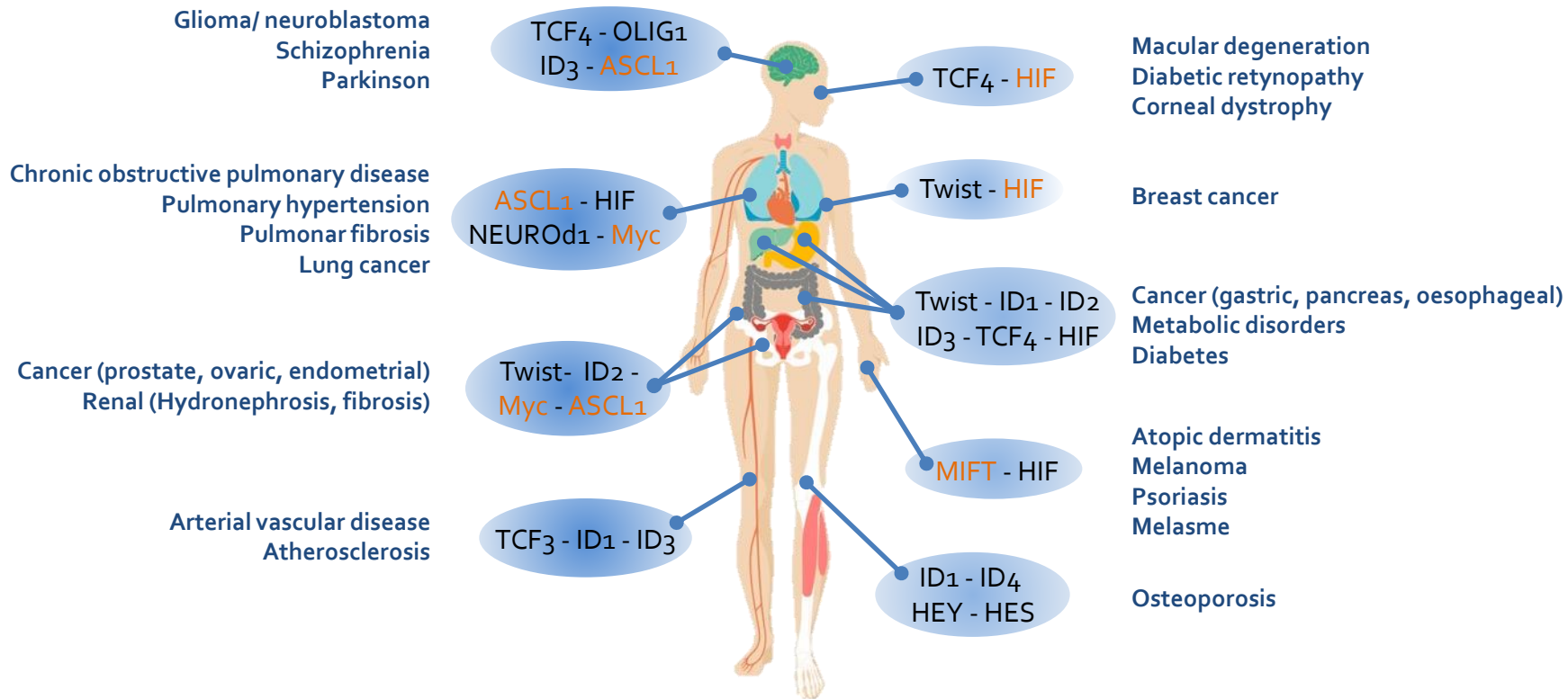
Partnering current programs in ONCOLOGY

Product	Target	Indications
IDP-121	cMyc	Lymphomas and Multiple Myeloma (on going) NSCLC, SCLC, HCC, Pancreas, ...
IDP-233	Ascl1	Neuroendocrine cancers (NE-Prostate, SCLC)
IDP-601	HIF1/2	TBNC, HCC, RCC
IDP-312	MITF	Melanoma
IDP-410	nMyc	Glioblastomas

Partnering current programs BEYOND oncology

Product	Target	Therapeutic indication	Status
IDP-121	cMyc	<ul style="list-style-type: none"> • Derma (Atopic dermatitis) • Renal (Polycystic kidney disease) • Respiratory (IPF/COPD) 	<ul style="list-style-type: none"> • <u>Partnering Opportunities</u>
IDP-601	HIF	<ul style="list-style-type: none"> • Derma (hidradenitis suppurativa, vitiligo) • Respiratory (IPF, COPD) • Ophthalmology (wet/dry AMD) 	<ul style="list-style-type: none"> • <u>Partnering Opportunity</u> • Partnered (EU Pharma) • License Option (USA biotech)
IDP-312	MITF	<ul style="list-style-type: none"> • Dermatology , Cosmetics 	<ul style="list-style-type: none"> • Licensed (stealth; EU Biotech)

Partnering intrametics™ platform



*Successfully targeted pipeline programs



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