

Born from *Hope*.

Built to Defeat Cancer

Incorporated in 2021 HQ: JLABS, Houston, TX |







Breakthrough RNAi for Solid Tumours

Our lead candidate NM-198 has showcased efficacy in silencing >30 cancer drivers and penetrate drug-resistant solid tumors, with no toxicity observed in preclinical models.

Clinically Potent, Commercially Scalable

90% tumor suppression and 80% fewer metastases in preclinical models, with a shelf-stable, single-dose IV formulation requiring no cold chain and costing 1,000× less to produce.

Capital-Light Path to IND

Pre-clinical package largely complete; US \$3 M bridge funds primate study, IND-enabling tox, and CMC - IND filing in less than 12 months.

Pre-Inflection Entry WindowAdaptive multi-indication basket trial (ovarian, colon, pancreatic) begins post-IND; one success unlocks platform value, projecting 3–5× uplift by read-out.

Durable Moat & Platform Upside5 patents + exclusive Baylor license protect drug & delivery through 2045; same tech licensable to non-oncology RNA therapeutics.



The Problem: Solid-Tumour Cancer Remains Poorly Served

Chemo-resistant solid tumours stay fatal

Pancreatic, ovarian and colorectal cancers cause > 1 million deaths/year; ~90 % occur after standard chemotherapy stops working.

Current modalities rarely give durable control

Small molecules, antibodies and CAR-T deliver < 20 % lasting responses due to dose-limiting toxicity, poor penetration or rapid resistance undermine benefit.

RNAi is uniquely suited, but still blocked

RNAi can silence many tumour genes, including "undruggables", and is reversible and programmable; yet liver-biased delivery and single-gene designs have stalled success.

Solving RNAi's barriers opens a \$35Bn gap

Our Solution: Redefining Cancer Treatment Through Integrated RNAi and Drug Delivery Platforms



Precision design



Innovative delivery



Combined into a novel therapeutic







Robust IP portfolio with patented proprietary technologies and exclusive worldwide licenses from Baylor College of Medicine











Novel RNA Design

Our NoPass platform for designing RNA sequences leads to precision therapy with more efficacy and fewer side effects

Hits multiple drivers of cancer growth and drug resistance with fewer side effects.



Our breakthrough biocompatible delivery Nano-In system enables safe, effective nucleic acid drug transport

Reaches hard-to-treat cancers

NM-198

Our therapeutic innovations converge into a breakthrough therapeutic NM-198 to combat drug-resistant cancers

>90% tumor reduction shown in preclinical models of ovarian, colon, and pancreatic cancer.

Securing **Exclusivity** Through 2045+



NoPass reinvents RNAi





Start with a biomarker-led profile for a tumor or disease state

or

An existing siRNA or miRNA

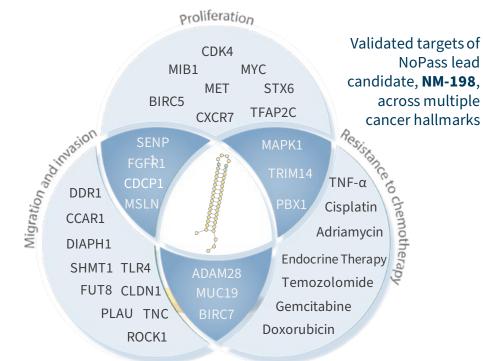






Apply NoPass Computer-aided design for RNAi with unique characteristics:

- Molecules engineered to enter special processing pathway for increased efficiency and improved safety
- Multi-factor targeting by design
- Increased stability and enhanced targeting
- Reduced off-target effects
- No need for chemical modifications





The result is a specialized, next-generation RNAi therapeutic capable of multi-pathway targeting

- Our lead candidate can target dozens of cancer-driving factors simultaneously.
- Ideal for attacking heterogeneous, complex tumors from multiple angles
- Tunable precision regulation
- Powerful algorithm can be used for any RNAiinduced silencing applications, even beyond oncology (licensing potential)



Nano-in delivers a breakthrough for nucleic acid therapeutics



Made by combining two widely used polymers

Polymer (PEI)

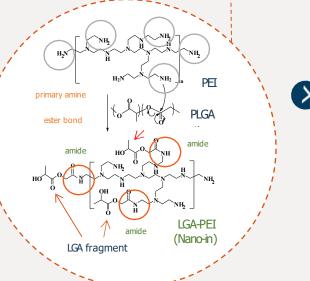
PEI is great at condensing with nucleic acids to form nanoparticles

But it has a high positive charge that can be toxic



Polymer (PLGA)

PLGA is nontoxic, and FDAapproved, but cannot efficiently deliver nucleic acids alone.



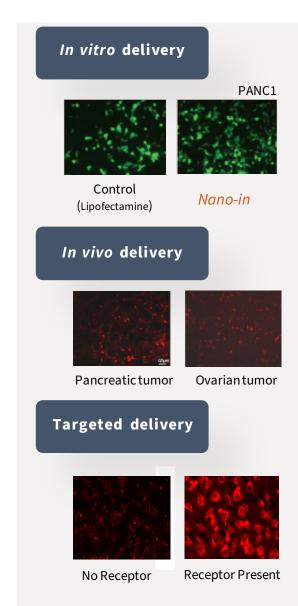
We combine the two to synthesize **a new biocompatible polymer** with the delivery capabilities of PEI and the safety profile of PLGA.



Nano-in is a unique and powerful delivery system

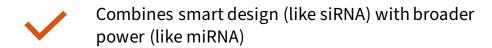
- Broad Applicability—deliver any nucleic acid.
- Low-cost, scalable technology for delivering RNA/DNA across various therapeutic areas.
- Proven success in delivering to key organs and tumors, with the ability to modify for precise receptor targeting.
- Efficient and Safe
- Practical Storage and transport
- Stable at room temperature for at least 30 weeks

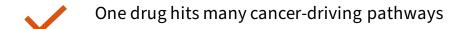
Drug delivery that is **scalable**, & **safe**



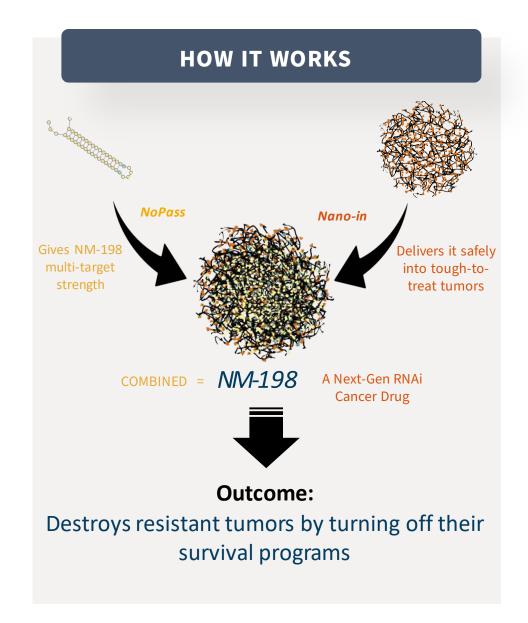


Lead Candidate - NM198: Designed for precision. Built for impact.





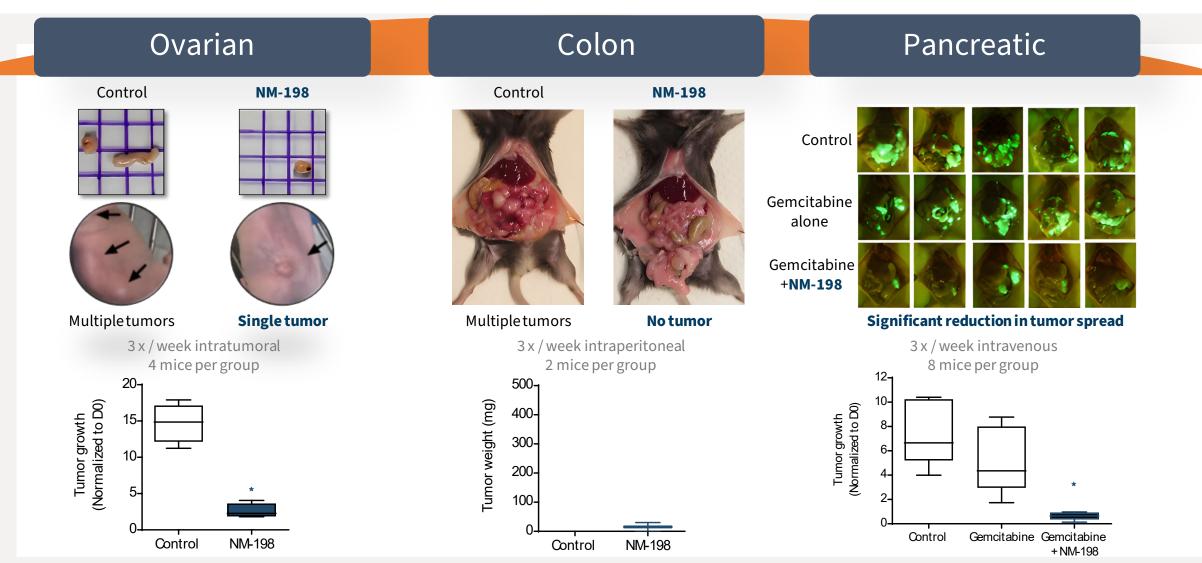
- Shuts down <u>32+ cancer genes</u> that fuel tumor growth, spread, and drug resistance
- Avoids immune flare-ups → **Lower risk of side effects**
- Accumulates in tumors leaving healthy cells alone while silencing targets effectively
- Shows promise in colon, ovarian, pancreatic cancerand more
- Uses a **low-cost delivery system** that's over **1000x cheaper** than competitors
- Uses a single formulation no re-mixing, no cold storage, or no retooling required



Lead Candidate – NM198 Efficacy



NoPass Design and Nano-in delivery for a powerful **MULTI-TARGET** impact across tumor types



~ **80% reduction** in tumor size in just 1 week given as **monotherapy**

~ **95% reduction** in tumor size in just 2 weeks given as **monotherapy**

~ 90% reduction in tumor size in 1 month when given in combination

Lead Candidate - NM198 Safety



Engineered for safety as a primary outcome

No toxic effects

No immune activation

Confirmed target engagement



No alterations to organ function in rodents

No abnormal liver/kidney function, or blood chemistries after 4 months of dosing at 15x effective dose.



Does not activate cytokines or Toll-like receptors.

External CRO validation.



Transriptomic and proteomic target engagement profile with precision certainty.

Favorable safety profile extends to both NM-198 therapeutic and platform technologies.

Upcoming Experiments



Meticulously designed clinical trial following completion of IND-enabling studies

Market Opportunity



A \$35B+ global opportunity in 3 indications that currently lack effective therapeutic options

| | Ovarian | Colon | Pancreatic | |
|--|---|--|--|--|
| | 325K cases per year ¹ | 1.1 M new cases per year ² | 500K cases per year ⁴ | |
| | Median OS ~12-45 months | World's third leading cancer ³ 2 nd leading cause of cancer death ³ | Median OS ~8-12 months | |
| Serviceable btainable Market (SOM) | ~\$1.3B (cumulative) 2030-2035 | ~\$3.5B (cumulative) 2030-2035 | ~\$2.3B (cumulative) 2030-2035 ~\$3.2B Advanced/metastatic, chemoresistant PDAC across US/EU5 | |
| Serviceable Available Market (SAM) | ~\$3.0B Platinum-resistant + BRCA/HRD + early-line opportunity | ~\$14.4B Chemo-refractory, advanced-stage, & biomarker + early disease | | |
| otal Addressable Market (TAM) | ~\$7.5B | ~\$13.0B | ~\$15.0B | |

Plus value-maximizing licensing revenue for platform technologies upon clinical validation

Competitive Landscape



Several RNAi approaches have progressed in the past decade, yet success has been incremental.

| Drug Candidate | Modality& Delivery | Indication(s) | Phase | Sponsor/ Type | Early Efficacy Signals | Multi- target | Anti- resistanc e | Tuneabl e Platform | Sponsor Notes |
|------------------------|--------------------------------|---|--|---|--|------------------|-------------------------|--------------------------|---|
| NM-198 (Speratum) | RNAi, polymer (non-LNP), IV | Pancreatic, ovarian, colorectal Expandable to other solid tumors | Preclinical | Speratum / Biotech | Strong tumor regression in vivo, multi-target knockdown | ✓ | ✓ | √ | Multi-target design; high efficacy across tumor types; works as monotherapy; synergy with existing drugs; promising safety profile; targets metastases. |
| siG12D-LOD ER | siRNA, polymer implant | Pancreatic (KRAS G12D) | Phase II (US), expansion to Brazil planned | Silenseed / Biotech | ORR 56% vs 20%, OS +9.3 mo, CA19-9↓ in 70% | X | X | X | Local release platform targeting mutant KRAS; requires surgical implantation |
| Custirsen (OGX-011) | ASO | Prostate, ovarian, colorectal | Phase II/III (US) | OncoGenex / Teva | No OS benefit in prostate; mixed results | X | X | X | Targeting survival proteins; lacked overall survival benefit; high toxicity when used in combination |
| CALAA-01 | siRNA, cyclodextrin NP | GI, solid tumors | Phase I (US) | Calando / Biotech | First-in-human PK/PD, RRM2target knockdown | X | X | X | Early siRNA NP development; trial halted due to toxicity issues related to delivery |
| Atu027 | siRNA, LNP | Solid tumors | Phase I (US) | Silence Therapeutics / Biotech | Safe, PKN3 knockdown confirmed | X | X | X | Focus on angiogenesis; encouraging early results demonstrating potential of RNAi |
| TKM-080301 | siRNA, LNP | Various cancers | Phase I (US) | Arbutus (formerly Tekmira) / Biotech | PLK1 inhibition, early tolerability | X | X | X | LNP systemic RNAi delivery. No effect as a monotherapy. |

Milestones



From early validation to \$1B+ opportunity — with clear, trackable ROI milestones



Seminal foundational work based on two decades of academic and basic research

Established Foundation (\$5M+ raised to date)

- Demonstrated proof of concept for initial cancer indications
 - Efficacy across multiple cancers using dozens of patient and cell-derived xenograft models
 - Favourable safety profile in rodent dosing studies
- Advanced formulation scaling, storage, and stability studies
- Multiple patents awarded/filed
- Proven out-licensing of platforms



Critical de-risking and value inflection point

IND-enablement

CURRENT RAISE – \$3M Bridge raise to achieve critical milestones and transition to the clinic

- 12-month timeline to complete concrete IND-enabling milestones, including:
 - Pilot primate study to generate key data of interest to pharmaceutical partners
 - IND-enabling toxicology and manufacturing for IND submission



Positioned for Clinical Entry

Mid-Term: FIH Clinical Trial

\$15M Series A to conduct First-in-Human studies

- Phase I Trial for solid tumors
 - Basket study for ovarian, colon, and pancreatic cancers
 - Multi-center Trial with clear safety and preliminary efficacy endpoints
- Seek Orphan Disease and Fast-Track Designations
- R&D of additional pipeline candidates



Phase I data expected to drive valuation to \$400M+ by mid 2027

Exit

Strategic Partnership potential and successful early efficacy or FDA designations (Orphan disease, Fast Track) expected to drive valuation to \$1B+ by late 2028.

Acquisition target or IPO within five years, upon Interim Data or completion of Phase I trial.

Licensing revenue from platform technologies following clinical validation



Expansion to other indications, additional pipeline candidates transition to clinic



Team and Advisors

Scientific innovators supported by industry veterans





Christian Marin-Müller, MS, PhD

Founder, Director & CEOICo-Inventor

- 15+ years in RNAi & drug delivery
- \$5M+ raised
- Multiple awarded and pending patents
- 3 dozen international science & innovation awards



Fadi Abdel, MD

Chief Development & Operations Officer

- 25+ years of R&D and clinical trial operations in Oncology and Neuroscience
- Proven track record of 50+ successful IND and NDA submissions, successful IPO



Osvaldo Vega-Martínez, MS

Founder, CSO I Co-Inventor

- 10+ years of leading multidisciplinary R&D teams in RNAi & drug delivery
- Multiple pending patents



Allan Boruchowicz, BS

Founder, Director & Interim CFO

- 15+ years in Private Equity
- \$20M+ raised for various tech startups in Latin America

Board of Directors



Matthias Schroff, PhD CEO Inceptor Bio

Expertise: 20+ years in RNA Therapeutics, multiple IND and NDA submissions in oncology and genetic disorders



Kyle Jenne, MBA
CCO Ionis Pharmaceuticals
Expertise: 25+ years in RNA
therapeutics as executive and director



Peter Heeckt, MD, PhD
Former CMO, Bioventus, Smith+Nephew

Expertise: 25+ years MedTech/biotech & surgery in pancreatic cancer



Andy Weymann, MD, MBA CEO Gelmetix

Expertise: 25+ years MedTech/biotech, multiple INDs, successful Phase I & II





Changyi Chen, MD, PhD

Co-inventor of Speratum's technologies

Director, Molecular Surgeon Center Baylor College of Medicine 200+ publications, 15+ patents National Society of Inventors



Qizhi Yao, MD, PhD

Co-inventor of Speratum's technologies
Professor, Virology & Microbiology Baylor

College of Medicine 150+ publications, multiple patents



Jian-Ming Lu, MS, PhD

Co-inventor of Speratum's technologies
Assistant Professor of Surgery
Baylor College of Medicine
30+ publications, multiple patents



Wen Wee Ma, MBBS

Director, Novel Cancer Therapeutics Institute, Cleveland Clinic Principal investigator for a dozen first-inhuman trials in pancreatic cancer

















Major Inflection Milestones

\$3M Raise to Achieve Critical Value-Driving Milestones



Positioning NM-198 for IND Submission and Clinical Entry

Next 12 months



Pilot Non-human Primate Study (feasibility and safety signals)

Conduct non-GLP primate studies to evaluate delivery, biodistribution, and initial safety profile.

A major de-risking step for future clinical safety packages and a significant valuation inflection point.



Full GLP Toxicology and IND-Enabling Safety Pharmacology

Execute comprehensive GLP toxicology studies required for IND filing.

Significant inflection point enabling completion of the regulatory package for first-in-human trials.



CMC Scale-up & Manufacturing Readiness

Advanced Chemistry, Manufacturing and Controls (CMC) to support production scale-up.

Critical process for regulatory approval and platform scalability.



These milestones will position us for a \$15M Series A Raise

To support First-in-Human Studies





Based on the trajectory of similar platforms, **completion of pre-clinical studies expected to drive valuation up 3-5x.**



Interim Phase 1 Data is expected to drive valuation to \$400M+by mid 2027.



Strategic Partnership potential and successful early efficacy or FDA designations (Orphan disease, Fast Track) expected to **drive** valuation to \$1B+ by late 2028.







Delivering health through innovative cancer therapeutics

Contact



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In-houseanimal workwas conducted through our AAALACaccredited program



