

Meet Sangram Mohapatra

x3
per day



x4
per year

X





510,150,000

Number of people with type 2 diabetes in 2021



Type 2 Diabetes sucks

7th

Type 2 diabetes ranks 7th in terms of human suffering among all diseases in terms of DALY

1,500,000

Number of deaths from type 2 diabetes each year



Blood sugar levels decrease

Glucose enters the bloodstream

**Normal cycle of
Blood Sugar**

Cells absorb glucose

Insulin is released



Blood sugar levels **stay high**

Glucose enters the bloodstream

**Cycle of sugar
in a type 2
diabetic**

Cells **don't** absorb glucose

Insulin is released



So what?

High blood sugar

Formation of
harmful
compounds
(AGEs)

Complications:
Blindness,
Amputations, etc.



Lilly

Johnson & Johnson

VERTEX

Intarcia

Abbott

AstraZeneca

sanofi

mesoblast

Medtronic

novo nordisk

ADOCIA



Insulet

Sernova Corp

seraxis

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NANOGEN

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seraxis

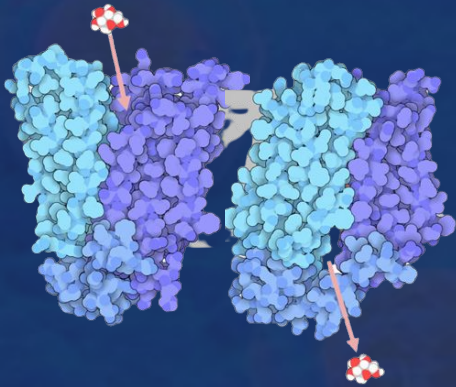


NANOGEN

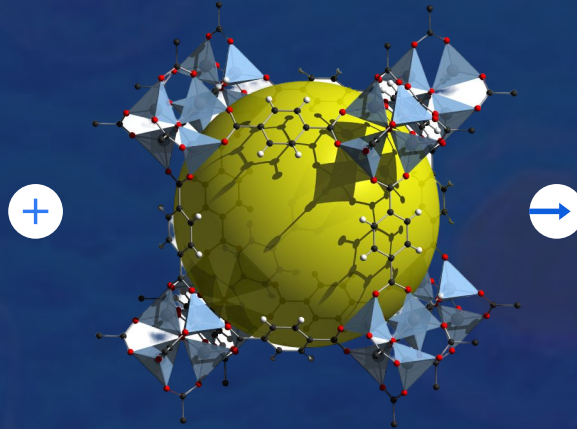
One dose to cure type 2 diabetes.

Our Solution

Overexpressing GLUT4



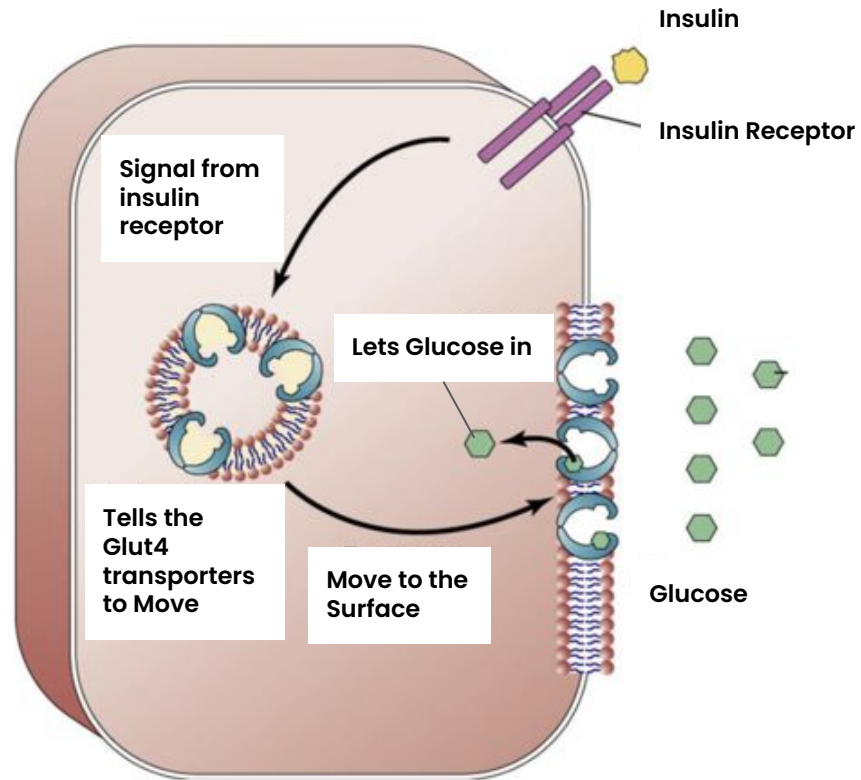
Delivery: Mof-16



One injection that permanently cures type 2 diabetes



- 1 Overexpressing **GLUT4** reverses insulin resistance
- 2 GLUT4 is regulated by **SLC2A4**
- 3 Influence that gene by targeting its **promoter**



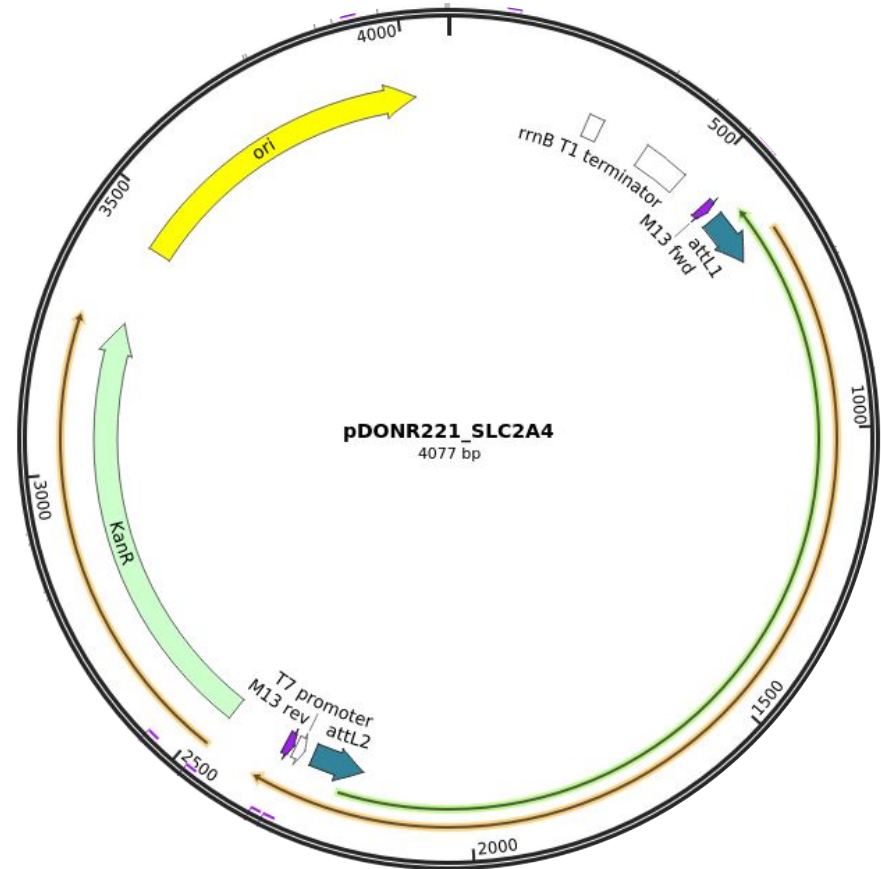
Adipose Tissue



1 Overexpressing **GLUT4** reverses insulin resistance

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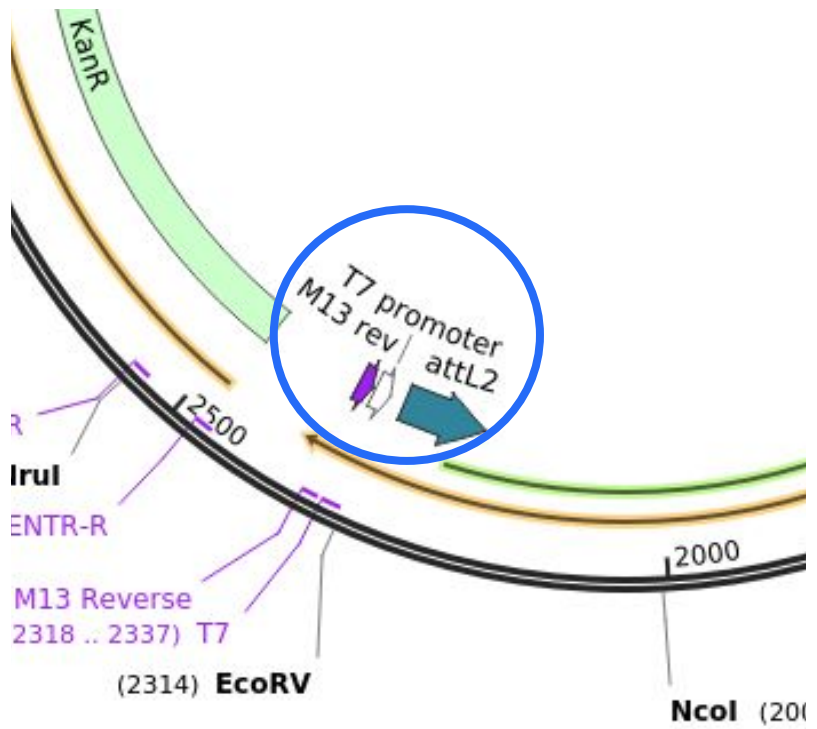
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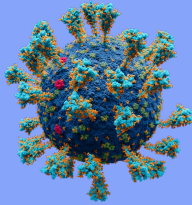
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Mof-16 Enables our Solution

Viral Vector

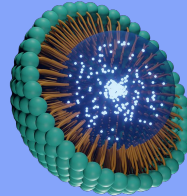


Unsafe

Accurate

Not cost effective

Lipid Nanoparticles

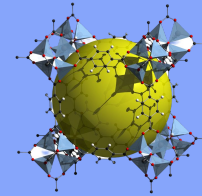


Safe

Not Accurate

Cost effective

MOF-16



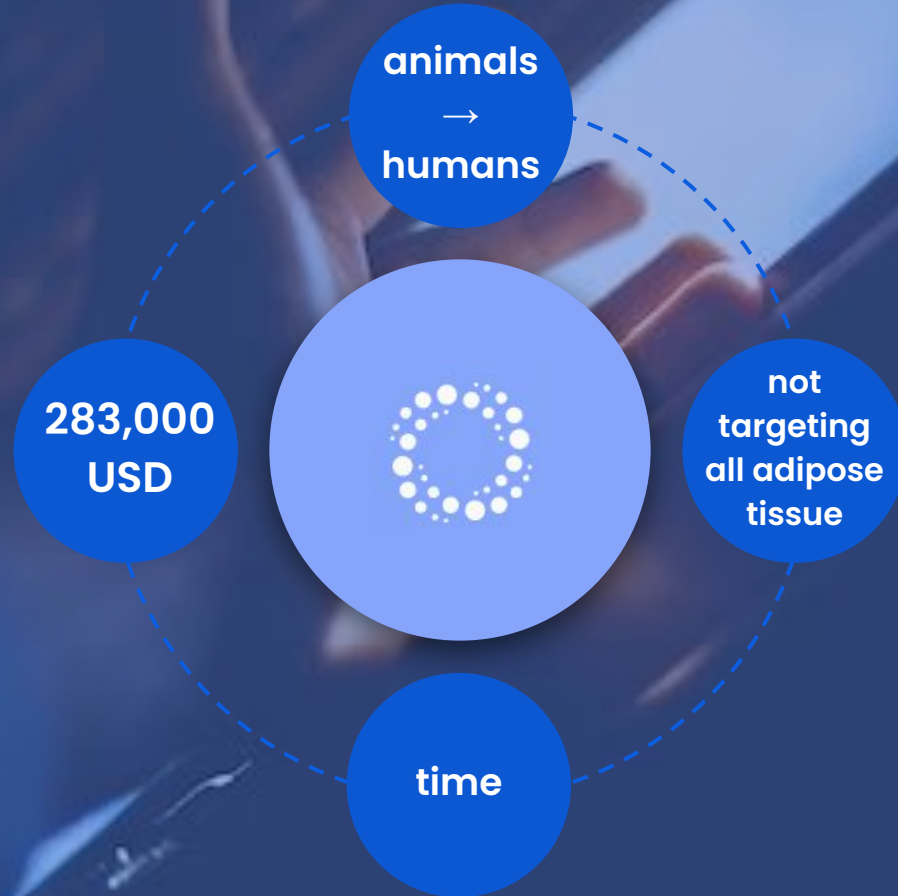
Safe

Accurate

Cost effective



Assumptions / Unknowns



Expert Validation



*“The **bold** ideas proposed by NanoGen aim to offer a **holy grail cure for type 2 diabetes** (T2D). [...] Despite these challenges, this project presents a **breakthrough** approach for T2D, and its potential needs to be explored further.”*

Parthiban Vijayarangan-Kannan
Co-founder and CEO – Svastia Genetics



**Join Us On The Journey To
Cure Type-2 Diabetes.**



The Team Behind NanoGen



Vivek Kommi



Naina Kumar



Abhilash Mohapatra



Viola Seda

