

Now validated via Phase 1 Clinical Feasibility Study results!



- Highly accurate
- Easy to use
- Simultaneous multidisease detection
- Minutes to result
- Facilitates telehealth
- Adaptable to new diseases
- High-volume production

Executive Summary

- GRIP Molecular Technologies offers a medical diagnostic platform that fundamentally changes how diseases are detected, diagnosed, and treated.
- GRIP enables rapid diagnosis and the prompt application of appropriate therapy, by offering consumers and their clinicians convenient, accurate, rapid, multi-disease, and telecommunications-connected diagnostic results at the time and location of need.
- GRIP's single-use cartridge determines in 5-minutes if there is an infection associated with a broad array of diseases using a single, easy to collect bio-sample. The cartridge contains graphene enhanced solid-state biosensors that provide extraordinarily accurate results, far surpassing the competition.
- Detection of a wide array of bacterial and viral pathogens has been demonstrated.
- The test does not require multistep sample processing and the results can be displayed on a standard cell phone and securely transmitted.
- GRIP's technology is patent protected.
- GRIP's first product, an upper respiratory infection panel, represents a \$3.6B potential annual revenue generation opportunity. Other applications represent significant additional business opportunities.
- Investment via GRIP's Convertible Note is available. A \$12M Series A round is being pursued.

Fast Facts

\$32B

Total Addressable Market (TAM) in infectious disease diagnostics

70%

Clinician and consumer interest in at-home testing for upper respiratory and urinary tract infection¹

40%

Percentage of infections undetected by leading home-based COVID-19 tests on first day of symptoms², when therapy is most effective.

>100X

GRIP pathogen detection sensitivity vs alternative antigen detection technologies; GRIP is at PCR level detection.

9

Number of diseases clinicians desire in an upper respiratory infection diagnostic panel.¹

93%

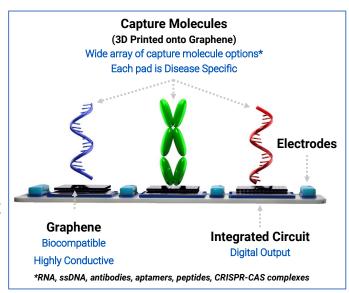
Percentage of Consumers, Primary Care Physicians and Pediatricians with a positive reaction to GRIP product concept.¹

- 1. GRIP research consumer (331 respondents) and clinician (41 respondents)
- 2. https://doi.ora/10.7326/M23-0385



Underlying Technology

- Based upon a Graphene Field-Effect Transistor (GFET) electronic biosensor
- Produced with high-yield proprietary production technologies
- Enhanced with patented technologies that attract the target biomarkers to the sensor surface to increase detection speed and sensitivity



Performance

- Ultrasensitive pathogen detection
 - COVID-19, Influenza A and RSV protein
 - Highly specific multiplexed detection
 - Demonstrated distinct COVID-19, **GRIP Protein** Influenza A and RSV detection in a mixed pathogen sample (maintaining sensitivity, as noted in table), in 2minutes!

Most Sensitive

Nucleic Acid

Protein

Least Sensitive

- **Phase 1 Clinical Feasibility results:**
 - 90% correlation with PCR using infected COVID-19 patient nasal swab samples

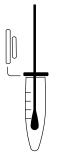


Company	Test Brand Name	Loc	Туре	LOD BioSample (copies/ml)
Thermo	Accula	POC	NaaT	150
BioRad	Reliance	Lab	NaaT	600
Hologic	Panther Fusion & Aptima	Lab	NaaT	600
Lucira	All-In-One	PON	NaaT	900
BD	BD MAX (BioGX reagents)	Lab	NaaT	1,800
Roche	cobas	Lab	NaaT	1,800
LumiraDx	STAR Complete	POC	NaaT	1,875
Abbott	RealTime (m2000 assay)	Lab	NaaT	2,700
BGI	RT-PCR Kit	Lab	NaaT	3,000
GRIP		PON	Protein	5,000
Cepheid	GeneXpert Xpress	POC	NaaT	5,400
Luminex	NxTAG	Lab	NaaT	5,400
bioMerieux	BioFire	Lab	NaaT	5,400
DiaSorin	Simplexa COVID-19 Direct	POC	NaaT	6,000
Sherlock	CRISPR	Lab	NaaT	6,000
bioMerieux	R-GENE, ARGENE	Lab	NaaT	18,000
Visby		POC	NaaT	54,000
Cue Health		PON	NaaT	60,000
SARS-CoV-2	SYMPTOMATIC MIN. VIRAL LOAD			100,000
Qiagen	QIAstat-Dx Respiratory	POC	NaaT	180,000
Luminex	ARIES	POC	NaaT	180,000
Thermo	TaqPath	Lab	NaaT	180,000
Atilia	iAMP	Lab	NaaT	180,000
Abbott	ID NOW	POC	NaaT	300,000
Quidel	Sofia 2 FIA	POC	Protein	368,000
Quidel	Lyra assay	LAB	Protein	540,000
BD	Veritor	PON	Protein	560,000
Abbott	Bionax NOW	PON	Protein	562,400
Abbott	PANBIO	PON	Protein	630,957
SD	Pilot	PON	Protein	2,000,000
Access Bio	CareStart	PON	Protein	3,200,000
ACON	FlowFlex	PON	Protein	10,000,000
InBios	Detect	PON	Protein	25,200,000
Ellume		PON	Protein	28,640,000
Quidel	QuickVue	PON	Protein	30,280,000

User Steps



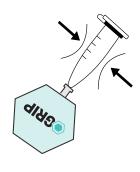




CAP



SOUEEZE



RESULTS





Patent Protected

- 5 issued US patents
- 14 pending applications
- Claims related to:
 - Generation of electric field to attract targeted biomarkers to sensor's surface (enhances speed and sensitivity)
 - Printing features on sensor surface (enables high-speed production)
 - "Tuning" and results assessment from each individual GFET on the sensor's surface (enables simultaneous multi-disease detection)

Manufacturing and Scale-Up

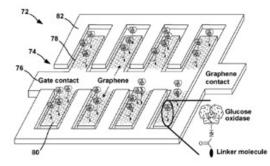
- GRIP's product design leverages high volume integrated circuit and other wellestablished medical device manufacturing techniques to enable rapid production scaleup at a fraction of the required investment associated with other comparable performance diagnostic technologies.
- GRIP has established relationships with vendors that provide key raw materials and subcomponents. Various sources have been identified to provide supply redundancy.

Business Model

- GRIP intends to sell its products to end user consumers without the need for a prescription via standard retail pharmacy and increasingly popular direct fulfillment channels.
- GRIP intends to employ a small, specialized team of marketing and sales professionals to lead these efforts.

Regulatory Pathway

The FDA has indicated an FDA 510(k) pathway will be appropriate to gain US commercial licensure. CE mark status will be pursued to enable commercial licensure in the European Union.



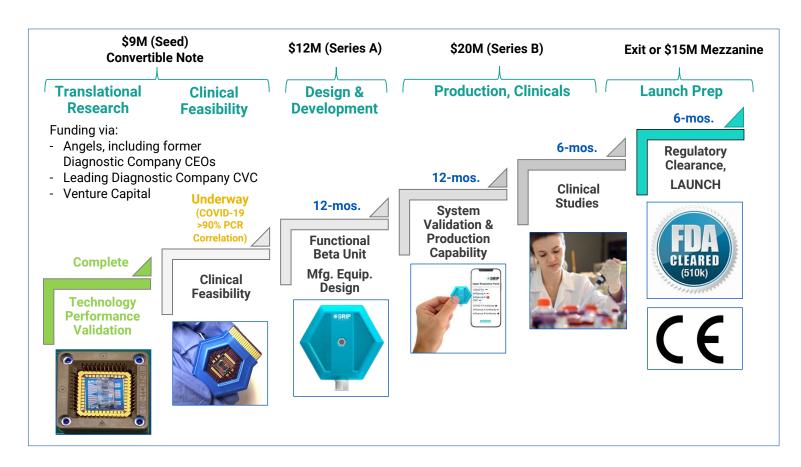
Traction

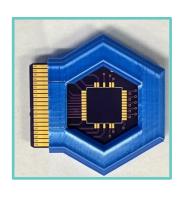
New data

- Clinical feasibility testing (COVID-19) = 90% correlation with PCR results!
- Limit of detection = PCR (5,000 copies/micro liter)
- Proof-of-concept of novel fluid delivery
- Sensor production using wafer-scale integrated circuit production technology, >95% yield.
- Leading medical diagnostic company has invested in the company.

Plans and Investment

- Seed Round underway via Convertible Note
- \$12M Series A sought to fund product development
- Significantly less capital required to scale production vs alternative technologies.





Experienced Team

Edward Ludwig - Board Chair



- Former CEO. COB Becton Dickinson
- 45+ years senior executive in medical industry
- Numerous Board roles, including; Boston Scientific, CVS, Aetna, AdvaMed (Chairman)
- MBA Columbia University



- 30+ years research and industry exp.
- Diagnostic industry BioRad, Thermo
- Ph.D. Anatomy & Cell Biology Medical College of Virginia, post-doc Harvard

Edward Gillen - CEO



- 30+ years medical device industry experience
- Former CEO Medality Medical
- 23-year career at Becton Dickinson
- MBA Penn State University

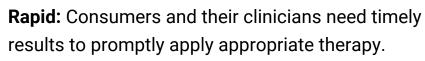
Richard Minicus - Chief Financial Officer



- 30+ years in finance
- 30-years M&A, VC and Bus. Dev. -Merrill Lynch, JPM, BD, Pfizer
- MBA Harvard Business School

Why GRIP Wins

Bruce Batten, PhD - Founder, CTO



Accurate: GRIP's handheld cartridge offers extraordinary diagnostic accuracy, far surpassing what can be achieved with today's most popular athome tests and matching what can be achieved

with lab quality PCR tests

Comprehensive: GRIP simultaneously detects multiple diseases to facilitate the correct diagnosis.

Comprehensive Test Multiple Diseases Accurate GRIP Lab Grade Accuracy Convenient Fast, Simple, Affordable, Accessible



Uncomplicated: No complex sample preparation, training, or specialized equipment to provide highly accurate results, in minutes; anytime, anywhere.

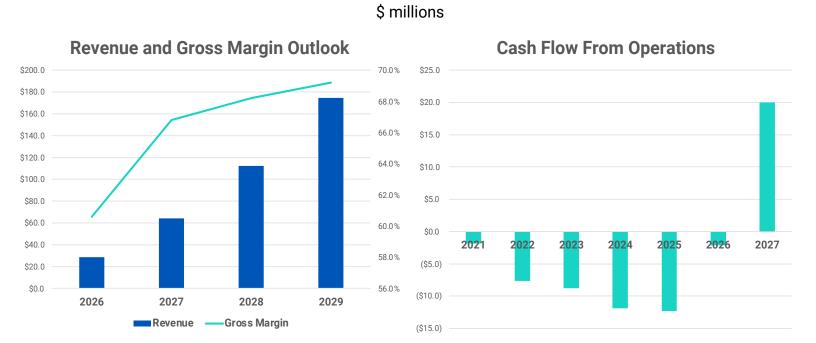
Connected: The test results can be securely transmitted to others using a standard cell phone.

Adaptable: GRIP's biosensors can be rapidly adapted to quickly address new disease threats

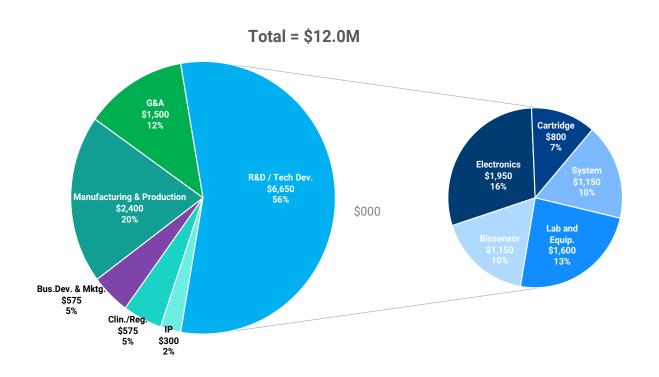
Scalable: Product design leverages established manufacturing techniques.

Patented: 5 issued patents, 14 pending

Financial Outlook



Use of Series A Funds



Liquidity Paths

- **Acquisition** by leading diagnostic, consumer healthcare or telehealth company, or an Initial Public Offering (IPO).
- GRIP has had interactions with many leading diagnostic industry players. One is an investor, and several have expressed interest in GRIP's novel technology and are tracking GRIP's progress.

Why Invest in GRIP?



Home-based diagnostics are the future, >\$2.0B Total Addressable Market (TAM)



Performance advantages not available via alternative technologies



GRIP's platform technology has broad applicability (e.g. upper respiratory infection, urinary tract infection, concussion, etc.)



Production is low-cost and scalable yielding high gross margin business



Digital output is HIPAA-compliant and ready for transmission to doctor and can be enhanced via AI analysis



Highly experienced management team, investors, and advisors



Interested in Learning More?



www.GRIPMolecular.com





