

Investor Presentation

May 3, 2024

Founded in 2011 | Located in El Monte, CA | NASDAQ:FLG

Disclaimer

Forward-Looking Statements and Market Data

This presentation contains forward-looking statements, which are statements other than those of historical facts and which represent the estimates and expectations of Fulgent Genetics, Inc. (the "Company" or "Fulgent") about future events based on current views and assumptions. Examples of forward-looking statements made in this presentation include. among others, those related to long-term upside or value, management of risk, anticipated growth and positioning, addressable market estimates, the Company's mission, vision and strategies, the success of its business model and strategy, anticipated future revenue and guidance, evaluations and judgments regarding the Company's business, products, technologies, competitive landscape, scalability, plans regarding development and launch of potential future products, and any businesses the Company may seek to acquire or has acquired or has invested in or may seek to invest in, including statements regarding Fulgent Pharma Holdings, Inc. ("Fulgent Pharma"), Inform Diagnostics, CSI Laboratories, and any potential synergies, or transformation of the Company's business, long-term visions and strategies, including, with respect to Fulgent Pharma, those designated to create a vertically integrated solution for cancer care, the clinical development of Fulgent Pharma's pipeline and related statements and assumptions regarding development timelines, any potentially accelerated pathway for regulatory approval, the potential safety and efficacy of the nanodrug delivery platform and any related therapeutic candidates, the potential market size for these candidates and platforms and the value of available data, including genomic data, the Company's research and development efforts, including any implications that the results of earlier clinical trials will be representative or consistent with later clinical trials, the expected timing or timing of enrollment for these clinical trials or that interim or preliminary data will be representative of the final data or results of these trials, and guidance regarding the Company's future performance and results of operations, including any cash or cash equivalent resource projections. The Company's views and assumptions on which these forward-looking statements are based may prove to be incorrect. As a result, matters discussed in any forward-looking statements are subject to risks, uncertainties and changes in circumstances that may cause actual results to differ materially from those discussed or implied by any forward-looking statements. Important factors that could cause actual results to differ materially from those implied by forward-looking statements are disclosed under "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" in the Company's reports filed with the Securities and Exchange Commission ("SEC"). including its annual report on Form 10-K filed on February 28, 2024, and other reports it files from time to time. Because of these factors, you should not rely upon forward-looking statements as predictions of future events. The forward-looking statements in this presentation are made only as of the date hereof, and, except as required by law, the Company assumes no obligation to update any forward-looking statements in the future. The company's reports filed with the SEC, including its annual report on Form 10-K for the year ended December 31, 2023, filed with the SEC on February 28, 2024, and the other reports it files from time to time, including subsequently filed annual, guarterly and current reports, are made available on the company's website upon their filing with the SEC. These reports contain more information about the company, its business and the risks affecting its business, as well as its results of operations for the periods covered by the financial results included in this presentation.

This presentation also includes market data and forecasts with respect to the industry in which the Company operates. In some cases, the Company relies upon and refers to market data and certain industry forecasts that have been obtained from third-party surveys, market research, consultant surveys, publicly available information and industry publications that the Company believes to be reliable. These data and estimates involve a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates.

Non-GAAP Financial Measures

This presentation contains certain supplemental financial measures that are not calculated pursuant to U.S. generally accepted accounting principles ("GAAP"). These non-GAAP measures are in addition to, not a substitute for or superior to, measures of financial performance prepared in accordance with GAAP. A reconciliation of non-GAAP measures to GAAP measures is contained in this presentation.

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Leadership Team



Mina Hsieh Chief Executive Officer

Experienced operational leader, entrepreneur and philanthropist

Previously CEO, President, and Chairman of Cogent Systems, Inc.

Member of the National Academy of Engineering; Fellow of the National Academy of Inventors: Trustee of USC



Paul Kim **Chief Financial** Officer

Experienced financial leader and Certified Public Accountant

Previously CFO of Cogent Systems, Inc.; sold to 3M for \$943M in 2010

B.A. in Economics from University of California at Berkeley



Dr. Harry Gao Lab Director and Chief Scientific Officer

Previously Lab Director at Citv of Hope

Clinical molecular genetics training fellowship and postdoctoral fellowship at Harvard Medical School

M.S. in Immunology, and M.D. and Ph.D. in Microbiology, Immunology, and Medical Genetics



James Xie President and Chief Operating Officer

Responsible for managing all global operations, product vision and product engineering

Served as an SVP of Cogent Systems, Inc.

B.A. in Engineering, M.S. in Industrial Engineering and an M.S. in Computer Science



Brandon Perthuis Chief Commercial Officer

Extensive experience leading aenetic testina commercialization programs since 2003

Previously VP of Sales and Marketing of the Medical Genetics Laboratory at Baylor College of Medicine

Prior to Baylor, held senior roles at PerkinElmer. Inc. and National Medical Center Spectral Genomics, Inc.

SPECTRAL

GENOMICS



Esteemed background in

Most recently Chief Medical

Laboratory, Inc.; prior senior

Officer at NeoGenomics

role at Clarient Inc.

Chairman Emeritus of

Pathology at City of Hope

molecular science and

pathology



Dr. Ray Yin President, Pharma

Founder & CEO, ANP Technologies. Inc.

Former Team Leader of Nanobiotechnology for Chem/Bio Defense, U.S. Army Research Laboratory

Holder of 46 drug delivery/detection patents



















About Fulgent

We are a premier global, technology-based genetic testing company focused on transforming patient care in oncology, infectious and rare diseases, and reproductive health.



Mission

Develop flexible and affordable diagnostics and therapeutics that improve the everyday lives of those around us.

Core Values

- Innovation
- Customer Service and Commitment
- Quality and Efficiency
- Our People

Strategy

- Leverage our proprietary technology platform for broad application
- Further clinical/regulatory program for Pharma
- Operational excellence
- Disciplined M&A

Strategic Vision – A One-Stop Solution for Cancer Care



Leading Genetic Testing Company Offering Tech-Enabled Diagnostic Solutions

Nano-Drug **Delivery Platform**

FULGENT PHARMA

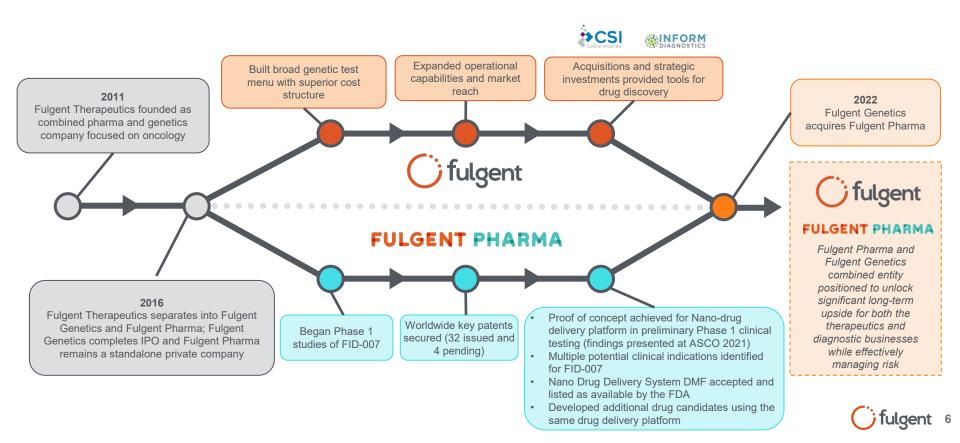
Exciting Cancer Therapeutic Opportunity Realizing Precision Medicine Potential

Therapeutic and Diagnostic Entity Providing Comprehensive Solutions Across the Cancer Care Continuum

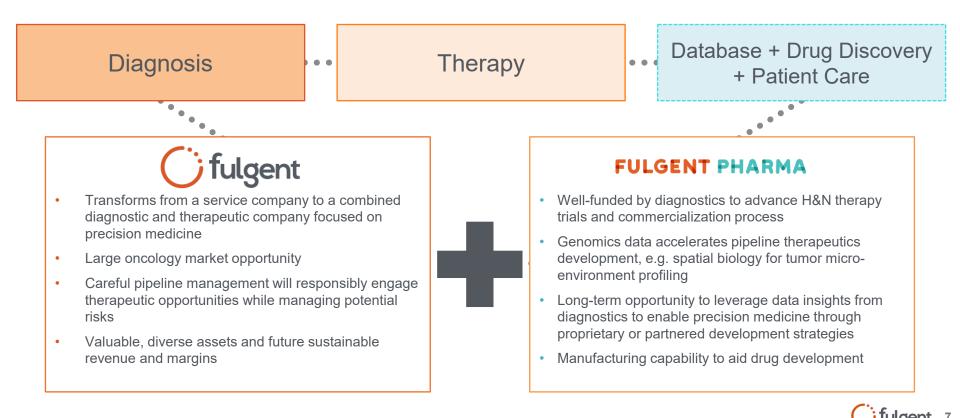
- Vertically integrated "one-stop" solution across the healthcare chain following the CSI, Inform Diagnostics, and Pharma acquisitions
- Proprietary nano drug delivery technology platform serves as an underpinning technology between diagnostic and pharm to help create • a more sustainable and profitable business model in precision medicine for years to come
- Addition of a talented scientific team creates a strong synergy and competitive advantage that may be leveraged across the combined business
- Potential near-term opportunity includes shortened 505(b)(2) drug development and commercialization timelines and potential long-term • opportunity leverages large data insights and novel analytical tools from diagnostics business to enable additional precision medicine pipeline through organic or partnered development strategies
- Commitment to continue growing diagnostic and therapeutic opportunities through organic investments and M&A
- Seasoned management team along with strong cash position allow Fulgent to enter therapeutic opportunities while managing risk •



History of Fulgent



Long-Term Vision: Fulgent Continuum of Care



LABORATORY SERVICES



\$64M

+1%

Q1 Year-over-Year Core Revenue Increase

18,400+ GENES | 900+ PANELS CUSTOMIZABLE OFFERINGS

Positioned for Growth

- Proprietary technology platform allows for rapid scaling of a **broad, flexible test menu**
- Next-generation sequencing (NGS) platform complemented with growing portfolio of emerging testing technologies with a focus on oncology

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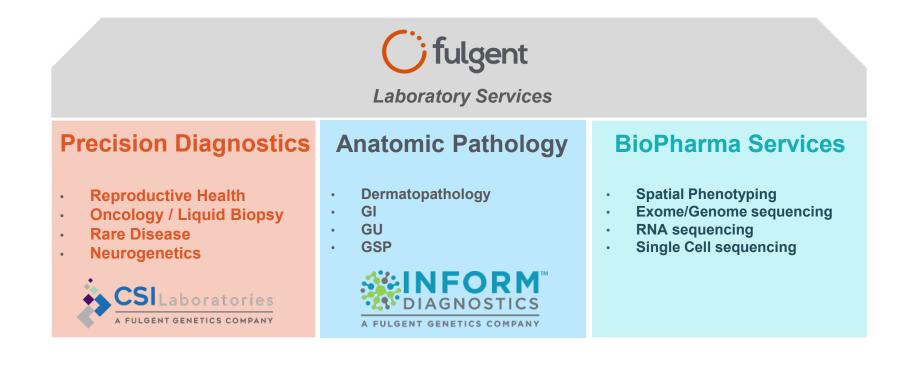
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- Well-positioned to execute on a growth strategy that includes **organic and inorganic initiatives,** including:
 - Transformational acquisition of Inform Diagnostics
 - Ramping of CSI Labs
 - Scaling partnerships
 - Potential future acquisitions with a strategy of short- and longterm ROI, tangible synergies, and efficient capital deployment

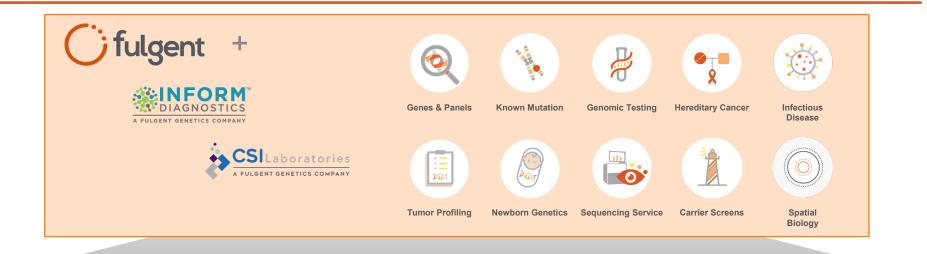


Platform and Capabilities Across 3 Divisions





Target Market Opportunity



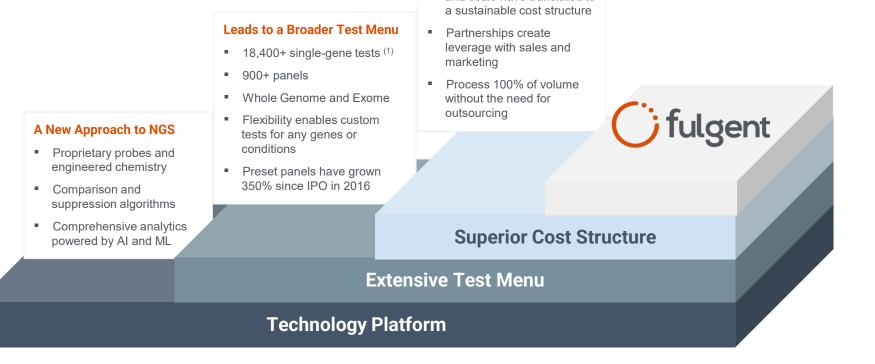


Market sizes sourced from Wall Street equity research 2)

Market size sourced from Frost & Sullivan, October 2022

3) Market size sourced from Research and Markets, April 2022

What Sets Fulgent Diagnostics Apart?



 And a Better Cost Structure
 Lab efficiencies, automation and scale have translated to



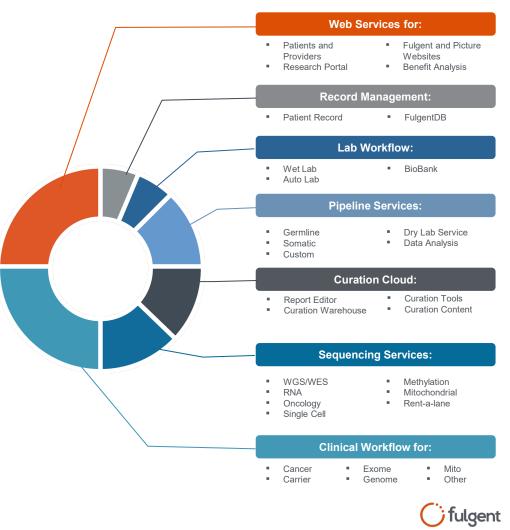
Proprietary Technology Platform

Differentiated Technology...

- Engineered genetic biochemistry, including reagents and probes
- Data suppression and comparison algorithms
- Adaptive learning software
- Automated reporting

...Provides a Multitude of Advantages

- Broad test menu
- Ability to rapidly develop and launch new tests
- Customizable test offerings
- Lower costs per billable test
- High efficiency



Broad Capabilities

Next Generation Sequencing Opportunities

Recent Traction with:

- Hereditary Cancer
- Cardiovascular Genetics
- Reproductive Health
- Neurodegenerative Genetics

Newly launched pharmacogenetic test

Aggressively expanding sales and commercial organization

Specialized Oncology Testing

Wide Array of Technologies

Services Include:

- Flow cytometry
- Cytogenetic analysis
- Fluorescence in-situ hybridization (FISH)
- Immunohistochemistry
- Molecular genetics
- Consultations in hematopathology and surgical pathology
- NGS

Comprehensive Anatomic Pathology Services

Broad Capabilities

Breast pathology

- Urologic pathology
- Gastrointestinal pathology Dermatopathology
- athology Neuropathology
 - Hematopathology

Managed care contract network and physician relationships leveraged to provide diagnostic products and services complementary to Fulgent's portfolio

Expansive geographic presence with several **CLIA-licensed** laboratories across the United States



Technology Platform Case Study: COVID-19

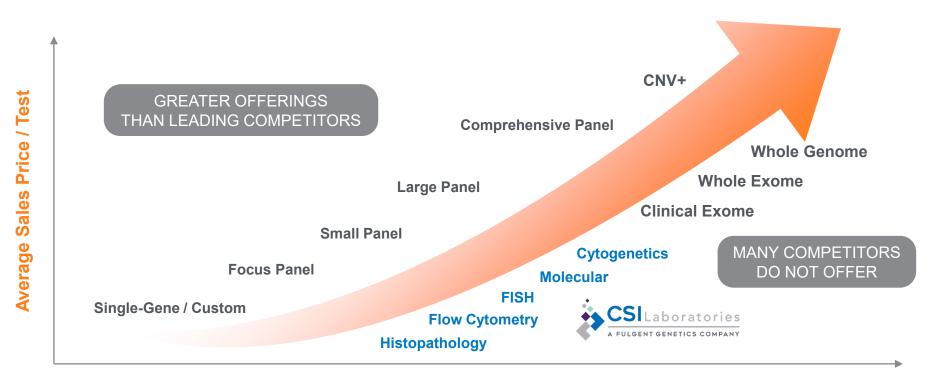
Fulgent deployed its technology platform to rapidly respond to the COVID-19 Pandemic, scaling operations to provide tests with reliable results and rapid turnaround time



Result: Over 19M COVID-19 tests delivered between 2020-2023, generating >\$1.7B in revenue for Fulgent

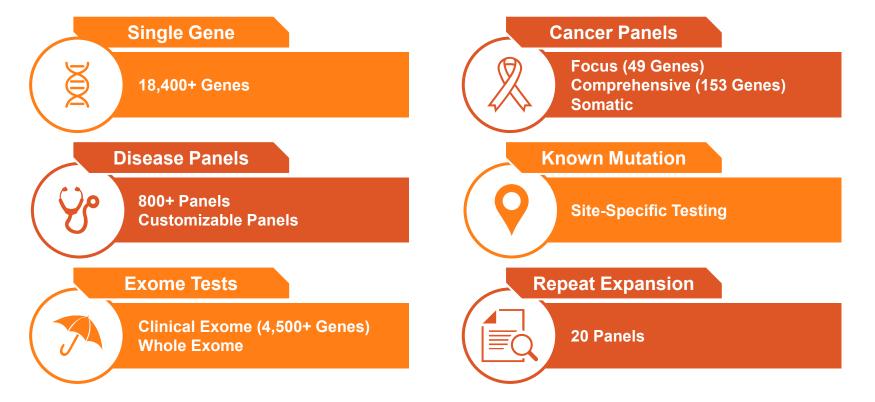
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Scalable and Affordable Menu for Customers



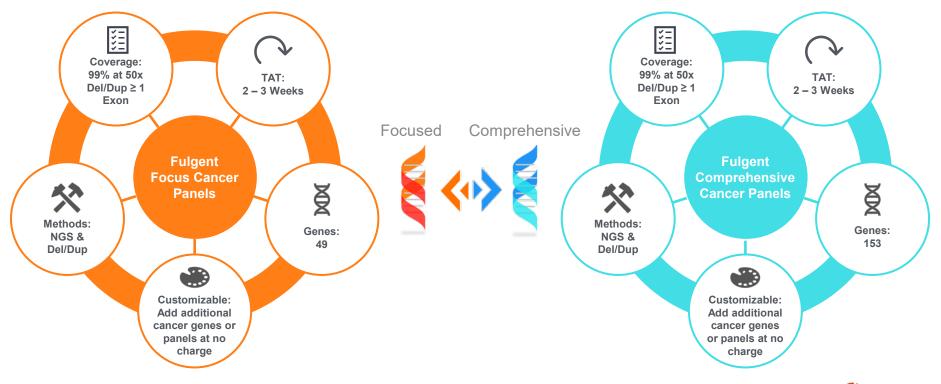
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NGS Testing – Offerings





NGS Testing - Germline Oncology Test Menu



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Oncology Testing Platforms



FISH

- Expansive heme and solid tumor menu
- STAT testing available
 PML/RARA <1 day
 TAT
- CD138 cell enrichment for PCM
- 3-5 day turnaround time

U

Histology

- 225+ stains
- Platform agnostic Roche, Agilent and Leica IHC
- Three levels of service Tech, Global, Consultative
- PD-L1 Various IVD platforms and indications
- <1-2 day turnaround time



Cytogenetics

- Oncology and constitutional
- >20% abnormality detection rate
- Mitogen stimulation/dual culture
- DSP30 (detection of B-cell disorders)
- Interleukin 4 for plasma cell myeloma
- Phytohemagglutinin and Interleukin 2 (detection of Tcell disorders)
- Children's Oncology Group approved
- 5-7 day turnaround time



Flow Cytometry

- 10-color platform
- Comprehensive panel design
- High-sensitivity for paroxysmal nocturnal hemoglobinuria
- Expert analysis and interpretation
- 12-24 hour turnaround time

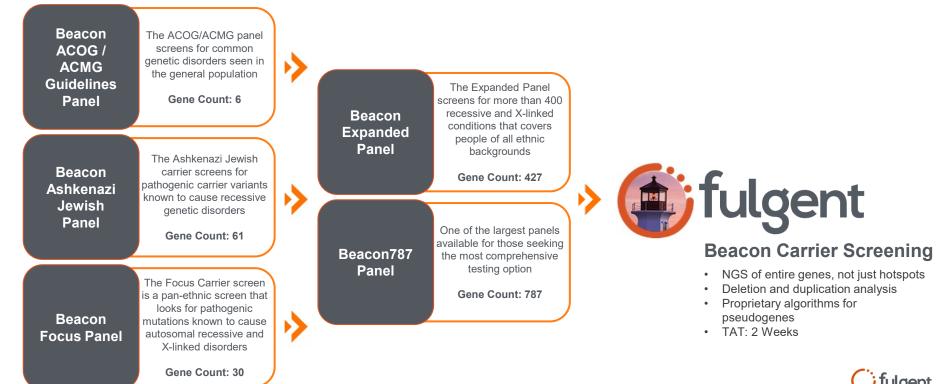
Molecular

- Hematology and solid tumor menu
- Extensive single gene menu
- NGS
- Solid tumor liquid biopsy NGS offering
- 5-7 day turnaround time [NGS 8-10 days]



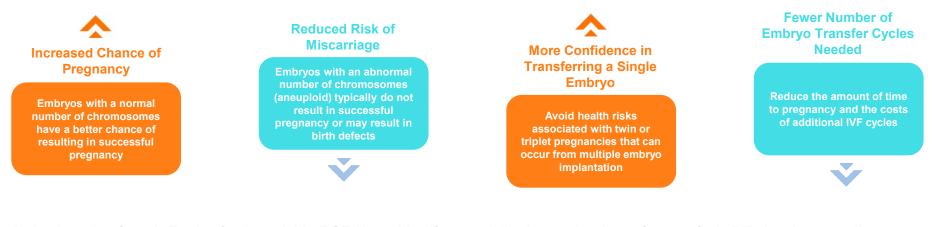
NGS Testing – Panel Deep Dive

Comprehensive Beacon Carrier Screening Tests



NGS Testing – Reproductive Services: PGT-A

PGT-A Can Expand a Patient's Prospects of a Successful Pregnancy

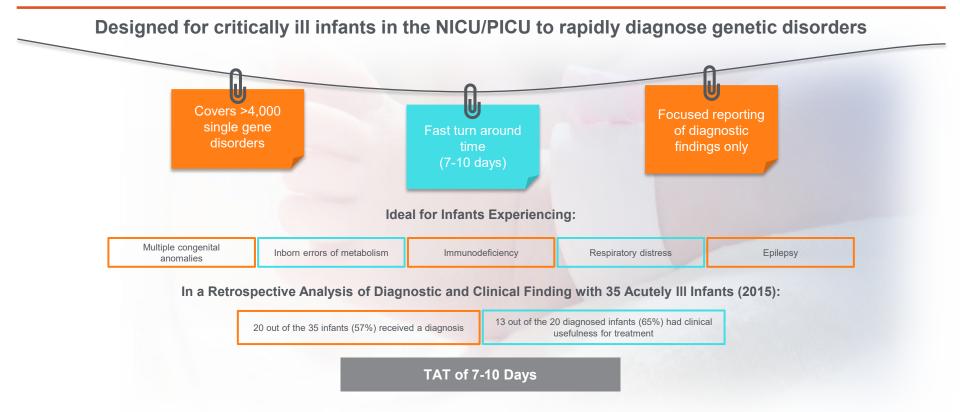


Preimplantation Genetic Testing for Aneuploidy (PGT-A) can identify potentially abnormal embryos for transfer in IVF, thereby expanding a patient's prospects of a successful pregnancy

Who is PGT-A testing for? Women 35+ Those who have experied miscarriages	ed Those who want to reduce the likelihood of having multiples Couples experiencing male factor infertility IVF failure
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NGS Testing – Rapid Whole Genome





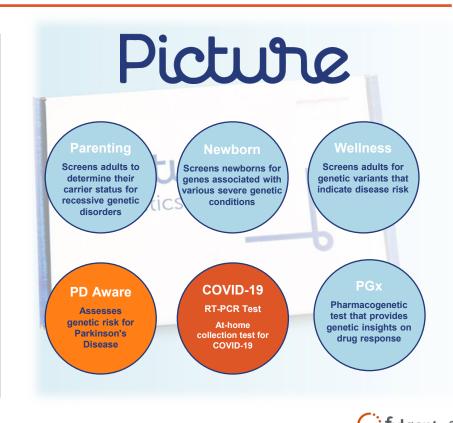
Consumer Initiated Tests – Picture Genetics

Targeting the Large Consumer Market with Picture Genetics

Launched in 2019 with significant growth amid COVID-19

- A consumer-focused offering that merges clinical utility with accuracy of an accredited lab
- Extends Fulgent's NGS capabilities to a broader market
- Validated by successfully scaling to hundreds of thousands of tests performed within months for COVID-19, after receiving an EUA
- Genetic tests utilizes complete sequencing (vs genotyping) by NGS analysis for better, more accurate results
- Patient-friendly with easy to use "order from home" model

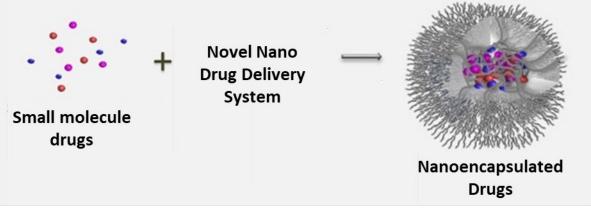
 no doctor office visits or insurance necessary, though
 many tests are eligible for reimbursement
- Select full service offering that includes analysis and genetic counseling support



THERAPEUTIC DEVELOPMENT



Nano-Drug Delivery Platform Overview



Platform Advantage:

Soluble in both water and various organic solvents and capable of hot melt mixing with APIs

- Many drug candidates in the industry failed during preclinical and clinical development and testing due to poor water solubility
- Nanoencapsulation produces amorphous drug candidates with improved solubility and potentially enhanced absorption, drug PK profiles, safety and efficacy
- · Broadly applicable to both IV and oral drug delivery formulations
- · Potentially shortened development timeline
- Plug and play drug delivery platform provides multiple shots on goal
- · Simple and low-cost production process



FID-007 Program Overview

FID-007 Phase I First in Human Clinical Trial – Preliminary Findings (n=40 patients)

- Dose levels up to 160 mg/m²/week with manageable safety profile
 - RP2D at 125 mg/m²/week
- There is preliminary evidence of anti-tumor activity in 40 heavily pre-treated patients across different tumor types (ORR = 18%)
- No high-grade neuropathy often seen in other taxanes
- Updated clinical data presented at ASCO 2023

A Phase 1 Trial of FID-007, a Novel Nanoparticle Paclitaxel Formulation, in Patients with Solid Tumors Jacob Thomas¹, Diane Habib¹, Diana Hanna^{1,2}, Irene Kana¹, Syma Idbal¹, Jorne Nieva¹, Denice Tsac<u>, Wei¹, Francisco Acosta¹</u>.



Jacob Thomas¹, Diane Habib¹, Diana Hanna^{1,2}, Irene Kang¹, Syma Iqbal¹, Jorge Nieva¹, Denice Tsao-Wei¹, Francisco Acosta¹, Ming Hsieh³, Yilong Zhang³, Anthony El-Khoueiry¹. ¹University of Southern California, Norris Comprehensive Cancer Center; ²Hoag Memorial Hospital; ³Fulgent Pharma FID-007 Phase I Preliminary Highlights (as of 6/2/23):

H&N Cancer

 57% ORR and 71% DCR were observed in 7 heavily treated H&N patients. Among them, 6/7 had prior Taxane treatment.

Ampullary/Pancreatic

• 50% ORR and 75% DCR were seen in 4 heavily treated ampullary and pancreatic patients



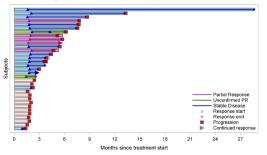
FID-007 Clinical Data Presented at ASCO 2023

Results									
Table 1: Patient Baseline Characteristics			Table 2: Dose Levels Evaluated						
Characteristic Years of Age, Median (Range)	Overall, N = 40 61 (32 - 75)	Dose Level	FID-007 (mg/m ²)	No. of Patients	No. of Evaluable Patients	DLTs Observed	DLT Type		
Gender		1	15	3	3	0			
Female	23 (58%)	2	30	3	3	0			
Male	17 (43%)	3	60	3	3	0			
Race/Ethnicity White or Caucasian	11 (28%)	4	80	3	3	0			
Hispanic	19 (48%)	5	100	5	5	2ª	Rash		
Black or African American	1 (3%)	5b	100	4	3	0			
Asian (including Indian) ECOG PS	9 (23%)	6	125	9	6	1	Gr4 neutropenia		
0	11 (28%) 28 (70%)	7	160	3	3	1	Gr3 febrile neutropenia		
2 Number of Drive Designed Andrian (Deserv)	1 (3%)	6bb	125	7	6	1	Gr4 neutropenia		
Number of Prior Regimens, Median (Range) Tumor Type Pancreatobiliary Non-small cell lung	2 (1 - 5) 11 (28%) 4 (10%)	a. Two patients in dose level 5 had DLT of grade 3 maculopapular rash. Rash resolved with supportive care and/or dose delays in both patients and resatiment was successfully continued addly without resumence of grade 3 rash. DLT definition was modified for dose levels 5b and above to silow (or grade 3 rash that resolves within 7 days. No tutter patients							
Head and neck SCC Other	11 (28%) 14 (35%)	 had DLT for rash in the subsequent dose levels. Cohort 6b used modified pre-medication by removing sodium bicarbonate infusion and addition of corticosteroid pre-medication : only. One national bad to be replaced. 							

Figure 1: Waterfall Plot for Best Response Best Response: PR SD PD -20 -30 -40 PR in 4 H&N patients (#27, #28, #31, #33), 2 pancreatic cancer (#29 and #30), and 1 patient with cholangiocarcinoma (#32). 60

Figure 2: Swimmer Plot for Responses over Time

Table 5. Treatment-related select AE categories (>= 10%)								
	Number Of Patients With Maximum Grade Toxicity Experienced							
Toxicity	Grade 1 or 2	Grade 3	Grade 4					
Alopecia	21 (53%)	0	0					
Rash maculo-papular	16 (40%)	11 (28%)	0					
Pruritus	16 (40%)	0	0					
Fatigue	15 (38%)	0	0					
Anorexia	12 (30%)	1 (3%)	0					
Nausea	12 (30%)	0	0					
White blood cell decreased	11 (28%)	5 (13%)	3 (8%)					
Anemia	10 (25%)	6 (15%)	0					
Dysgeusia	10 (25%)	0	0					
Neutrophil count decreased	9 (23%)	3 (8%)	5 (13%)					
Peripheral sensory neuropathy	9 (23%)	0	0					
Dry skin	8 (20%)	0	0					
Palmar-plantar erythrodysesthesia syndrome	7 (18%)	0	0					
Constipation	6 (15%)	0	0					
Vomiting	6 (15%)	0	0					
Diarrhea	5 (13%)	0	0					
Arthralgia	4 (10%)	0	0					
AST	4 (10%)	0	0					



Best Response Dartial Response Duconfirmed PR Stable Disease Progression Each bar represents one subject who is evaluable for response (n=33).

Table 4: Tumor Responses and Outcomes				
Characteristic	Overall,			
Characteristic	N = 40			
Total Courses Completed, Median (Range)	2 (1 - 30)			
Best Response*				
PR	7 (18%)			
SD	14 (35%)			
PD ^a	18 (45%)			
Duration of Follow-up (Months), Median (Range)	12.0 (0.4, 38.9)			

a. PD includes 4 patients who had clinical deteriorations prior to RECIST evaluation.

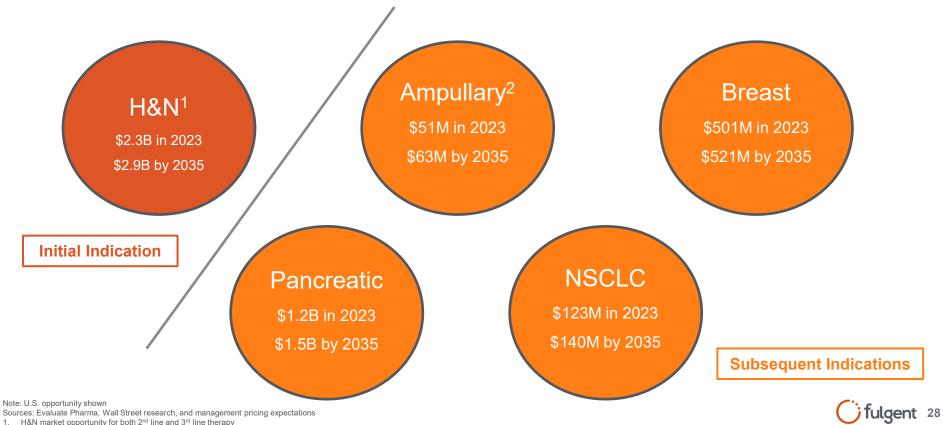
* One patient response is pending



- Enrollment in a 10-patient expansion cohort at RP2D continues
- · Based on overall tolerability, pharmacokinetics, and efficacy, the dose of 125mg/m2 has been chosen as the RP2D.
- There has been no grade 3 or higher peripheral neuropathy
- · Combination studies are planned, including a phase 2 study in head and neck SCC



Potential Market Opportunity for FID-007



Ampullary market opportunity for 2nd line therapy

Pipeline Progress

- FID-007: wholly-owned drug candidate initially focused on Head & Neck (H&N), Pancreatic/Ampullary cancers
 - Seeking initial therapeutic indication for 2nd line treatment of H&N cancer
 - Potential FDA approval strategy uses 505(b)(2) studies, which may shorten clinical trial process and accelerate timeline to commercialization
- FID-022 moving toward IND
- Developing a next generation antibody drug conjugate (ADC) technology platform that could potentially provide even broader killings towards heterogeneous cancer cells than those ADCs with the bystander killing effect

Drug Candidates	Target	Indication	Pre-Clinical	Clinical P1	Clinical P2	Clinical P3	Milestones
FID-007	Cytotoxic	Head and Neck (H&N) (505(b)(2))					Begin P2 Enrollment in 2Q24
	Cytotoxic	Ampullary or ICI Resistant (505(b)(2))			Go/No-go Based on HN Study		
FID-022	Cytotoxic	Colon (505(b)(2))			IND Filing by YE24		



FINANCIALS

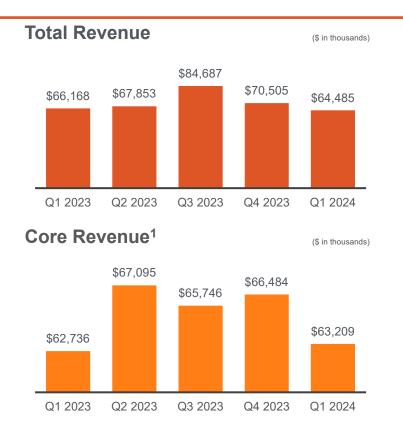


Summary Financial Performance





Financial Performance: Revenue Profile





2024 Financial Guidance Reiterated

Metric	Full Year 2024	Expected Revenue Breakdown					
Core Revenue \$280M		Precision Diagnostics	\$173M				
Cole Revenue	+7% y/y ¹	Anatomic Pathology	\$96M				
GAAP EPS	(\$2.25)	BioPharma Services	\$11M				
Non-GAAP EPS	(\$1.05)	Core Revenue	\$280M				

Expected Cash, cash equivalents, and investments in marketable securities of approximately \$800 million as of December 31, 2024²

(2) Cash expenditures may be higher or lower than currently estimated due to a variety of factors and circumstances, including as a result of the Company's ongoing stock repurchase program or other expenditures outside the ordinary course of business.



⁽¹⁾ Core Revenue excludes NGS COVID-19 test revenue for more accurate year over year comparison purposes.

Balance Sheet

(in 000's)		Periods Ended			
	Dece	mber 31, 2023	Ma	rch 31, 2024	
Assets					
Cash & cash equivalents	\$	97,473	\$	54,677	
Marketable securities		326,681		251,018	
Trade accounts receivable, net		51,132		52,060	
Other current assets		32,559		28,754	
Total current assets		507,845		386,509	
Marketable securities, long-term		423,571		540,495	
Redeemable preferred stock investment		20,438		20,438	
Fixed assets, net		83,464		86,723	
ntangible assets, net		143,053		140,989	
Goodwill, net		22,055		22,055	
Other long-term assets		34,902		32,676	
Total assets	\$	1,235,328	\$	1,229,885	
Liabilities and Stockholders' Equity					
Accounts payable	\$	15,360	\$	19,616	
Contract liabilities		2,874		2,762	
Customer deposit		22,700		27,240	
Other liabilities	_	61,108		53,621	
Total liabilities		102,042		103,239	
Stockholders' equity Accumulated income		501,721		511,332	
Total Fulgent stockholders' equity		634,380 1,136,101		618,611 1,129,943	
Noncontrolling interest		(2,815)		(3,297)	
Total stockholders' equity		1,133,286		1,126,646	
iour stockholders equity		1,100,200		1,120,040	
Total liabilities and stockholders' equity	\$	1,235,328	\$	1,229,885	
(1) \$846M in cash and investments.					



Non-GAAP Financial Adjustments

(in 000's)	20	2023			FY	2024
	Q1	Q2	Q3	Q4	2023	Q1
Revenue	\$66,168	\$67,853	\$84,687	\$70,505	\$289,213	\$64,485
Cost of revenue	47,357	47,281	44,843	45,276	184,757	42,381
Gross profit	\$18,811	\$20,572	\$39,844	\$25,229	\$104,456	\$22,104
Gross margin	28.4%	30.3%	47.0%	35.8%	36.1%	34.3%
Equity-based compensation included in cost of revenue	2,394	2,359	2,621	2,375	9,749	2,009
Non-GAAP gross profit (excluding equity-based compensation)	\$21,205	\$22,931	\$42,465	\$27,604	\$114,205	\$24,113
Non-GAAP gross margin	32.0%	33.8%	50.1%	39.2%	39.5%	37.4%
Operating expenses						
Research and development	\$9,782	\$9,692	\$10,014	\$11,952	\$41,440	\$11,434
Selling and marketing	10,083	10,723	10,161	10,500	41,467	
General and administrative	21,802	17,993	17,498	31,706	88,999	21,489
Amortization of intangible assets	1,968	1,962	1,957	1,958	7,845	
Goodwill impairment loss	_	_	_	120,234	120,234	
Total operating expenses	43,635	40,370	39,630	176,350	299,985	43,902
Operating profit (loss)	(\$24,824)	(\$19,798)	\$214	(\$151,121)	(\$195,529)	(\$21,798)
Operating margin	-37.5%	-29.2%	0.3%	-214.3%	-67.6%	-33.8%
Equity-based compensation included in operating expenses	7,871	7,964	8,281	9,057	33,173	9,509
Non-GAAP operating profit (loss) (excluding equity-based						
compensation, amortization and goodwill impairment)	(\$12,591)	(\$7,513)	\$13,073	(17,497)	(\$24,528)	(\$8,290)
Non-GAAP operating margin	-19.0%	-11.1%	15.4%	-24.8%	-8.5%	-12.9%

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THANK YOU



