



Biomarker-Based Molecular Diagnostics for Early Cancer Detection

KOSDAQ (228760)

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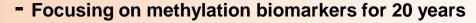






Prologue EarlyTect® Cancer Series

1. Company Overview





BIOMARKER-Based Molecular Diagnostics Company Specialist in EARLY CANCER Detection (IVD)



Best-in-class



Novel Biomarker Discovery Engine for Early Cancer Detection

First-in-class



Possession of Innovative **Biomarkers**

High Sensitivity & Specificity

Best-in-class



High Sensitivity Biomarker Detection Method

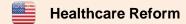
Contribute to Improving the Quality of Healthy Life and Reducing of Total Medical Costs

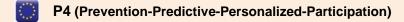
02. Unmet Needs in Healthcare Market for Healthy Life Quality of Aging Society



PROBLEM: Shortage of Medical Budget

- Rapidly increasing healthcare expenses by country
- Shortage of national healthcare budget

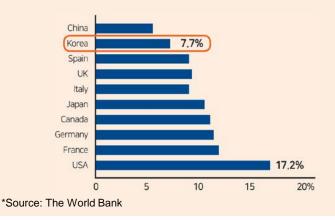




Insurance Subscription / Payment Structure Reform

Moon Jae-in Care

Percentage of Healthcare Expenditure to GDP by Country



Unmet Needs

Increase of Cancer Incidence Rate in Aging Society

Increased Demand for Preventive Medicine through Early Detection of Cancer

Patient-oriented therapeutics

Preventive medicine for asymptomatic general population through early detection of cancer

GOAL

- Mitigate the increase of healthcare expenditure rate
- Maintain healthy life quality

03. In Vitro Cancer Early Diagnostics Market



Emerging Blockbuster Market



Existing Cancer Diagnostics Market

Asymptomatic General Population Patients Confirmed as Cancer (~99% in Population) (~1% in Population) **Early Cancer Detection Companion Diagnostics Monitoring Known biomarkers** Novel / known biomarkers Low performance of existing biomarkers Selection of anticancer Therapeutic response / recurrence Absence of cancer biomarker detection method using therapy body fluid sample Roche) → Need for innovative novel biomarkers and Terminal detection method Cancer **Prognosis Prediction** Market cap: (U.S.) Novel / known biomarkers ~US\$11Bn Prediction of recurrence / survival rate (Co-promotion with Pfizer from 3Q 2018) Genomic Health LIFE, CHANGING, Early Cancer Genomictree 10⁴ (South Korea, KOSDAQ) Pre-cancer (Polyps) **Tissue / Biopsy Body Fluids (Liquid Biopsy) Body Fluids (Liquid Biopsy)**

No. of Tumor Cells

04. Market Position and Case Study of IVD Companies



Remains as unexplored field due to absence of early cancer detection biomarkers and detection technology

Worldwide IVD (In Vitro Diagnostics) Sales: Top 10 Companies & Total Market (2017-2024)

Ranking	Company	Sales (US\$ mn)		CAGR	Market Share		Ranking Changes
Kalikiliy	Сопірапу	2017	2024	2017-24	2017	2024	2017-24
1	Roche	10,276	14,159	+4.7%	19.5%	17.8%	-
2	Abbott Laboratories	5,616	10,120	+8.8%	10.7%	12.7%	+1
3	Danaher	5,840	8,290	+5.1%	11.1%	10.4%	-1
4	Siemens Healthineers	4,705	6,036	+3.6%	8.9%	7.6%	-
5	Thermo Fisher Scientific	3,241	4,232	+3.9%	6.2%	5.3%	-
6	Becton Dickinson	2,849	4,044	+5.1%	5.4%	5.1%	-
7	Sysmex	2,301	3,579	+6.5%	4.4%	4.5%	-
8	bioMerieux	2,091	3,377	+7.1%	4.0%	4.2%	-
9	Ortho-Clinical Diagnostics	1,800	2,101	+2.2%	3.4%	2.6%	-
10	EXACT Sciences	266	1,781	+31.2%	0.5%	2.2%	+14
	Top 10	38,984	57,719	+5.8%	74.1%	72.5%	
	Other	13,638	21,842	+7.0%	25.9%	27.5%	
	Total Industry	52,622	79,561	+6.1%	100.0%	100.0%	

^{*}Source: Evaluate, September 2018 Excludes Glucose Test System which are included in diabetic care classification

05. Key Success Factors of Early Cancer Detection



In Vitro Cancer Early Detection Method

A molecular diagnostics method to detect cancer at early stage by measuring biomarkers from body fluid (Liquid Biopsy: Blood, Urine, Stool, Sputum etc.)



Finding the needle in the haystack

3 Factors

Clinical Validity

Cancer-specific biomarkers (First-in-class)

High sensitivity and specificity



Analytical Validity

Biomarker detection technology (Best-in-class)

High sensitivity selective DNA amplification method



Analytical Validity

Reaction instrument (PCR equipment)

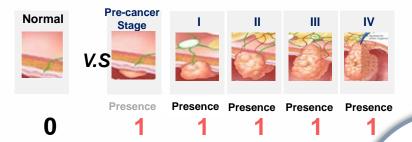
High throughput analysis

When sensitivity / specificity is satisfied, in vitro early cancer detection kit is successful

06-1. Why DNA Methylation Biomarkers?

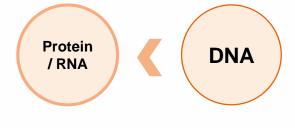


- Aberrant change exists in the early stage of tumorigenesis
- Constantly maintained regardless of clinical stage



DNA Methylation

High detection stability in body fluids



High structural stability of DNA compared to RNA & protein

Possible to amplify by PCR when minute amount

of DNA methylation biomarkers exist in body fluids

C Methylated C
C Nonmethylated C

Step 1

TCGACGUTG Genomic DNA

Step 2

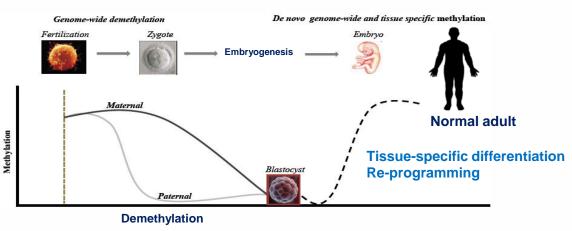
AGCTGCAAC PCR Product

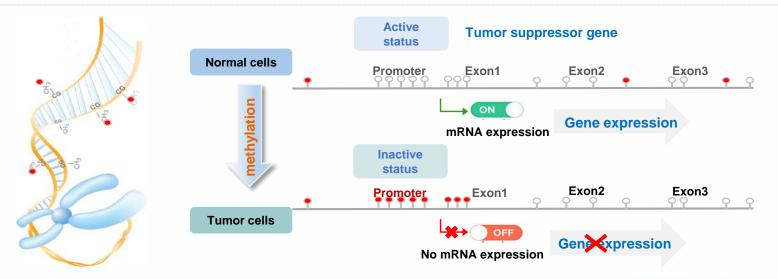
06-2. Why DNA Methylation Biomarkers?



- The binding of methyl groups to specific site of DNA that determines gene expression is a natural phenomenon that blocks gene expression
- Aberrant DNA methylation induces cancer by inactivating tumor suppressor genes which controls gene expression in response to external stimuli such as smoking and drinking etc. (Baylin&Jones,2011)

Regulation of spatiotemporal gene expression during embryogenesis









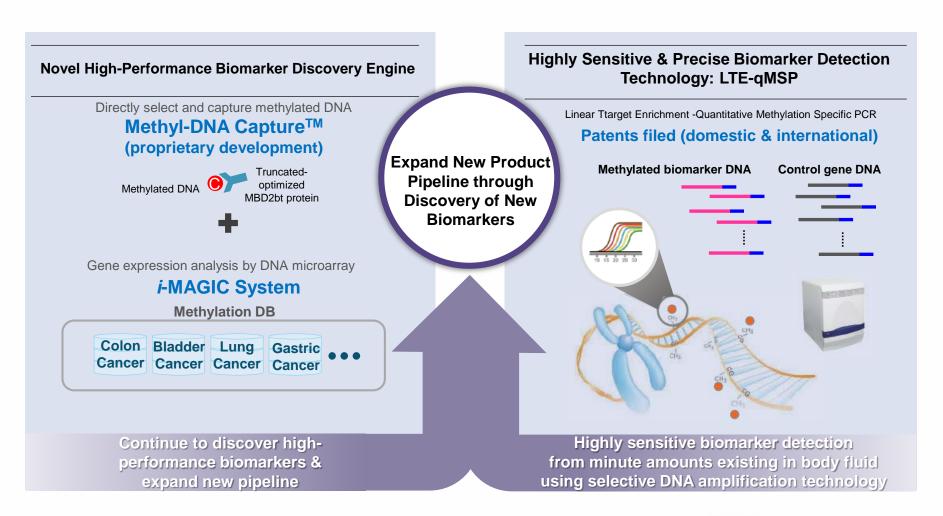
Core Competencies

EarlyTect® Cancer Series

O1 Core Technology: Best-in-class New Biomarker Discovery Engine & Detection Technology



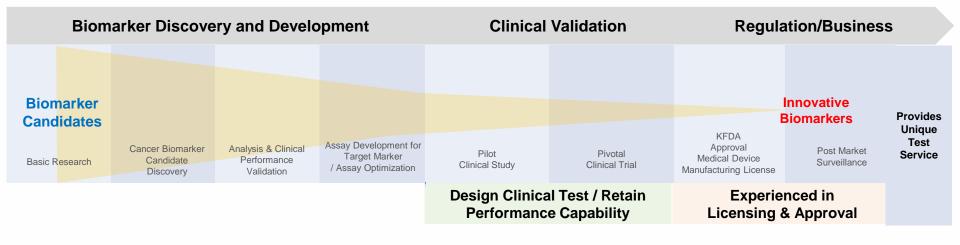
Capable of Discovering High Potential Novel High-Performance Biomarkers Efficiently / Continuously

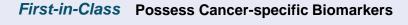


02. Core Competences



Possess Unique Technology from Biomarker Discovery to Commercialization





Syndecan-2 (SDC2) **Colorectal Cancer Methylation Biomarker**

PENK Bladder Cancer Methylation Biomarker Methylation Biomarker

PCDHGA12 **Lung Cancer**

EarlyTect® **Cancer Series Product Line**

Best-in-Class Possess Biomarker Detection Technology

LTE-qMSP

Selective DNA Amplification technology

Methyl-DNA Capture[™] + Microarray

Best-in-ClassPossess Biomarker Discovery Engine

i-MAGIC System

03. Main Product Pipeline



Early Cancer Detection Technology: EarlyTect® Cancer Series Products

EarlyTect® Colon Cancer



- Cancer type: colorectal cancer
- Subject: asymptomatic general population
- Biomarker: SDC2 methylation
- Specimen: stool
- Intended use: early detection of patients who should undergo colonoscopy
- Status: KFDA approval (Class III IVD) **Granted international patents**

EarlyTect® Lung Cancer



- Cancer type: lung cancer
- Subject: patients with pulmonary nodules
- Biomarker: PCDHGA12 methylation
- Specimen: blood (serum)
- Intended use: early detection of patients with high-risk lung cancer
- Status: Ongoing pivotal clinical trial for KFDA approval (Class III IVD) **Granted International patents**

EarlyTect® Bladder Cancer



- Cancer type: bladder cancer
- Subject: hematuria patients
- Biomarker: PENK methylation
- Specimen: urine
- Intended use: triage of hematuria patients who will undergo cystoscopy
- Status: development **Granted International patents**





Technology for Early Detection of CRC EarlyTect® Colon Cancer (Stool-based)

KFDA approval for IVD (Class III) (Aug 28, 2018)

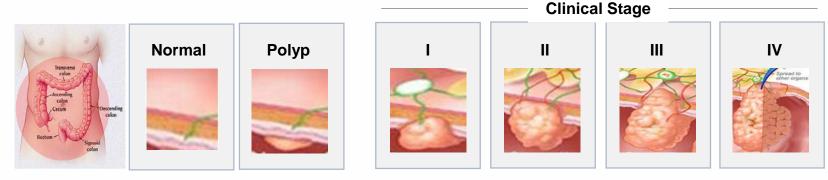
Flagship product

01. The Need for Early Detection of Colorectal Cancer (CRC)



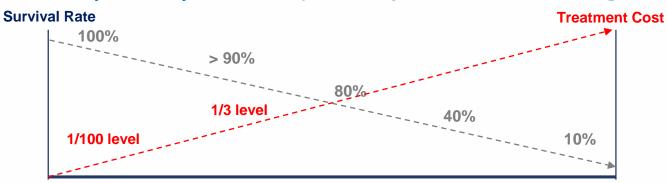
High Medical Costs

- Cancer mortality rate ranked second in the world
- About 60% of patients are detected at late stage
 - Average treatment cost per patient : up to KRW 150 mil. (US), up to KRW 30 mil. (South Korea)



❖ ~10 years >> Early Detection >> Improved Quality of Life & Treatment Cost Savings

Survival Rate & **Treatment Cost**



02 Development Needs of Innovative In Vitro Early CRC Detection Technology



Current Screening Tools for CRC Early Detection

Colonoscopy (Gold Standard)



- High invasiveness, inconvenience
- Low participation rate due to bowel preparation (worldwide average of less than 30%)

CRC Incidence Rate & Mortality Rate Remain High

FOBT / FIT



 Low sensitivity to early CRC (less than 50%) and polyps
 (≥ 1.0 cm; less than 20%)

Unmet Needs

- Increase in participation rate of colonoscopy screening
- Increase in early CRC detection



Evidence-based early CRC detection

in vitro early detection technology utilizing biomarkers



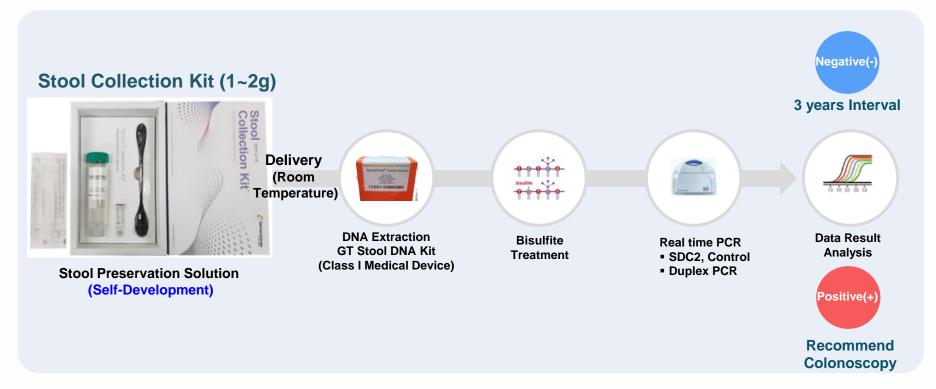


03. Innovative In Vitro Early CRC Detection Method : EarlyTect® Colon Cancer



EarlyTect® Colon Cancer (KGMP Production)

Stool Sample Collection / Storage / Delivery / Pre-treatment / Reaction Process / Test Process



- Single stool collection: no restriction on diet or medication
- Real time PCR test / analyze within 8 hours, minimum training required

04. Central Service Lab (In Operation)





Area	1,432.16 m ² (2-story building)
Examination Capacity	170,000 tests/ year (340,000 tests using 2 shift rotation)
Sales Capability	KRW 17 billion ~ 34 billion / year

Establishment of Infrastructure for Examination Process of Early Cancer Detection Products

Specimen Pre-treatment

DNA Extraction

Bisulfite Treatment Real time PCR Data Analysis













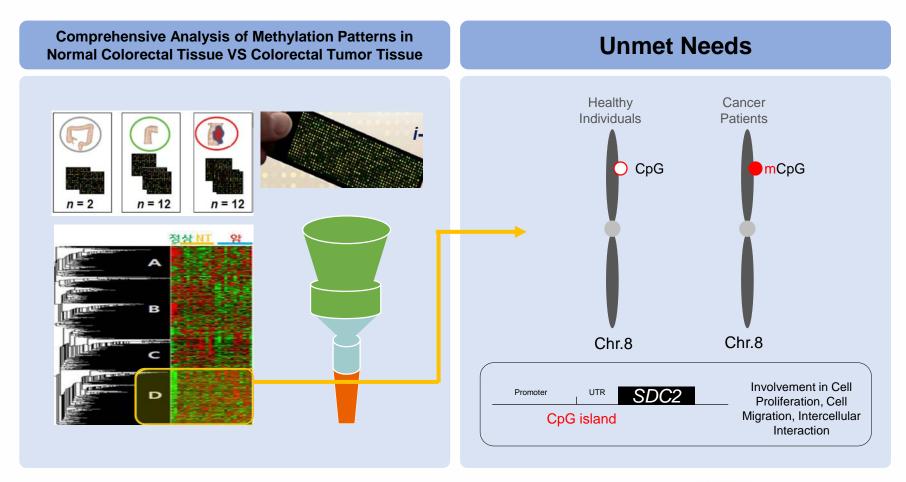




05-1. CRC Biomarker: Syndecan-2 Methylation



Innovative CRC Biomarker Discovery Utilizing Unique Biomarker Discovery Engine

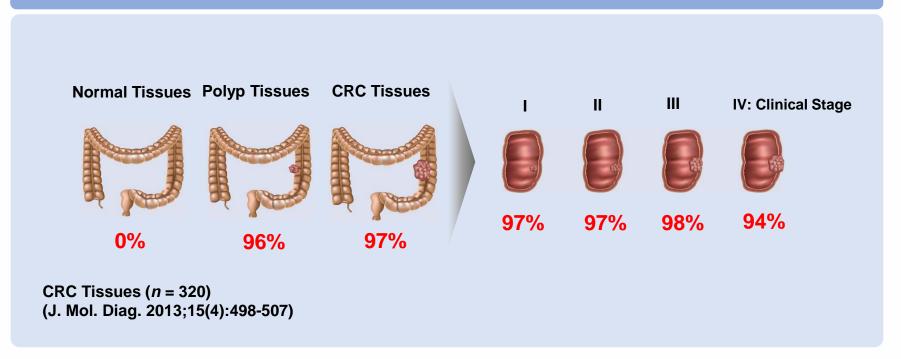


05-2. CRC Biomarker: Syndecan-2 Methylation



Established the Clinical Validity for Early CRC Detection in Tissue

[Frequency of positive SDC2 methylation (%)]



05-3. CRC Biomarker: Syndecan-2 Methylation

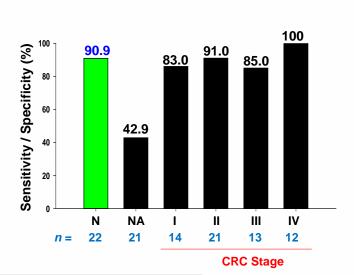


Established Clinical Validity Using Stool-based Biomarker Detection Method: KFDA approval (Class III)

Two Independent Clinical Trials: Confirmed High Replicability

Pilot Clinical Trial Results (n = 93)

- Total Sensitivity = 90%, Early Cancer (I II) Sensitivity = 86%
- Total Specificity = 90.9%
- Cutoff C_T 40

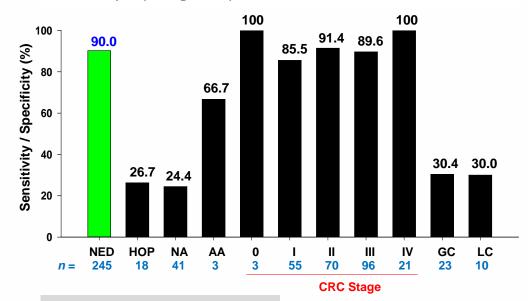


- · N: Normal Person, No Colonoscopy
- NA: Non-advanced adenomas (< 1.0 cm)

Feasibility of quantifying *SDC2* methylation in stool DNA for early detection of colorectal cancer *Clinical Epigenetics*, 2017;9:126.

Pivotal Clinical Trial Results (n = 585)

- Total Sensitivity = 90%, Early Cancer (0 II) Sensitivity = 89%
- Total Specificity = 90%
- Cutoff C_T 40 (1/2 algorithm)



- NED: No evidence of disease on colonoscopy,
- HOP: Hyperplastic or other polyp,,
- NA: Non-advanced adenomas (< 1.0 cm),
- AA: Advanced adenomas (≥ 1.0 cm),
- GC: Gastric cancer
- LC: Liver cancer

Published in Clinical Epigenetics, 2019;11(1):51

06-1. Global Competitiveness (versus Exact Sciences)



exact sciences	VS	<i>G</i> Genomictree
USA	Country	South Korea
1995	Established	2000
NASDAQ	Listed	KOSDAQ(2019.03)
Whole Stool	Specimen	1~2 g of Stool
2x methylation markers (NDRG4,BMP3) + KRAS 7 mutations + FIT (Fecal Immunochemical Test)	Biomarker Gene	SDC2 methylation Duplicate reactions
CRC 92% Polyp (≥ 1.0 cm) 42%	Sensitivity	CRC 90% Polyp (≥ 1.0 cm) ~50%
87%	Specificity	90%
~26 hours	Test Duration	~8 hours
US FDA approval (PMA) (2014)	Certification and Approval	KFDA approval (Class III) (2018)
List price : \$650 Revenue per test: ~\$490	Test price	List price: up to KRW 200K (domestic) Revenue per test: KRW 100K(domestic)

06-2. Global Competitiveness (versus Exact Sciences)





VS



			-			
KRAS Gene Mutations (7 sites) No patent	Whole Stool License-In FIT	DNA Methylation NDRG4, BMP3 MDx Mayo Health Clinic	First-in-class Biomarker	1~2g of Stool Proprietary Development: Patent Granted DNA methylation SDC2		
,	License-In QuARTS Invader probe Allele Specific PCR		Best-in-class Detection Technology	Proprietary Development: Patent Granted LTE-qMSP TaqMan Probe LTE-QMSP PCR		
PCR Equipment Roche / AB 7500 / Qiagen		gen	Detection Instrument	PCR Equipment Roche / AB 7500 / Qiagen		
U (Insura	ologuard (FDA Ip to US\$ 650 nce coverage ted to US mar	80%)	Competitiveness	EarlyTect CRC (KFDA) When entering US, about ~US\$350 (target insurance coverage up to 100%) High global scalability		

07. High Business Value of CRC Early Detection Products



Provide Diverse Benefits to Both Patient and Physician

Patient: **Increased Early Diagnosis**

- High confidence: increase compliance with colonoscopy for confirmation of positive patients
- Increase in early detection probability of CRC or polyps due to high compliance: expect significant reduction in medical expenses and improvement in quality of life

Physician: **Increased Revenue** Generation

- Increase of patients undergoing colonoscopy due to increased compliance
- Positive patients may have polyps or CRC, and treatment results in revenue
- Hospitals without Colonoscopy can Benefit from Additional Medical Income without Additional Investment (in Korea)





Technology for Early Detection of Lung Cancer (LC) EarlyTect® Lung Cancer (Blood-based)

Ongoing Pivotal Clinical Trial for K-FDA Approval (Class III)

01. Lung Cancer (LC) Early Detection



No LC early detection tool

Unmet Needs

Low-dose chest CT scan

Patients with pulmonary nodules (prevalence can be as high as 25%) (more than 95% are false positives)

Early detection of high-risk LC patients

Follow-up Test

- Bronchoscopy with bronchial wash: Sensitivity up to 30%
- Sputum cytology: sensitivity up to 35%
- Lung biopsy: high Invasiveness / high-risk
- CT follow-up test: radiation

•EarlyTect® Lung Cancer

(Ongoing Pivotal Clinical Trial for Approval)



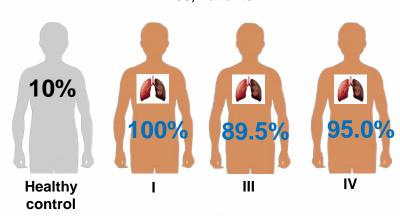
- Cancer type: lung cancer (early detection)
- Subject: patients with pulmonary nodules
- Biomarker: PCDHGA12 methylation
- Specimen: blood (serum)
- Patent granted: South Korea, US, Europe,

China and Japan

"Ranked #4 in total cancer incidence rate" PCDHGA12 Methylation Positivity (%)

(South Korea) by 11.3%"
5 year relative survival rate 26.7%

n = 80, Patients



02. Competitiveness of LC Early Detection Product



Company Name (Country)	Epigenomics (Germany)	Genomictree (South Korea)
Specimen	Plasma DNA	Serum DNA
Amount of Specimen Used	Blood 10 mL	Blood 2 mL
Biomarker Gene	SHOX2, PTGER4 methylation	A novel single gene PCDHGA12 methylation
Sensitivity	90%	92.5% (pilot trial)
Specificity	73%	90% (pilot trial)
Price	Unknown	US\$150~200 (in Korea)
Test Method (Frequency) qPCR (triplicate tests)		qPCR (single test)
Regulatory Approval CE-IVD (2018)		Ongoing pivotal clinical trial (Class III) (Subject <i>n</i> = 547 by 1 institute (KNU hospital) in South Korea)





Technology for Early Detection of Bladder Cancer (BC) EarlyTect® Bladder Cancer (Urine-based)

In Development

01. Bladder Cancer (BC) Early Detection



Unmet Needs

Hematuria patients
(Approximately 85% of BC
patients present with
hematuria)

BC prevalence among hematuria patients Micro: ~5%, Macro: ~20%

Cystoscopy is performed for almost all hematuria patients (lack of suitable triage test)

- High invasiveness
- Pain
- Side effects



Need for triage of high-risk patients who will undergo cystoscopy

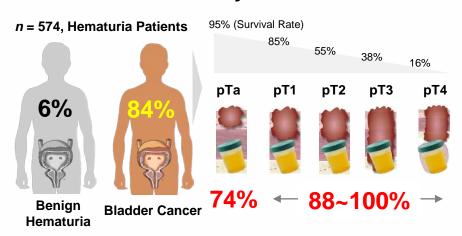
EarlyTect® Bladder Cancer



- Cancer type: bladder cancer (early detection)
- Subject: patients with hematuria
- Biomarker: PENK methylation
- Specimen: urine DNA (10 mL)
- Patent granted: South Korea, US, Europe,

China and Japan

PENK Methylation Positivity (%) Pilot study results



02. Competitiveness of BC Early Detection Product



Company Name (Country)		Abbott (USA)	Genomictree (South Korea)
Specimen	Urine	Urine DNA	Urine DNA
Amount of Specimen Used	Less than 1.0 mL	Urine > 30 mL	Urine 10 mL
Biomarker Gene	A single protein marker NMP22	UroVysion 4 chromosome abnormality (3, 7, 9p21, 17)	A novel single gene PENK methylation
Sensitivity	68%	76 %	84% (Pilot Trial)
Specificity	79%	85 %	94% (Pilot Trial)
Price	Up to US\$ 35	Up to US\$ 250	US\$ \$150~200 (in Korea)
Test Method (Frequency)	Rapid kit	FISH	qPCR (single test)
Approval	US FDA Approval (2002)	US FDA Approval (2004)	In development
Remarks	Remarks Low accuracy of BC monitoring		High accuracy, simplicity

High Entry Barrier of Genomictree's Early Cancer Detection Technology



Secured Intellectual Property

- Domestic patent granted (filed): Total of 49
- Overseas patent granted (filed): Total of 50
- Biomarker patents granted in domestic and in key countries overseas

Difficulty of Technology Replication

- Ingenious biomarker: non-reproducible
- Clinical validation / approval procedure:
 high level of technical barriers

Countermeasures on Newly Released Products

- Marker discovery ~ verification process:
 high entry barrier
- Continuously obtain clinical data through post-marketing surveillance

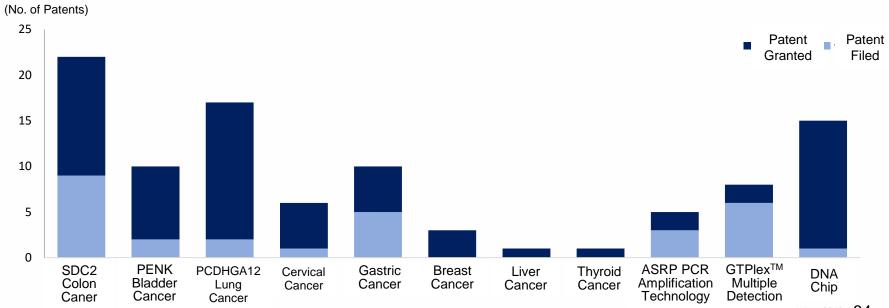
Difficult for second movers to enter the market due to inimitable and high entry barrier

New product release,
development of
upgrade products
and adaptive expansion
→ Market leader

Main Intellectual Property Status

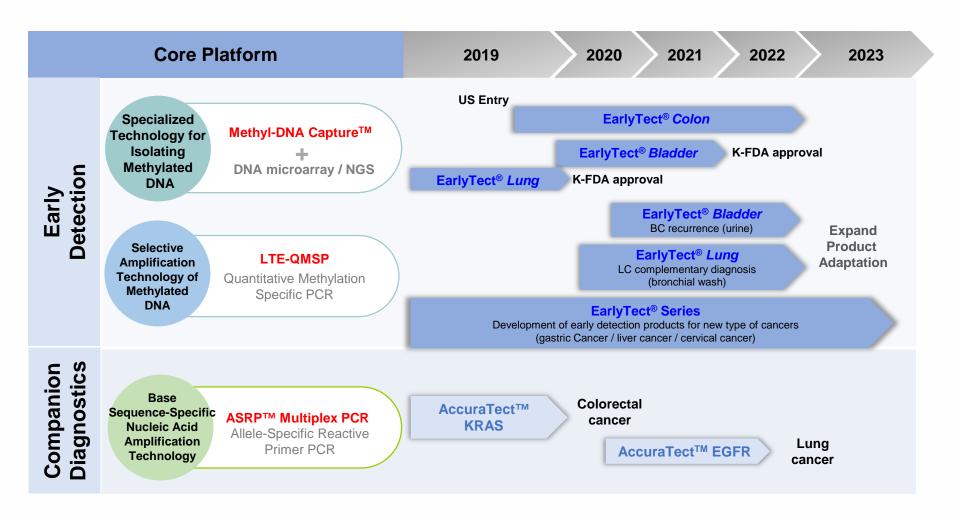


- Patenting methylation biomarkers by cancer types: biomarker patents granted in Korea & in key countries worldwide
- Assay: patenting open platform / element technology
- Colorectal cancer (SDC2): patent granted in South Korea, US, Europe, Japan, China
- Bladder cancer (PENK): patent granted in South Korea, US, Europe, Japan, China
- Lung cancer (PCDHGA12): patent granted in South Korea, US, Europe, Japan, China
- Methylated biomarker detection technology (LTE-qMSP): patent filed in South Korea and PCT application
- Base sequence-specific amplification technology (ASRP-multiplex PCR): patent granted in South Korea, US, Europe, China



Main Product Development Timeline









03 Commercialization

Potential Market Size of Colorectal Cancer Early 01 Diagnosis by Major Countries





120.1 million People

Colonoscopy Non-participation Rate

60%

Theoretical Market Size by 2019

\$7.2Bn

Europe

159.44 million People

Colonoscopy Non-participation Rate

60%

Theoretical Market Size by 2019

\$6.4Bn

South Korea

22.5 million People

Colonoscopy Non-participation Rate

70%

Theoretical Market Size by 2019

\$525MM



EarlyTect® CRC



Cologuard

Assuming EarlyTect® Colon Cancer is tested every three years for the population over 45 age, reimbursement is determined by cross-walk, revenue per test is estimated to be \$300 in the US, \$200 in the Europe and \$100 in Korea

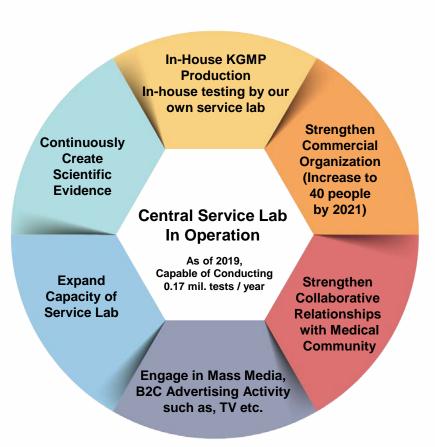
02-1 Domestic Market Commercialization Strategy of CRC Early Detection Product (EarlyTect®CRC)

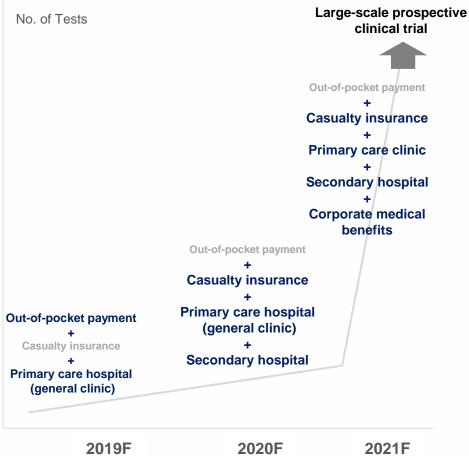


Promote

Recommendation for CRC Screening

Target for 2019: 1) **Develop 800 Providers** (hospitals, health examination centers etc.) 2) Enhance the consumer awareness of EarlyTect





02-2. Entry Strategy to Recommend Colorectal Cancer Test EarlyTect*



Large-scale Prospective Clinical Trial Plan Establishment of First Community Advisory Board in Diagnostic Industry

Post market
Advisory Board

Hospital	Name	Association
Severance Hospital, Yonsei University Health System	Kim, Nam-Kyu	The Korean Society of Coloproctology, Former Chairman / Coloproctology Research Society
Yongin Severance Hospital, Yonsei University Health System	Han, Yoon-Dae	The Korean Society of Coloproctology / Coloproctology Research Society
Seoul National University Hospital	Jeong, Seung- Yong	Seoul National University Cancer Hospital, Head of Colorectal Cancer Center
Wonju Severance Christian Hospital	Kim, Hyun-Soo	Korean Society of Gastrointestinal Endoscopy, Executive
Graduate School of Public Health Yonsei University	Ji, Sun-Ha	National Health Promotion Institute, Director of Planning

Tertiary Hospital Advisory Board (General Hospital)

Hospital	Name	Association
Kangbuk Samsung Hospital	Park, Dong-II	The Korean Society of Gastroenterology,
Asan Medical Center	Byun, Jung-Sik	
The Catholic Univ. of Korea Seoul St.Mary's Hospital	Cho, Young-Suk	Tumor Research Society, Executives
Severance Hospital, Yonsei University Health System	Kim, Tae-Il	

Physician Advisory Board

Hospital	Name	Association
Dr. Park's Medical Clinic	Park, Kun-Tae	Korean Physician's Association, Vice President (President of Seoul District)
JangPyunHan Medical Clinic	Jang, Woong-Ki	Korean Physician's Association, President of Academic
HyunDae Medical Clinic	Lee, Jeong-Yong	Korean Physician's Association, Secretary General
HunHunHan Medical Clinic	Eun, Soo-Hoon	Korean Physician's Association, Director of Public Affairs
Hanyang Rheumatism Clinic	Lee, Seung-Won	Korean Physician's Association, Director of Scientific Committee

03. Overseas Clinical and Advancement Plan



	2019	2020	2021	
	 Establish US corporation and recruit local staff FDA clinical design advisory contract CRO contract 	f		
USA	■ FDA Pre-submission	Execute FDA Clinical Trial and FDA Approval		
	Promote Licen	sing Out of Technology and Product Sal	es Rights	
Asia		Establish JV or partnershipClinical trial cesign	Execute Clinical Trial	
	Promote Lice	nsing Out, either Directly or through Part	tnership	
EU (CE marked)		Europe regional partnershipLiaise clinical trial partnersClinical trial design	Execute Clinical Trial	
	Promote Lice	nsing Out, either Directly or through Part	tnership	

04. Establishment of US Corporation



Company Name	Promis Diagnostics, Inc.	
Initial capital	US\$10 million (additional \$20 million planned)	
Principal office	Pasadena, CA	
Mission	 Support and execute US FDA clinical trial Promote commercialization in North America (including licensing) and manage post contract Attract foreign investment etc. 	
Stage	- Clinical trial	





04 Appendix

1. Company Overview

- focusing on the Methylation Biomarker for 20 years



General Profile

Company Name	Genomictree, Inc.
CEO	Sungwhan An
Date of Establishment	Oct. 6, 2000
Capital	KRW 10 BN
Listed	KOSDAQ (2019.03)
Net IPO proceeds	~ US\$103 MM (F/X \$1 : KRW 1,000)
No. of Employees	55
Address	 - HQ: 44-6, Techno 10-ro, Yuseong-gu, Daejeon - Seoul office: Miwang Bldg, 364, Gangnam-daero, Gangnam-gu, Seoul
Main Business	 Molecular Diagnostic Business (Early detection of cancer) Dielectric Analysis Service (DNA Chip, NGS etc.)

CEO Profile



CEO An, Sungwhan

- Adjunct Professor, Cancer Research Center,
 Yonsei University College of Medicine
- Former Assistant Professor, Cancer Center,
 Yonsei University College of Medicine
- Former Post Doctorate, Stanford Univ. Medical Center
- PhD in Molecular Biology, The Univ. of Texas at Austin

Main HR Breakdown

By Depart ment	R&D	Production / Quality	Diagnostics service	Commercial	Business Mgmt
Total	17	4	9	18	7

02. Company History



Global Leading Corporation

- Listed at KOSDAQ in March 2019
- Overseas Expansion of Early Cancer Detection Products
 - Strengthen Global Competitiveness
 - Company Sales Volume of 100 billion

2008~2014

2015~2018

2000~2007

Building	R&D	Foundation
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		Aug 2006
Oct 2000	Genomictree Inc. established	Sep 2008
Feb 2001	Research Institute certified	
May 2001	Microarray operation system constructed	Jul 2009
Sep 2001	Certified as venture company	Jan 2013
Sep 2002	Developed methylation biomarker discovery	Nov 2013
	engine	
Nov 2003	Acquired ISO9001 QMS certification	Apr 2014
May 2004	Performed project of MOHW (Colorectal cancer)	Apr 2014
May 2005	Performed project of MOHW (Lung cancer)	l 2014
Dec 2005	Secured investment (KDB Capital etc.)	Jun 2014
May 2007	Performed project of MOTIE (Bladder cancer)	Jul 2014
IVIAY 2007	renormed project of world (Bladder Cancer)	Sep 2014

Establishing Foundation for G Commercialization of Core Technology

Aug 2008	Relocated HQ (new building at Tamnip-dong)	S
Sep 2008	Registered factory (manufacturer of	C
	pharmaceutical related products)	,
Jul 2009	Recognized as Inno-biz: Grade A	S
Jan 2013	Acquired NET certification	
Nov 2013	Awarded at Korea IP Champion Competition	D
Apr 2014	Medical device manufacturer (MFDS) approved	Α
Apr 2014	EarlyTect GI Syndecan2 Methylation Assay	Α
	approved	
Jun 2014	Acquired KGMP certification (MFDS)	(
Jul 2014	Secured investment (KB Investment etc.)	

Awarded at Bio IP Technology Golden Bell

Competition, Medical device division

Preparing to become Global Molecular Diagnostics Corporation

Feb 2015	Acquired ISO13485 certification
Sep 2015	Named K-Brain Power corporation
Oct 2015	Secured Investment (MAGNA Investment)
Jul 2016	Listed on KONEX (228760)
Sep 2017	Secured investment (KB Investment,
	SOLIDUS Investment)
Dec 2015	EarlyTect® Colon Cancer CE-IVD
Aug 2018	Secured investment (DAYLI Partners)
Aug 2018	EarlyTect® Colon Cancer manufacturing
	approved
Oct 2018	Completed construction of molecular
	diagnosis examination service center

Genomictree Investor Relations 2019

Appendix1. Professionalism of Company Personnel



"Details, Every time, Integrity"

Maintain Core Founding Members

Founding Members: R&D / COO

CEO An, Sungwhan Representative Director

(PhD of The Univ. of Texas at Austin / Stanford Univ. Medical Center)

COO Yoon, Chi-Wang Vice President

(KOLONeENGINEERING / KOLON GIOBAL PM)

Director Yoon, Dae-Kyoung

(MS of Pusan National University / Samsung Biomedical Research Institute)

Research Director Oh, Tae-Jeong

(PhD of SungKyunKwan University / Korea Atomic Energy Research Institute)

PhD Kim, Myung-Soon

(PhD of Chungnam National Univ. College of Medicine / Samsung Biomedical Research Institute)

Clinical / Licensing

Professional RA

Yoo, Young-Jun / Lim, Eun-Kyung (Level 1 License / Chungnam National Univ.)

IT / Bioinformatics

PhD Kim, Chul-Hong

(PhD of Pusan National University / Theragen Etex)

R&D

Master's Degree: 4 people Undergraduate: 1 person

CFO

Ahn, Chan-Ho

(KICPA / BA of Seoul National University)

US FDA Consultant

PhD Kim, Do-Hyun (10yrs of US FDA experience)

Marketing / Sales Directors

Lee, Yong-Un CCO (MNC Pharm 21 yr)
Director Son, In-Ho (MBA, MNC Pharm 18 yr)
Director Kim, Won-Bong (MNC Pharm 20 yr)

R&D

Master's Degree: 6 people

Examination Service

Clinical Pathologist: 3 people Procurement: 1 person (Undergraduate)

2001 2007~2014 2015~Present

Appendix2. Expansion of Sales Marketing Leadership



Recruitment of Industry-Leading Experts with Marketing Experience in Pharmaceutical Companies **Expansion of Commercial Organization**

Chief Commercial Officer

Lee, Yong-Un

- Major Career (Total 21 years)
 - MNC Pharmaceutical Company **Executive Director,** Sales & Marketing
 - Novartis
 - Sanofi
 - Handok Pharmaceutical
 - Daewoong Pharmaceutical

Sales Director

Kim, Won-Bong

- Major Career (Total 20 years)
 - MNC Pharmaceutical Company **Executive Lead,** Sales & Marketing
 - **Novartis**
 - Schering

Marketing Director

Son, In-Ho

- Major Career (Total 18 years)
 - **MNC Pharmaceutical Company Asia Regional Executive Marketing Lead**
 - **Novartis**
 - BMS
 - UCB

Appendix3. Expect to Expand Business Area at Dun-gok District Science-Business Belt, Daejeon (2021)



Possible to Examine More than 1 Million Tests per year



- Construction Name: New Construction of Genomictree Factory, Dungok District
- Building Owner: Genomictree Inc.
- Location: (Industrial Complex 7-4) Dungok-dong, Yuseong-qu, Daejeon
- Land Area: 6,050 m² (1,800 pyung size)
- Building Profile
 - 1) 1st Floor: 2,400 m²
 - 2) 2nd Floor: 2,400 m²
 - 3) 3rd Floor: 2,400 m²
 - 4) 4th Floor: 2,400 m²
- Construction Area: 2,436 m²
- Ground Floor Total Surface Area: 9,600 m²
 - (2,900 pyung)