

# RICHEN

## MEDICAL SCIENCE

THE FUTURE IS IN OUR HANDS



# CONTENT

1

Company Overview


2

Richen Portfolio

3

New release





Our travel starts from far away  
to get to build a better future

- **Richen Science**, founded in July 2002, is a pharmaceutical company group well known as the major reference for the international market in the production of scientific instrumentation and reagents for urea breath test analysis.



Our idea was focusing to "develop national medical technology and serve for the well-being of all mankind",


The company have been specializing in R&D, manufacturing, marketing and customer service of high-tech medical devices in Gastroenterology field more than 10 years.



# Mission

- The Richen Group is very sensitive to humanitarian support in countries that present serious difficulties a critical quality of life of the populations,
- the products we offer to our customers are focused on helping them in their mission of protecting people's health.
- These principles may seem obvious, but our commitment has allowed us to present what we produce today as a possible future.





# If you could help end gastric cancer in a whole country, would you do it?

Save And Improve Lives in Bhutan by eradicating H-pylori

## Richen Europe partner of SAIL in Bhutan

H-pylori eradication could potentially save lives from gastric cancer. Bhutan is currently the country with the highest infection rate in the world: while the infection rate with H-pylori is approximately 50% worldwide, Bhutan's infection rate hits 90%.

## A project we really trust in: SAIL in Bhutan.

- ✦ H-pylori infection diagnosis
- ✦ Eradication of H-pylori

Donations will support Bhutanese patients in need, via free delivery of treatment. These will provide H-pylori diagnosis and eradication therapy as a treatment for gastritis/reflux syndrome and cancer prevention.

Official website: [sailinbhutan.com](http://sailinbhutan.com)

Project presentation: [PDF](#)

Bhutan is small mountainous country bordering India and China and consists of four geographic regions, west, east, central, and south. Known commonly as the happiest place on Earth, Bhutan is a beautiful country in the Himalaya, south of Tibet and north of India.

The high prevalence of antibodies to H. pylori among patients and in all groups could contribute to the high incident rate of gastric cancer in Bhutan. Crowded living condition and the residing region contribute to the variation of the prevalence of the infection. .

The World Health Organization reported the incidence of stomach cancer to be very high in Bhutan.

The high incidence of gastric cancer in Bhutan may be attributed to the high prevalence of H. pylori infection.

This population suffers from a major medical health issue: a 5-fold incidence of gastric cancer, which means roughly 1 death per 1,000 people with this terrible disease.

The reason for this major health care problem is a 90% infection rate of the specially virulent Helicobacter pylori bacteria (H-pylori).

**Richen Science Group** support 13c ubt test spectrometer and 13c ubt test kit to Bhutan.

As we all know, 13c urea breath test is a gold standard for diagnosis h.pylori infection. It featuring safe and non-toxic, rapid detection, suitable for the elderly, children and pregnant women.

**Richen Science Group** Is Helping More And More People Improving Lives in Bhutan

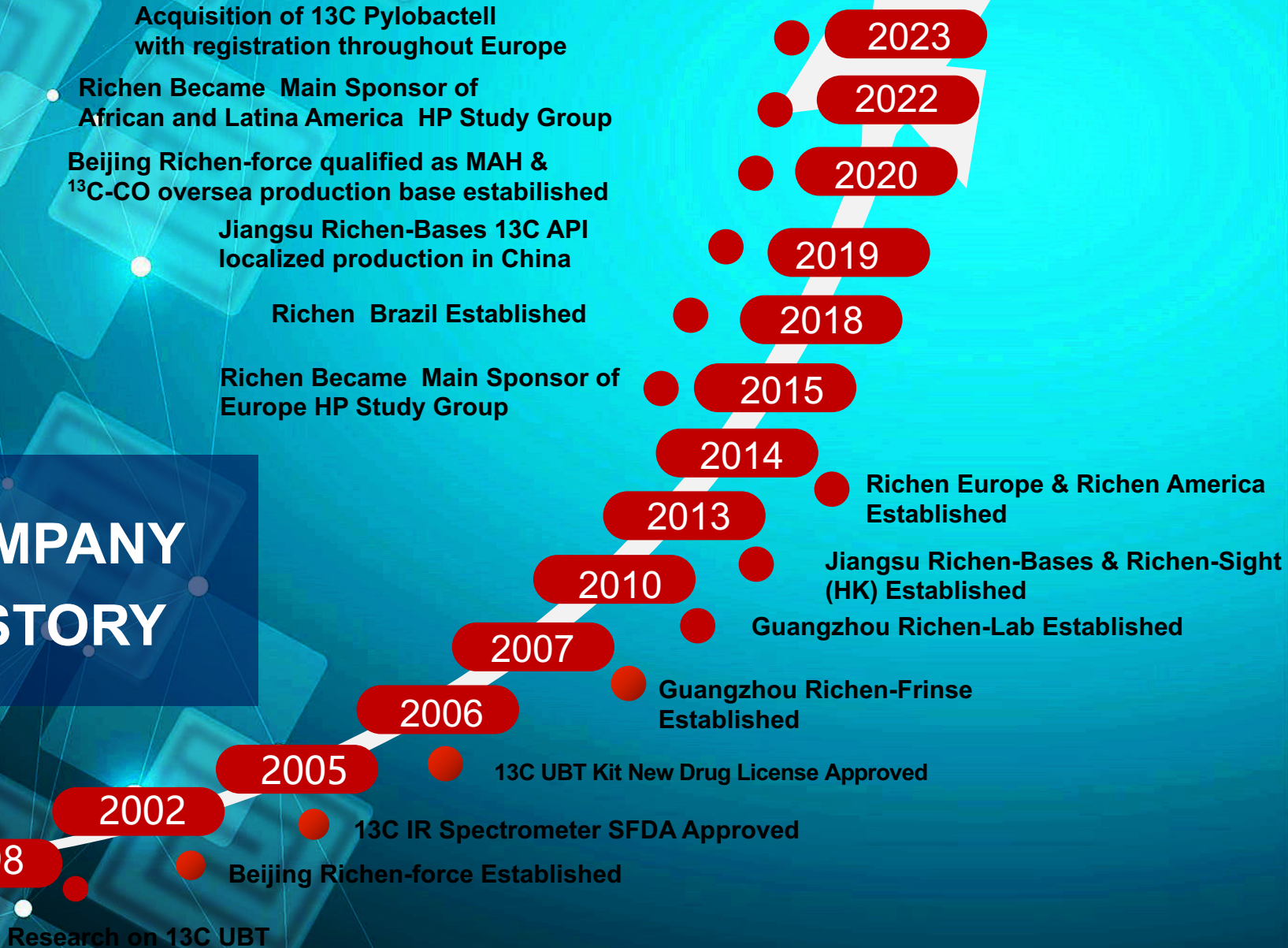




our growth  
is the concrete  
sign of our  
success



# COMPANY HISTORY



our goals are  
in line with our essence,  
and we realize our future.





Beijing Richen Lab.



Richen R&D center



Guangzhou Richen Lab.



Beijing Richen-Force  
Headquarter

# PRODUCTION FACTORY



Beijing Boran Pharmaceutical



Guangzhou Richen-Frinse



Jiangsu Richen-Bases

# Manufacturing Lab





our growth  
allowed us to become  
an international group  
with several branches in the world

*moh photography*



**Richen-Sight (HK)**



**Richen Netherland**

**Our  
Subsidiaries**




**Richen Europe**



**Richen Brazil**





this has led us to be a  
company already in  
the future

# New Factory



**13C Urea API plant**




**13C-UBT kit factory**

# Richen $^{13}\text{C}$ -urea production Labs



# our corporate philosophy



in our philosophy ....  
coming together is a beginning,  
staying together is progress,  
working together is success.

- Active Partner of CHMSG (China Helicobacter & Microbiota Study Group)
- Active Partner of EHMSG (European Helicobacter & Microbiota Study Group)
- Active Partner of AHMSG (African Helicobacter & Microbiota Study Group)
- IFCC Member



Audited and Inspected on regular basis:

- by Italian Ministry of Health
- by BSI (Brazil Standards Institution)
- by external Quality Assurance Teams
- by CFDA



2

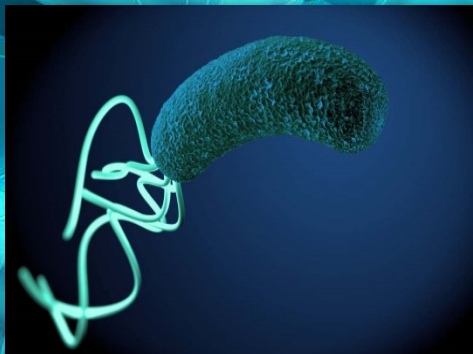
# Richen Portfolio

# Specialized in Diagnosis and Treatment of Digestive Diseases



# $^{13}\text{C}$ Breath Test Line kit

$^{13}\text{C}$ -Urea



Diagnosis of H pylori

$^{13}\text{C}$ -Methacetine



Hepatocyte reserve function test

$^{13}\text{C}$ -octanoic acid



Gastric emptying function test

$^{13}\text{C}$ - mix triglyceride



Pancreatic exocrine function test

# $\text{H}_2$ Breath Test Line kit

Lactose



Lactose intolerance

Glucose



Bacterial overgrowth

Fructose



Fructose intolerance

Sorbitol



Celiac diseases



3

# New release



# Richen Projects

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**RICHEN**  
MEDICAL SCIENCE



### *Lactotracker One H2 Breath test*

The Lactotracker H2 Breath test<sup>102</sup> has been developed to provide quick and reliable diagnosis of gastro-intestinal disorders measuring carbohydrate breakdown deficiencies and/or malabsorption. Particularly efficient for lactose intolerance screening, the Lactotracker 102 also gives good indication of small intestinal bacterial overgrowth and evaluates intestinal transit time. The electrochemical H2 sensor with thermal compensation delivers a reliable, rapid and inexpensive system of measurement.

### *Lactotracker Plus H2 /CO2/CH4 Breath test*



Hydrogen, methane and carbon dioxide breath test monitor

The Lactotracker Plus has been developed to provide quick and reliable diagnosis of gastro-intestinal disorders measuring carbohydrate breakdown deficiencies and/or malabsorption. Particularly efficient for lactose intolerance screening, the Lactotracker Plus also gives good indication of small intestinal bacterial overgrowth (SIBO) and evaluates intestinal transit time. The Lactotracker Plus range is composed of:

Lactotracker Plus (H2 + CO2 + CH4)

The electrochemical sensor with thermal compensation for H2 and infra-red analyzers for CH4 and CO2 deliver an accurate test measurement in less than one minute.

**RICHEN** MEDICAL SCIENCE 4A, Dian Tong Creative Square, No.7 Jiuxianqiao North Street Chaoyang District, Beijing, China



## LACTOTRACKER EX CH<sub>4</sub> BREATH ANALYZER TRACKER (H<sub>2</sub> & CO<sub>2</sub> & CH<sub>4</sub>)

Advanced CH<sub>4</sub> breath test to diagnose Lactulose and SIBO



Application	The LACTOTRACKER EX CH <sub>4</sub> BREATH ANALYZER is applicable to the determination of the concentration of hydrogen, methane and carbon dioxide, the judgment indicators of carbohydrate dyspepsia (lactulose) and intestinal bacterial overgrowth (SIBO).
Advantage	<ol style="list-style-type: none"> <li>1.Fast testing: &lt;90s</li> <li>2.Non-invasive test: collecting sample gas to test, high patient cooperation</li> <li>3.Small size: 400x250x160mm</li> <li>4.Easy to operate: follow steps on the screen, one by one test samples</li> <li>5.Patients' history statistic</li> <li>6.Independent use or connect with PC</li> </ol>
Main Parameters	<ol style="list-style-type: none"> <li>1.Resolution: H<sub>2</sub>, CH<sub>4</sub>: 0.1ppm, CO<sub>2</sub>: 0.01%;</li> <li>2.Accuracy: H<sub>2</sub>, CH<sub>4</sub>, CO<sub>2</sub>: ± 2% (full scale);</li> <li>3.Response time T90: &lt;60s.</li> </ol>

## LACTOTRACKER H<sub>2</sub> BREATH ANALYZER

Intestinal flora breath analysis system



Application	The LACTOTRACKER H <sub>2</sub> BREATH ANALYZER is applicable to the determination of the concentration of hydrogen, the judgment indicators of carbohydrate dyspepsia (lactulose) and intestinal bacterial overgrowth (SIBO)
Advantage	<ol style="list-style-type: none"> <li>1.Fast testing: &lt;90s</li> <li>2.Non-invasive test: collecting sample gas to test, high patient cooperation</li> <li>3.Small size: 400x250x160mm</li> <li>4.Easy to operate: follow steps on the screen, one by one test samples</li> <li>5.Patients' history statistic</li> <li>6.Independent use or connect with PC</li> </ol>
Parameter	<p>Resolution: H<sub>2</sub>: 0.1ppm                  Accuracy: H<sub>2</sub>: ±2%(full scale)                  Response time T90: &lt;60s</p>

## Easy operation:



(1) Connect the nozzle to the 0 air bag, hold breath more than 10 seconds, then blow the 0 air bag full in one breath, do not inhale and breathe



(2) Immediately dissolve 10g of lactulose in 300ml water and drink it (100~200ml for children) Wait for 15 minutes then blow the No.1 air bag and tighten the lid



(3) To blow the other air bag (No.2- 8) and tightened them every 15 minutes within 2 hours, until all air bag finished



(4) Give all air bag to doctor to test SIBO by lactotracker H2 breath analyzer. Within 90 minutes, the concentration of hydrogen rising no less than 20ppm means positive.

## H2 breath sample bags



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**华巨控股**  
RICHEN FORCE HOLDINGS

**Breath Check DUO**  
**the evolution of the species**



**13C/H2-BTF**  
**13C & Hydrogen Breath Analyzer**

# $^{13}\text{C}/\text{H}_2\text{-BTF}$

## 13C & Hydrogen Breath Analyzer



Application	<p>C13 Urea breath test: Helicobacter pylori in stomach were detected by C13 breath test; UBT using infrared spectrophotometer that measures the change of <math>^{13}\text{C}</math> in exhaled <math>\text{CO}_2</math> gas through infrared spectral analysis to determine whether the detector is infected with Helicobacter pylori</p> <p>Hydrogen breath test: for medical units to detect the hydrogen content of human breath. HBT is applicable to the determination of the concentration of hydrogen, the judgment indicators of carbohydrate dyspepsia (lactulose) and intestinal bacterial overgrowth (SIBO).</p>	
Advantage	<p>1.Double function in one device, each side separate testing no disturbance 2.Fast testing: <math>^{13}\text{C}</math>&lt;100s; <math>\text{H}_2</math>&lt;60s 3.Smart size: 433x428x230mm 4.Easy to operation and economical</p>	
Parameter	<p>Precision: <math>^{13}\text{C}</math> <math>\leq 0.25\%</math> Stability: <math>^{13}\text{C}</math> C.V. &lt;3% Analysis time: <math>^{13}\text{C}</math> &lt;100s Accuracy: <math>^{13}\text{C}</math> &lt;15% (QC gas) Measurement sensitivity: <math>^{13}\text{C}</math> <math>\text{CO}_2</math>: 0.5% Measuring range:</p>	<p><math>\text{H}_2</math> &lt; 60s <math>\text{H}_2</math> &lt; 1ppm <math>\text{H}_2</math> 0-500ppm</p>

### Operation:

#### HBT:



(1) Connect the nozzle to the 0 air bag, hold breath more than 10 seconds, then blow the 0 air bag full in one breath, do not inhale and breathe

(2) Immediately dissolve 10g of lactulose in 300ml water and drink it (100-200ml for children) Wait for 15 minutes then blow the No.1 air bag and tighten the lid

(3) To blow the other air bag (No.2- 8) and tightened them every 15 minutes within 2 hours, until all air bag finished

(4) Give all air bag to doctor to test SIBO by lactotracker  $\text{H}_2$  breath analyzer. Within 90 minutes, the concentration of hydrogen rising no less than 20ppm means positive.

#### UBT:



(1) Keep breathing normally, exhale gas into the sample bag (Do not deep breath or breath out intermittently).

(2) Twist on lid, labeled 'Sample 1'.

(3) Mix reagent contained in the plastic container with purified water and drink the solution.

(4) Sit quietly waiting for 30 minutes. No eating or drinking during the time.

(5) Keep breathing normally, exhale gas to the sample bag (Do not deep breath or breath out intermittently). Twist on lid, labeled 'Sample 2'.

(6) Plug 'Sample 1' and 'Sample 2' onto 13C infrared spectrometer.

#### Consumable

##### HBT:



##### UBT:



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# Pylobactell

**<sup>13</sup>C-UREA BREATH TEST**

*100 mg tablet for oral use*

For the **precise** and **fast** in vivo  
detection of *Helicobacter pylori*

 **RICHEN EUROPE S.R.L.**  
COMPANY OF RICHEN GROUP

 **RICHEN EUROPE S.R.L.**  
COMPANY OF RICHEN GROUP

# Pylobactell

**<sup>13</sup>C-UREA BREATH TEST**

**KIT CONTENTS:**

**Active ingredient: <sup>13</sup>C Urea 100mg**

**Tablet for oral solution**

**1 blister of 10 tablets**

**Excipient: anhydrous citric acid**

**F.U. 1.4 g., 1 sachet**

Excipient: anhydrous citric acid  
F.U. 1.4 g., 1 sachet

Keep the medicine out of the  
Reach and out of sight of children

The expiry date refers to  
product in packaging

intact, correctly preserved

Maintain temperature between  
15 °C and 30 °C

Keep the blister and sachet

in original packaging for

protect the medicine

from humidity.

Medicine subject to prescription  
medicine renewed from time to time

 **RICHEN EUROPE S.R.L.**  
COMPANY OF RICHEN GROUP





# Richen R&D: Achievements



Infrared  
Spectrometer  
IR-200p  
Fancy

For Richen Group  
Research and development  
of new projects it was always  
the main engine for his Innovation

 **RICHEN**  
MEDICAL SCIENCE

 SFDA

 TUV  
SUD

 MB

 **华巨控股**  
RICHEN FORCE HOLDINGS

# Global sales network



## Channel Development

- Professional market training
- Diversified academic support

## Academic Promotion

- Build up doctor satellite training events
- Establish clinical training foundation

- Each year Richen provides more than 15 million H.pylori test services to the people, giving great contributions to the prevention & treatment of H. pylori and early screening and prevention of gastric cancer in China.
- Globally, Richen has more than 2000 distributors , over 1000 distributors in China



# ACADEMIC PARTNERS IN CHINA AND ABOARD

Richen is also committed to the academic promotion of H.pylori and the cooperation with academic research institutions. We have maintained good cooperative relations with KOL in the field and important academic institutions in China and outside. We have actively participated in the preparation and formulation of a number of important consensus and guidelines. C13 urea breath test is widely recommended as the gold standard for the diagnosis of Helicobacter pylori

## The main academic partners in China:

- China H.Pylori study group
- Chinese Medical I Association-Endoscopy Division
- Chinese Medical Association-GI Division
- Chinese Medical Association-Physical Examination Division
- China Health Promotion Foundation



## The international academic partners:


- EHMSG (European Helicobacter & Microbiota Study Group)
- AHMSG (African Helicobacter & Microbiota study group)
- Gastroenterology Association of Spain
- Europe Registry



**Reference:**  
quality control of 13C urea breath test

- Malfertheiner P, Megraud F, O'Morain CA, et al. Management of Helicobacter pylori infection-the Maastricht V/Florence consensus report [j]. Gut, 2017,66(1):6-30.DOI:10.1136/gutjnl-2016-312288
- Coelho L, Marinho JR, Genta R, et al. IV th Brazilian Consensus Conference on Helicobacter pylori infection[J]. Arq Gastroenterol,2018,55(2):97-121.DOI:10.1590/s0004-2803.201800000-20
- Malfertheiner P, Megraud F, O'Morain CA, et al. Management of Helicobacter pylori infection-the Maastricht IV/Florence consensus report [j]. Gut, 2012,66(5):646-664.DOI:10.1136/gutjnl-2012-302084





a good growth helps our business to grow revenue and margin by putting the customer first.

### 2nd Open Competition 2022-23

For Research in the field of  
Helicobacter Pylori

For details 

### 3rd open competition 2023-2024

For Research in the field of  
Helicobacter Pylori

For details 



## 3rd RICHEN GROUP OPEN COMPETITION

RICHEN EUROPE is the European operating branch of the RICHEN GROUP, a major international group of medical device manufacturers with a global commitment. The company specializes in developing the best solutions for patients in the field of gastroenterology. Over the years our R&D department has excelled in the design and development of high-performance safe equipment and reagents for the diagnosis of Helicobacter pylori infection.

Click on the banner above to read more about the  
3rd Open Competition 2023-2024 for research in the field of *Helicobacter pylori*

## 1st RICHEN GROUP OPEN COMPETITION

On behalf of The Richen Group, in collaboration with the EHMSG Members, we are glad to announce that 2 projects have been selected for the research development phase of the Richen Open Competition for research in the field of Helicobacter pylori 2021-2022:

1) Study on the detection of H. pylori with a 13C urea breath test after bariatric surgery: from an undetectable pathogen to a treatable diagnosis.

By: Philip Plaëke, Annemieke Smet

From: Antwerp University Hospital, Antwerp, Belgium

2) The predictor role of Urea Breath testing in Italian and Chinese subjects with presumptive HelicobacterPylori infection with or without previous COVID-19 infection

By: Leonilde Bonfrate, Piero Portincasa

From: Clinica Medica "A. Murri", University of Bari, Italy

The findings of these research projects will be made available during the next year's workshop in Glasgow, United Kingdom, where a final winner's selection will take place.



The Richen group believes in the future and in the young generations, certain that together with all medical professionals we will be able to make the precious good of health concrete.

because we have a  
professional team



full of skills  
and love for our work



**RICHEN**  
MEDICAL SCIENCE

European  
Helicobacter &  
Microbiota  
Study  
Group

The Richen Group thanks the European Group and its representatives for the great support provided and for having actively contributed to the creation of the African Group to which we wish great success in improving the living conditions of the African people.

African  
Helicobacter &  
Microbiota  
Study  
Group

SFDA

TUV  
SUD

MB

华巨控股  
RICHEN FORCE HOLDINGS



# Thank you



Dr. Attilio Citrino  
Global Marketing Director



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