检验因我而先进

发展生物科技 造福人类健康

Develop biotechnology Benefit human health

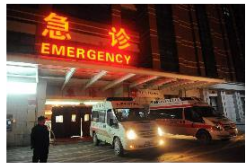
发展生物科技，造福人类健康

公司简介

大型综合医疗机构

基层医疗机构

医院门诊



医院急诊

中心实验室

临床诊断

生物反恐

食品安全

疾控应急

药物滥用

公共安全

发展生物科技，造福人类健康

- **主营业务**：研发、生产、销售体外诊断试剂及仪器的生物高新技术企业。

  Main business: R & D, production, and sales of in vitro diagnostic reagents and instruments of biological high-tech enterprises.

- **创立**：公司成立于2005年6月；

  was founded in June, 2005.

- **地点**：中国 · 北京 Place: **Beijing, China**

- **员工数量**：600余人 More than 600 employe

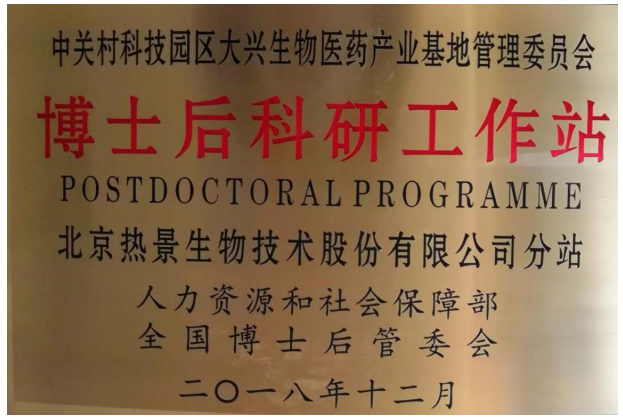
- **使命**：发展生物科技，造福人类健康；

  Mission: Develop biotechnology, Benefit human health

- **理念**：检验因我而先进；

  Idea: Advanced diagnostic attributes to our efforts;

部分荣誉Part of Honors(not all)



发展生物科技，造福人类健康

上转发光技术Up-converting Phosphor technology

01

IVD领域国际上率先产业化
The first international industrialization in the field of IVD

02

国家、北京市、行业的众多奖项认可
Many awards recognized by the country, Beijing, and industry

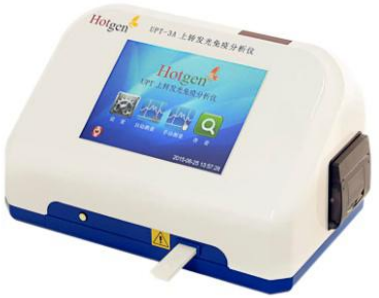
03

体外诊断产品超过60项
More than 60 in vitro diagnostic products

04

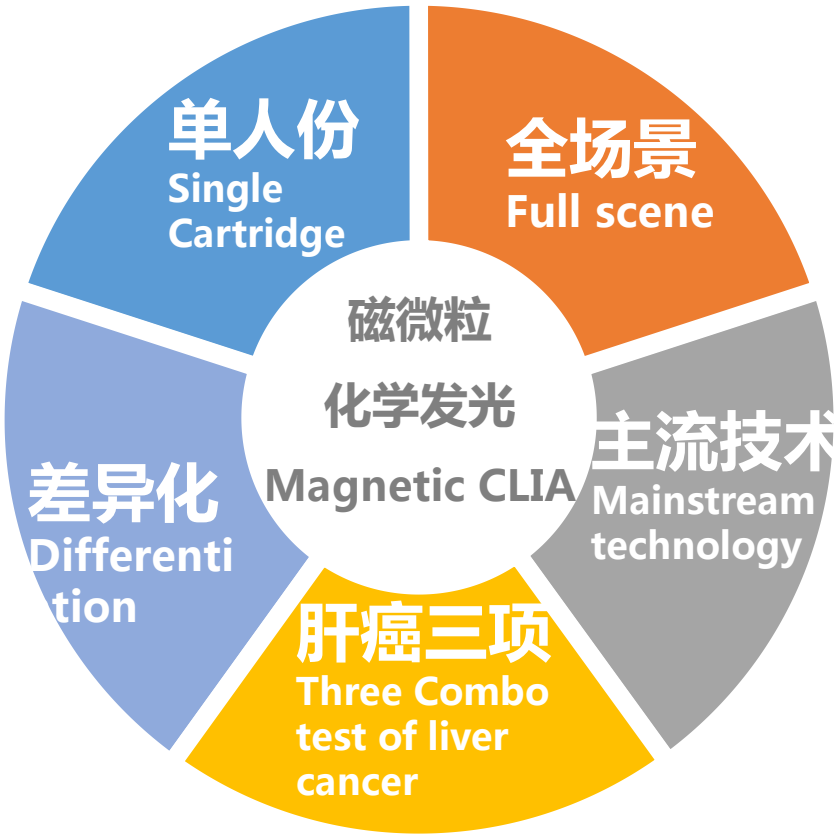
生物应急与临床POCT北京市重点实验室
Beijing Key Laboratory of Biological Emergency and Clinical POCT

手持型上转发光免疫分析仪
发展生物科技，造福人类健康（正在注册）



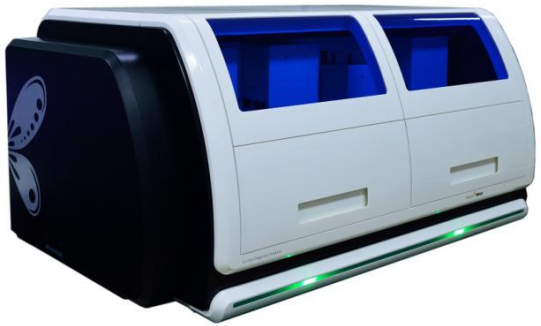
上转发光（UPT）平台
（UPT-3A系列）

磁微粒化学发光技术 Magnetic particle chemiluminescence Technology



CLIA: short name of **chemiluminescence Immunoassay**

小型化学发光平台
Small CLIA
（MQ60）



大型化学发光平台
Big CLIA（MQ60 plus）

中型化学发光平台
Medium CLIA
（MQ60pro，正在注册）

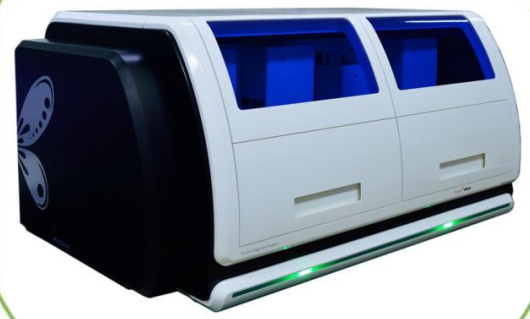
大型全自动化学发光免疫分析系统
Large Fully Automatic CLIA
（C2000）

发展生物科技，造福人类健康

免疫诊断全场景技术平台Immune diagnostic full-scene technology platform

上转发光（UPT）平台
POCT（UPT-3A）

手持Handhold UPT
（正在注册）



高通量化学发光平台
High throughput（MQ60plus）

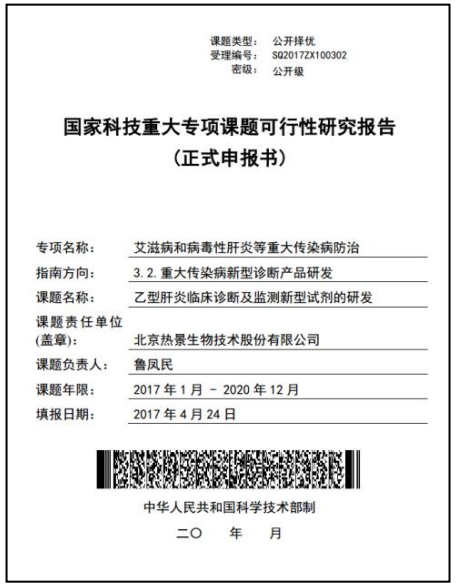
小型化学发光平台
small CLIA
（MQ60）

中型化学发光平台
Medium CLIA
（MQ60pro，正在注册）

大型全自动化学发光平台
Large fully automatic CLIA
（C2000）

发展生物科技，造福人类健康

中国“十三五”国家科技重大专项课题China's "13th Five-Year Plan" National Science and Technology Major Project



课题类型： 公开择优
受理编号： S02017ZX100302
密级： 公开级

国家科技重大专项课题可行性研究报告
（正式申报书）

专项名称： 艾滋病和病毒性肝炎等重大传染病防治
指南方向： 3.2. 重大传染病新型诊断产品研发
课题名称： 乙型肝炎临床诊断及监测新型试剂的研发
课题责任单位（盖章）： 北京热景生物技术股份有限公司
课题负责人： 鲁凤民
课题年限： 2017 年 1 月 - 2020 年 12 月
填报日期： 2017 年 4 月 24 日

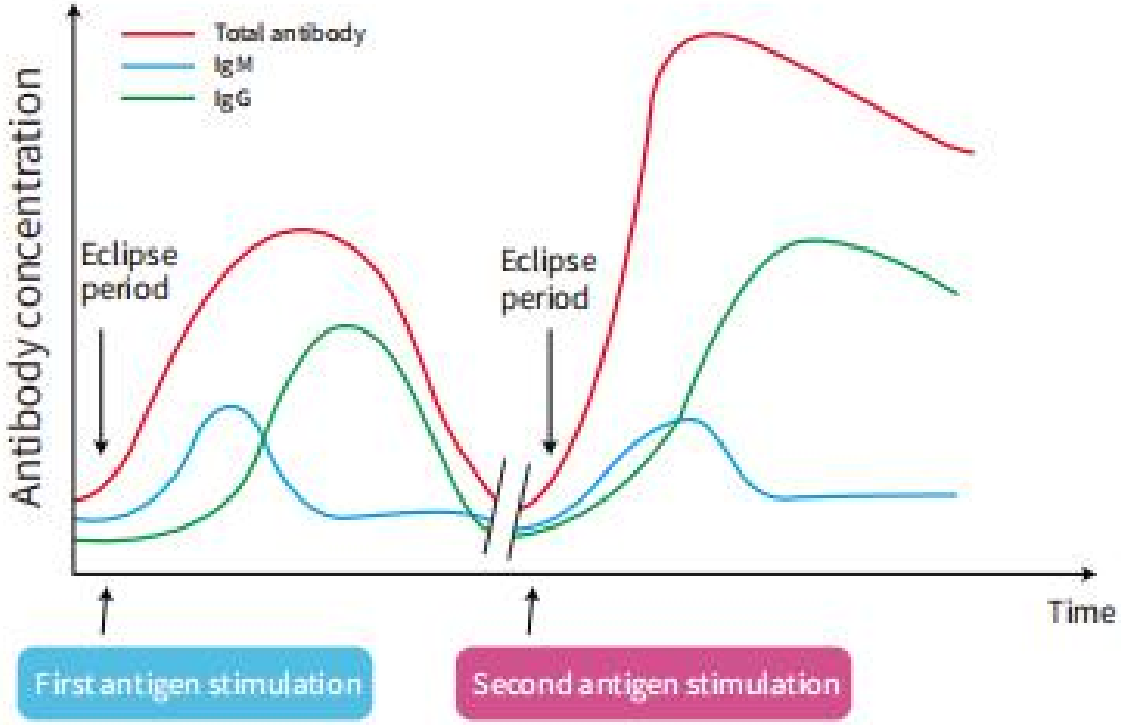
中华人民共和国科学技术部制
二〇 年 月

- 公司作为牵头单位与北京大学基础医学院合作，联合26家单位共同申请十三五国家科技重大专项；As the leading unit, the company cooperated with the College of Basic Medical Sciences of Peking University, and jointly applied for 26 major units to apply for the 13th Five-Year National Science and Technology Major Project;
- 课题名称：“艾滋病和病毒性肝炎等重大传染病防治，3.2. 重大传染病新型诊断产品研发：乙型肝炎临床诊断及监测新型试剂的研发”；
- Project title: "Prevention and Control of Major Infectious Diseases such as AIDS and Viral Hepatitis, 3.2. Development of New Diagnostic Products for Major Infectious Diseases: Development of New Reagents for Clinical Diagnosis and Monitoring of Hepatitis B";

发展生物科技，造福人类健康

序号No.	名称Product name	方法学Method	操作时间Test time	标本类型 Sample Type
1	新型冠状病毒（2019nCoV）抗体检测试剂盒（胶体金法---双抗原免疫夹心法） Coronavirus disease(COVID-19) IgM/IgG Antibody Rapid Test (Colloidal Gold)	双抗原免疫夹心法 Colloidal Gold----Double antigen sandwich method	15min	血清、血浆、全血 Serum, plasma, whole blood
2	新型冠状病毒（2019nCoV）IgM抗体检测试剂盒（胶体金法） Coronavirus disease(COVID-19) IgMAntibody Rapid Test (Colloidal Gold)	胶体金Colloidal Gold	15min	血清、血浆、全血 Serum, plasma, whole blood
3	新型冠状病毒（2019nCoV）抗体检测试剂盒（上转发光法-双抗原免疫夹心法） Coronavirus disease(COVID-19) IgM/IgG Antibody Rapid Test (Colloidal Gold)	双抗原免疫夹心法 Colloidal Gold----Double antigen sandwich method	15min	血清、血浆、全血 Serum, plasma, whole blood
4	新型冠状病毒（2019nCoV）抗体抗体检测试剂盒（酶联免疫法） Coronavirus disease(COVID-19) IgM/IgG Antibody Test(Enzyme-Linked Immunosorbent Assay)	ELISA	1h	血清、血浆Serum, plasma
5	新型冠状病毒（2019-nCoV）核酸测定试剂盒（PCR-荧光探针法） Coronavirus disease(COVID-19) Nucleic Acid Test Kit(PCR-Fluorescent Probe Method)	荧光PCR PCR-Fluorescent Probe Method	2h	鼻拭子、咽拭子、肺泡灌洗液Nasal swab, throat swab, alveolar lavage fluid

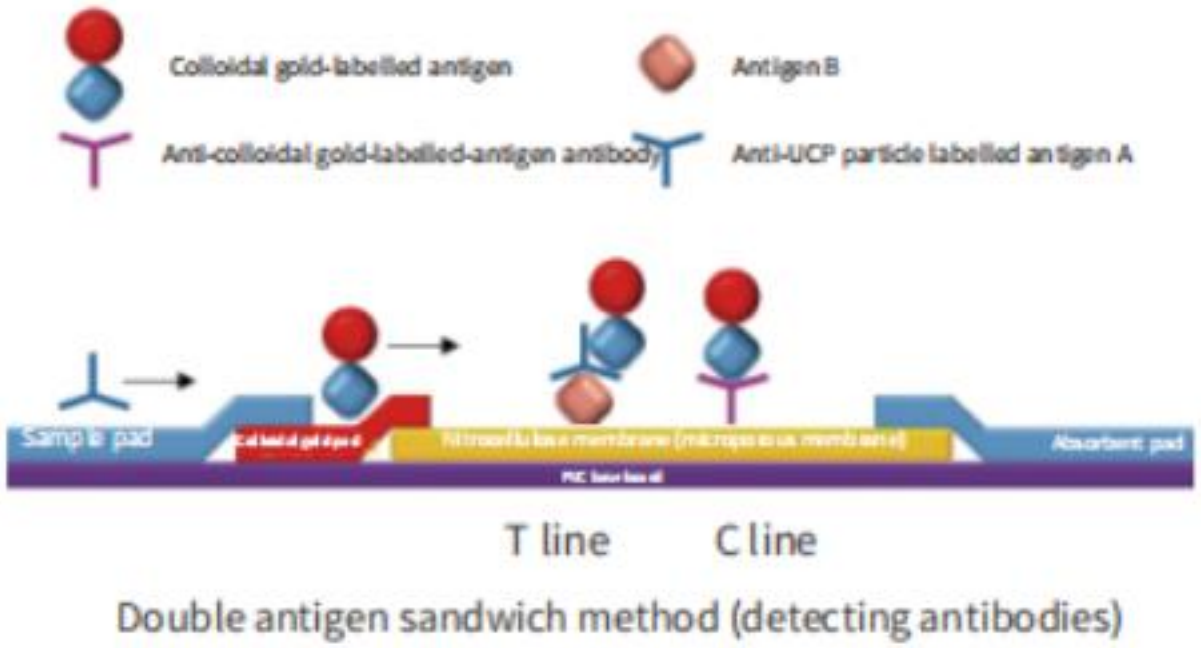
The significance of total antibody testing



Total antibody detection shortens the detection window period

Total antibody contains both IgM and IgG antibodies, reducing the impact of the single detection(IgM or IgG) window period, can greatly increase the detection rate and reduce missed detection.

Principle of COVID-19 Total Ab Test---Double Antigen Sanwich Method



Double antigen sandwich method (detecting antibodies)

Features:

(1) Simultaneous detection of total antibodies, including IgM and IgG.
(2)Simultaneous detection of total antibodies can reduce the impact of a single detection window period.
(3)The double-antigen sandwich method makes the detection more specific.
(4) The increased sample volume can greatly increase the detection.

Sensitivity and Specificity of COVID-19 Diagnostics

Product	Sensitivity	Specificity
Coronavirus disease(COVID-19) IgM/IgG Antibody Rapid Test (Colloidal Gold)	**96.60%(227/235)**	**99.30%(713/718)**
Coronavirus disease(COVID-19) IgM/IgG Antibody Test(Up-converting Phosphor Technology)	94.44%(153/162)	99.31%(144/145)
The clinical validation data of Coronavirus disease(COVID-19) IgM/IgG Antibody Rapid Test (Colloidal Gold) are from from the Third Medical Center of PLA General Hospital, the Fifth Medical Center of PLA General Hospital, the Academy of Military Medical Sciences, the Sixth People's Hospital of Shenyang City, Ezhou Third Hospital, and Yichang Central Hospital. The clinical validation data of Coronavirus disease(COVID-19) IgM/IgG Antibody Test(Up-converting Phosphor Technology) are from Beijing CDC, Hainan Hospital Of PLA General Hospital, Wuhan Fire Gold Mountain Hospital, the Sixth People's Hospital of Shenyang, Ezhou Third Hospital		

发展生物科技，造福人类健康

Features Of Coronavirus disease(COVID-19)
IgM/IgG Antibody Rapid Test (Colloidal Gold)

(1)Test samples: whole bloood, serum, plasma;
(2)Total antibody detection using the double antigen sandwich method, which greatly improves sensitivity and specificity;
(3) Total antibody detection shortens the detection window period
(4) Rapidly screen for novel coronavirus within 15 minutes;
(5) No need instrument, suitable for on-site screening;
(6) Reduce the risk of individual infection in the hospital;
(7) Early diagnosis, early treatment, shorten the course of the disease;
(8) Reduce the workload of the designated hospitals.

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Features Of Coronavirus disease(COVID-19) IgM/IgG Antibody Rapid Test (Up-converting Phosphor Technology)

(1) **Luminescence method,** using double antigen sandwich method, good specificity and high sensitivity;
(2)Single test card, ready to use, no waste;
(3)Quickly get the Coronavirus antibody value results in 15min;
(4)Simultaneous detection of Coronavirus antibodies (including IgM and IgG),shortening the diagnostic window period;
(5)High detection sensitivity: no background interference, greatly improving the detection rate;
(6)Stable luminescence, no attenuation: UCP material will not appear fluorescence fading;
(7)Suitable for multi-sample testing: **whole blood, serum,plasma;**
(8)High throughput: > 100T/h;
(9)Transportation and Storage: without cold chain, normal temperature storage;
(10)**Recommended by China Medical Equipment Association;**
(11)Won the **China National Technology Invention Award.**

发展生物科技，造福人类健康

共克时艰，积极捐赠支持抗“疫”Overcome the difficulties and actively donate to support the "epidemic"

Donate for Wuhan Fire Gold Mountain Hospital

北京协和医学基金会
PEKING UNION MEDICAL FOUNDATION

感谢状

热景生物技术股份有限公司：

感谢您对抗击新型冠状病毒肺炎疫情工作给予的倾力相助和爱心奉献！大爱汇聚、共克时艰，您的支援与帮助，为战胜疫情传递了信心，增添了力量，向您致以崇高的敬意。

北京协和医学基金会

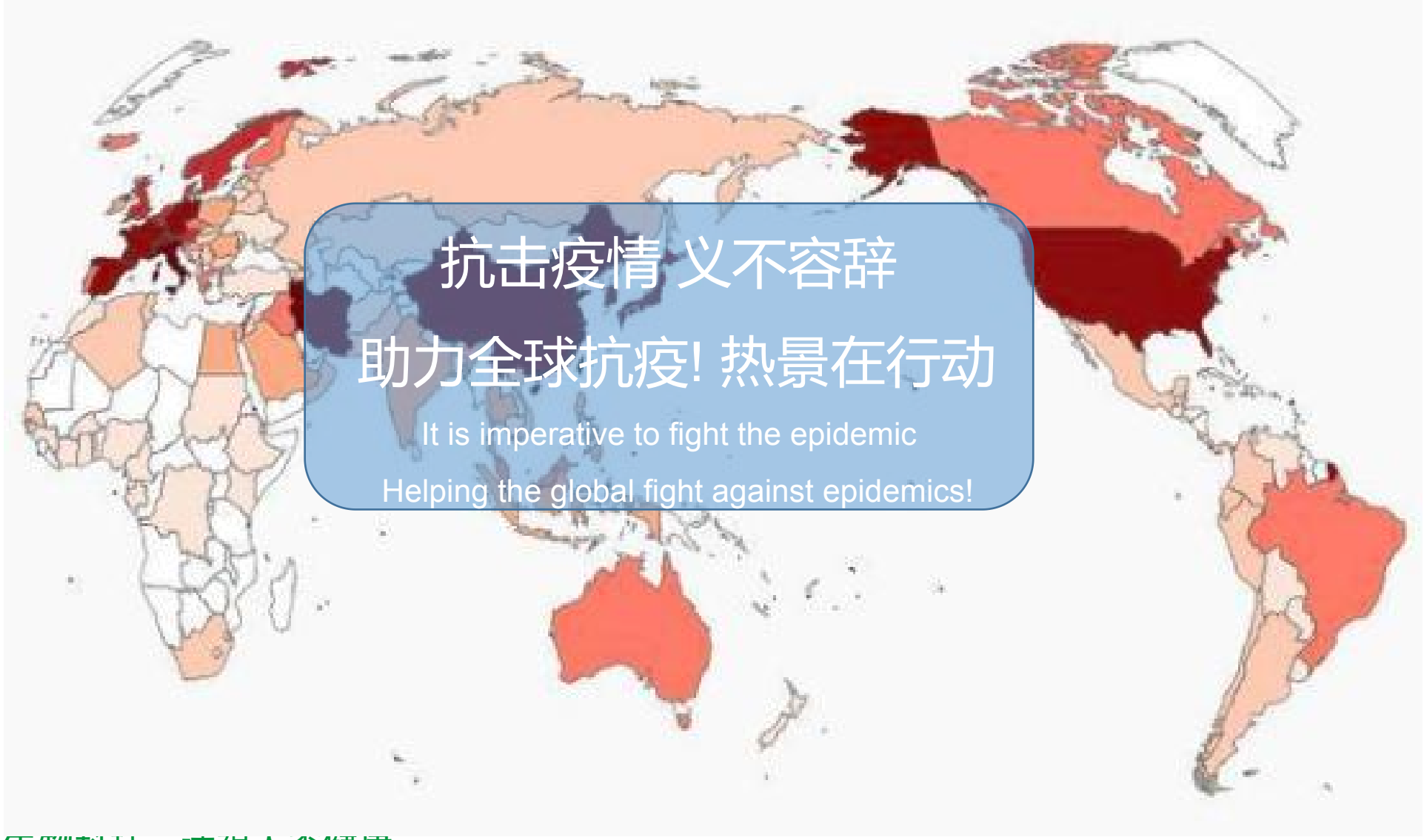
二零二零年二月

北京协和医院
Thanks certificate from Beijing Union Medical College Hospital

the Sixth People's Hospital of Shenyang City

发展生物科技，造福人类健康

践行社会责任，助力全球抗击疫情Practice social responsibility to help fighting the epidemic globally



发展生物科技，造福人类健康

We are a world!

同一个世界，同一个梦想。中国离不开世界，世界也更离不开中国，我们需要更多地互相理解，也需要更多地互相支持。让我们携手共同努力，一起抗击疫情。

One World, One Dream. China cannot do without the world, and the world cannot do without China. We need to understand each other more and support each other more. Let us work together to fight the epidemic.

发展生物科技，造福人类健康

THANKS

感谢您的观看

发展生物科技，造福人类健康