



中科紫鑫
Zhongkezixin Technology Co., Ltd.



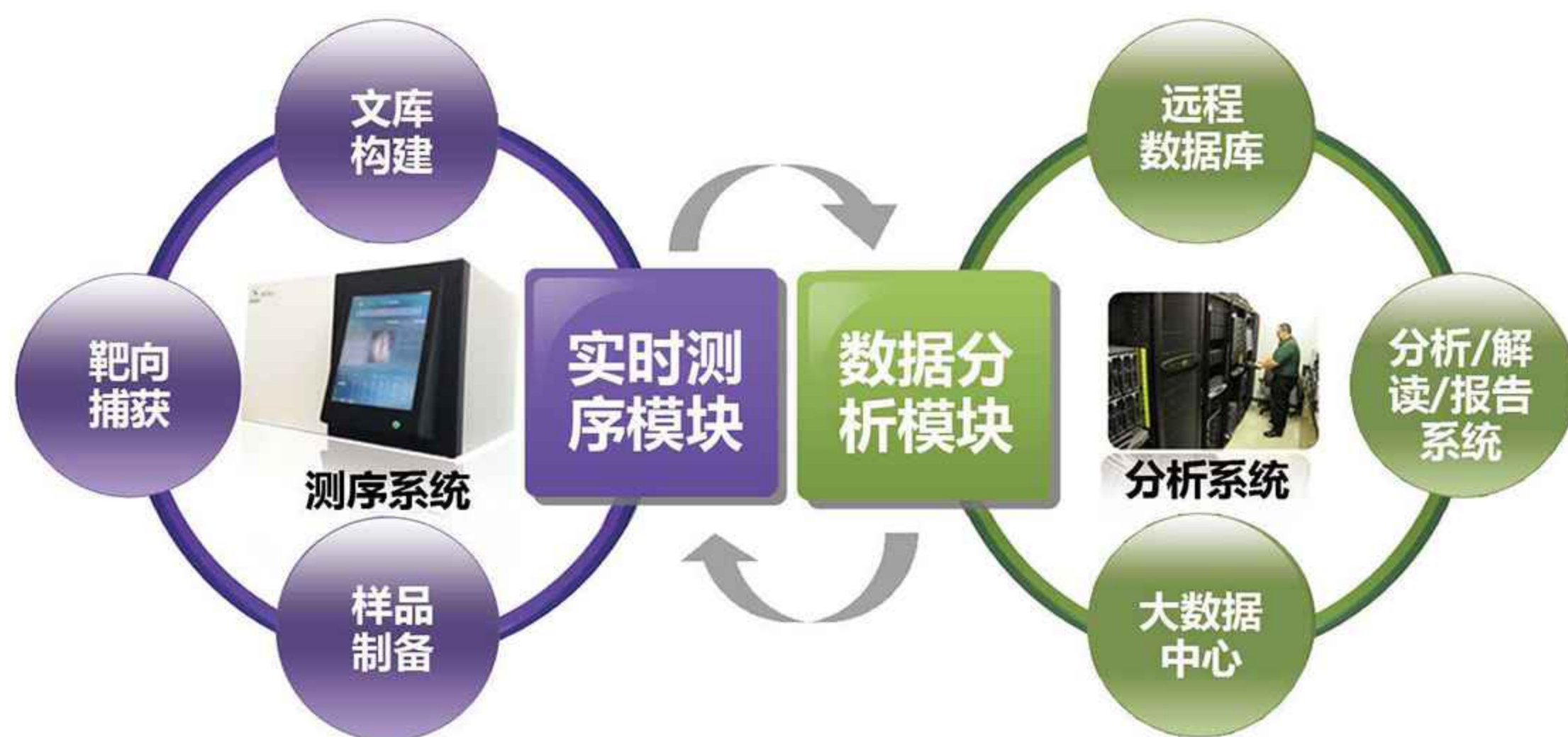
做中国人自己的测序仪

中国自主研发新一代基因测序仪全新亮相



2014年4月18日，具有自主知识产权的国产第二代基因测序仪BIGIS产品样机正式发布，本系统由中国科学院与紫鑫药业共同组建的中科紫鑫科技有限公司研发，目前已经完成整机测试，成功解决“读长较短”的关键技术难题，达到并部分超越国际主流设备技术指标。

BIGIS基因测序仪由中科院基因组所和半导体所共同参与研发，是整合了一系列机电控制、微流体、光学和软件控制系统的高度集成的新一代测序平台。在保证整机最高性能的同时，也控制了仪器外形尺寸，测序平台采用触摸屏直接操作，所需空间与一台普通电脑台式机相仿，可很方便的部署在中小型实验室。



BIGIS基因测序仪只是整套核酸序列综合检测分析系统的一部分，除了部署在终端实验室的样品制备、文库构建和序列测定的检测系统之外，还通过云计算中心的形式，为用户提供后续的远程数据分析、解读和存储功能。通过测序终端和远程数据分析系统的有机集成，实现了测序和数据分析的闭环整合，解决了客户对于新一代测序数据分析的后顾之忧、增加了测序的易操作性和数据的安全性。

卓越的测序性能，广泛的应用领域

系统性能：

- 测序读长：100~1000bp
- 测序通量：5~400Mb
- 准确性：99.995%

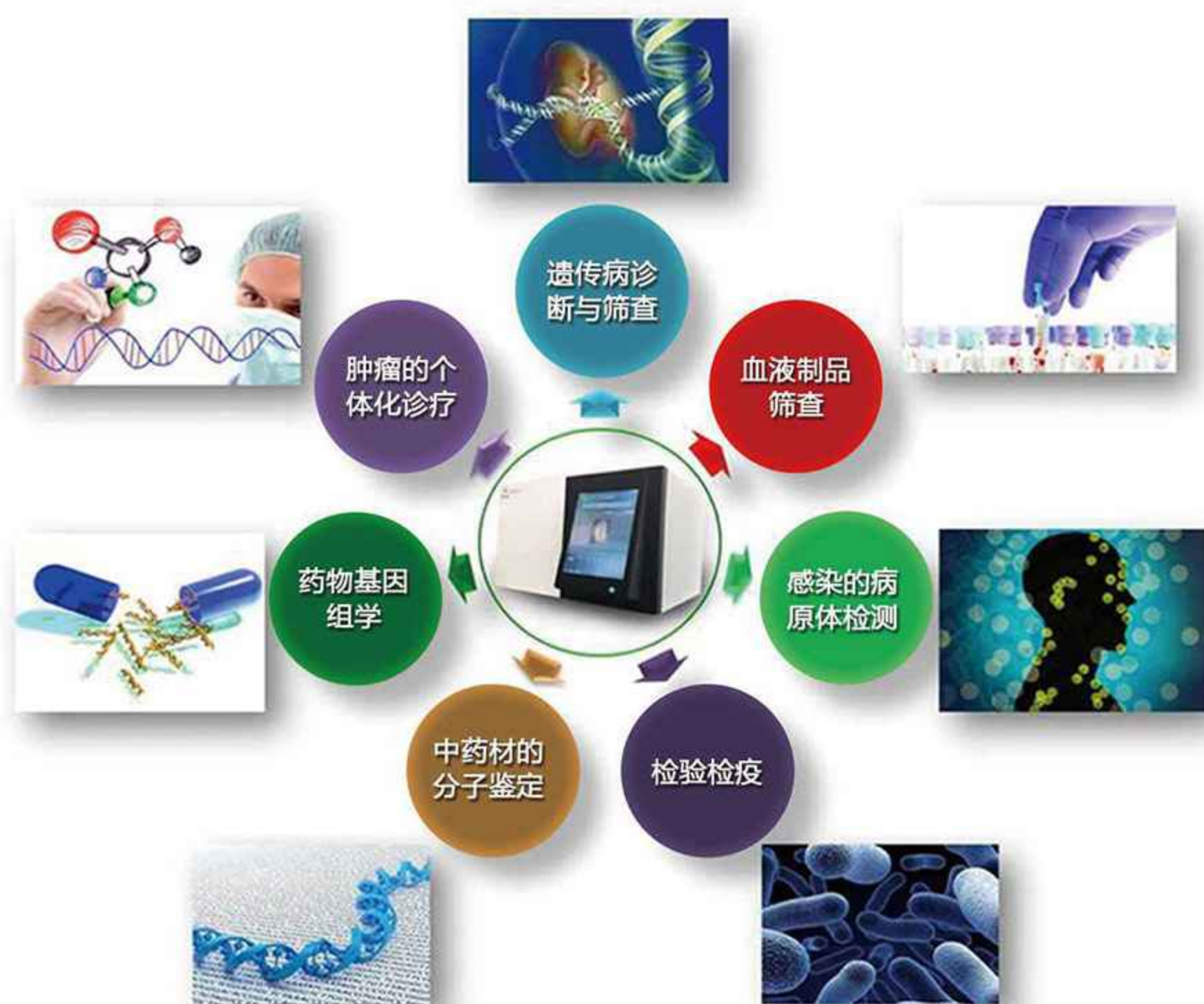
可提供全套测序解决方案：

- 全基因组测序：尤其是细菌、病毒等微生物基因组
- 外显子组测序
- 靶向区域重测序
- 宏基因组研究
- 转录组测序
- 数字表达谱分析
- microRNA分析
- DNA甲基化分析
-



本系统以极具竞争力的技术和价格优势，可广泛应用于多种健康与疾病相关领域：

- 感染性疾病的病因鉴定与基因诊断
- 遗传病基因诊断与筛查
- 肿瘤与血液病的基因检测与个体化诊疗
- 药物基因组学
- 个人基因组
- 血液制品筛查
- 检验检疫
- 中药材分子鉴定
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Novel next generation sequencing system developed by China launched

Zhongke Zixin Technology Co., Ltd. is a high-tech biotechnology company developing and commercializing the genetic analytical instruments, products and services, which is jointly built by Chinese Academy of Sciences and Jilin Zixin Pharmaceutical Industrial Co., Ltd. The research and development of the second-generation DNA sequencing system with good properties and independent intellectual property rights has been completed. The key technical problems, "short read length", has been successfully resolved. The equipment specifications have met and partially exceed the international mainstream product. The product prototype has been officially released in Changchun on April 18, 2014.

The major advantages of this high-throughput DNA sequencing system include the long, highly accurate sequence reads, the flexible sample scalability and lower cost for either instruments or reagents. The comprehensive line of products and applications include *de novo* sequencing and resequencing of whole genomes, exome sequencing, targeted resequencing of genomic regions, metagenomics, pan-genomics, microRNA analysis, gene expression profiling and transcriptome analysis.

The upcoming sequencing system can be widely used in genomic medicine and multiple other public health related fields, such as identification and gene testing of infectious diseases, genetic diagnosis or prenatal screening for genetic diseases, personalized medicine for cancer and hematologic malignancies, pharmacogenomics, screening of blood products, gene testing for food safety and port inspection and quarantine, etc.

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