



Better Food. Better Health. Better World.

梅里埃营养科学 (中国)

Mérieux NutriSciences China

Hotline: 400-645-8088

E-mail: sales.china@mxns.cn

www.merieuxnutrisciences.com.cn



用菌株鉴定和全基因组测序追溯调查产品安全

Microbial Identification and WGS for Food Safety and



来源是预防食品(产品)加工过程污染的关键。

您提供细菌/真菌形态学溯源信息,种属名称用以帮助您理解和确定接下来需要采取的难度难以捉摸的微生物污染带来的经济损失,有助于减少昂贵的污染的发生概率。我们采用Vitek2C以及种属保守基因测序的方法 (16S / ITS) 来识别有害或污染的细菌及真菌。

氏菌的血清型鉴定) 可以用来帮助您确定和追踪工厂的问题区域,从原料、工厂环境、菌株利用血清学进行鉴定,获得沙门氏菌分离菌株的血清型。

以帮助您:

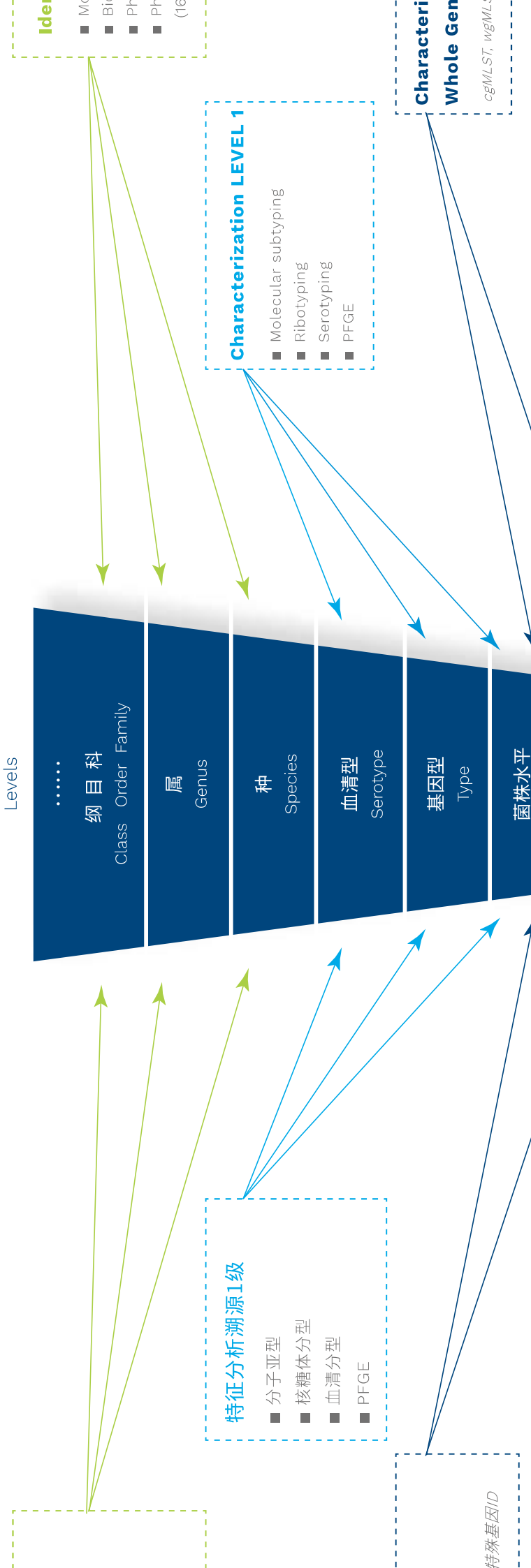
进行微生物的种类比较
染微生物的差别
存在或定殖位点
助问题调查解决

Identifying potential sources of microbial contamination is key in preventing
tion in food processing.
Our microbial identification services will provide you with an organism n
information which can aid you in understanding the next steps you need to
We use Vitek2C, 16S / ITS gene sequencing to identify pathogens or spoilage
you offset economic losses by highly elusive food organisms and help decr
contamination.

Your benefits:

- Compare strains from different plant locations
- Compare environmental isolates or isolates from ingredients to finished pro
- Identify microbial niches
- Establish Database of contamination microorganisms, which will be benefit f
ble-shooting of polluted finished products.

分类地位



生物爆发的全球性微生物全基因组解决方案

测的**一场革命**，世界卫生组织鼓励所有国家使用这种技术。它已经被许多官方机构采用，(管理局)和欧盟的ECDC (欧洲疾病预防和控制中心)，我国首个基于全基因组测序技术(中国国家食品安全风险评估中心(CFSA) 2019年建成并投入使用。

业领域的应用：**WGS (全基因组测序) 可帮助食品企业了解致病菌发生食品污染的源头，安全危机。**在食品工厂中建立有效的**环境监测计划**并能进行溯源是其中的关键。

什么优势？

(G)，就是指确定某一个微生物菌株的**基因组完整DNA序列**的过程。

是唯一能够在克隆 (菌株) 水平上鉴定细菌的技术

最高精度的方法

反复污染相同菌株情况

生产环境样品中的不同菌株

高的价值

内部菌株库

染问题

取快速行动 (在多组分原料，污染热司的关键确凿的联系)

染来源减少经济损失

和生产流程

机

GLOBAL microbiological GENOMIC SOLUTION FOR SEQUENCING t investigating foodborne outbreaks

Whole Genome Sequencing is a **revolution for public health surveillance**. The is encouraging all countries to use this high-throughput technology. It has already our official agencies such as the FDA (Food and Drug Administration) in the United pean Centre for Disease Prevention and Control) in the European Union and China molecular traceability network based on whole-genome sequencing technology

This technology is now also available for various industry applications: WGS helps **understand the origin of occasional or recurring food contaminations** by **prevent potential future food crisis**. It is a key to set up an efficient Environment in food factories.

WHAT IS WHOLE GENOME SEQUENCING ? WHAT ADVANTAGES COME METHODS?

Also known as WGS or full / complete / entire genome sequencing is the **pr complete DNA sequence of an organism's genome at a single time**.

- ✓ The only technology able to identify a bacteria at clone level
- ✓ The gold standard method for source-tracking, applicable in case a recurring
- ✓ The best-in-class tool for a comprehensive overview of a strain from a food or prod
- ✓ **WGS brings the highest value for invested time and cost**

WGS APPL



BUILD A COMPLETE INTER



OVERCOME RECURRING



IDENTIFY THE ORIGIN OF
RAPID ACTION (ingredient
gradient food, contaminat
illnesses and processing fa



REDUCE ECONOMIC D
WRONGLY SUSPECTED SOU



IMPROVE CLEANING & PP
ON THE LONG RUN



PREVENT ORIGIN

A complete service for worldwide applications

- Mériëux NutriSciences worldwide network of laboratory allows easy collection of food samples, food products, strains from your internal laboratory...) and transfer of results to your internal laboratory. Science Center laboratories where they will benefit from a high biomolecular analysis.

Expert laboratories

- Microbiology and biomolecular technologies are one of the main focuses of our expert laboratories based in France, Italy, US and China. The laboratories integrate technologies, DNA sequencing (Next Generation Sequencing (NGS) for strains identification, Genome Sequencing (WGS), Meta barcoding,...), bioinformatic treatment and sequencing service are fully in line with ISO 17025 standards and expert professional support.

Expert support

- Our expert network from Food Science Center experts laboratories (Food Science Center, Food Science Center, Food Science Center...) supports your program consulting expert, biomolecular experts, bioinformaticians...) support your program from the study design to the final report and recommendations.

A close cooperation between these high-skilled experts allow Mériëux NutriSciences a solution that perfectly fit your needs. Targeted recommendations bring valuable results for practical applications and food quality enhancement.

实验室网络都可以收集样品 (环境涂抹, 食品产品, 实验室内部的菌株) 并转移给我们食品实验室, 以便我们能够得到**全球网络的分子生物学和生物信息学专家**的专家支持。

在中国, 微生物和分子生物学技术是食品科学中心专业实验室的重点研究和应用方向。通过IA提取技术和下一代测序 (NGS) 技术, 通过生物信息学处理用于菌株鉴定并获得菌株的序列, 测序服务全程的质量标准和控制符合ISO 17025标准和全球专家的建议。

我们拥有食品科学家, 环境监测专家, 生物分子专家, 生物信息学家等) 全球专家网络可为您提供**从报告出具提供针对性建议和专业的支持。**

我们的专家之间的紧密合作, 使梅里埃营养科学能够构建完全针对您的需求和提供科学支持。我们让复杂的测序结果能帮助您在实际的具体工业应用和食品质量的加强上提供有目共睹的价值。

