



# Aquaculture Services

## 水产养殖服务

- Fast track to solving for fish sterility and shrimp disease prevention
- Sufficiently broad and flexible to find solutions for the industry's major challenges
- Working on a reliable, reversible, robust solution using gene knock-out, pharmaceutical treatment of fish eggs, or both
- Focus on reproducibility and commercial application, making results to be useful to the industry
- Offering fish health, nutrition, genotyping/ genomics, breeding, genome engineering, regulatory compliance solutions
- Experience with most key species in fish and crustaceans
- Know-how in disease challenge models and custom feeds as well as genetic applications
- Team of 30+ scientists with comprehensive entrepreneurial approach
- 快速解决鱼类不育和虾病防治
- 广泛和灵活性地为行家面临的主要挑战找到解决方案
- 使用基因敲除技术、鱼卵药物治疗或两者兼施，提供可逆性及强大的解决方案
- 专注于重现性和商业应用，对业者产生良好效益
- 提供鱼类健康、营养、基因分型/基因组学、育种、基因组工程、监管合规的解决方案
- 拥有在鱼类和甲壳类动物相关的经验、疾病模型和定制饲料以及基因应用方面的专有技术
- 30多名科学家团队、具有全面的创业精神及育种与基因组学专长



## Breeding & Genomics 育种与基因组学

- Breeding program design and support
- Bioinformatics and analysis
- Functional genomics
- Marker discovery
- 育种计划设计与支援
- 生物信息学与分析
- 功能基因组学
- 标记开发

## Molecular biology 分子生物学

- Genome engineering
- Gene knockouts
- Design strategy
- Custom DNA vectors
- Line development, characterization and maintenance
- Regulatory compliance
- 基因组工程
- 基因敲除技术
- 设计策略
- 定制DNA载体
- 线路开发, 分析和维护
- 监管合规

## Fish Feeding & Nutrition 鱼饲养与营养

- Nutrient requirement & digestibility studies
- Shadow pricing & mathematical modelling
- Aquafeed & feedstuff evaluations
- Freshwater & marine species
- Cold & warm water species
- Function of feeds
- 营养需求和消化率研究
- 影子定价和数学建模
- 水产饲料和饲料评估
- 淡水和海洋物种
- 冷热水物种
- 鉴定饲料功能

## Fish Health 鱼类健康

- Trials to GLP/GCP specifications
- Established and custom trial design
- *In vitro* and *in vivo* safety, efficacy and trait association studies
- Biosafety level 3
- Freshwater & marine species
- Cold & warm water species
- GLP / GCP试验规范
- 建立和定制试用设计
- 体外和体内安全性, 功效和性状相关研究
- 生物安全等级3
- 淡水和海洋物种
- 冷热水物种

## Genotyping 基因分型

### SNP Genotyping

- Parentage assignment in selective breeding programs
- Marker assisted selection for desirable traits
- Genomic selection
- Traceability and food safety
- Population genetics and evolutionary biology

### SNP 基因分型分析

- 选择性育种计划
- 辅助标记筛选所需特征
- 基因组筛选
- 可追溯性和食品安全
- 人口遗传学和进化生物学

### Screening Platforms

- Integrate seamlessly into breeding and genomics programs
- High-throughput workflow
- Flexible and cost effective SNP genotyping
- Pedigree assignment rates typically >99%
- Custom designed to clients needs

### 筛选平台

- 育种和基因组学项目整合
- 高通量工作流程
- 灵活且具有成本效益的SNP基因分型
- 血统分配率 > 99%
- 根据客户需求定制

## Diagnostics 诊断

- Pathogen detection
- Gender testing and other custom assays
- Assessment of genetic diversity
- Parentage assignment and marker screening
- BSL-2 certified containment

- 病原体检测
- 性别测试和其他特定分析
- 遗传多样性评估
- 亲子鉴定和标记筛选
- BSL-2认证

## Speedy Assay Sdn Bhd 586317-W

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