**[461] HY-LABORATORIES LTD. (HYLABS) – LEADING ADVANCED MICROBIOME SERVICES**

**Liora Madar Shapiro1, Ruth Cohen1, Chaim Vechtel1, Hamutal Meiri1, 1 Hy-Laboratories Ltd. (Hylabs)**

**ABSTRACT TEMPLATE for Company Presentations**

**Hy-Laboratories Ltd. (hylabs) – Leading Advanced Microbiome Services**

Established in 1974, hylabs is Israel's leading microbiology and molecular biology company, providing a full range of products, R&D and services to the healthcare, the industrial, and research markets. The company's diverse capabilities drive innovation and rapid solutions to meet the dynamic needs of its growing customer base.

* **Main Service:**

Safety and microbiological services are provided with a full compliance with national and international quality standards to validate sterility, bacterial identification by sequencing and MALDI-TOF-MS, bacterial endotoxin determination, detection of mycoplasma by culture and molecular methods, etc. A complete service package includes Oligo manufacturing, advanced molecular and cell biology applications, Sanger sequencing, and NGS service laboratory

* **Key Strengths:**

The company embarks on leading microbiome services in Israel. Novel devices offer sample collection from water and human specimen, including stool, tubes for sample saving and shipping with DNA stabilizers at room temperature. In-house microbial strains and primer libraries enable identifying the diversified bacterial ecosystem using standard and modified Illumina's 16S procedures. The novel 16SMetaVxTM method (BIRD fund with GENEWIZ, USA) improves the accurate determinations of bacterial diversity and relative presence, also adjusted to the gut microbiome. Gut microbiome diagnostic panel is in a multicenter clinical trial. Shotgun, metagenomics and bioinformatics provide bacterial genes identification for diabetes, obesity, and other pathologies.

Classical microbiology provides Culturomics services for growing the "un-culturable" aerobic and anaerobic bacteria. Safety and stability services are offered to developers of pro-and-pre-biotics and synbiotics.

* **Experience with Israeli Companies::**

The company provides A-to-Z microbiome services to all market sectors (agriculture, food, health, environment, water, etc.) with a computer aided network for service order and sample collection, and rapid answers coupled to the required quality standards.

* **Key Markets:**

Hylabs' major market is local but it expands now to the rest of the Middle East, Europe, USA, China and other countries. Leveraging on its knowledgeable personnel the company offers front edge technologies in cooperation with international companies.