

# **Middle East & Africa Organoids Market Forecast to 2028 – COVID-19 Impact and Regional Analysis – by Type (Stomach, Intestine, Liver, Pancreas, Lung, Brain, Kidney, and Others), Application (Developmental Biology, Disease Pathology of Infectious Disease, Regenerative Medicine, Drug Toxicity & Efficacy Testing, Drug Discovery & Personalized Medicine, and Others), and Source (Pluripotent Stem Cells and Organ-specific Adult Stem Cells)**

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## **Abstracts**

The Middle East & Africa organoids market is expected to grow from US\$ 77.94 million in 2023 to US\$ 176.24 million by 2028. It is estimated to record a CAGR of 17.7% from 2023 to 2028.

Focus on Drug Discovery Activities to Fuel Middle East & Africa Organoids Market During Forecast Period

The growing demand for new and advanced drugs is driving the overall pace of drug discovery and research. An increasing number of clinical trials is expected to drive the demand for advanced medical technologies, including organoid models. Further, organoids in drug discovery are not limited to only cancer; they are also used in other diseases, such as cystic fibrosis, polycystic kidney disease, microcephaly, and infectious diseases of the gut and airway. For instance, organoids can summarize the properties of an organ, such as organ structure and function. Also, organoids can

restore a tissue or organ's original genetic and epigenetic state, making them suitable for gene editing. Various studies have shown positive results of combining CRISPR-Cas9 technology with organoids, which has expanded opportunities for breakthroughs in cystic fibrosis. Despite a few achievements of gene-edited organoids in some animal models, their efficiency is significantly low, and the success rate is not high. Therefore, it is crucial to research and develop a process for gene-edited organoids' safety, long-term stability, and functionality. Moreover, the COVID-19 pandemic triggered the need to develop human lung organoid models. Such innovations are expected to offer significant opportunities for the market growth during the forecast period.

### Middle East & Africa Organoids Market Overview

The organoids market in the Middle East & Africa is segmented into Saudi Arabia, the UAE, South Africa, and the Rest of Middle East & Africa. The market growth is attributed to growing research on cancer and gene mutations, increasing disease modeling, and rising developments by market players offering organoids. Factors such as developing healthcare facilities, organizing conferences and meetings to share key facts associated with stem cell technologies, and increasing partnerships with foreign entities are likely to propel the market growth during the forecast period.

### Middle East & Africa Organoids Market Revenue and Forecast to 2028 (US\$ Million)

### Middle East & Africa Organoids Market Segmentation

The Middle East & Africa organoids market is segmented on the basis of type, application, source, and country.

Based on type, the market is segmented into stomach, intestine, liver, pancreas, lung, brain, kidney, and others. The liver segment registered the largest market share in 2023.

Based on application, the Middle East & Africa organoids market is segmented into developmental biology disease, pathology of infectious disease, regenerative medicine, drug toxicity and efficacy testing, drug discovery and personalized medicine, and others. The developmental biology disease segment held the largest market share in 2023.

Based on source, the Middle East & Africa organoids market is bifurcated into pluripotent stem cells and organ-specific adult stem cells. The pluripotent stem cells

segment held a larger market share in 2023.

Based on country, the Middle East & Africa organoids market is segmented into Saudi Arabia, South Africa, the UAE, and the Rest of Middle East & Africa. The Rest of Middle East & Africa dominated the market share in 2023.

Merck kGaA; PeproTech, Inc.; STEMCELL Technologies Inc; and Thermo Fisher Scientific Inc are the leading companies operating in the organoids market in the Middle East & Africa.

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