

Middle East & Africa Organoids Market Forecast to 2030 - Regional Analysis - by Organ Type (Intestine, Liver, Stomach, Pancreas, Lung, Brain, Kidney, and Others), Application (Development of Biology Disease, Pathology of infectious Disease, Regenerative Medicines, Drug Discovery and Personalized Medicine, Drug Toxicity and Efficacy Testing, and Others), Source (Pluripotent Stem Cell and Organ Specific Adult Stem Cell), and Type (Instruments, Consumables, and Services)

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Abstracts

The Middle East & Africa organoids market is expected to grow from US\$ 66.44 million in 2022 to US\$ 245.34 million by 2030. It is estimated to grow at a CAGR of 17.7% from 2022 to 2030.

Combining Organoid with Organ-On-A-Chip Fuel the Middle East & Africa Organoids Market

Organoid and organ-on-a-chip, which serve as evolving pathological and human physiological relevant in vitro models, have the potential to revolutionize the conventional paradigm of cancer research and produce real clinical benefits. The recent inclination in the collaborative application of organoids with organ-on-a-chip and 3D bioprinting enables the development of sophisticated cancer models to study underlying mechanisms of tumor-stroma interactions, multiorgan tumor metastasis, and cancer-microenvironment interactions. By incorporating multiple organoids into organ-on-a-

chip, organoid-on-a-chip can inherit benefits of both organoid and organ-on-a-chip and provide a valuable tool to study multiorgan tumor metastases and cancer-microenvironment interactions.

In addition, technological advancements will facilitate various applications in biological and biomedical fields for disease modeling and clinical drug screening by combining organoids with organ-on-a-chip. Technological advancements have enabled the development of brain organoids-on-chip, liver organoids-on-chip, intestine organoids-on-chip, and more. Although organoid-on-a-chip is currently a developing field, much scope exists for improvement. Thus, it will also require cooperative efforts from interdisciplinary researchers to reach organoids' full utility in human biomedical studies and lead the market's growth in the coming future.

Middle East & Africa Organoids Market Overview

The Middle East & Africa organoids market is segmented into UAE, South Africa, Saudi Arabia, and the Rest of Middle East & Africa. The regional growth is attributed to growing research on cancer and gene mutations, increasing disease modeling, and 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 further propel the market growth during 2022-2030.

Middle East & Africa Organoids Market Revenue and Forecast to 2030 (US\$ Million)

Middle East & Africa Organoids Market Segmentation

The Middle East & Africa organoids market is segmented into organ type, type, application, source, and country.

Based on organ type, the Middle East & Africa organoids market is segmented into intestine, liver, stomach, pancreas, lung, brain, kidney, and others. The intestine segment held the largest share of the Middle East & Africa organoids market in 2022.

Based on type, the Middle East & Africa organoids market is segmented into instruments, consumables, and services. The consumables segment held the largest share of the North America organoid market in 2022.

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 largest share of the Middle East & Africa organoids market in 2022.

Based on source, the Middle East & Africa organoids market is bifurcated into pluripotent stem cells and organ-specific adult stem cell. The pluripotent stem cells segment held a larger share of the Middle East & Africa organoids market in 2022.

Based on country, the Middle East & Africa organoids market is segmented into the South Africa, Saudi Arabia, UAE, and the Rest of Middle East & Africa. The Rest of Middle East & Africa dominated the Middle East & Africa organoids market in 2022.

Cellegesce, InSphero, Merck KGaA, STEMCELL Technologies Inc, and Thermo Fisher Scientific Inc are some of the leading companies operating in the Middle East & Africa organoids market.

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