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The contribution of Desert Research Center to the Egyptian microbiology: A bibliographic study since 1951

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ABSTRACT

Desert Research Center (DRC) is one of the oldest scientific institutions dedicated to the study of the desert environment. DRC has got many specializations distributed in four research divisions, comprising 23 scientific departments that are further divided into 45 research units for the fine scientific specialties. In addition to the presence of 10 regional research stations distributed in the desert governorates of Egypt, including a station on the northwest coast, a station in Siwa Oasis, Shalatin, Toshki, New Valley, five stations in the Sinai Peninsula and to the Center for Sustainable Development of Matrouh Resources. Desert Research Centre aims to explore the natural resources in the Egyptian desert, and to develop plans to invest these resources to achieve sustainable development in order to preserve the rights of future generations This bibliography was compiled in order to shed the light on the role of DRC in the science of microbiology in Egypt since 1950.

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Introduction

Desert Research Center is almost the oldest scientific research center in Egypt. In 1927, The King Fouad had thought of establishing a government entity that is specialized in the study of the desert. He had asked the British Dr. W.F. Hume; the Director of the Geological Survey of Egypt and the President of the Royal Geographical Society of Egypt, to prepare a project to study the desert of Egypt. His majesty had endowed an area of land to be the headquarter of this entity in El Keyada El Moshtaraka area in Heliopolis. Fouad I Institute for the Sahara was established on 11/4/1949 by a decree issued by the Office of the Royal Endowments. The institute was officially inaugurated on 30 December 1950, under the name of Fouad I Institute for the Sahara. The institute became affiliated to the permanent council for the development of national production, according to Law No. 533 for the year 1953. After 23rd of July Revolution 1952, the name of the institute was changed to Desert Institute, and it was relocated to the current headquarter "Prince Yusef Kamal. Palace" in Matareya area in Cairo in 1956.

Desert Institute was affiliated to the National Research Center by the Republican Decree No. 915 of 1957. Desert Institute was transferred to be affiliated to the General Authority for the Development of Deserts by the Republican No. 1430 of 1959.

Desert Institute was transferred to the Ministry of Scientific Research according to Republican Decree No. 46 of 1963. Republican Decree No. 90 of 1990 was issued to Establish Desert Research Center and to be affiliated to the Ministry of Agriculture and Land Reclamation. In Desert Research Center, microbiology is one of the most significant branches of biology. Microbiologists play an

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important role in disease prevention, the development of agrochemicals, and even the preservation of the environment by closely analysing microorganisms. Researchers in desert research center are utilised to study about every part of the organisms in order not only to understand how they exist in their environments but also how they affect their individual surroundings and, in turn, other organisms nearby (human beings, animals, etc.)

Microbiology has consistently proved to be one of the most significant fields in desert research center, making it possible to define how some microorganisms cause diseases, discover treatments for such diseases and even use a few microbes for industrial applications etc. The majority of the natural elements on the earth contain microorganisms. All living things, including humans, plants, and animals, are intimately connected to the microbes that consistently recycle important nutrients like carbon and nitrogen, break down organic matter, and influence our daily lives.Due to the importance of microbiology and the ease with which it may be studied, the field is divided into several areas, including parasitology, mycology, bacteriology, virology, and microbial genetics. The specific disciplines of microbiology have great similarities with one another and with other academic fields, and some of its elements may go beyond the traditional parameters of microbiology. Cellular microbiology is a subfield of microbiology that focuses entirely on research.

In the last twenty years, concern over the microbial studies in DRC has grown, and many studies on the subject have been carried out by various investigators. This selective annotated bibliography seeks to identify and locate the publications produced from this research, providing a solution to the lack of bibliographic information on the topic. Based on the data collected from previous studies as well as information obtained from websites, DRC library and published papers it can be deduced that the number of references up to the present time is about 624. Studies were sorted out into four main groups since 1953. Studies in the last twenty years (2001-2022) came first by accommodating 491 studies, while the years of 1953-1970 came last by recording only 14.

Although the present study will add some new data to our information concerning the DRC role in microbiological studies of Egypt, this updated bibliography must be considered as a provisional one always waiting for continuous supplementation.

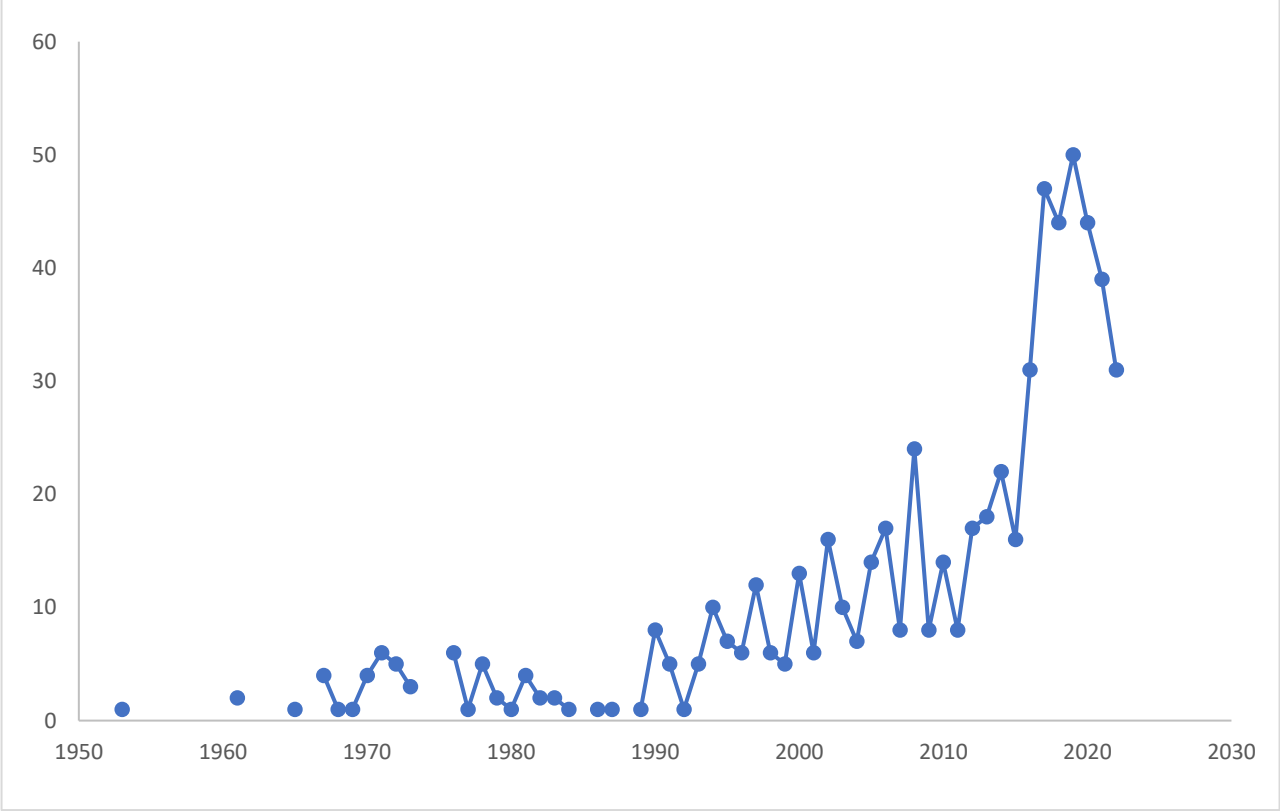

Fig 1. Number of published work related to microbiology in Desert research center from 1953 to 2022.

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