

## Report Information

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# Biohacking Market Research Report - Forecast till 2030

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## Description:

### Global Biohacking Market Overview

The biohacking market size was valued at USD 20.1 billion in 2022 and is projected to grow from USD 23.9 Billion in 2023 to USD 67.9 billion by 2030, exhibiting a compound annual growth rate (CAGR) of 19.00% during the forecast period (2023 - 2030). Rising frequency of chronic diseases, awareness of biohacking, and demand for smart devices & drugs are the key market drivers enhancing the market growth.

[Biohacking Market Overview](#)

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

### Biohacking Market Trends

- **Growing Prevalence of chronic diseases to boost market growth**

The rise of chronic diseases, awareness of biohacking, and demand for smart devices and drugs are the main driving factors for the expansion of the market in the forecast period. Chronic diseases such as: alzimer, arthritis, asthma, bipolar disorder, cancer, depression, diabetes, eczema etc. For instance, as per NCBI, due to chronic diseases about 60% deaths happened and 43% of the global disease burden. The sharp increase in the chronic diseases with the aged population is anticipated to provide opportunities for the growth of the biohackers market in the coming years.

Further, smart devices and drugs segment is also support in the market growth of the biohacking. To innovate new avenues in biotechnology, molecular biology, and genetic engineering, research individuals and scientists performed different laboratory experiments. Biohackers embark on various experiments on the body, inserting microphone or monitoring the heart rate. Some of the main products produced through the experiments are brain sensors, RFID implants, smart drugs, microchips, bacterial and yeast strain, magnetic fingertips, and health trackers.

Additionally, as per World Health Organization (WHO), account for 41billion annual deaths, or 74% of all deaths worldwide. 17 billion individuals worldwide pass away from chronic diseases before they run 70 each year, 86% of these untimely deaths take place in low- and middle-income nations. The majority of chronic deaths, or 17.9 billion people per year, are caused by cardiovascular illnesses, which are followed by malignancies (9.3 billion), diabetes (2.0 billion including kidney disease deaths caused by diabetes).use of tabacco products, inactivity, hazardous alcohol use, poor diets, and physical inactivity all raise the chance of dying from chronic diseases. Therefore, such products has increased the chronic diseases due to which the market CAGR of biohacking expand across the globe in the recent years.

However, to cater the demand there has been significant advances in the treatment innovations. For instance, there has been a number of introductions of smart drugs and devices is another factor driving the growth of the biohacking market revenue.

### Biohacking Market Segment Insights

#### Biohacking Product Insights

The Market segments of Biohacking, based on Product, includes Smart Drugs,bio sensors, Strains, and others. The Smart drug segment held the majority share in 2022 contribution to the Biohacking Market revenue. This is primarily owing to the rising prevalence of stress and to improve their work quality. Smart drugs are supplements that balance the human health related problems and also used for detection of the G.I. infections and monitoring the drug adhesion among patients across the globe. Moreover, due to the high potential and positive results of smart pills technology, various clinical trials are ongoing. Therefore, smart drug market segmentation is expected to grow in the coming years.

**January 2022** Novo Nordisk launched an anti-diabetes pill named semaglutide in India, which can treat type 2 diabetes. A glucagon-like peptide (GLP-1) receptor analog molecule has presented in semaglutide which has become promising addition to diabetes treatment.

### Biohacking Application Insights

The Biohacking Market data has been bifurcated by application into synthetic biology, genetic engineering, forensic science, diagnosis & treatment, and drug testing. The forensic sciences segment dominated the market in 2022 and is projected to be the faster-growing segment during the forecast period, 2022-2030. Researchers and scientists have performed several diagnostic experiments to explore new directions in genetic engineering, magnetic fingerprints, molecular biology, and biotechnology. Biohackers are accompanying several tests on the human body such as

inserting microchips or monitoring the heart rate to regulate stress levels. Several devices have been developed to investigate the human body. Some of the devices are microchips, brainsensors, RFID implants, smart medications, and smart blood pressure monitors.

The magnetic fingerprints tool is developed by forensic sciences to catch the criminal easily. Crime scene investigators, forensic scientists, and police officers may swiftly and easily match a fingerprint at a crime scene with a large virtual database thanks to modern forensic tools. Additionally, the use of no-touch wand and magnetic fingerprints dust allows detectives to obtain a flawless imprint of fingerprints at a crime scene without contaminating it.

### **Figure 1: Biohacking Market, by Application, 2022 & 2030 (USD Billion)**

**Biohacking Market, by Application, 2022 & 2030**

**Source: Secondary Research, Primary Research, MRFR Database and Analyst Review**

#### **Biohacking End User Insights**

Based on End Users, the global biohacking industry has been segmented into pharmaceutical & biotechnology companies, Forensic Laboratories, and others. The pharmaceuticals & biotechnology is the largest segment share in 2022, owing to the increasing geriatric population. The demand for monitoring heart rate devices, blood sugar level, and body movements are another factors support the growth of the pharmaceutical & biotechnology segment in the biohackers market.

The forensic laboratories is the fastest growing segment in the coming years.

#### **Biohacking Regional Insights**

By Region, the study provides the market insights into North America, Europe, Asia-Pacific and Rest of the World. North America biohacking market accounted for USD 9.20 billion in 2022 and is expected to exhibit a significant CAGR growth during the study period. This is attributed to the growing incidence of chronic diseases, awareness of biohacking as well as an ageing population across the region.

Further, the major countries studied in the market report are: The U.S, Canada, Germany, France, UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

### **Figure 2: BIOHACKING MARKET SHARE BY REGION 2022 (%)**

**BIOHACKING MARKET SHARE BY REGION 2022**

**Source: Secondary Research, Primary Research, MRFR Database and Analyst Review**

Europe biohacking market accounts for the second-largest market share due to the availability of cutting-edge treatment facilities, government backing for the growth of the healthcare industry, an ageing population, and an increase in incidence of chronic disease. Further, the Germany market of biohacking held the largest market share, and the UK market of biohacking was the fastest growing market in the European region.

The Asia-Pacific biohacking Market is expected to grow at the fastest CAGR from 2022 to 2030. This is due to increased rates of chronic disease, government initiatives towards healthcare sector, and awareness of biohacking. Moreover, China market of biohacking held the largest market share, and the India market of biohacking was the fastest growing market in the Asia-Pacific region.

#### **Biohacking Key Market Players & Competitive Insights**

Major market players are spending a lot of money on R&D to increase their product lines, which will help the market growth of market of biohacking. Market participants are also taking a range of strategic initiatives to grow their worldwide footprint, with key market developments such as new product launches, contractual agreements, mergers and acquisitions, increased investments, and collaboration with other organizations. Competitors in the biohacking industry must offer cost-effective items to expand and survive in an increasingly competitive and rising market environment.

One of the primary business strategies adopted by manufacturers in the global biohacking industry to benefit clients and expand the market sector is to manufacture locally to reduce operating costs. In recent years, biohacking industry has provided smart drug with some of the most significant benefits. The biohacking market major player such as Thync Global Inc. (US), Synbiota (Canada), Apple (US), HVMN, Inc. (US), MoodMetric (US), THE ODIN (US), Fitbit, Inc., and others are working to expand the market demand by investing in research and development activities.

Apple (US) is a producer of personal computers, computer peripherals, smartphones, and computer software. In healthcare sector Apple provides the best care with powerful and intuitive tools. Its technology helps them work effectively with in hospitals, conduct groundbreaking medical research and connect remotely with patients. For Instance: In 2020, Apple Inc. is projected to make an addition to its already present healthcare watches, 'Watchos-series' and with this new feature, the Apple device is expected to monitor patterns of sleeping. This new product is anticipated to make its product portfolio better.

InterXon inc. is a leading neurotechnology company with a brain and biosensor platform of software and hardware products, a consumer and licensable B2B products, a sophisticated infrastructure in data-cloud form. InterXon's main motive is to enhance its leading brain health platform through launching a model of wellness membership. It also supports growing offerings for third-party researchers, clinicians, developers and other strategic partnerships. For instance: In January 2020, InterXon launched a new product-Muse S, a meditation Sleep Headband.

#### **Key Companies in the market of Biohacking includes**

- Thync Global Inc(US)
- Synbiota (Canada)
- Apple (US)
- HVMN, Inc. (US)
- MoodMetric (US)
- The ODIN (US)
- Fitbit, Inc., among others

## Biohacking Industry Developments

**April 2020** Fitbit join hands with Scripps Research and Stanford Medicine to study the Role of Wearables to detect, Track, and Contain Infectious diseases like COVID-19.

**October 2021** IntraXon Inc. has launched the Muse S (Gen 2) a new variety of the original Muse S headband. It's a sleep tracker and meditation assistance containing a row of sensors that sit against your forehead, where device detect brain activity.

## Biohacking Market Segmentation

### Biohacking Type Outlook

- Smart Drugs
- Sensors
- Strains
- Others

### Biohacking Application Outlook

- Synthetic Biology
- Genetic Engineering
- Forensic Science
- Diagnosis & Treatment
- Drug Testing

### Biohacking End User Outlook

- Pharmaceutical & Biotechnology Companies
- Forensic Laboratories
- Others

### Biohacking Regional Outlook

- North America
  - US
  - Canada
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Spain
  - Rest of Europe
- Asia-Pacific
  - China
  - Japan
  - India
  - Australia
  - South Korea
  - Australia
  - Rest of Asia-Pacific

- Rest of the World
  - Middle East
  - Africa
  - Latin America

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