



## Market Analysis

### 3rd World Congress on Biosensors and Bioelectronics- Market Research 2020

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As per the new statistical surveying report 'Biosensors market by application (POC, home diagnostics, research labs, biodefense, environmental monitoring, food and beverages industry), Technology, Product (wearable and non-wearable), and geography-global forecast to 2022', the market is required to be esteemed at USD 27.06 billion by 2022, developing at a CAGR of 8.84% somewhere in the range of 2017 and 2022. The market development is driven by the persistent innovative headways in the biosensors biological community, the increment in the utilization of biosensors for nonmedical applications, lucrative development in POC diagnostics, and ascend in the interest for glucose checking frameworks.

Fast innovative progressions combined with rising ubiquity of purpose of care diagnostics and extended application regions in the field of medicinal science are among main considerations driving the worldwide biosensors advertise development over the estimate time frame. What's more, developing diabetic populace base combined with the mounting interest for cost-effective, expendable, and easy to use gadgets are a portion of the crucial components driving business sector development.

With the interdisciplinary amalgamation of methodologies from science, therapeutic science, and nanotechnology, biosensors have quickly cleared their way in the restorative field. Further, the industry is likewise seeing expanding utilization of these gadgets in research facilities, purpose of care testing, and for self-testing which is foreseen to goad showcase request.

Positive government activities went for the advancement of proteomics and genomics is a noteworthy main thrust dwelling in the worldwide market. In addition, the industry is seeing an expanding number of organizations stressing on working together with schools and colleges to create biosensors that are offer high exactness, are moderate and simple to utilize. This is additionally anticipated that would push request altogether finished the following couple of years.

The research methodology used to estimate and forecast the biosensors market begins with obtaining data on key vendor revenues through secondary research. Some of the secondary sources referred to for this research include information from various journals and databases such as IEEE journals, Factiva, Hoovers, and OneSource. The vendor offerings have also been taken into consideration to determine the market segmentation. The bottom-up procedure has been employed to arrive at the overall size of the biosensors market from the revenues of the key players in the market. After arriving at the overall market size, the total market has been split into several segments

and subsegments, which have then been verified through primary research by conducting extensive interviews of officials holding key positions in the industry such as CEOs, VPs,

triangulation procedures have been employed to complete the overall market engineering process and arrive at the exact statistics for all segments and subsegments. The breakdown of the profiles of primaries has been depicted in the figure below.

The market in APAC anticipated that would develop at a high rate somewhere in the range of 2017 and 2022:

The market in APAC is relied upon to develop at a high rate somewhere in the range of 2017 and 2022. The expanding number of individuals experiencing diabetes and government activities toward the change of the social insurance segment in the locale are boosting the interest for glucose screens, in which biosensors are utilized, in APAC.

A portion of the real players working in the biosensors advertises incorporate Abbott Point of Care Inc. (US), Medtronic Inc. (US), F. Hoffman-La Roche Ltd. (Switzerland), Siemens AG (Germany), LifeScan Inc. (US), LifeSensors Inc. (US), Nova Biomedical Corp. (US), Acon Laboratories Inc. (US), Universal Biosensors (Australia), Pharmaco-Kinesic Corporation (US), Bayer Healthcare AG (Germany), Biacore (UK), Bio-Rad Laboratories Inc. (US), Biosensors International Ltd. (Singapore), Ercon Inc. (US), DuPont (US), and Sysmex Corporation (Japan).

#### Why to organize this conference:

Specialists from around the world focused on finding out approximately Biosensors and its advances; this is your excellent opportunity chance to achieve the biggest array of members from the Biosensors and Bioelectronics people. Direct introductions, deliver facts, meet with present and potential researchers, make a mark with better methods for remedy and thoughts, and get call acknowledgement at this 2-day occasion. Incredibly well-known speakers, the trendy techniques, improvements, and the most up to date refreshes in Biosensors are essential to this meeting.

A Unique Opportunity for Advertisers and Sponsors at this International Event.

#### Target Audience:

Scientists, Doctors, Professors, Biosensing Lecturers, Biochemical Engineers, Researchers, Directors of Association and Societies, Bioelectronics Training Institutes, Staff Development Educators, Nanotechnology Research Students, Immunologist, Bio-medical Engineers, Cancer Researchers and Societies, Medical Colleges, Oncologists, Radiologists, Chemotherapists, Pathologists, Business Entrepreneurs, Pharmaceutical Industries, Healthcare Industries.

#### Aims, Scope and Importance:

Our point is to induce researchers to distribute their check and hypothetical results in but an awful lot detail as might be anticipated. There is no confinement at the length of the papers. The full exploratory subtleties ought to take delivery of with the goal that the consequences can be recreated. Electronic statistics and programming with admire to the whole subtleties of the figuring or trial technique, if not worthy to be disbursed frequently, can be stored as positive electronic material. The journals covers all elements of biosensing. The extension consists of but isn't always constrained to the accompanying: enzymes, antibodies, nucleic acids, entire cells, tissues and organelles, different natural or organically enlivened segments. These natural acknowledgment additives have to be held in near spatial touch with transducers inclusive of those dependent on the accompanying standards: electrochemical, optical, piezoelectric, thermal, magnetic, micromechanical. The diary

will include a collection of subjects, such as: DNA chips, lab-on-a-chip innovation, microfluidic devices, nan biosensors and nanotechnology applied in biosensors, biosensor manufacture, biomaterials, biosensor interfaces and movie innovation ,In-vitro and in vivo applications.

#### Key Market Benefits:

- The report provides a quantitative analysis of the current market and estimations through 2014-2024, which would enable the stakeholders to capitalize on prevailing market opportunities
- Extensive analysis of the global apheresis equipment market by product type helps in understanding the types of equipment that are currently used along with the variants that would gain prominence in future
- Competitive intelligence highlights the business practices followed by leading market players across various geographies
- Comprehensive analysis of factors that drive and restrict the growth of the global apheresis equipment market is provided
- SWOT analysis highlights the internal environment of leading companies for effective strategy formulation
- The apheresis equipment market scenario is comprehensively analysed in accordance to the key regions

#### Key Market Segments:

- The Global Biosensors Market is segmented as below:

##### Application

- Drug Delivery
- High-throughput Screening
- Point-of-Care Diagnostics
- Lab Analytics
- Proteomics
- Genomics
- Cell-based Assay
- Capillary Electrophoresis

##### Material

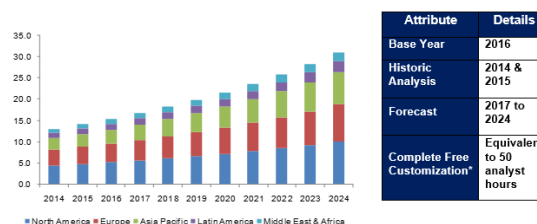
- Polymer
- Silicone
- Glass

#### North America Dominated the Market in 2018-19

North America accounted for the largest share of the microfluidics market in 2018, followed by Europe and Asia Pacific. The largest share of the North American region is mainly attributed to the higher incidence rate of chronic diseases, availability of insurance coverage for laboratory testing procedures, enough reimbursements for medical devices, and presence of well-structured distribution channels in the region. In addition, high demand for self-administration and home healthcare devices, and increasing applications of micropumps, inhalers, and transdermal microneedles for chronic conditions such as migraine, diabetes, cancer pain, and asthma have further resulted in the large share of this market.

#### Global Biosensors Market by region

Global Biosensors Market, by Region, 2014-2024 (in BN USD)



#### Microfluidics Market Share Insights

Some key industry contributors are Illumina, Inc., Agilent Technologies, Caliper Life Sciences (acquired by perkinelmer, Inc.), Cepheid, Danaher Corporation, Life Technologies Corporation (acquired by Thermo Fisher Scientific, Inc.), Bio-Rad Laboratories, Inc., Abbott Laboratories, F. Hoffmann-La Roche Ltd, and Fluidigm Corporation.

Companies are introducing new products to strengthen their market position. For instance, In February 2015, Illumina, Inc. Launched neoprep, an automatic DNA and RNA sample preparation platform. Through the neoprep microfluidics cartridge, 16 samples are prepared at a time. Innovation and research & development by the market players in the microfluidics segment are expected to propel the market growth in the coming years.

#### Top institutes in Asia:

Nanyang Technological University (NTU) Singapore

National University of Singapore (NUS)

The Hong Kong University of Science and Technology (HKUST)

KAIST - Korea Advanced Institute of Science and Technology

University of Hong Kong (HKU)

Tsinghua University, China

Fudan University, China

City University of Hong Kong

Peking University, China

The Chinese University of Hong Kong (CUHK), Hong Kong

#### Top institutes in USA:

Stanford University

Harvard University

California Institute of Technology (Caltech)

University of Chicago

Princeton University

Cornell University

Yale University

Columbia University

University of Pennsylvania

#### Top institutes in Europe:

Massachusetts Institute of Technology (MIT), United States

Stanford University, Stanford University

University of California, Berkeley (UCB), United States

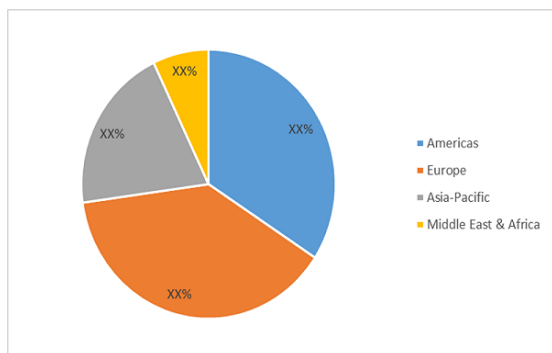
University of Cambridge, United Kingdom

National University of Singapore (NUS), Singapore  
 California Institute of Technology (Caltech), United States  
 Delft University of Technology, The Netherlands  
 Imperial College London, United Kingdom  
 Kyoto University, Japan  
 University of Oxford, United Kingdom

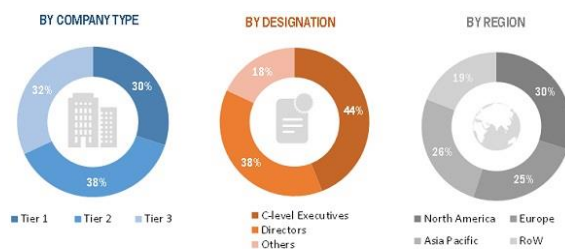
**Top institutes in UAE:**

Al Ghurair University (AGU)  
 University of Dubai (UD)  
 Zayed University  
 Biotechnology University College Dubai (BUC)  
 The Higher Colleges of Technology (HCT)  
 American University in Dubai (AUD)  
 University of Wollongong in Dubai (UOWD)  
 British University in Dubai (BUiD)  
 American University in the Emirates (AUE)

**Global Biosensors Market by Geography:**



The examination procedure used to gauge and conjecture the biosensors showcase starts with acquiring information on key seller incomes through auxiliary research. A portion of the auxiliary sources alluded to for this exploration incorporate data from different journals and databases, for example, IEEE journals, Factiva, Hoovers, and OneSource. The vendor offerings have additionally been mulled over to decide the market division. The base up method has been utilized to touch base at the general size of the biosensors showcase from the incomes of the key players in the market. In the wake of touching base at the general market measure, the aggregate market has been part into a few portions and subsegments, which have then been checked through essential research by leading broad meetings of authorities holding key positions in the business, for example, CEOs, VPs, chiefs, and administrators. The market breakdown and information triangulation methodology have been utilized to finish the general market building process and touch base at the correct measurements for all portions and subsegments. The breakdown of the profiles of primaries has been portrayed in the figure underneath.



Note: Other designations include sales managers, marketing managers, and product managers. The 3 tiers of the companies have been defined on the basis of their total revenue as of 2018; tier 1 = >USD 1 billion, tier 2 = USD 1 billion - USD 500 million, and tier 3 = <USD 500 million.

**The biosensors ecosystem comprises manufacturers of biosensors and biosensor-related technology and service vendors such as**

- Abbott Point of Care Inc. (US)
- Medtronic, Inc. (US)
- F. Hoffman-La Roche Ltd. (Switzerland)
- Siemens AG (Germany)
- LifeScan, Inc. (US)
- LifeSensors Inc. (US)
- Nova Biomedical Corp. (US)
- Acon Laboratories Inc. (US)
- Universal Biosensors (Australia)
- Pharmaco-Kinesis Corporation (PKC) (US)
- Bayer Healthcare AG (Germany)
- Biacore (UK)
- Bio-Rad Laboratories Inc. (US)
- Biosensors International Ltd. (Singapore)
- Ercon, Inc. (US), DuPont (US)
- Sysmex Corporation (Japan)

**Conclusion:**

Biosensors 2020 will bring together microfluidics scientists and Nano-system people to showcase the newest developments and discuss future directions in microfluidic technologies and their applications in complex systems, broadly defined. The topics will be wide-ranging, including chemical synthesis, separations, advanced manufacturing approaches, energy and the environment, multiphase and colloidal systems, systems biology, synthetic biology, biophysics, organs-on-a-chip, and precision medicine. Some important microfluidics applications have been plotted so as to give a thought on how this new science can both assist and lift look into in fields like science and prescription. In any case, there is a ton of space for enhancements so as to spread more microfluidics applications past research simply.