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Neurological Biomarkers Market – Global Industry Size, Share, Trends, Opportunity, & Forecast, Segmented By Type (Imaging, Proteomic, Genomic, Metabolomic, Others), By Application (Multiple Sclerosis, Alzheimer's Disease, Autism Spectrum Disorder, Parkinson's Disease, Others), By End-User (Research Organizations, Hospital & Hospital Laboratories, Independent Clinical Diagnostic Centers, Others), By Region & Competition, 2021-2031F

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Abstracts

The Global Neurological Biomarkers Market is projected to expand significantly, rising from USD 8.81 Billion in 2025 to USD 14.12 Billion by 2031, demonstrating an 8.18% Compound Annual Growth Rate. Neurological biomarkers, which include biological molecules or imaging indicators present in bodily fluids or tissues, are crucial for diagnosing, monitoring, and assessing the prognosis of nervous system disorders. This market growth is primarily driven by a rapidly aging global population and a corresponding increase in neurodegenerative conditions, which demand effective and noninvasive diagnostic tools. The escalating burden of these diseases creates a pressing need for early intervention and precise patient categorization. For example, in 2025, the Alzheimer's Association reported approximately 7.2 million Americans aged 65 and older were living with Alzheimer’s dementia, highlighting the immense requirement for reliable biomarkers in clinical decision-making and therapeutic advancement.

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However, a major challenge for the market is the substantial cost and complexity involved in developing and validating these biomarkers. The central nervous system's physiological protective barriers often hinder the identification of stable peripheral indicators, resulting in extended research timelines and demanding regulatory processes. These financial and technical obstacles can discourage investment and postpone the market introduction of new diagnostic assays, consequently slowing the overall growth of the market.

Market Driver

Technological breakthroughs in genomics and proteomics are fundamentally transforming the Global Neurological Biomarkers Market, notably through the development of highly sensitive blood-based biomarkers. These non-invasive diagnostic options offer significant advantages over conventional cerebrospinal fluid analysis and PET imaging, thereby accelerating early diagnosis and patient screening. For example, Quest Diagnostics reported in October 2025 that their innovative blood-based test panel for Alzheimer's disease demonstrated 91% sensitivity and 91% specificity in identifying amyloid pathology in symptomatic individuals, as published in 'Neurology Clinical Practice'. Such precise diagnostics enable scalable and accessible testing for widespread clinical deployment, substantially broadening the market reach. The operational efficiency derived from these advancements is also boosting adoption; in 2025, Quest Diagnostics found that 94% of surveyed physicians considered these blood tests more cost-effective for the healthcare system than invasive procedures like lumbar punctures.

A significant increase in public and private funding for neuroscience research constitutes the second crucial market driver, supplying the essential capital needed to navigate the intricate process from biomarker discovery to commercialization. The creation of reliable indicators for nervous system disorders demands extensive resources to overcome physiological obstacles, such as the blood-brain barrier, and to adhere to rigorous regulatory benchmarks. According to The Transmitter's November 2025 report, 'Establishing a baseline: Trends in NIH neuroscience funding from 2008 to 2024', the National Institutes of Health allocated $10.5 billion to neuroscience-related projects in 2024, representing more than double the funding levels from 2008. This consistent financial investment is vital for maintaining robust clinical pipelines, empowering research institutions and diagnostic firms to validate new targets that will fuel the sustained growth of the neurological biomarkers sector.

Market Challenge

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The significant capital investment and technical complexities inherent in biomarker validation present a major constraint on the Global Neurological Biomarkers Market. The process of identifying stable peripheral indicators is made difficult by physiological barriers, mandating prolonged and expensive clinical studies to satisfy strict regulatory requirements. These high development costs establish substantial entry barriers and considerably amplify financial risks for diagnostic companies, often resulting in a hesitant approach to new product ventures. Consequently, the commercialization of novel assays is frequently postponed or cancelled, which directly impedes revenue generation and restricts the availability of advanced diagnostic tools.

This slowdown in developmental capacity is especially critical considering the growing economic burden of neurodegenerative conditions that these biomarkers are intended to alleviate. The Alzheimer's Association projected in 2025 that the total cost for caring for individuals with Alzheimer’s and other dementias would reach $384 billion. Although this substantial amount underscores the immense market demand for effective early detection tools, the prohibitive financial and technical hurdles in their creation prevent the industry from adequately scaling to address this urgent need, thereby hindering overall market expansion.

Market Trends

The increasing integration of digital biomarkers through wearable technologies and sensors is fundamentally transforming the Global Neurological Biomarkers Market by facilitating continuous, real-world patient monitoring. Unlike intermittent clinical assessments, which often miss the fluctuating nature of symptoms in neurodegenerative disorders, sensor-based platforms provide objective, long-term data streams that improve disease management and enhance the efficiency of clinical trials. This trend is fostering the adoption of precision neurology solutions that combine passive monitoring with care management, leading to significantly better patient outcomes. For instance, Rune Labs announced in March 2025, concerning their StrivePD Guardian platform, that the technology resulted in a 50% reduction in emergency room visits for Parkinson’s disease patients by enabling proactive symptom management. This measurable clinical benefit is accelerating the commercial adoption of digital biomarkers, establishing them as vital tools for both therapeutic innovation and value-based care frameworks.

Concurrently, the growth of companion diagnostics for neurodegenerative therapies is inaugurating a new phase of market expansion, propelled by the approval of disease-

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modifying treatments that necessitate accurate patient identification. As pharmaceutical firms launch innovative therapies targeting specific pathologies such as amyloid-beta and tau, there is a rising demand for accessible, regulatory-approved screening tools in primary care environments. This shift decentralizes complex testing from specialized facilities to broader community practices, ensuring that suitable patients are quickly identified for treatment. Roche reported in October 2025 that the FDA cleared their Elecsys pTau181 assay, marking it as the first blood-based biomarker test approved for use in primary care to help exclude Alzheimer's pathology in symptomatic patients. This regulatory achievement highlights the crucial role of companion diagnostics in implementing new neurological drugs and broadening the patient population that can be addressed.

Key Market Players

PERKINELMER INC.

Abbott Laboratories Inc

Thermo Fisher Scientific, Inc.

Banyan Biomarkers, Inc.

Bio-Rad Laboratories, Inc.

F. HOFFMANN-LA ROCHE LTD.

Merck & Co., Inc.

DiaGenic ASA

Johnson & Johnson Services, Inc.

Myriad Genetics, Inc.

Report Scope

In this report, the Global Neurological Biomarkers Market has been segmented into the following categories, in addition to the industry trends which have also been detailed

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below:

Neurological Biomarkers Market, By Type

Imaging

Proteomic

Genomic

Metabolomic

Others

Neurological Biomarkers Market, By Application

Multiple Sclerosis

Alzheimer's Disease

Autism Spectrum Disorder

Parkinson's Disease

Others

Neurological Biomarkers Market, By End-User

Research Organizations

Hospital & Hospital Laboratories

Independent Clinical Diagnostic Centers

Others

Neurological Biomarkers Market, By Region

North America

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United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

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Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Neurological Biomarkers Market.

Available Customizations:

Global Neurological Biomarkers Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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