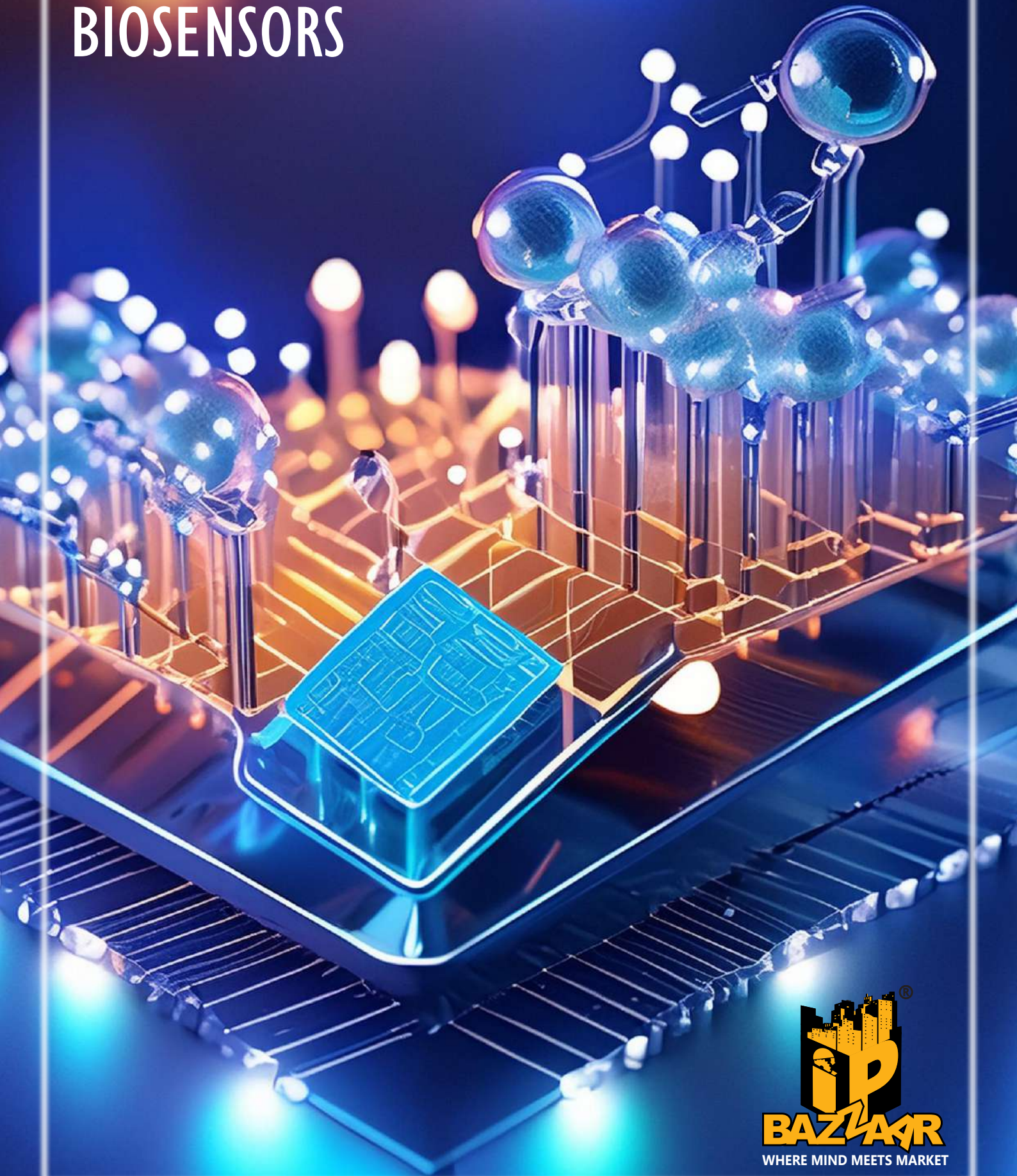


TECH SCAN

BIOSENSORS

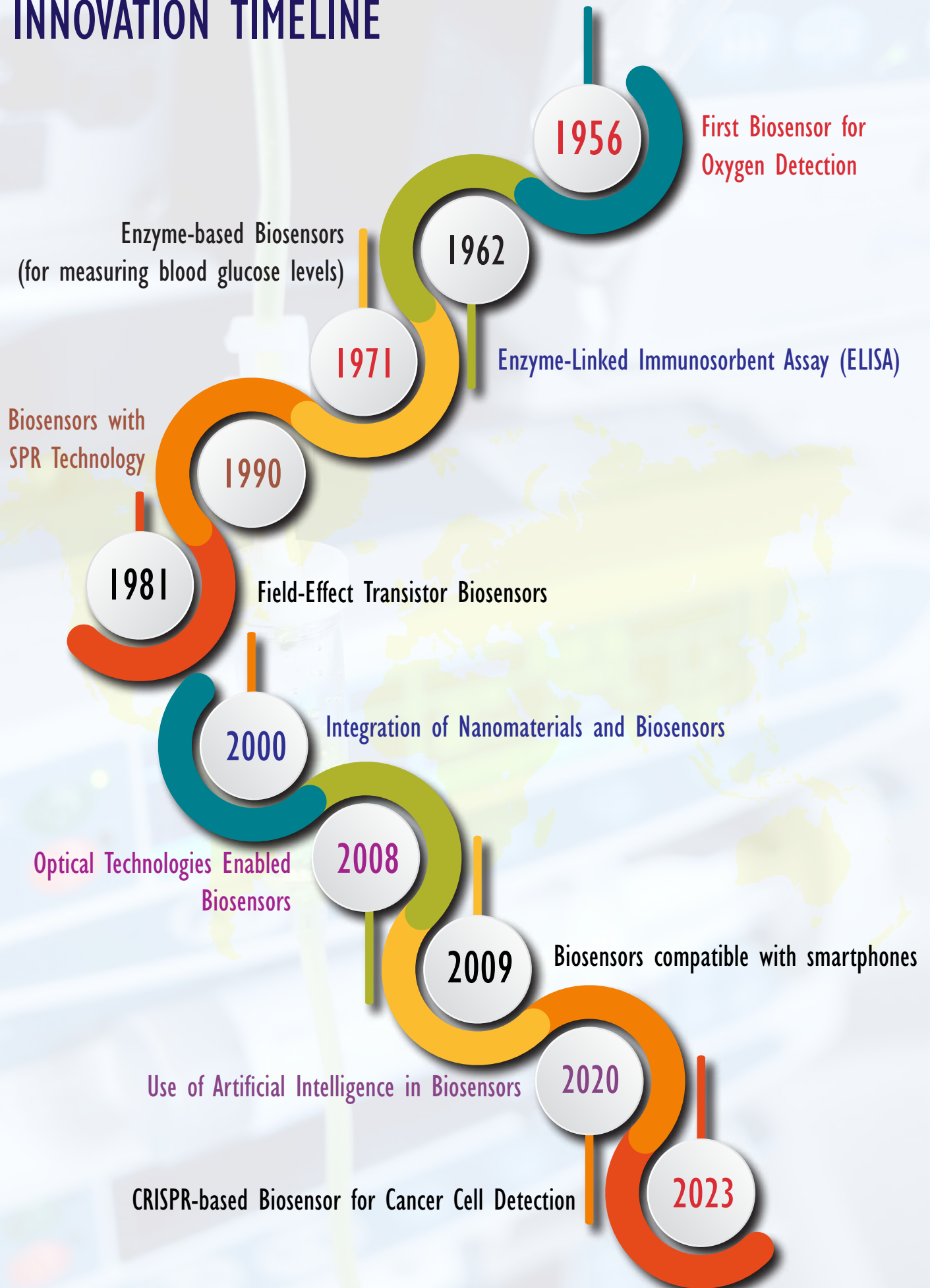


In recent times, there has been a notable surge in the development of biosensor technology, particularly driven by advancements in healthcare, environmental monitoring, and biotechnology. The increased interest in biosensors reflects a global commitment to enhancing medical diagnostics, improving food safety, and addressing environmental concerns. Governments, research institutions, and private enterprises worldwide, including those in India, are increasingly investing in biosensor research and development. The Indian government, recognizing the significance of biosensors in healthcare delivery and environmental monitoring, has actively encouraged innovation in this domain.

Patents related to biosensors encompass a broad spectrum of innovations, including novel sensor designs, advanced detection methodologies, miniaturization techniques, and integration with digital technologies. These patents not only safeguard the intellectual property rights of inventors but also incentivize further exploration and investment in biosensor technology.

Moreover, the protection offered by patents fosters collaborations between academic, industry, and healthcare sectors, driving interdisciplinary research and the translation of biosensor innovations into practical applications. Overall, the growing number of biosensor patents reflects a collective effort to address pressing societal challenges while encouraging innovation and economic growth in India and beyond.

INNOVATION TIMELINE



PATENTABLE COMPONENTS

Biological Recognition Element (Bio-receptor):

- Novel Enzymes
- Unique Antibodies
- Modified Nucleic Acids
- Engineered Cells
- Biomimetic Materials

Transducer:

- Electrochemical Transduction Mechanisms
- Advanced Optical Transducers
- Innovative Piezoelectric Materials
- Specialized Thermal Transducers

Detector:

- Advanced Photodiode Designs
- Novel Spectrophotometer Configurations
- Innovative CCD Camera Technologies
- Photodetector

Signal Processing System:

- Signal Amplification Methods
- Unique Signal Filtering Techniques
- Innovative Signal Conversion Algorithms

Interface:

- Microfluidic Channel Designs
- Unique Reaction Chamber Configurations
- Specialized Surface Coatings For Immobilization

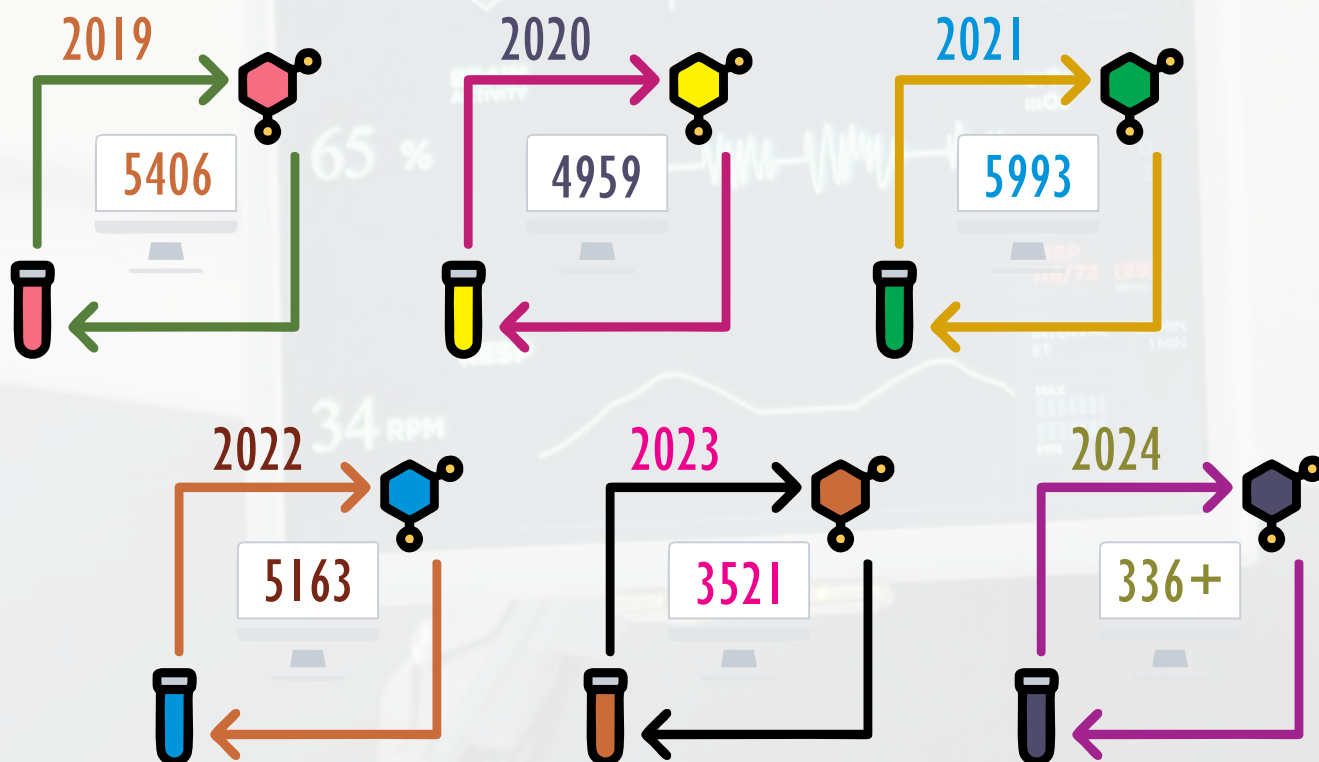
Power Source:

- Novel Battery Designs Optimized for Biosensor Applications
- Innovative Energy Harvesting Mechanisms

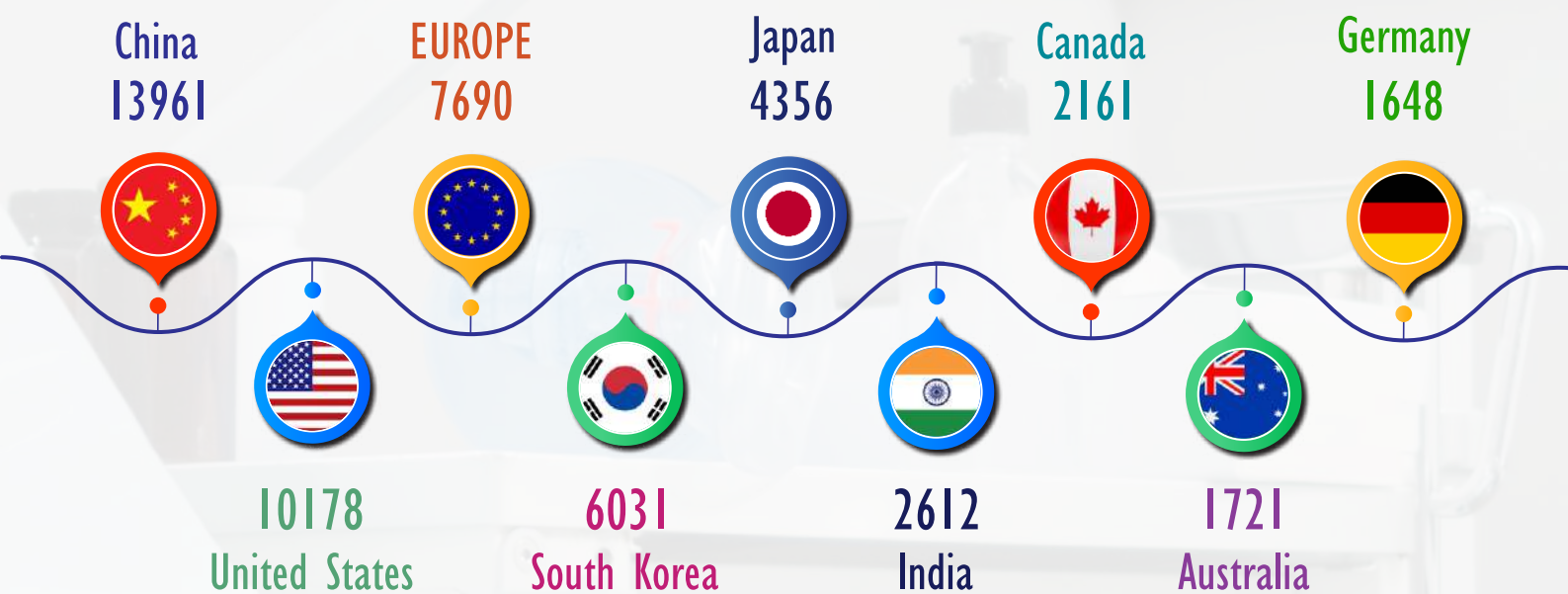
Data Processing and Display Unit:

- Data Analysis Algorithms
- Data Visualization Software
- User Interface Designs

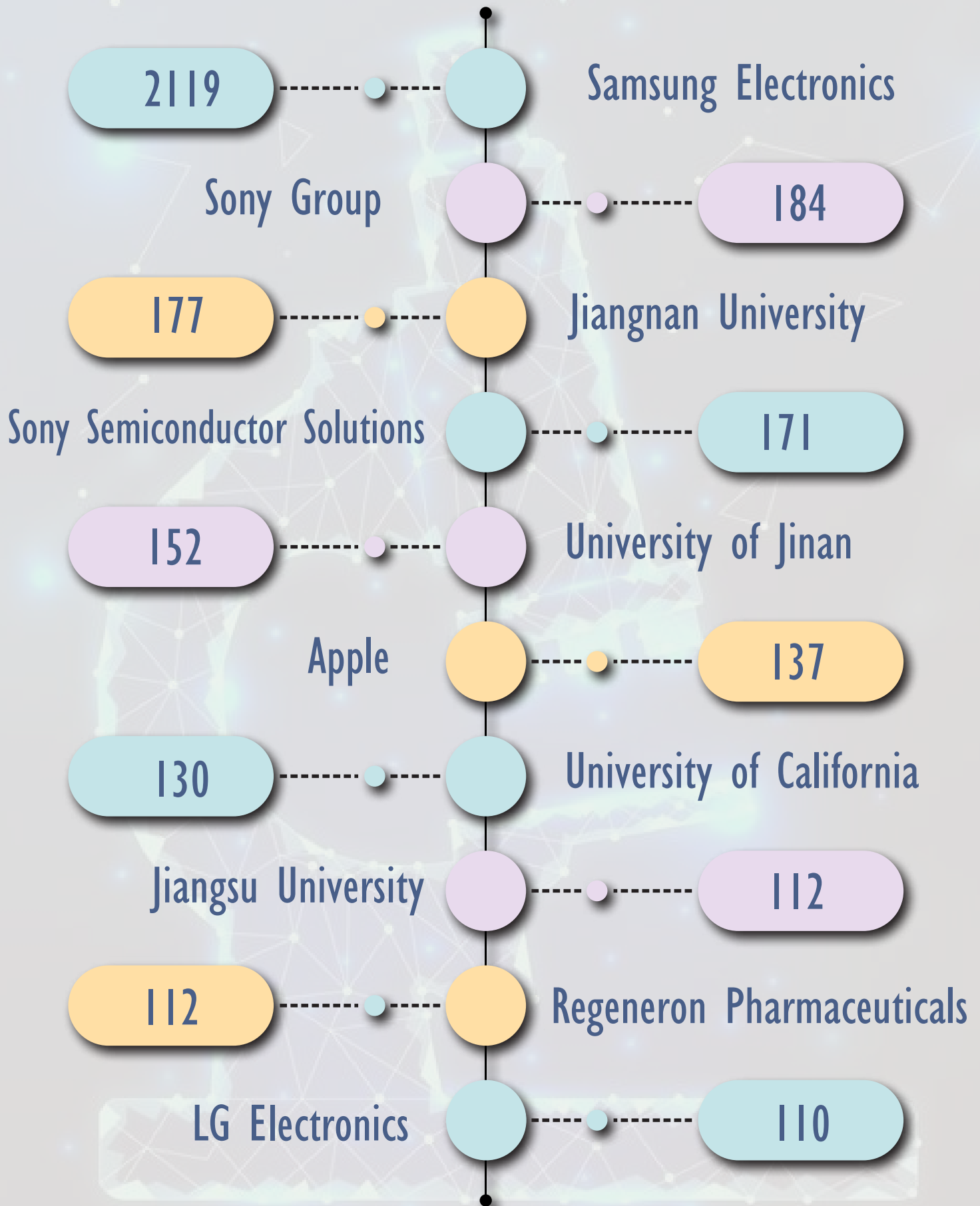
PATENT STATISTICS



PATENT LANDSCAPE



TOP APPLICANTS



Database: Questel Orbit

Date Range: 01/01/2019 to 06/06/2024

NOTABLE INNOVATIONS

Patent Application	Priority Date	Title	Assignee
US2913386	Mar 21, 1956	Electrochemical Device for Chemical Analysis	Clark Jr Leland C
US3958938	Dec 16, 1974	Bioluminescent Sensor System	Bausch & Lomb
GB8333651	Dec 16, 1983	Nucleic Acid Sequence Probes in Amperometric Biosensors	Genetics Int Inc
EP0341928	May 10, 1988	Improvements Relating to Surface Plasmon Resonance Sensors	Amersham Int Plc
US6278231	Mar 27, 1998	Nanostructure, Electron Emitting Device, Carbon Nanotube Device, And Method of Producing the Same	Canon Kabushiki Kaisha
EPI243610	Dec 2, 2000	Nano-scaled Dendrimer-based Colorimetric Biosensors	Michigan Molecular Inst
US20070159216	Jan 9, 2006	FET-based sensor for detecting ionic material, ionic material detecting device using the FET-based sensor, and method of detecting ionic material using the FET-based sensor	Samsung Electronics Co Ltd
US20130014288	Jan 24, 2007	Optical Biosensors	Univ Carnegie Mellon
US10263032	Mar 4, 2013	Photodiode with Different Electric Potential Regions for image Sensors	Apple Inc
US20210162409	Mar 27, 2019	Biological Detection Chip, Biological Detection Device, and Detection Method Thereof	Boe Technology

WHITE SPACES

Implantable Biosensor for Continuous Analyte Measurement

Biosensor Detects Environmental Estrogen using Bacterial System

Laser-sealed Capillary Biosensor

Toxin-detecting Biosensor

Biosensor for Multi-analyte Detection

Metal Ion-Detecting Biosensor

Amperometric Lactate Biosensor

Temperature-adjusted Biosensor Analysis

Time-Resolved Luminescence Biosensor

Nucleic Acid-coupled Enzyme Biosensor

Self-powered Biosensor

Organic Thin Film Glucose Biosensor

Quantum Dot Biosensor with Resonance

Touchscreen Biosensor Device

Genetically Modified yeast Biosensor

If you would like to learn more about any of these areas or have specific questions, we're here to provide further information and insights. Our team is dedicated to driving progress and staying at the forefront of Biosensors Technology.

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