

TECH SCAN

PERSONALIZED MEDICINES



Personalized medicine technology signifies a paradigm shift in healthcare, recognizing the influence of genetics, environment, and lifestyle on treatment responses. By integrating genomics, proteomics, and data analytics, this innovative approach seeks to fine-tune interventions for maximum effectiveness and reduced side effects. The main aim is to bring in a new phase of precision medicine, where treatments are carefully adjusted to fit each person's specific biological characteristics.

The purpose of personalized medicine extends beyond treatment optimization, aiming to address the specific needs

of each patient. By tailoring medical interventions to individual characteristics, including genetic makeup, this approach strives to create a more patient-centric and effective healthcare system.

Patenting personalized medicine technology plays a pivotal role in this landscape. It not only protects intellectual property but also stimulates ongoing innovation by providing a competitive edge. This exclusivity attracts investment, fosters collaboration, and ensures that advancements in healthcare continue to evolve, benefiting patients on a personalized level and advancing the collective well-being of society.



A medical-themed background featuring a teal surface. In the top left, a black clipboard with a silver clip holds a white sheet of paper. A silver pen lies horizontally across the paper. A blue surgical mask is positioned diagonally in the middle left. A black stethoscope with a silver chest piece is coiled across the bottom left and center of the page.

INNOVATION TIMELINE

1999: The idea of “personalized medicine” was introduced, focusing on creating medicines tailored to a person’s unique genetic makeup.

2003: The Human Genome Project was completed, mapping all human genes and opening new possibilities for personalized treatments.

2004-2007: Early tests and big research projects began to develop personalized therapies based on genetic information.

2009: Electronic health records started being used to combine patient data with genetic info, helping doctors make better decisions.

2010-2015: Scientists worked on turning genetic data into real treatments, using multiple types of biological data to improve accuracy.

2018-2019: New tools like liquid biopsies (blood tests for cancer) and wearable devices became popular, making personalized medicine easier and less invasive.

2021: Cutting-edge technologies like gene editing (CRISPR) and artificial intelligence (AI) started playing a big role in personalizing healthcare.

2023: Attention grew on making sure personalized medicine is fair, ethical, and available to everyone.

2024-2025: AI and advanced biological data are now widely used to predict health risks and tailor treatments, with ongoing efforts to make these innovations accessible worldwide.

PATENTABLE ASPECTS

01

Genetic Biomarkers

02

Companion Biagnostics

03

AI Diagnostics

04

Targeted Therapies

05

Immunotherapy
Methods

06

Multi-omics Platforms

07

Predictive Algorithms

08

Liquid Biopsy Tests

09

Genomic Sequencing

10

Personalized
Drug Design

PATENT STATISTICS

Saveetha Institute of
Medical & Technical
Sciences

31

Zhejiang
University

19

Federalnoe Gosudarstvennoe Byudzhethoe Uchrezhde Nie
Natsionalnyj Meditsinskij Issledovatel'skij Tsentr Serdechno
Sosudistoj Khirurgii Imeni A N Bakuleva Ministerstva
Zdravookhraneniya Rossijskoj Federatsii

14

Beijing Clin
Bochuang
Biotechnology

12

Jilin
University

14

Chongqing
University

12

Precedo
Pharmaceuticals

12

Sichuan
University

12

Nanjing
University of
Chinese Medicine

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Data Range: 01/01/2020 - 31/05/2025



PATENT LANDSCAPE



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YEAR WISE PATENT FILING TREND



NOTABLE INNOVATIONS

Patent Application	Priority date	Title	Assignee
IN202541024372	Mar 19, 2025	Personalized medicine system	Bagyalakshmi K Akash G Vishal V
IN202541018175	Mar 01, 2025	Personalized medicine: ai-powered platform for personalized medicine, including tailored treatment plans and predictive analytics	Konnurmath Guruprasad Vijayalakshmi M
IN202411009734	Feb 13, 2024	Machine learning-based personalized medicine recommender system	Gautam Parth Jain Nilesh
IN202341063977	Sep 23, 2023	Deep learning-based personalized medicine decision support system	Arulprakash P Kanakaprabha S
WO2024013330	Nov 26, 2022	Immunogenic Personalised Cancer Vaccines	Universität Zürich
WO2023056155	Mar 29, 2022	Personalized Medicine and Therapies Platform	Vineti Inc.
US20230118099	Oct 14, 2021	Personalised Medicine Treatment Program	Closed Loop Medicine Ltd
WO2023017099	Aug 10, 2021	Methods And Apparatus Utilising Liquid Biopsy to Identify and Monitor Pharmacodynamics Markers of Disease	Certara Usa, Inc.
WO2021148110	Jan 21, 2020	Hbv Specific Tcr Library And Its Use As Personalised Medicine	Lion Tcr Pte Ltd
WO2022086454	Oct 23, 2020	System And Method For Delivering Personalized Cognitive Intervention	Neuroglee Science Pte. Ltd.
US20220180991	Dec 6, 2020	Systems And Methods For Creating Personalized Medicines For Treating Heart Failure And Heart Disease	Acorai AB



WHITESPACES

Validating
Biomarkers
For Precise
Treatment
Selection

Integrating
Multi-Omics
Data For
Comprehensive
Patient Profiling

Standardizing
Molecular
Diagnostics
Methodologies

Tailoring
Clinical Trials
For Targeted
Therapeutic
Approaches

Adapting
Regulations
For
Personalized
Treatments

Specialized
Education For
Healthcare
Professionals
in Genomics

Engaging
Patients in
Personalized
Treatment
Decision

Establishing
Reimbursement
For Personalized
Therapy Costs

Addressing Data
Privacy And
Security Gaps
In Personalized
Medicine

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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 Personalized Medicines.

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