

# The 2023-2028 Outlook for Precision Medicines in China

<https://marketpublishers.com/r/290FAE9B9700EN.html>

Date: August 2022

Pages: 185

Price: US\$ 595.00 (Single User License)

ID: 290FAE9B9700EN

## Abstracts

This study covers the latent demand outlook for precision medicines across the regions of China, including provinces, autonomous regions (Guangxi, Nei Mongol, Ningxia, Xinjiang, Xizang - Tibet), municipalities (Beijing, Chongqing, Shanghai, and Tianjin), special administrative regions (Hong Kong and Macau), and Taiwan (all hereafter referred to as 'regions'). Latent demand (in millions of U.S. dollars), or potential industry earnings (P.I.E.) estimates are given across some 1,100 cities in China. For each major city in question, the percent share the city is of the region and of China is reported. Each major city is defined as an area of 'economic population', as opposed to the demographic population within a legal geographic boundary. For many cities, the economic population is much larger than the population within the city limits; this is especially true for the cities of the Western regions. For the coastal regions, cities which are close to other major cities or which represent, by themselves, a high percent of the regional population, actual city-level population is closer to the economic population (e.g. in Beijing). Based on this 'economic' definition of population, comparative benchmarks allow the reader to quickly gauge a city's marketing and distribution value vis-?-vis others. This exercise is quite useful for persons setting up distribution centers or sales force strategies. Using econometric models which project fundamental economic dynamics within each region and city of influence, latent demand estimates are created for precision medicines. This report does not discuss the specific players in the market serving the latent demand, nor specific details at the product level. The study also does not consider short-term cyclicalities that might affect realized sales. The study, therefore, is strategic in nature, taking an aggregate and long-run view, irrespective of the players or products involved.

In this report we define the sales of precision medicines as including all commonly understood products falling within this broad category, irrespective of product

packaging, formulation, size, or form. Companies participating in this industry include 23andMe, Ab-Biotics Sa, Abbott, Abcodia, ACS Biomarker, Actelion Pharmaceuticals, Advanced Biological Laboratories, Advaxis, Affymetrix, Agendia, Agenus, Alacer Corporation, Alberta Cancer Research Biobank, Alios BioPharma, Inc., Almac, Amgen, Apple, Archimedes, Aspen, Astellas Pharma, AstraZeneca, Astute Medical, Asuragen, AT&T, Athenahealth, Aurora, Auspex Pharmaceuticals, Avon Longitudinal Study of Parents and Children, Bayer, BGI Tech Solutions Company, Ltd., Biocrates Life Sciences, BioFortis, BioGene, Biomerieux, bioMérieux, BioNTech, Bioven International Sdn Bhd, Bode Technology group, Inc., Bristol-Myers Squibb, CareWell Urgent Care, Caris, Celera Diagnostics, Cell & Co Biorepository, Celtics Healthcare, Cepheid, Cetics Healthcare Technologies GmbH, CFR Pharmaceuticals, Ciba-Geigy, Clariant Diagnostic Services, Inc., Cognizant, Cooperative Human Tissue Network, Copan, Covance, Cubist Pharmaceuticals, CureVac, Daiichi Sankyo Company, Dako, Dell, Diabeter, Eagle Genomics, Ltd., Eli Lilly, Estonian Genome Project, F. Hoffmann-La Roche, Ferrer InCode, Ferring Pharmaceuticals, Fisher BioServices, Flakka, Foundation Medicine, GE Healthcare, Genome Medicine, Genomic Health, GenoSpace, Gen-Probe, GlaxoSmithKline, Glooko, Google, Gritstone Oncology, Hologic, Human Tissue Resource Network, HUNT Biobank, IBM, Idera Pharmaceuticals, Illumina, Immatics Biotechnologies, Immuneering Corporation, Immunovative Therapies, Infectio Diagnostic, Inc., Institutional Biobank of Lausanne, Intel, Intomics, Janssen Biotech, Japan Post Group, Johnson & Johnson, Kaiser Permanente, Lab-Ally, Laboratory Corporation of America, LG, Life Technologies, Illumina, Luminex Molecular Diagnostics, Inc., Lutron Electronics, Mayo Clinic, Medpace, Medtronic, Merck, Moderna, Modul-Bio, Molecular Health, Monogram Bioscience, Myriad Genetic Laboratories, Nanosphere, NanoString, NantKwest, Neon Therapeutics, NextWave, Novartis, Omnyx, LLC, OncoMed Pharmaceuticals, Oncotype DX, OneMedNet Corporation, Oracle Healthcare, Panasonic Healthcare, PATH Biobank, Personalis, Pfizer, Philips Healthcare, ProMedDx, Q2 Solutions, Qiagen, Qualcomm, Quest Diagnostics, Randox Laboratories, Reddy Laboratories, Roche, Royal Philips, Samsung, Sandoz, Sanofi Aventis, Siemens Clinical Lab, Signature Diagnostics AG, St. Jude Medical (SJM), Sterand, PLC, Syapse, Sysmex, Takeda Pharmaceutical Company, Tepnel Pharma Services, Teva Pharmaceutical Industries, Therascreen, Thermo Fisher Scientific, Topera, Trofile, U.K. Biobank, UMass Cancer Center Tissue and Tumor Bank, Ventana Medical Systems, Veropharm, Vysis, and Zinfandel Pharmaceuticals. In addition to the sources indicated, additional information available to the public via news and/or press releases published by players in the industry was considered in defining and calibrating this category. All figures are in a common currency (U.S. dollars, millions) and are not adjusted for inflation (i.e., they are current values). Exchange rates used to convert to U.S. dollars are averages for the year in question. Future exchange rates are assumed to be

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