



Pharmacogenetics in psychiatry

Personalized treatment
supported by genetic insights

Databases for personalized medication

GeneRx database

Abomics' GeneRx database is a high-quality, clinically designed pharmacogenetic tool that provides actionable gene-drug recommendations.

- 1 Helps healthcare professionals identify risks of adverse reactions and ineffective treatments, especially when alternatives exist.
- 2 Maintained under a certified quality management system.
- 3 Continuously updated by prescribing physicians, ensuring real-world clinical relevance.
- 4 Reliable and long-term solution for labs and EHR providers.
- 5 Offers unmatched language coverage for global healthcare use.

DLE database

The Abomics DLE knowledge base is a product for:

- 1 Hospitals and clinical laboratories that includes information about the effects of drugs on laboratory test results.
- 2 Together with GeneRx, it can provide the most relevant information for personalized patient treatment.

Benefits of pharmacogenetic testing in mental health treatments

Psychiatric medications often involve a trial-and-error process which can be frustrating, costly, and even harmful.

Pharmacogenetic (PGx) testing provides psychiatrists with valuable insights into how genetic differences influence drug response. It is particularly valuable for individuals with treatment-resistant depression, bipolar disorder, or complex psychiatric conditions that require multiple medications.

Because a person's genetic profile remains constant throughout life, the results of pharmacogenetic testing can be used as a lifelong guide for making informed medication decisions.

PGx testing:



Reduces trial-and-error of medication optimization



Accelerates medication and dose optimisation which shortens treatment time



Reduces risks of adverse drug reactions



Supports medication decisions for a lifetime

Evidence in psychiatry

99%

of the subjects carried actionable PGx variants in at least one gene.¹

30%

of adverse drug reactions can be reduced with PGx testing.²

67%

of patients achieved remission only after four treatment steps.³

Up to **65%**

of antidepressant treatments are initially ineffective.⁴

Patients whose treatment was guided by PGx testing were

Abomics' GeneRx database includes over

41%

more likely to achieve remission from depression.⁵

60

psychiatric drugs that are affected by pharmacogenetics.

How it works?

Pharmacogenetic testing analyzes genes to predict how a patient will respond to specific psychiatric medications. This includes:

- antidepressants
- antipsychotics
- mood stabilizers

References:

¹Ji Y, et al., 2016

²Swen JJ et al., 2023

³Huynh NN, McIntyre RS, 2008

⁴Lorvellec M-A et al., 2024

⁵Brown LC, et al., 2022

Get started

Depending on your needs, we can:

- 1 Help you set up your own laboratory to provide PGx testing tailored to your patients' needs.
- 2 Connect you with our partner labs in the region.



Easy ordering

Upload files through our portal or via EMR/API integration.



Rapid interpretation

Our experts analyze the data and deliver the results within 1-3 days.



Seamless access to results

View reports directly in the Abomics portal or your EMR. The report is available in multiple languages.



Consult your patient

Manage your patient's health with a help of genetic results and international recommendations.

For more information please contact us at info@abomicspgx.com

Why Abomics?

Founded by medical professionals in 2013.

Expertise built on more than a decade of expert-reviewed PGx interpretation.

Evidence from CPIC, DPWG, FDA, EMA, and peer-reviewed research underpins every report.

Actionable and user-friendly reports available in multiple languages.

Integration with EMRs and secure access via API or the Abomics portal.

Certified medical device quality management system (ISO13485:2016).

Contact us

For more information regarding our solutions please contact us. Let's take a next step in PGx together.



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